

4633A-3

Considered: _____

WATER PERMIT NO 4633A-3

Phone: 854-3811

Name of Applicant: Richard F. Poppen

Post Office Address: RR 1, Box 115, DeSmet SD 57231

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

Source of Water Supply: groundwater

Water to be used for: irrigation County: Kingsbury

About 9 miles north, 5 west of DeSmet

COPIES OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY Date Received: 12-20-91 Fee: \$50.00 Remarks Correct the

diversion point on Water Permit No. 4633-3

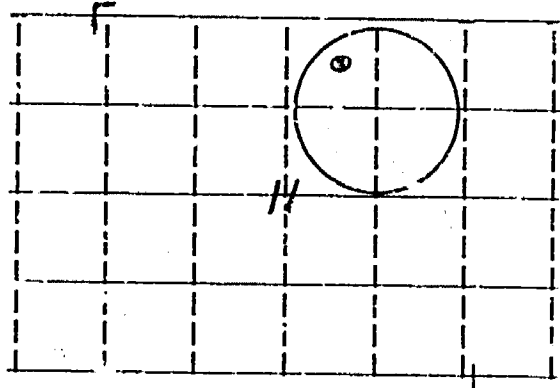
Corrected Application Received 12-24-91 Period of Annual Use April 1 - Oct 31

WATER QUALITY APPROVAL RECEIVED _____ APPROVED/CONDITIONAL (Circle one)

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

diversion Point: NW 1/4 NE 1/4 Sec 11-T112N-R57W

and to be Irrigated: NE 1/4 Sec 11-T112N-R57W



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

Depth of Well: 85' REMARKS _____

Type of Map: aerial PREPARED BY: Norma Job Reviewed and the Number

assigned on 12-26-91 By Karen Schlaak

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4633A-3

(1) Richard E Poppen, of RR #1 Box 115, DeSmet, SD 57231 made Application No. 4633A-3, December 20, 1991 for a water permit to appropriate no additional cubic feet of water per second from groundwater (one existing well), Kingsbury County, South Dakota for irrigation purposes. Permit No. 4633A-3, with a priority date of February 20, 1981 (established by Water Permit No. 4633-3) was approved March 4, 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 on or before completed.

Water Permit No. 4633A-3 specifies the correct location of the well authorized by Water Permit No. 4633-3. No. 4633A-3 did not authorize an increase in the developed diversion rate or acres irrigated.

The applicable portions of Water Permit No. 4633-3 have been incorporated into this Water License No. 4633A-3. A February 20, 1981 priority date is retained.

(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 1.33 cubic feet of water per second for beneficial use. The location of the diversion point is 595 feet south and 1980 feet west of the NE corner of Section 11, T112N, R57W (NW 1/4 NE 1/4).

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

T112N, R57W	Section 11	NW 1/4 NE 1/4	30 acres
		NE 1/4 NE 1/4	30 acres
		SW 1/4 NE 1/4	30 acres
		SE 1/4 NE 1/4	30 acres
		Total	120 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Richard E Poppen of RR #1 Box 115, DeSmet, SD 57231 the holder and/or owner of Incorporated Water Permit No. 4633A-3 is issued a license to appropriate water, the right to use 1.33 cubic feet of water per second from groundwater (one well) with a priority date of February 20, 1981 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. 4633A-3 and subject to South Dakota State Law.

JUN 11 1993


JOHN HATCH, Chief Engineer
Water Rights Division

Department of Environment and Natural Resources

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

(See Instructions)

No. 4633H-3 Hydrologic Unit 10170103
Basin Vermillion River
Newspaper Deseret News, Box 69, 57231 (Wed)

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

- Type of Application: ☒ 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. 4633-3

1. Name of Applicant Richard E. Poppen Phone No. 854-3811 Days
Post Office Address RR1 Box 115 Desmet State SD 57231
(Street, R.R. or Box) (City) Zip Code

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

3. Source of Water supply well

4. Location of point of diversion NW 1/4 NE 1/4 Section 11-T112N-R57W

5. Counties where water will be used Kingsbury County 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 NE 1/4	30
NE 1/4 NE 1/4	30
SW 1/4 NE 1/4	30
SE 1/4 NE 1/4	30

Land Description	No. Acres Irr.

Section 11-T112N-R57W

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Lowline: _____ Center Pivot: ☒ Other: _____
Gun: _____ (Specify) _____

9. Crops to be Irrigated: Corn, alfalfa, beans

10. Give a description of proposed project. (Attach sheet if more space is needed)

This application is to correct the location of the diversion point that was permitted under Water Permit No. 4633-3.

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 Kingsbury) ss

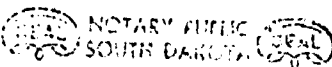
I, Richard E. Poppen, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters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

Signed: Richard E. Poppen

Subscribed and sworn to before me this 19th day of December 19 91

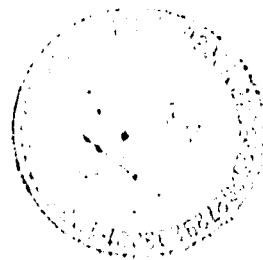
Melodie M. Becker
Notary Public

MELODIE M. BECKER



Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 28" Depth 85'
- b) Casing Type Plastic Diameter 16" Thickness _____
- c) Screen Type Stainless Steel Diameter 16" 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) 57'
- g) Distance to nearest existing domestic well:
On applicants property 1/2 mile On property owned by others 1/4 mile

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 _____

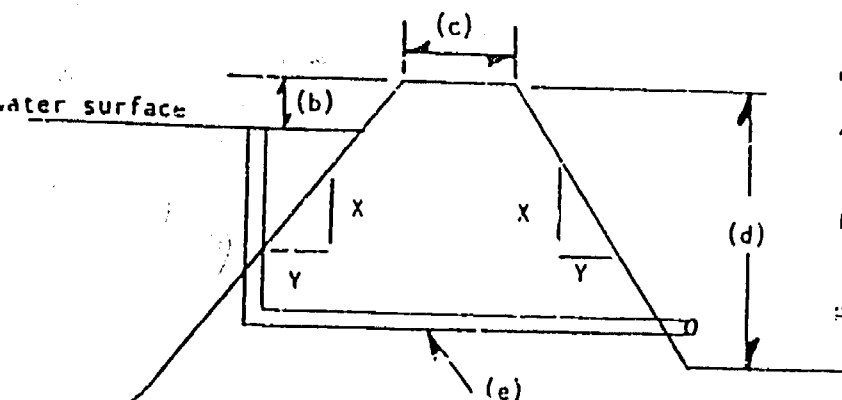
e) Primary Outlet Capacity _____
If Pipe, diameter _____f) Secondary Spillway Capacity _____
Spillway width _____g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant

REPORT ON WATER PERMIT APPLICATION NO. 4633A-3
RICHARD POPPEN
JANUARY 6, 1992

Application No. 4633A-3, Richard Poppen, proposes to specify the correct location of the well authorized by Water Permit No. 4633-3. Water Permit No. 4633-3 appropriates 2 cubic feet of water per second (cfs) from one well, 85 feet deep, located in the center of the NE 1/4 to irrigate 140 acres located in the NE 1/4; all in Section 11-T112N-R57W. An inspection of this permit found one well capable of diverting 1.33 cfs irrigating 120 acres. The correct location of the well is the NW 1/4 NE 1/4 Section 11-T112N-R57W. This application, if approved, does not authorize any increase in the developed diversion rate or acres irrigated.

Aquifer - Vermillion East Fork - Spirit Lake (VEF-SL)

The Vermillion East Fork aquifer, generally unconfined, is composed of glacial outwash, medium to very coarse sand and fine gravel. The VEF - SL is recharged by precipitation and leakage from adjacent and underlying till. The aquifer's regional flow generally flows southward and the local flow flows toward the lakes (Hamilton, 1989). The VEF - SL aquifer covers an area of 9,200 acres with 20,700 acre-feet of recoverable water (Hedges, 1982). Long term effects of withdrawals through wells are limited because of extensive recharge and unconfined conditions.

Review of Existing Water Rights/Permits

There are 2 permits (Water Permit Nos. 2137-3 and 4633-3) appropriating water from the VEF - SL aquifer in Kingsbury County. Water Permit No. 4633-3 is the permit which this application is correcting the well location. Water Permit No. 2137-3 is owned by Edward Poppen for 1.28 cfs to irrigate 90 acres with Water Permit Application No. 5595-3 pending for 8 additional acres.

The Division of Water Rights monitors 2 observation wells completed into the VEF-SL aquifer in Kingsbury County. The water level records indicate the aquifer responds to climatic conditions, that is recharging during a wet year and declining during a dry year. Annually, water levels from the observation wells can be expected to fluctuate 1 to 2 feet per year due to pumping (Water Rights, 1991). The water level records indicate the aquifer is capable of sustaining additional withdrawals.

Conclusions

1. If this application is approved, Water Permit No. 4633-3 and this application should be combined into one Water License for 120 irrigated acres appropriating 1.33 cfs.

2. Water is available from the VEF-SL aquifer.
3. Interference is not expected to be a problem.
4. The permit will be subject to the irrigation 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 88-4135, SDGS, Brookings and Kingsbury Counties, East Dakota Water Development District, Huron, SD 57350.
- Hedges, L.S., 1982, Evaluation on 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.
- Water Rights, 1991, Water Level Records for the Vermillion East Fork-Spirit Lake Aquifer in Clark County, SD DENR, Division of Water Rights, Pierre, SD, 57501.
- Goodman, James A., 1990, Report on Application No. 5426-3, Kingbrook Rural Water System, SD DWR, Division of Water Rights, Pierre, SD 57501.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 4633A-3, Richard 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. 4633A-3, Richard Poppen, RR 1 Box 115, DeSmet, SD 57231.

The Chief Engineer is recommending APPROVAL of Application No. 4633A-3 because 1) the proposed diversion has been 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
January 23, 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.

January 27, 11

Richard F. Poppen
RR 1 Box 115
DeSmet, SD 57231

Dear Mr. Poppen:

Water Permit Application No. 4633A-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

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

January 27, 1992

DeSmet News
Box 69
DeSmet, SD 57231

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 463A-3 to be published twice. Please publish the first notice on February 5, 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 Richard F. Poppen, PR 1 Box 115, 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 February 5, 1992, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 4633A-3 to Appropriate Water
and to Correct Water Permit No. 4633-3

Notice is given that Richard F. Poppen, RR 1 Box 115, DeSmet, SD 57231 has filed an application for a water permit to specify the correct location of the well authorized by Water Permit No. 4633-3. Water Permit No. 4633-3 appropriates 2 cubic feet of water per second (cfs) from one well, 85 feet deep, located in the center of the NE 1/4 to irrigate 140 acres located in the NE 1/4; all in Section 11-T112N-R57W. An inspection of this permit found one well capable of diverting 1.33 cfs irrigating 120 acres. The correct location of the well is the NW 1/4 NE 1/4 Section 11-T112N-R57W. This application does not authorize any increase in the developed diversion rate or acres irrigated.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 4633A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) 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 February 24, 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.

If a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Board will consider this application on March 4, 1992, at 10:00 am, Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol, Pierre, SD 57501. 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. The March 4, 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 February 24, 1992.

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 74:02:01:15.

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

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:

February 5, 1992

February 12, 1992

Dale Blegen
(Signature)
Public Works
(Title)
Feb. 12, 1992
(Date Signed)

Cost of Printing: 53.11



NOTICE OF HEARING

on Application No. 4633A-3
to Appropriate Water and to
Correct Water Permit No. 4633-3
Notice is given that Richard F. Poppen, RR 1 Box 115, De Smet, SD 57231 has filed an application for a water permit to specify the correct location of the well authorized by Water Permit No. 4633-3. Water Permit No. 4633-3 appropriates 2 cubic feet of water per second (cfs) from one well, 85 feet deep, located in the center of the NE 1/4 to irrigate 140 acres located in the NE 1/4, all in Section 11-T112N-R57W. An inspection of this permit found one well capable of diverting 1.33 cfs irrigating 120 acres. The correct location of the well is the NW 1/4 NE 1/4 Section 11-T112N-R57W. This application does not authorize any increase in the developed diversion rate or acres irrigated.

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Chief Engineer's address is: Water Rights Division, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-779-3352) and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 24, 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.

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Pierre, SD 57501. 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. The March 4, 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 February 24, 1992.

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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, 46-2-19, 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, 46-6-3.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.
2-5-2wc-2-12

Permit No. 4633-3 & 4633A-3Vernillion River Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

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

I have this day made a thorough examination of the water use system constructed by Richard Pappen
RR #1 of DeSmet SD 57231 holder of
 Permit No. 4633-3, bearing the priority of February 20 19 81 authorizing
 the diversion of 2.0 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:

50HP-4" - National Pump Co. Model No. N260 powered
by a U.S. Electric High Thrust Motor. Model No. 326 TPH
capable of 600 gpm.

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

1100' of 8" PVC piping

C. Works used to apply water to beneficial use:

A 10 tower Olsen center pivot 1300' long with an
end gun. Capable of 600 gpm

The system is in the following condition good

The point of diversion is located 595' South and 1980' West of the NE
corner Section 11, T112N, R57W (NW 1/4 NE 1/4)

The works are capable of diverting and conveying to the place of use 1.33cu. ft. per second of water which is to be used for irrigationWater has been put to beneficial use to the maximum extent as follows: Section 11- T112N-R57W

NW 1/4 NE 1/4 - 30 Acres

NE 1/4 NE 1/4 - 30 Acres

SW 1/4 NE 1/4 - 30 Acres

SE 1/4 NE 1/4 - 30 Acres

comprising a total of 120 acres of land and the license should be issued for 1.33 cfsApplicable permit qualifications have been complied with Yes X No

Exceptions to compliance are: Needs new permit to correct the Date 9/16/1991
location of the well

Norma C. Job
 (signature)

LICORNSR FOR PERMIT NUMBER 4633-3

1. Legal location of wells: NW 1/4 - NE 1/4 Section 11, T112N, R57W

dams & structures: _____

2. Well Information: Well Drilling Firm Pullman's Well Drilling

Completion Report Yes _____ No _____ No. of Wells 1 Depth 87' log says 85'
Casing a) diameter 14" log - 16" Screen a) type PVC log - Stainless
b) length 73' b) length 14' log - 12'
c) type PVC Static Water Level 57'
Pump a) make National Pump Co. Motor a) make U.S. Electric High Thrust
b) model N 260 b) model No. 326 TPH
c) size 4" c) horsepower rating 50
d) capacity 600 gpm
e) turbine pump - no. of stages _____
f) operating PSI 45

3. Distribution lines or canals

a) size 8"
b) type PVC
c) length 1100' to center Pivot

4. Dam Information:

a) height to crest _____ m) Outlet tubes:
b) height to primary spillway _____ 1) diameter _____
c) height to secondary spillway _____ 2) type _____
d) crest width _____ 3) valved (Y/N) _____
e) crest length _____ 4) valve type _____
f) spillway length _____ 5) location on structure _____
g) spillway width _____
h) approx. storage _____ n) Category of Dam _____
i) approx. storage to crest _____
j) date constructed _____
k) inspection sheet completed (Y/N) _____
l) Name of Contractor _____

5. System Type a) sideroll:

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

c) gun

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

e) gated pipe

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

f) portable boom

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

b) towline:

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

d) center pivot

- 1) make D/SEN
- 2) number of towers 10
- 3) distance between towers _____
- 4) overall length 1300
- 5) end gun (Y/N) Y
- 6) high or low pressure low
- 7) make & size of nozzles _____

- 8) capacity (GPM) 600

g) siphons

- 1) size _____
- 2) number _____

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

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

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

REMARKS:

South Dakota

GREAT FACES. GREAT PLACES.

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 3, 1991

Richard Poppen
RR 1
DeSmet, SD 57231

Dear Mr. Poppen:

This is in regard to the inspections I made on September 16, 1991 for Water Permit Nos. 2137-3 and 4633-3. At that time, I found that the irrigation system covered by 4633-3 was not developed as permitted. Therefore, you will need to make an application for a new water permit to correct the discrepancies. Application No. 4633-3 and the advertized notice of hearing on this application to appropriate water said the diversion point was to be located in the approximate center of the NE 1/4 of Section 11-T112N-R57W. Your well is located approximately 990 feet to the northwest of the center. This is located outside of the 660 foot advertized range for a change of diversion point. Enclosed, you will find an application to correct the well location on Water Permit No. 4633-3. Carefully review and complete the enclosed forms. Then, sign them in the presence of a notary public. Return these forms, a \$50.00 application filing fee, and a final well log for your production well to this office.

While I was inspecting Water Permit 2137-3, I found a discrepancy between the permitted location, the acreage, and the actual location of the acreage. This well is located 990 feet south of the advertized range which was in the NW 1/4 NW 1/4 Section 12-T112N-R57W. This well is outside the 660 foot advertized range. Also, the water permit allows only 90 irrigated acres. I found 98 irrigated acres. I have enclosed a map of the lands, marked in red, that you pointed out were irrigated. Please make any corrections, if necessary, on the map. Enclosed, you will find an application to change the well location and to add additional acres onto Water Permit No. 2137-3. This permit is in Edward Poppen's name. Carefully review and complete this application, then have Edward Poppen sign this application in the presence of a notary public. Return this application along with a \$150.00 application filing fee.

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

Sincerely,

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

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

December 20, 1991

Richard E Poppen
RR 1, Box 115
DeSmet SD 57231

Dear Mr. Poppen:

We received your Application for Permit to Appropriate Water. As stated in our October 3, 1991 letter, a \$50 filing fee is necessary to process the application.

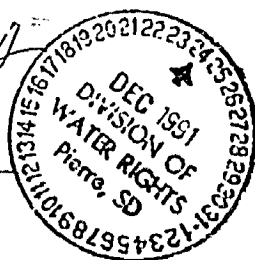
Upon receipt of the fee, further processing of your application will continue.

Sincerely,

Karen Schlaak

Karen Schlaak
Natural Resources Analyst
605 773-3352

When
I sent
Material out
for our
permit
I forgot to
send the
check



My
Apologies
D. L. P.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 12 1992

Richard E Poppen
RR 1 Box 115
DeSmet, SD 57231

Dear Mr. Poppen:

Enclosed is Water Permit No. 4633A-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. 4633A-3 FOR IRRIGATION

Date of first receipt of application December 20, 1991.
Date Soil/Water Compatibility Permit received November 24, 1980.
Date of return to applicant for corrections, amendments or changes
December 20, 1991.
Date of receipt of corrected application December 24, 1991.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 4633A-3 to Richard E Poppen, RR 1, Box 115, 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. 4633A-3 specifies the correct location of the well authorized by Water Permit No. 4633-3. Water Permit No. 4633-3 appropriates 2 cubic feet of water per second (cfs) from one well, 85 feet deep, located in the center of the NE 1/4 to irrigate 140 acres located in the NE 1/4; all in Section 11-T112N-R57W. An inspection of Permit No. 4633-3 found one well capable of diverting 1.33 cfs irrigating 120 acres. The correct location of the well is the NW 1/4 NE 1/4 Section 11-T112N-R57W. This permit does not authorize any increase in the developed diversion rate or acres irrigated.
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 February 20, 1981.
4. The date of approval of Permit No. 4633A-3 is March 4, 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 well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. 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 Environment and Natural Resources

AUG 12 1992

date

RECEIPT

Division of Water Rights

413493

South Dakota Department of Environment and Natural Resources

Pierre, _____ October 30, 19 92

RECEIVED OF Linda Poppen, RR 1 Box 115, De Smet, 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>4633A-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 H. H. H.
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JUN 11 1993

4633A-3

Richard E. Poppen
RR 1, Box 115
DeSmet, SD 57231

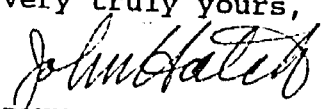
Dear Mr. Poppen:

Enclosed is Water License No. 4633A-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413493 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. 4633A-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,


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

gm
enclosures

NOTE: The applicable portions of Water Permit No. 4633-3 have been incorporated into this Water License No. 4633A-3.



4633A-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

RICHARD E POPPEN
RR 1 BOX 115
DESMET SD 57231

NOTICE

RE: Violation of Water Permit No(s) 4633A-3

Our records indicate that the 1993 Irrigation Questionnaire has not been submitted for Permit No(s) 4633A-3. The request for the Questionnaire was dated October 18, 1993. The Water Management Board has directed that owners of water permits who have not submitted the 1993 Irrigation Questionnaire be given notice of permit violation and a hearing to be held by the Board. The hearing held by the Board will determine the action to be taken for violation of Water Permit No(s) 4633A-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at 8:45 am, April 6, 1994, at the Golden Hills Resort, 900 Miners Ave, Lead, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to SDCL 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 4633A-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is(are) received in this office on/or before April 1, 1994, you will no longer be in violation of your permit and your name will be deleted from the Board agenda.

Very truly yours,

Ron Duvall, Natural Resources Engineer IV
Water Rights Division
605 773-3352

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
- Complete Items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☒ Addressee's Address
 2. ☐ Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

4633A-3

RICHARD E POPPEN
RR 1 BOX 115
DESMET SD 57231

4a. Article Number

P 837-692-648

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

2-17-94

5. Signature (Addressee)

6. Signature (Agent)

Ronda Poppen

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★ U.S.G.P.O.: 1992-307-530

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 23, 1994

4633A-3

Richard E Poppen
RR #1 Box 115
DeSmet, SD 57231

Dear Mr. Poppen:

I am writing to acknowledge receipt of your 1993 irrigation questionnaire. You may disregard the February 16, 1994, Notice of Violation of Water Permit No. 4633A-3.

The questionnaire was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Division
(605) 773-3352

RECEIPT

Division of Water Rights
South Dakota Department of Water and Natural Resources

442981

Pierre, December 26, 1911

RECEIVED OF Richard Poppen, RR 1 Box 115, DeSmet SD 57231

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

Fee for Application for Permit No. <u>4633A-3</u> 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 [Signature]
Chief Engineer

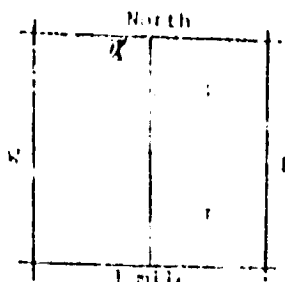
STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location 4 4 Sec 11 Twp 24 N. Rg. 57 W.

County

Kingbury

Please mark well location with an "X"



Well Completion Date 2-1-84

PROPOSED USE:

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

Method of drilling:

Forward Rotary

WELL CONSTRUCTION:

Diameter of hole 5 inches Depth 100 feet

Casing: ☐ Steel ☒ Plastic ☐ Other
Spec. fy PVC

Pipe Weight Diameter From To
PVC lb/ft 25 inches 48 feet 68 feet
lb/ft inches feet feet

Was a well screen used? ☒ Yes ☐ No

If Not Specify

Screen Type PVC Slot Size 0.25

Length 30 ft Diameter 3 "

Was Casing left open end? ☐ Yes ☒ No

Was a Packer or seal used? ☐ Yes ☐ No

If so what material?

Was well gravel packed? ☒ Yes ☐ No

Was well grouted. ☐ Yes ☐ No

Describe grouting procedure

To what depth? Feet

What was grouting material?

If cement, how many sacks?

Location of packer(s) and screen or perforated pipe

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No

If so how and with what material?

Well Owner:

Name Richard Pappas

Address 2601 1st St. S. Rapid City, SD 57701

Well Log:

Depth

Formation	From	To
Topsoil	0	2
Yellow Clay	2	20
Blue Clay <u>intermittent</u>	20	30
Blue Clay <u>actual</u>	30	40
Blue Clay <u>intermittent</u>	40	60
Blue Clay <u>with streaks</u>	60	75
Coarse gravel	75	80
med coarse gravel	80	85
Blue Clay	85	100

STATIC WATER LEVEL

Feet

If flowing: closed in pressure PSI

GPM flow through inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify

Can well be completely shut off?

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Describe: 15 gals P.M. w/air

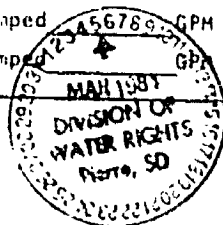
Pumping Level Below Land Surface

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

Remarks:



This well was drilled under license 1440

and this report is true and accurate.

Drilling Firm Wesley Pullman Signed by

2-16-84
Date

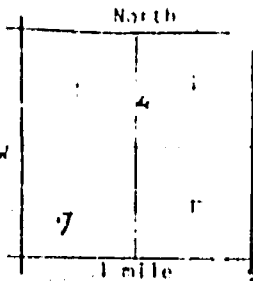
STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location 2 2 Sec 11 Twp 21N Rn 57E

County

Kingdomey

Please mark well location with an "X"



Well Completion Date 1-31-84

PROPOSED USE:

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

Method of Drilling:

Forward Rotary

WELL CONSTRUCTION:

Diameter of hole 5 inches Depth 110 feet

Casing: ☐ Steel ☒ Plastic ☐ Other

Specify PVC

Pipe Weight PVC lb/ft 3 inches 0 feet 60 feet
lb/ft inches feet feet

Was a well screen used? ☐ Yes ☐ No

If Not Specify

Screen Type PVC Slot Size 0.25

Length 20 Diameter 3

Was Casing left open end? ☐ Yes ☒ No

Was a Packer or seal used? ☐ Yes ☐ No

If so what material?

Was well gravel packed? ☒ Yes ☐ No

Was well grouted? ☐ Yes ☐ No

Describe grouting procedure

To what depth? Feet

What was grouting material?

If cement, how many sacks?

Location of packer(s) and screen or perforated pipe

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No

If so how and with what material?

Well Owner:

Name Richard Pappas

Address Box 101 S. 57231

Well Log:

Depth

Formation	From	To
Yellow clay	0	18
Blue clay	18	57
Gravelly clay	57	60
Good coarse gravel	60	77
Gravelly clay	77	97
dirty sand	97	100
Yellow clay sand	0	20
Yellow clay coarse gravel	20	47
Blue clay	47	60
Blue clay w/ small pebbles	60	74
Good medium gravel	74	80
good gravel (medium)	80	90
Blue clay	90	110

STATIC WATER LEVEL 20 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify

Can well be completely shut off?

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Describe: 10 gpm 15 min

Pumping Level below Land Surface

ft. After _____ Hrs. pumped _____ GPM

ft. After _____ Hrs. pumped _____ GPM

ft. After _____ Hrs. pumped _____ GPM

Remarks:

This well was drilled under license 1442

and this report is true and accurate.

Drilling Firm Morgan Trucking Signed by

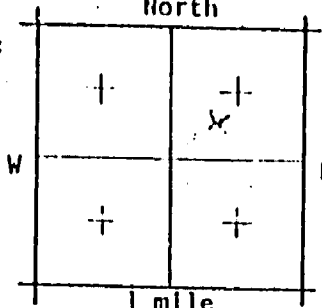
2-6-84
Date

Location NE 1/4 Sec 12N Rg 57W

County

Kingbury

North



Please mark well location with an "X"

Well Completion Date 2-14-84

PROPOSED USE:

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

Method of Drilling:

General Rotary

WELL CONSTRUCTION:

Diameter of hole 28 inches Depth 85 feet

Casing: ☐ Steel ☒ Plastic ☐ Other

Specify P.V.C.

Pipe Weight Diameter From To

P.V.C. lb/ft 16 inches 0 feet 73 feet

lb/ft inches feet feet

Was a well screen used? ☒ Yes ☐ No

If Not Specify

Screen Type Stainless Steel Slot Size 20/60

Length 12 ft. Diameter 16"

Was Casing left open end? ☐ Yes ☒ No

Was a Packer or seal used? ☐ Yes ☒ No

If so what material?

Was well gravel packed? ☒ Yes ☐ No

Was well grouted? ☐ Yes ☐ No

Describe grouting procedure

To what depth? Feet

What was grouting material?

If cement, how many sacks?

Location of packer(s) and screen or perforated pipe

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No

If so how and with what material?

Well Owner:

Name Richard Gupper 4633A-3

Address No Smith St.

Well Log:

Depth

Formation	From	To
<u>Yellow Clay</u>	<u>0</u>	<u>15</u>
<u>Yellow Clay & Gravel</u>	<u>18</u>	<u>20</u>
<u>Gravel</u>	<u>20</u>	<u>25</u>
<u>Blue Clay</u>	<u>25</u>	<u>45</u>
<u>Coarse Gravel</u>	<u>45</u>	<u>60</u>
<u>Gravel with coarse blue clay</u>	<u>60</u>	<u>65</u>
<u>Gravel coarse to med coarse</u>	<u>65</u>	<u>75</u>
<u>Blue Clay sand streaks</u>	<u>75</u>	<u>81</u>
<u>Coarse gravel</u>	<u>81</u>	<u>85</u>

STATIC WATER LEVEL 57

If flowing: closed in pressure

GPM flow through

Controlled by ☐ Valve ☐ Reducer

If other; specify

Can well be completely shut off? Yes

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Describe:

Pumping Level Below Land Surface

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

Remarks:

This well was drilled under license # 440

and this report is true and accurate.

Hellmuth & Drilling Margie Pulina
Drilling Firm Signed by

3-5-84

Date



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

November 30, 2004

Richard Poppen
19739 429th Ave
DeSmet SD 57231

4633A-3

Dear Mr. Poppen:

Thank you for your call concerning the 2004 irrigation questionnaire for Water Right No. 4633A-3. Your questionnaire has been received and nothing further is needed in that regard until next season.

You mentioned during our conversation that you would like to drill an additional well next to your existing well in order to bring your water use up to the amount needed to run the center pivot. I checked with staff concerning your request and want to clarify the proper way to get authorization for a helper well.

Water rights law allows for an additional point of diversion if the diversion is from the same source of water, no additional water is appropriated and no new land is irrigated. The additional point of diversion may be allowed without formal application or publication of a notice if the chief engineer is contacted and makes a finding that the change does not increase the potential for interference with existing diversions.

We usually handle requests for additional points of diversion by having the permit holder file the normal application, proposed well construction and a map showing the location of the new well. We will then review the application to determine if the request can be handled in-house. Please complete the enclosed application and supplemental information on well construction and return it to our office with a map showing the location of the new well. Include in the description section that this is for a helper well and no additional appropriation of water is required. No fee is required at this time. If we determine the more formal permit process must be followed, we will request that you submit a fee.

Once we receive the application, proposed well construction and map, we will review the request and contact you on whether the additional diversion point is authorized.

If you have any questions, please give either myself or Eric Gronlund a call at (605) 773-3352.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
email: genny.mcmath@state.sd.us

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 22, 2005

Richard Poppen
19739 429th Ave
DeSmet SD 57231

Dear Mr. Poppen:

*Hi
Have this
is adequate
information
Thanks
D. Schlaak*

I am writing in regard to a well driller's report filed by Kaiser Well Drilling, Inc.. The report shows a new well was completed on December 27, 2004. A review of our files indicates you received a letter from our office dated November 30, 2004 explaining what was necessary in order apply for an additional well. Enclosed is a copy of the letter and another application form.

Along with the completed, signed and notarized application, please submit a map showing the location of the new well.

South Dakota Codified Law 46-5-13.1 provides that a point of diversion (well) may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

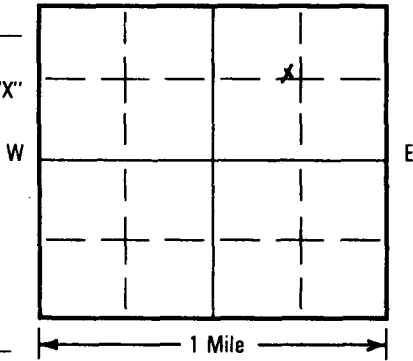
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 NE 1/4 Sec 11 Twp 12 Rg 57County Kingsbury North

Please mark well location with an "X"



Well Completion Date

12-27-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.) 800' ft. from well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Direct RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER
Sink 40 LB/FT 6 IN 249 FT 45 FT 138 IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUTING DATA

Grout Type portland cement No. of Sacks 28 Grout Weight 91 lb./gal From 0 ft. To 40 ft.
 _____ lb./gal _____ ft. _____ ft.

Describe grouting procedure pressure pulled methodSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 6 IN Length 15 FEETMaterial Stainless steelSlot Size 100 Set From 45 Feet to 60 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

YES, How: _____

NO, Why Not? needed to

Laboratory sent to for water quality analysis

Pirvine

Pump well, yet
to cold air compressor
Broke down

Well Owner: Richard Popp

Business Name: _____

Address: 19739 429 Ave
Definet, SD 57231

WELL LOG:

DEPTH

FORMATION	FROM	TO
Top Soil	0	1
Yellow Clay	1	15
Blue Clay	15	32
Grey medium grain w/ 21.4%	32	40
Blue Clay	40	45
Grey grain medium to coarse w/ 21.2%	45	60
Blue Clay	60	80

STATIC WATER LEVEL 45'

Feet

If flowing: closed in pressure _____

PSI

GPM flow _____ through _____

inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____

GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed☐ Other

Pumping Level Below Land Surface

46ft. After 1Hrs. pumped 50

GPM

ft. After _____ Hrs. pumped _____

GPM

If pump installed, pump rate _____

GPM

REMARKS

This well was drilled under license # 689

And this report is true and accurate.

Drilling firm Kaiser Well Drilling Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Hold _____

RECEIVED

FEB - 1 2005

Date: 1128105

WATER RIGHTS PROGRAM

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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only) No. _____ Hydrologic Unit _____
	Basin _____
	Newspaper _____

RECEIVED
MAR - 3 2005
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☐ New ☐ Vested Right ☒ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

Add small diversion

1. Name of Applicant Richard Poppen Phone 854-3811 DAYS
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 19739 429 Ave DoSmet State SD 57231
(Street, RR, or Box and City) (Zip Code)

2. Amount of water claimed _____ *CFS or 30 **GPM _____ ***AF Total Acreage NO add'l
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply well

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Kingsbury
Near Pivotcenter SW corner of NE 1/4 of NE 1/4 Section 11-112-57

5. County or counties where water will be used Kingsbury

6. Annual period during which water is to be used April - Oct 31st

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NW 1/4 NE 1/4	30		
SW 1/4 NE 1/4	30		
NE 1/4 NE 1/4	30		
SE 1/4 NE 1/4	30		

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

Our present well does not bring our system to pressure
this small diversion well will allow us to use the end gun -
and add a few pounds to pressure - we have a low pressure system designed for around 500 GPM but have
not been able to reach the 28 lbs needed

STATE OF SOUTH DAKOTA)
County of Miner SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

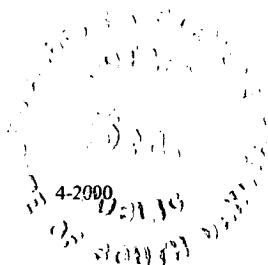
I, Richard Poppen, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Richard Poppen

Subscribed and sworn to before me this 2nd day of March 2005

Glenita Stevens
Notary Public signature

Comm Expires 7-20-06



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter ~~10~~ 13 7/8" Depth 60'-70'
- b) Casing Type Plastic Diameter 6" Thickness 5/16" 16/ft
- c) Screen Type STAINLESS STEEL Diameter 6" -15 ft- Thickness 1/10" SLOT
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 45'
- f) Depth to Water (ground surface to water level) 45'
- g) Distance to nearest existing domestic well:
On applicants property 1/4 mile On property owned by others 5/16 mile

2. Wastewater Disposal System Information

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

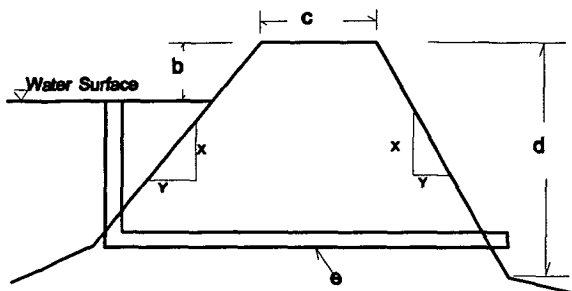
3. Dugout Information

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

4. Water Storage Dams

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

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



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

NE $\frac{1}{4}$ 11-112-57

Section 11

(NE) $\frac{1}{4}$

Pivot
POINT $\rightarrow$ $\bullet$ $\times$ $\leftarrow$ New
Well

FARM
PLACE

Approval of Additional Diversion Point

NAME: Richard Poppen**ADDRESS:** 19739 429th Avenue, DeSmet SD 57231**DATE:** March 10, 2005**COUNTY:** Kingsbury**TELEPHONE:** 854-3811 (days)

Richard Poppen has made a request to construct an additional well for irrigation of land under Water Right No. 4633A-3. This additional well has been drilled.

Water Right No. 4633A-3 appropriates 1.33 cfs (600 gpm) from one well (Spirit Lake Management Unit of the Vermillion East Fork Aquifer) located in the NW ¼ NE ¼ Section 11 to irrigate 120 acres in the NE¼ of Section 11, T112N, R57W. The water right bears a priority date of February 20, 1981.

Mr. Poppen request is for an additional well located near the center of the NE ¼ of Section 11 (just east of the pivot point). The request states that the present well does not bring the system to the necessary pressure. This additional well will allow the use of the end gun and add a few pound of pressure to the system. The pivot is a low pressure system designed to use 1.11 cfs (500 gpm) but they have not been able to attain the desired pressure of 28 pounds in the system. This additional well has been constructed and produces 70 gallons per minute.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The water source remains the Spirit Lake Management Unit of the Vermillion East Fork Aquifer. No additional water is to be appropriated by this request. A new water permit is necessary for an additional appropriation of water if the diversion rate exceeds the 1.33 cfs authorized by Water Right No. 4633A-3.

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

No additional land is to be irrigated above the 120 acres authorized by Water Right No. 4633A-3. This request is solely to authorize an additional well.

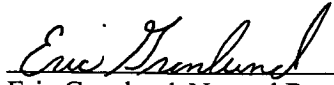
- **Review of Existing Diversions**

A review of diversions within a one mile radius of the additional well was conducted. There is only one water right for irrigation of the adjoining quarter section in the NW ¼ Section 12. This water right is held by Edward Poppen. There are six water rights which utilize this aquifer in the township to the north. All of these are located 3 miles or greater from this additional well.

A review of the well log database was also conducted in neighboring sections. Five domestic wells were found. Only three of these wells are constructed into the Vermillion East Fork Aquifer while the other wells are deeper wells. The nearest domestic well is located in the NE ¼ of Section 10. This review also found one well constructed into this formation used for geothermal purposes. This review of database records does not include well reports that were not filed nor does it provide an indication whether the domestic wells are still in use.

RECOMMENDED ACTION

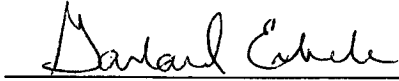
Based on the above criteria, it is recommended that the additional diversion point be authorized pursuant to SDCL 46-5-13.1.



Eric Gronlund, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This additional diversion point does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program



4633A-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 15, 2005

Richard Poppen
18739 429th Avenue
DeSmet SD 57231

Dear Mr. Poppen:

I am writing in regard your request to authorize an additional well to the irrigation system in Kingsbury County.

Water Right No. 4633A-3 appropriates 1.33 cubic feet of water per second (600 gpm) from one well (Spirit Lake Management Unit of the Vermillion East Fork Aquifer) located in the NW ¼ NE 1/4 Section 11 to irrigate 120 acres in the NE¼ of Section 11, T112N, R57W. The water right bears a priority date of February 20, 1981.

Upon review of the request and pursuant to SDCL 46-5-13.1, the additional well is authorized without application or publication of a notice of hearing. The additional well is located near the center of the NE ¼ of Section 11 (just east of the pivot point).

No additional appropriation above the 600 gpm currently authorized by Water Right No. 4633A-3 is authorized. If the combined diversion rate from the two wells exceeds 600 gpm, a new water permit must be obtained.

If you have any questions, please contact Eric Gronlund at (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

Approval of a Change of Diversion Point

NAME: Richard Poppen

ADDRESS: 19739 429th Avenue, DeSmet SD 57231

DATE: February 28, 2012 **COUNTY:** Kingsbury **TELEPHONE:**

BACKGROUND:

Water Right No. 4633A-3 appropriates 1.33 cubic feet of water per second from two wells completed in the Vermillion East Fork: Spirit Lake Aquifer for irrigation of 120 acres. The original well is located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 11 and an additional helper well was authorized in 2005 located in the approximate center of the NE $\frac{1}{4}$ of Section 11, T112N, R57W.

Mr. Poppen stopped in the office on February 17th to file a request for a change of diversion point for the original well. He provided a copy of the completion report for the new well. The original well failed and a new well drilled was completed on February 4, 2012 and is located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 11, T112N, R57W. The helper well will remain in place. A map showing the locations of the various wells is attached.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The water source remains the Spirit Lake management Unit of the Vermillion East Fork Aquifer. No additional water is to be appropriated by this request.

- **Irrigated acres**

No additional land is to be irrigated above the 120 acres authorized by Water Right No. 4633A-3. This request is solely to authorize an additional well.

- **Review of Existing Diversions**

The well completion report database was reviewed and the nearest domestic well on file that is less than 100 feet deep is located a little less than 2 miles to the west of this location. The review of the database records does not include well reports that were not filed nor does it provide an indication whether the domestic wells are still in use.

The water right database was reviewed for existing water rights from the Vermillion East Fork: Spirit Lake Aquifer in the area. The nearest water right is No. 5995-3 held by Mr. Poppen's father. This change in the well location moves the primary production well 2,350 feet closer to the well for No. 5995-3 (from 3,450 feet northwest of this neighboring well to 1,100 feet west). The next closest water right from this aquifer is approximately 1.8 miles to the north.

There are two observation wells located nearby to the south. KG-83B is located one half mile south in the SE corner of the section. KG-77A is about 1 mile south. Fluctuations ranging over the entire period of record are not more than 8 feet and appear to be a result of climatic conditions and not due to pumping. Annual fluctuations are generally not more than three feet.

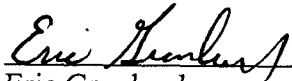
Drawdown will occur but is not expected to be adverse.

CONCLUSION

- The change in well location does not propose to appropriate additional water..
- The well is completed into the Vermillion East Fork: Spirit Lake Aquifer .
- Interference is not expected to be a concern.
- Existing domestic wells should not be adversely impacted by authorizing this change.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the change of diversion point location be authorized under Water Permit No. 4633A-3.



Eric Gronlund
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

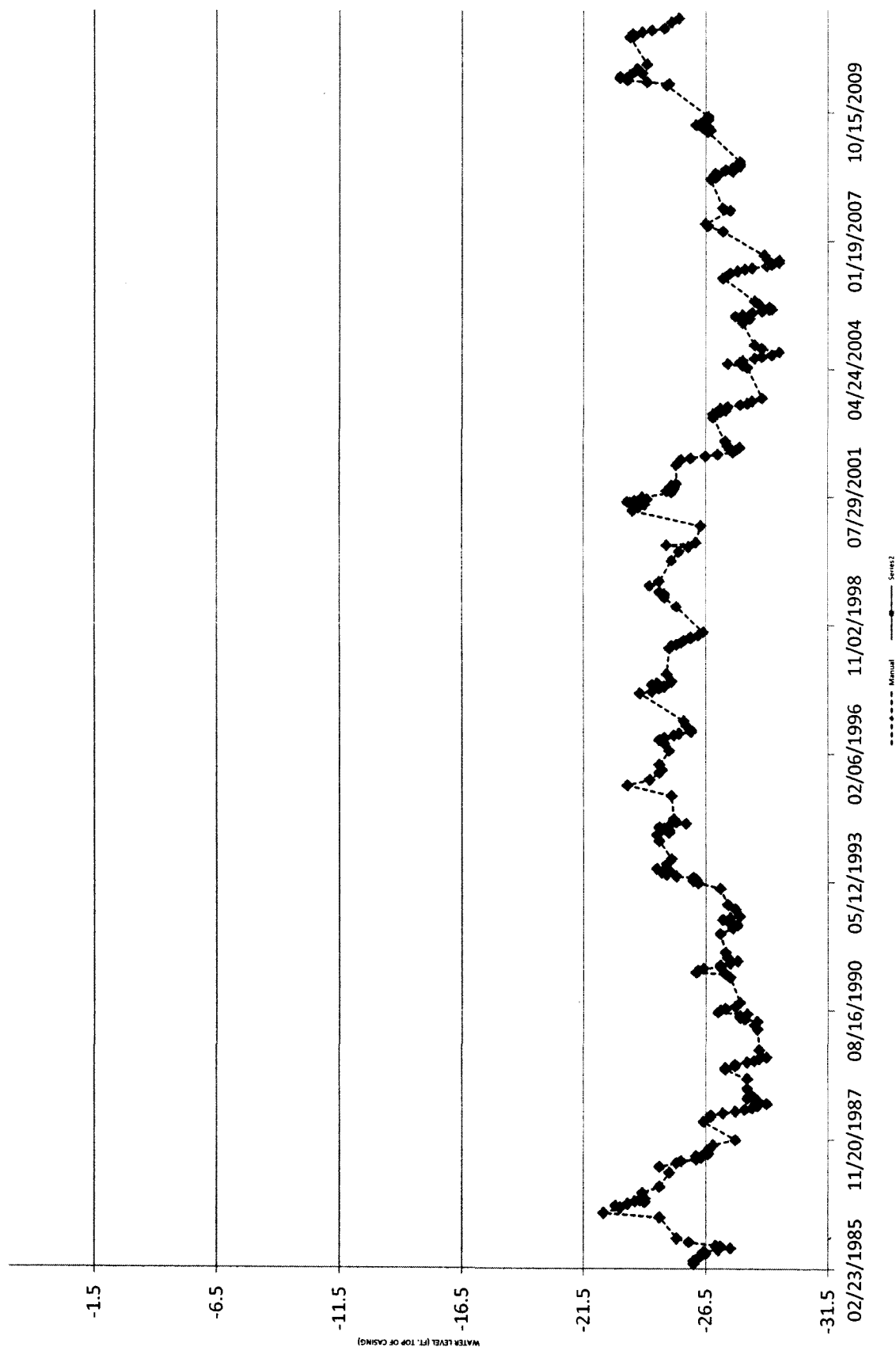
This change in the diversion point does not increase the potential for adverse effects to existing diversions.



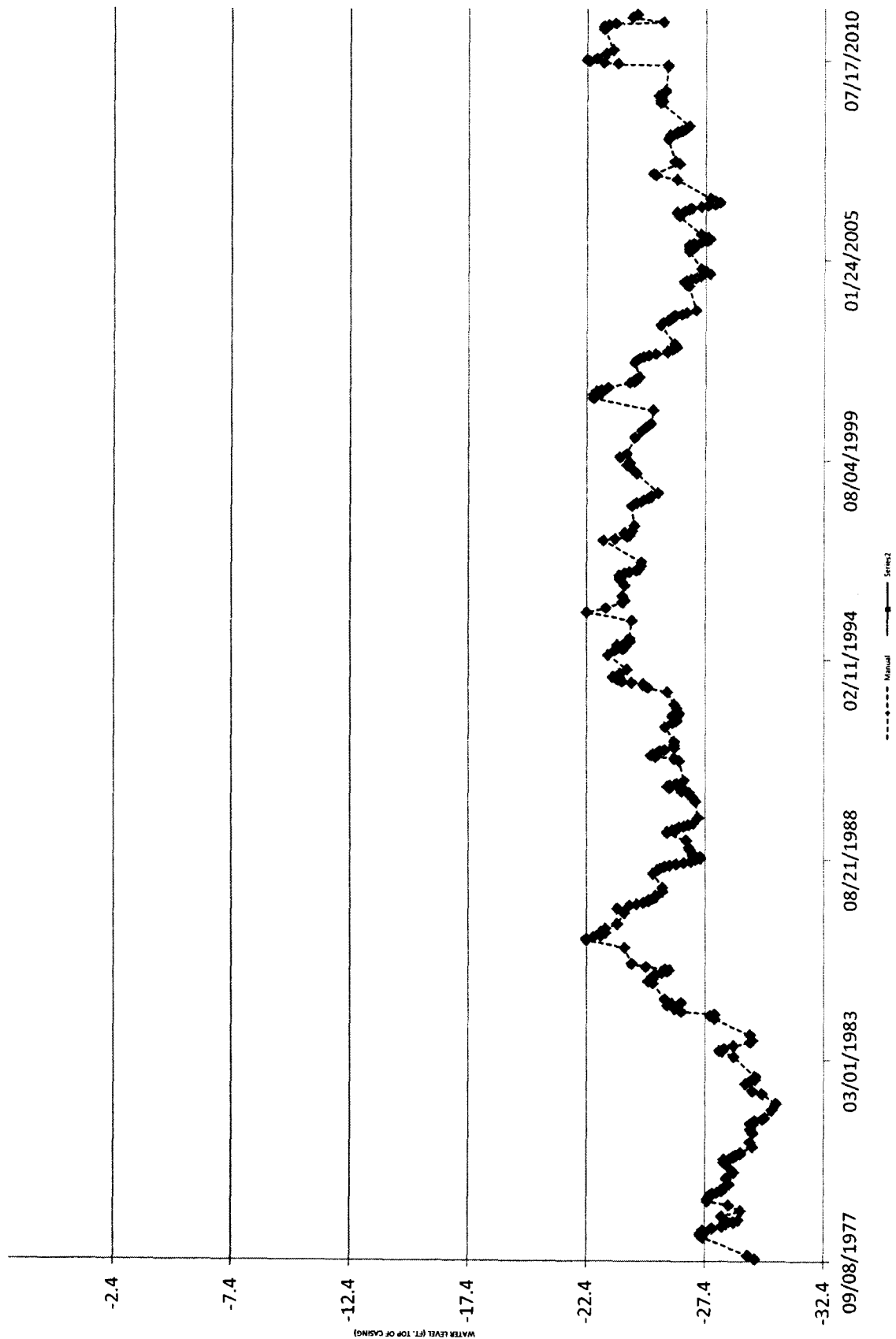
Garland Erbele, Chief Engineer
Water Rights Program



WATER RIGHTS' OBSERVATION WELL KG-83B



WATER RIGHTS' OBSERVATION WELL KG-77A



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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only) No. _____ Hydrologic Unit _____
	Basin _____
	Newspaper _____

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☐ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

4633A-3 additional well and change in location

1. Name of Applicant Richard Poppen Phone _____
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address 19739 429th Avenue DeSmet State SD 57231
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed _____ *CFS or 600 **GPM ***AF Total Acreage _____
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply New Well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Kingsbury
new SENE Section 11, 112N R57W
help NW NE " " " authorized in 2005
5. County or counties where water will be used Kingsbury
6. Annual period during which water is to be used May - September
7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NE NE 11 112 S7	26		
SE NE 11 112 S7	24		
NW NE 11 112 S7	27		
SW NE 11 112 S7	26		

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

well to replace old one

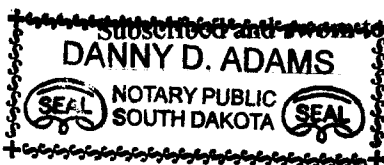
STATE OF SOUTH DAKOTA) SS

County of Kingsbury

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Richard Poppen, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

My Commission Expires April 30, 2015

Applicant's signature Richard Poppen

Notary Public signature _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location 1/4 NE 1/4 Sec 11 Twp 112N Rg 57W Well Owner: Dick Pappen

County Kingsbury North

Please mark well location with an "X"

Well completion Date 2-4-12

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.) 2900+ ft. from Septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:
Direct Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5440</u> LB/FT	<u>6</u> IN	<u>24</u> FT	<u>40</u> FT	<u>9 1/2</u> IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Grout</u>	<u>16</u>	<u>50</u> Lb/gal	<u>0</u> Ft	<u>38</u> Ft
<u>Well Drilling Fluid</u>		Lb/gal	Ft	Ft

Describe grouting procedure Pressure grouting

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 6 Inches Length 12 Feet

Material Plastic

Slot Size .060 Set From 40 Feet to 52 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ Yes ☐ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?
☒ Yes, How? HTH Tablets
☐ No, Why Not? _____

Lab sample sent to for water quality analysis _____

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top So.</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>5</u>
<u>yellow sand</u>	<u>5</u>	<u>15</u>
<u>Blue clay</u>	<u>15</u>	<u>34</u>
<u>gray medium W/L 3 1/2 in</u>	<u>34</u>	<u>38</u>
<u>Sol + Blue clay</u>	<u>38</u>	<u>40</u>
<u>Medium to coarse W/L</u>	<u>40</u>	<u>52</u>
<u>6 1/2 in</u>		

STATIC WATER LEVEL 17'6" 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: Sub pump
☐ Bailed
☐ Other

Pumping Level Below Land Surface

	Ft. After	Hrs. pumped	GPM
<u>30</u>	<u>21</u>	<u>333</u>	<u>333</u>
	Ft. After	Hrs. pumped	GPM

If pump installed, pump rate: _____ GPM

REMARKS

This well was drilled under license # 689

And this report is true and accurate.

Drilling firm: KWB

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: Feb 7, 2012

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24" Depth 52'
- b) Casing Type Sch 40 pvc Diameter 16" Thickness Sch 40
- c) Screen Type Stainless Steel Diameter 16" Thickness 1/4"
- d) Gravel Pack 1/4" x 1/8" Red Hind Length of Gravel Pack 12'
- e) Depth to Top of Water Bearing Material 40'
- f) Depth to Water (ground surface to water level) 17'6"
- g) Distance to nearest existing domestic well:
On applicants property 700' + On property owned by others _____

2. Wastewater Disposal System Information

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

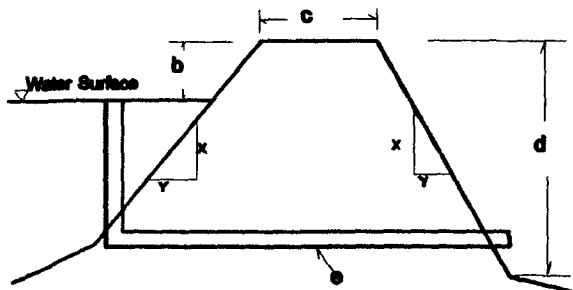
3. Dugout Information

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

4. Water Storage Dams

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

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



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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

March 5, 2012

Richard Poppen
19739 429th Avenue
DeSmet SD 57231

Mr. Poppen:

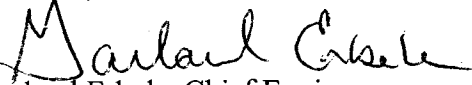
You filed a request for a change of well location for the original well authorized by Water Right No. 4633A-3.

Water Right No. 4633A-3 appropriates 1.33 cubic feet of water per second from two wells completed in the Vermillion East Fork: Spirit Lake Aquifer for irrigation of 120 acres. The original well is located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 11 and an additional helper well was authorized in 2005 located in the approximate center of the NE $\frac{1}{4}$ of Section 11, T112N, R57W. The new well being requested was drilled February 4, 2012 and is located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 11, T112N, R57W.

Upon review of the request and pursuant to SDCL 46-5-13.1, the change in well location is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. No increase in the authorized diversion rate of 1.33 cfs (600 gpm) from the Vermillion East Fork: Spirit Lake Aquifer is authorized. If the total diversion rate increases or the wells are developed into another aquifer, a new water right permit will need to be obtained.

If you have any questions, please contact Eric Gronlund at (605) 773-3352.

Sincerely,


Garland Erbele, Chief Engineer
Water Rights Program

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location 1/4 NE 1/4 Sec 11 Twp 112N Rg 57W Well Owner: Dick Pappen

County Kingsbury Business Name: _____

Address 1: 19739 429th Ave

Address 2: _____

City, State, Zip: Desmet SD 57231

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>5</u>
<u>yellow gravel</u>	<u>5</u>	<u>15</u>
<u>Blue clay</u>	<u>15</u>	<u>34</u>
<u>gray medium W/L 3 1/2 in 1/4s</u>	<u>34</u>	<u>38</u>
<u>Soft Blue clay</u>	<u>38</u>	<u>40</u>
<u>Medium to coarse W/L 1/2 in 1/4s</u>	<u>40</u>	<u>52</u>

Please mark well location with an "X"

Well completion Date 2-4-12

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.) 900+ ft. from Septic tank (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes

☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING: Direct Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5440 LB/FT</u>	<u>6</u> IN	<u>24</u> FT	<u>40</u> FT	<u>9 1/4</u> IN

GROUTING DATA:

Grout Type Grout No. of Sacks 16 Grout Weight 50 Lb/gal From 0 Ft To 38 Ft

Describe grouting procedure pressure pull method

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 6 Inches Length 12 Feet

Material Plastic

Slot Size .060 Set From 40 Feet to 52 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ Yes ☐ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? HTH Tablets

☐ No, Why Not? _____

Lab sample sent to for water quality analysis _____

STATIC WATER LEVEL 17'6" 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: Sub pump

☐ Bailed

☐ Other

Pumping Level Below Land Surface

30 Ft. After 21 Hrs. pumped 333 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

MAR 29 2012

WATER RIGHTS PROGRAM

This well was drilled under license # 689

And this report is true and accurate.

Drilling firm: LWP

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: Feb 7, 2012

523 E. Capitol Ave., Pierre SD 57501

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501