

WATER PERMIT NO. 6300-3

Name of Applicant: South Lincoln Rural Water System, Inc.

Address: PO Box 155, Canton SD 57013 Phone: 605 372-4211

Amount of Water Claimed: 1.0 cfs Total Acres: NA

Source of Water Supply: groundwater (1 well)

Water to be used for: rural water system use County: Lincoln

Type of Waste Disposal System:

Location: 10 miles southwest of Canton

PRIORITY Date Received: 2-4-02 Fee: \$150

Corrected Application Received: 2-13-02 Period of Annual Use: January 1 – December 31

Remarks: Additional well for system and the potential service to the City of Worthing

Diversion Point: NE ¼ NE ¼ Sec 8-T97N-R50W

Land to be Irrigated: NA

Depth of Well: 665 feet deep

Well Driller: :

Remarks:

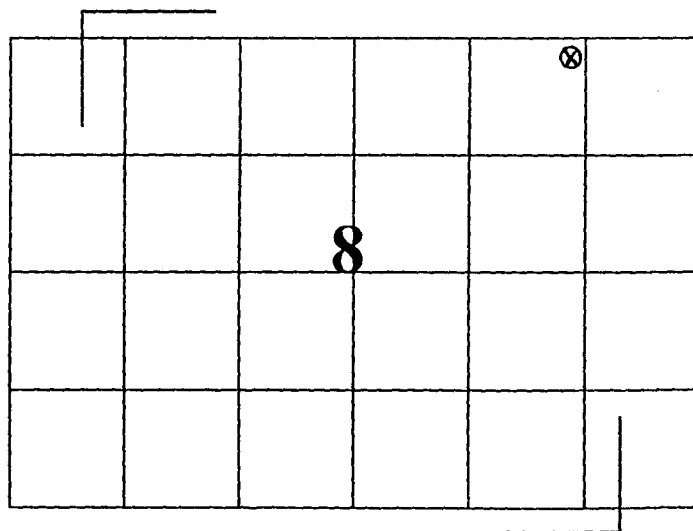
Type of Map: topo

Prepared by: Bruce Jennings, PE

Reviewed and the Number Assigned on: 3-13-2002

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 6300-3**

Date of first receipt of application February 4, 2002.

Date of return to applicant for corrections, amendments or changes February 5, 2002.

Date of receipt of corrected application February 13, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6300-3 to South Lincoln Rural Water System, Inc., PO Box 155, Canton SD 57013 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. 6300-3 authorizes an additional diversion rate of 1.0 cubic feet of water per second (450 gallons per minute) from one additional well (Dakota Formation) 665 feet deep located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8-T97N-R50W. This permit does not authorize any increase in the total volume of water (1,048 acre feet) authorized by existing Dakota Formation permits issued to South Lincoln Rural Water System.
2. The water appropriated shall be used for the purpose of rural water system use including the potential service to the City of Worthing and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6300-3 is April 22, 2002.
5. The date from which applicant may claim right is February 4, 2002.
6. One-fifth of the construction is to be completed on or before October 22, 2004.
7. All construction is to be completed on or before April 22, 2007.
8. Water is to be put to beneficial use on or before April 22, 2011.
9. 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. The well authorized by Permit No. 6300-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.

(continued)

3. Water Right/Permit Nos. 4300-3, 4300-3A, 4300-3B, 4300-3C, 5116-3, 5647-3 and 6300-3, combined, authorizes a total annual diversion of 1,048 acre feet of water.
4. South Lincoln Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn from the Dakota Formation.

WATER MANAGEMENT BOARD

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

MAY 31 2002

date



FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6300-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Sioux Valley News, Canton</u>
	<u>see list for add'l papers</u>

RECEIVED
FEB - 4 2002
WATER RIGHTS
PROGRAM

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

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☒ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal Heat
☐ Domestic (over 18 gpm)	☐ Industrial	☐ Other	

Type of Application: ☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____

☒ Amendment/Correction to Permit No. 5647-3, 5116-3, 4300-3, 4300-3a, 4300-3b

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

Add Diversion Point

- Name of Applicant South Lincoln Rural Water System, Inc. Phone 605-372-4211
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P.O. Box 155, Canton State SD 57013
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.0 *CFS or 450 **GPM no add'l ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply Groundwater, Dakota Sandstone
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) Add one well, NE1/4 of NE1/4, Section 8, T97N, R50W
County Lincoln
- County or counties where water will be used Lincoln, Union, Turner, Minnehaha, Cities of Worthing, Chancellor, Alcester
- Annual period during which water is to be used January 1 to December 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Add Well No. 5 to the existing South Lincoln Rural Water System, using the existing network of distribution pipe and storage facilities. Add potential service to the City of Worthing.

STATE OF SOUTH DAKOTA) SS
County of Lincoln

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, South Lincoln Rural Water System, Inc., 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 Charles Kuehl

Charles Kuehl, Chairman

Subscribed and sworn to before me this 28th day of January 20 02

[Signature] 9-21-2002
Notary Public signature

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 16", 12" Depth 665 feet
- b) Casing Type Steel Diameter 12 inch Thickness 0.375
- c) Screen Type SS wire wound Diameter 6 Inch Thickness _____
- d) Gravel Pack Muscatine Length of Gravel Pack 240 feet
- e) Depth to Top of Water Bearing Material 425 Feet
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property N/A On property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) None on Site
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System _____

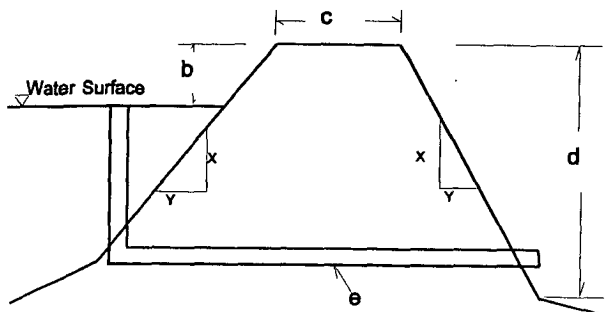
3. Dugout Information

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

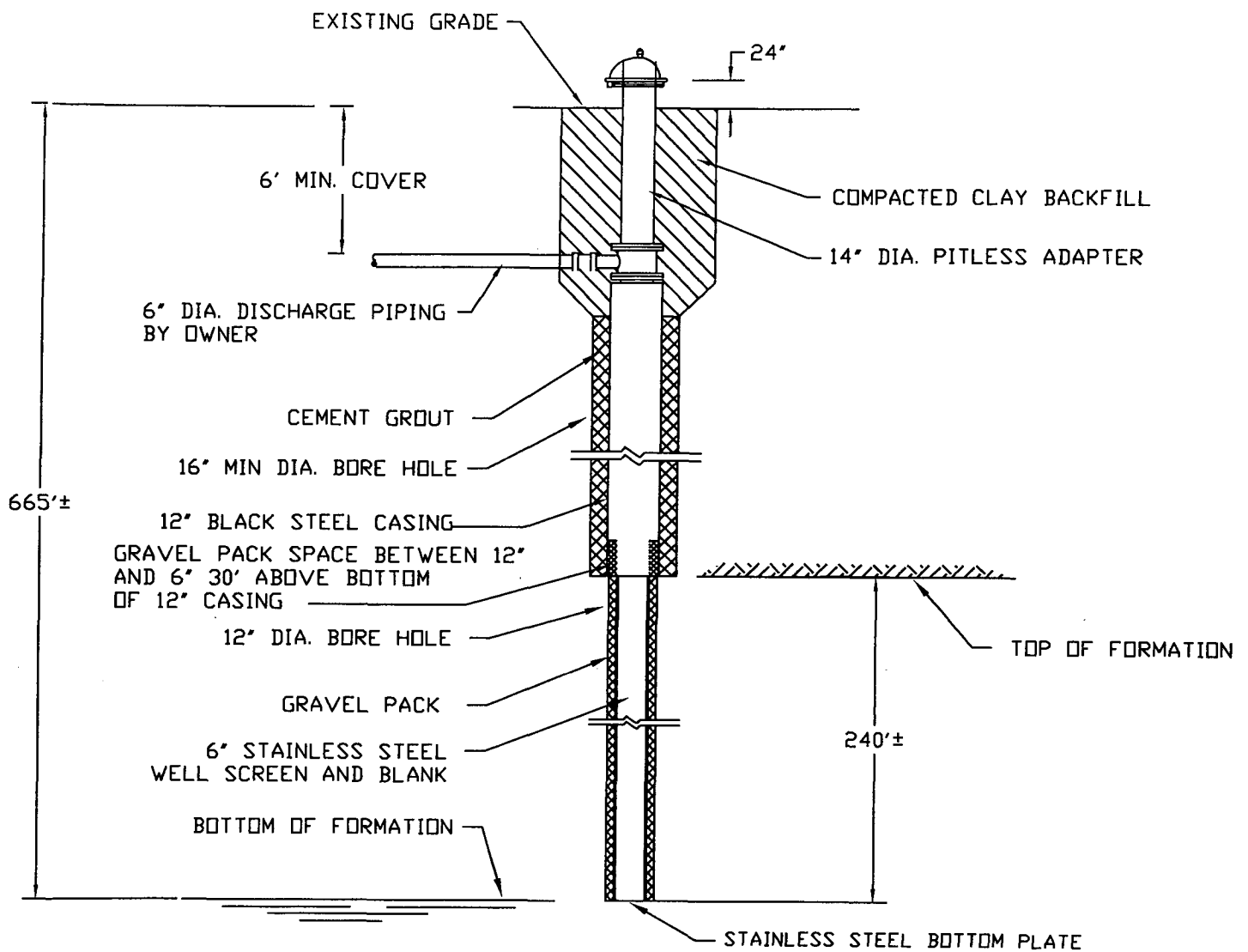
4. Water Storage Dams

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



SECTION VIEW PRODUCTION WELL

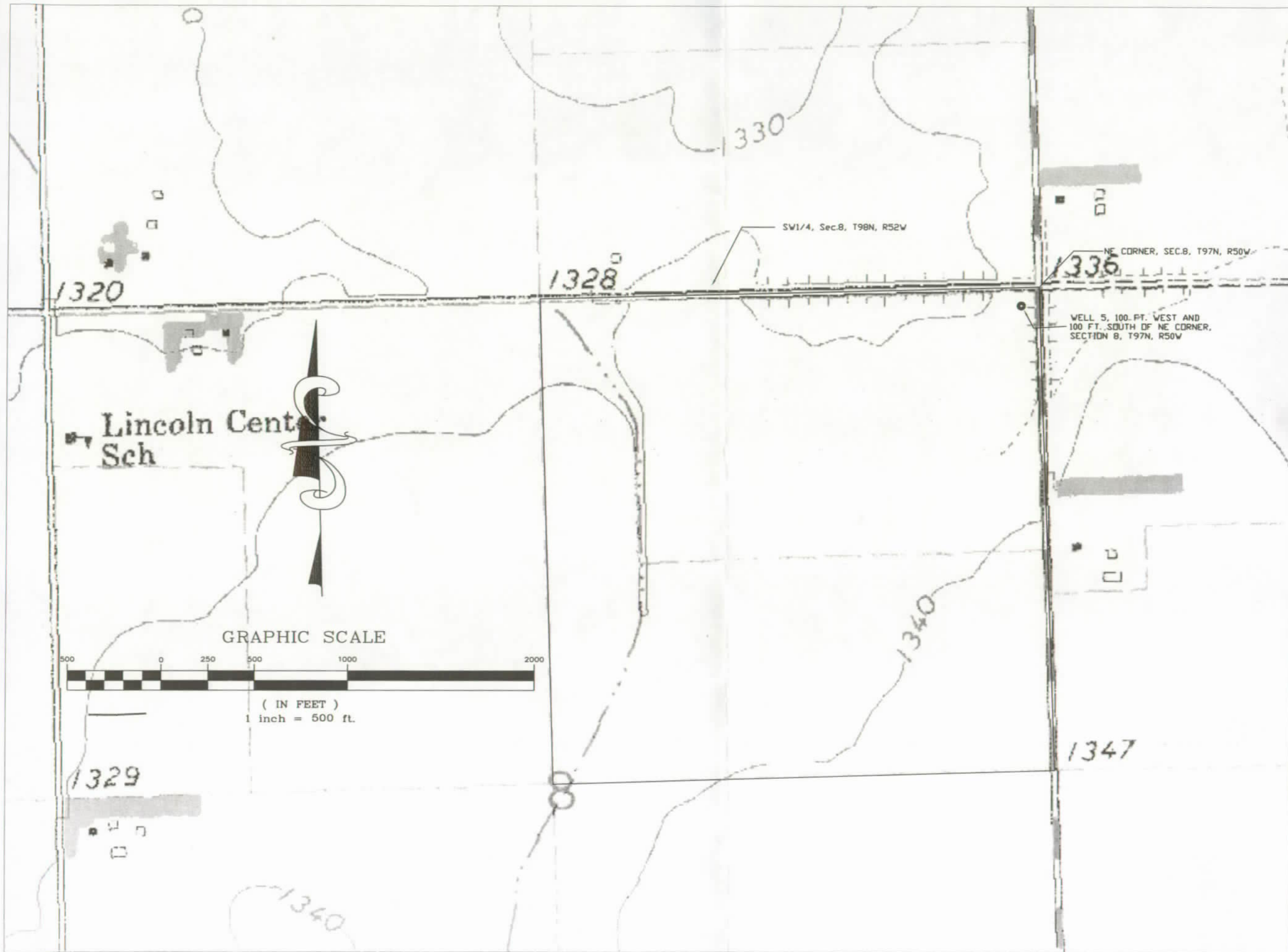
NOT TO SCALE



Dewild Grant Reckert & Assoc. Co.
Consulting Engineers
Rock Rapids, Iowa

Date JUN 2000
Drawn By
Approved BAJ
Revised
Project No. 801703

SOUTH LINCOLN
RURAL WATER SYSTEM
WELL 5 CONSTRUCTION



I hereby certify that this plan, specification, or report was prepared by me or under my direct personal supervision, and that I am a duly Registered Professional Engineer under the laws of the

State of SOUTH DAKOTA Registration No. 3812
By B. J. Beckert Date 01-23-02

DeWitt Grant Beckert & Associates Co.
Consulting Engineers
Rock Rapids, Iowa
Sioux City, Iowa
Sioux Falls, South Dakota

DBEER

Project No. 801703

Sheet

1

SOUTH LINCOLN RURAL WATER SYSTEM
CANTON, SOUTH DAKOTA
LINCOLN DEEP WELL 5

6300-3

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

417082

Pierre, February 13, 20 02

RECEIVED OF South Lincoln Rural Water System, Inc., PO Box 155, Canton, SD 57013
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6300-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	150	00
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6300-3</u> _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	200 00

By

Chief Engineer

Darland Ebele
gm

Water Rights Program - File Documentation

NAME: John Sievers

ADDRESS: PO Box 155, Canton SD 57013

DATE: 2-4-02 **COUNTY:** LN **TELEPHONE:** 605 372-4211

RE: South Lincoln RWS, Inc.

COMMENTS:

I called John Sievers concerning the application for South Lincoln RWS. Mr. Sievers indicated this application was for an additional well to serve as a backup for the system. They were not requesting any increase in volume of water. The 450 gpm is what they estimate the new well will be capable of producing.

Eric said since this application is not requesting any additional volume of water and was not amending an existing application the application/license filing fee would be \$200.00



Karen Schlaak
Environmental Scientist



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 5, 2002

South Lincoln Rural Water System, Inc.
c/o John Sievers
PO Box 155
Canton SD 57013

Dear Mr. Sievers:

Thank you for submitting the *Application for a Permit to Appropriate Water* for rural water system use.

Enclosed is the \$375.00 check submitted with the application. Since the application is not requesting any increase in the volume of water, the application/license fee will be \$200.00.

Upon receipt of the correct fee, further processing of the application will continue. If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

RECEIVED
FEB 13 2002
WATER RIGHTS
PROGRAM

*Correct ck. amt
Enclosed*

REPORT ON WATER PERMIT APPLICATION NO. 6300-3
For South Lincoln Rural Water System, Inc.
March 14, 2002

Application No. 6300-3 proposes to authorize an additional diversion rate of 1.0 cfs (450 gpm) from one additional well (Dakota Formation) approximately 665 feet deep located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 8, T97N R50W in Lincoln County. This application does not request any increase in the total volume of water (1048 acre-feet) authorized by existing permits issued to South Lincoln Rural Water System. This application is for rural water system use including the potential service to the City of Worthing.

AQUIFER – DAKOTA FORMATION (DKOT)

The Dakota Formation consists of interbedded sand, sandstone, clay and sandy clay in this area and is under confined or artesian conditions. No test well log was filed with this application, however, a nearby observation well, LN-87A is located within a few hundred feet of this application. The driller's log for this well indicates the top of the Dakota Formation was encountered at a depth of 405 feet and continued to a depth of at least 545 feet. Drilling was stopped at 545 feet not because the formation was fully penetrated but because the drill stem twisted off and the well was then cased to a depth of 502 feet. Drilling by SLRWS for Well #4 located about one-half mile south of this application indicates the top of the Dakota at 390 feet and continued to a depth of 669 feet for a total thickness of 279 feet. Well # 4 was capable of producing 448 gpm with a specific capacity of 14.8 gpm/ft of drawdown.

The Dakota Formation underlies 484 square miles and contains an estimated 4.3 million acre-feet of recoverable water in storage in Lincoln County (Hedges, 1982). In this area, the general direction of water movement in the Dakota Aquifer is southerly (Niehus, 1994). The aquifer is areally extensive into Iowa to the east, Turner County to the west and Clay and Union Counties to the south.

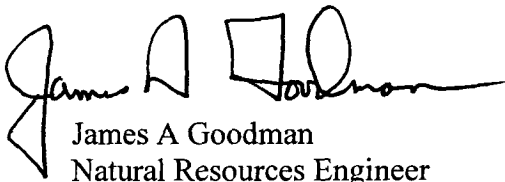
The Water Rights Program monitors twelve observation wells completed into the Dakota Formation within a four-mile radius of this application. Hydrographs for three of these wells, LN-87A, LN-77A and LN-77B are included with this report. Water levels are affected by pumping. The hydrographs illustrate when pumping began in the early 1980's and when pumping increased in the late 1980's. In general, water levels have declined from 30 to 40 feet around area of the well field (Water Rights, 2002).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water permit/right are Nos. 5116-3 and 5647-3 (RWS well #4). Interference is not a concern. Testing of SLRWS Well #4 indicated drawdown did occur at observation well LN-87A. This is also shown by the fluctuations on the hydrograph for observation well LN-87A. Even though this fluctuation occurs, the availability of water from the aquifer is not impaired.

CONCLUSIONS

1. Water is available from the Dakota Formation.
2. The aquifer is confined and under artesian conditions. Drawdown will occur. Interference is not expected to be a concern.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. Approval of this application does not increase the total annual withdrawals of the rural water system. The limit of withdrawals for SLRWS is set at 1048 acre-feet per year. The application also lists the potential for adding the City of Worthing to the water system. Worthing used 41 acre-feet of water in 2001. SLRWS used 878 acre-feet of water in 2001 and 843 acre-feet of water in 2000. The rural water system does have the water available for this additional growth.
5. Even though water levels have declined in this area the hydrographs from the various observation wells in the aquifer do show recharge occurs. Recharge has not been quantified but even if the pumping was exceeding the recharge rate water permits can be granted for water distribution systems from formations older than or stratigraphically older than the Greenhorn Formation (SDCL 46-6-3.1).



James A Goodman
Natural Resources Engineer

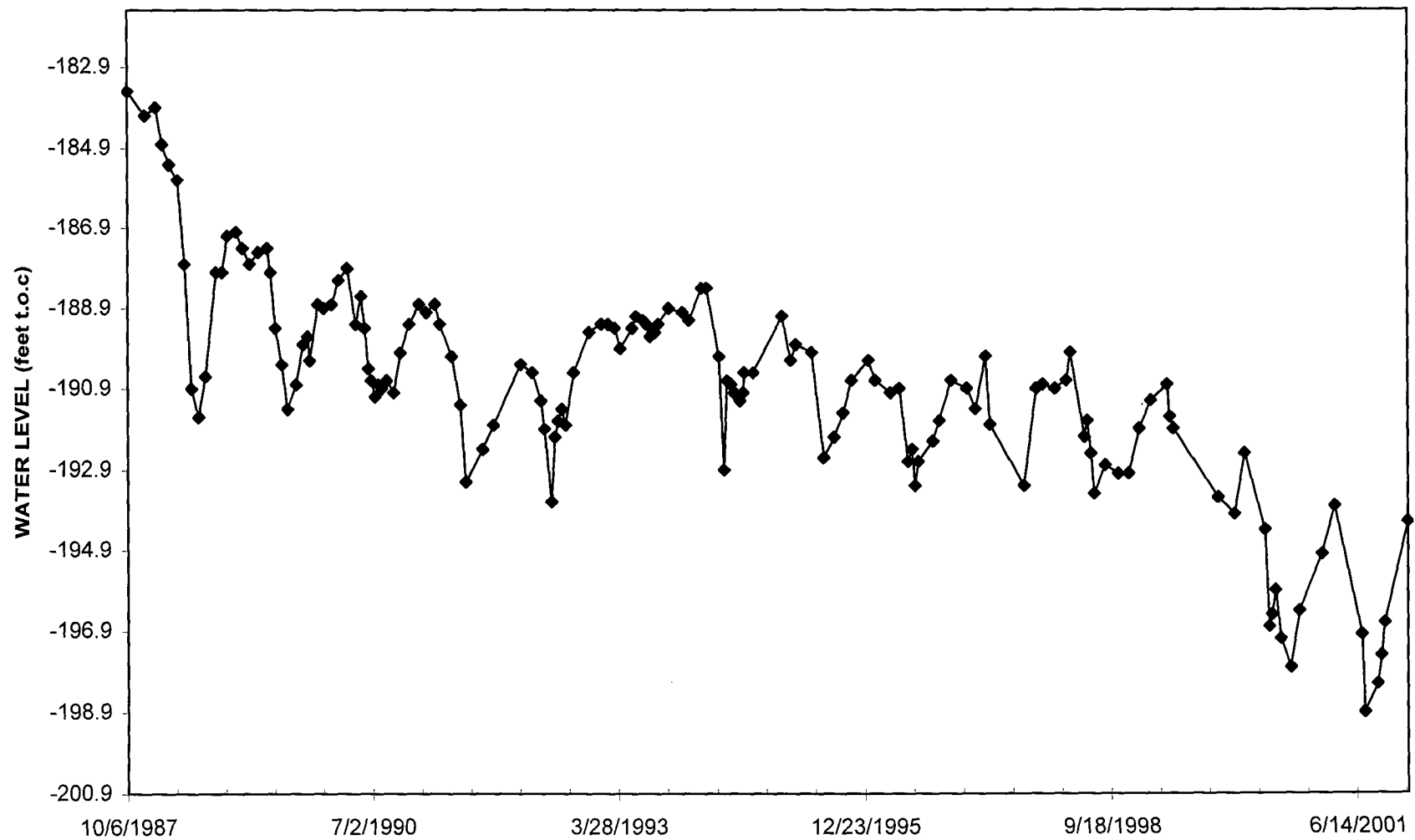
BIBLIOGRAPHY

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

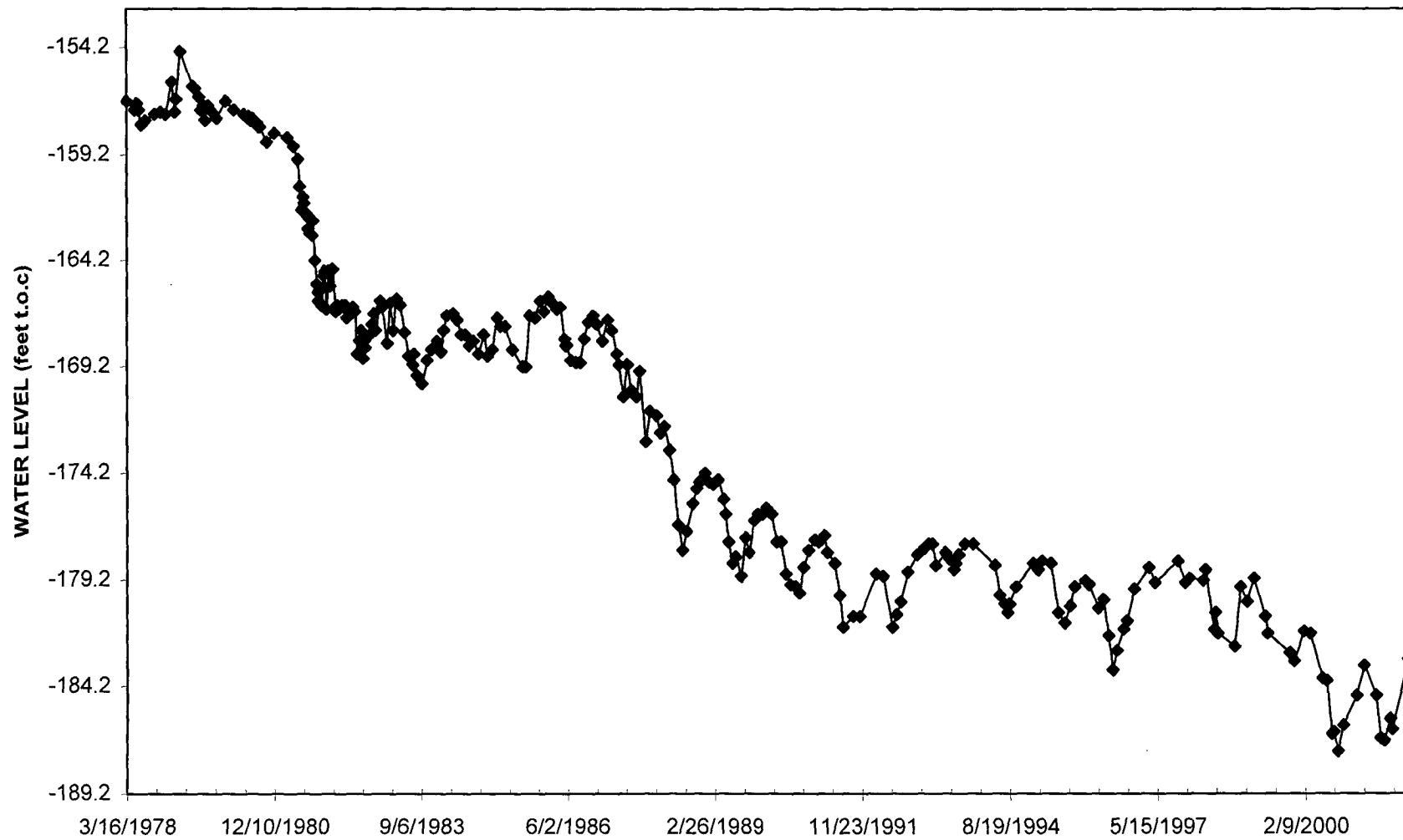
Niehus, C.A., 1994, Water Resources of Lincoln and Union Counties, South Dakota, WRI 93-4195, USGS, Rapid City, SD, 57702.

Water Rights, 2002, Unpublished Observation Well Data for Lincoln County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

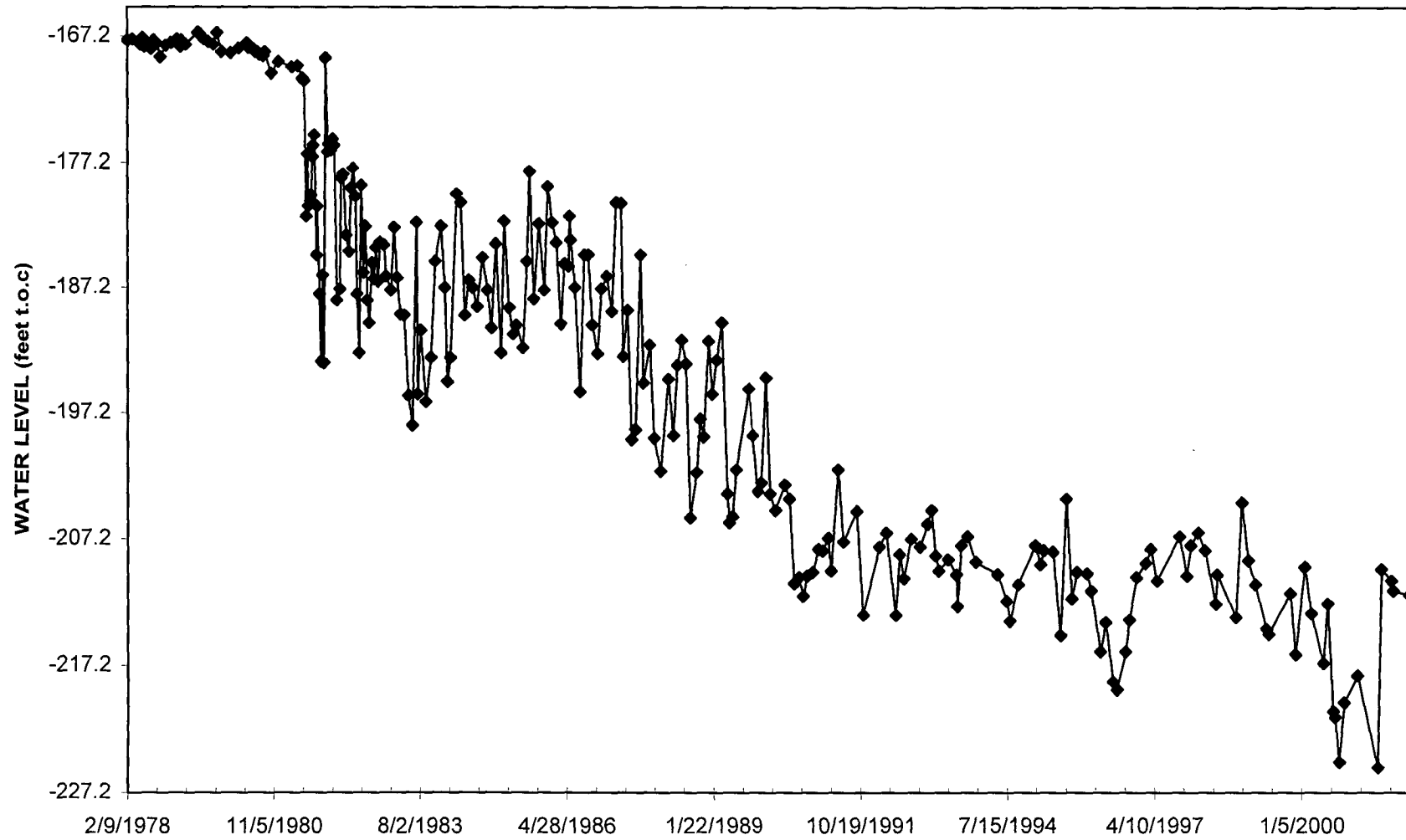
WATER RIGHTS' OBSERVATION WELL
LN-87A



**WATER RIGHTS' OBSERVATION WELL
LN-77B**



WATER RIGHTS' OBSERVATION WELL
LN-77A





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6300-3, South Lincoln Rural Water System, Inc.**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6300-3, South Lincoln Rural Water System, Inc., c/o John Sievers, Manager PO Box 155, Canton SD 57013.

The Chief Engineer is recommending APPROVAL of Application No. 6300-3 because 1) the proposed diversion can be developed without unlawful impairment of existing rights, 2) the proposed use is a beneficial use and 3) it is in the public interest with the following qualifications:

1. The 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. The well authorized by Permit No. 6300-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. Water Right/Permit Nos. 4300-3, 4300-3A, 4300-3B, 4300-3C, 5116-3, 5647-3 and 6300-3, combined, authorizes a total annual diversion of 1,048 acre feet of water.
4. South Lincoln Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn from the Dakota Formation.

See report on application for additional information.

Garland Erbele, Chief Engineer
March 27, 2002



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

March 27, 2002

South Lincoln Rural Water System Inc.
% John Sievers
PO Box 155
Canton, SD 57013

Dear Mr. Sievers:

Water Permit Application Nos. 6300-3 & 6311-3 for rural water system 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 Publishers of the Sioux Valley News printed at Canton, SD (Ph # 605-764-2000) the Beresford Republic printed at Beresford, SD (Ph # 605-763-2006), The New Era printed at Parker, SD (Ph # 605-297-4419), and the Argus Leader printed at Sioux Falls, SD (Ph # 605-331-2200). You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspapers to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the papers can eliminate delays. Upon receiving authorization, the publishers have 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 also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the applications.

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 57501-3182
www.state.sd.us/denr

March 27, 2002

Sioux Valley News
PO Box 255
Canton, SD 57013-0255

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application Nos. 6300-3 & 6311-3 to Appropriate Water to be published twice. Please publish the first notice on April 4, 2002 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 South Lincoln Rural Water Systems Inc., % John Sievers, PO Box 155, Canton, SD (Ph # 605-372-4211).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 6300-3 & 6311-3

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

Date _____

We are in receipt of your letter of March 27, 2002 enclosing Notice of Hearing to Appropriate Water by Application No. 6300-3 & 6311-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 27, 2002

Beresford Republic
PO Box 111
Beresford, SD 57004-0111

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605 773-3352

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Pierre SD 57501-3181

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and NATURAL RESOURCES

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

March 27, 2002

The New Era
PO Box 579
Parker, SD 57053-0579

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Natural Resources Engineer
605 773-3352

enclosures

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No. 6300-3 & 6311-3

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Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

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Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 27, 2002

Argus Leader
PO Box 5034
Sioux Falls, SD 57117-5034

ATTENTION: Legal Public Notice

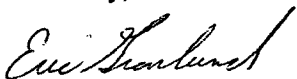
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Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

No. 6300-3 & 6311-3

Date _____

We are in receipt of your letter of March 27, 2002 enclosing Notice of Hearing to Appropriate Water by Application No. 6300-3 & 6311-3 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 4, 2002 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 6300-3 and 6311-3 to Appropriate Water

Notice is given that South Lincoln Rural Water System, Inc., c/o John Sievers, Manager, PO Box 155, Canton SD 57013 has filed the following applications for a water permit.

Application No. 6300-3 proposes to authorize an additional diversion rate of 1.0 cubic feet of water per second (450 gallons per minute) from one additional well (Dakota Formation) 665 feet deep located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8-T97N-R50W. This application does not request any increase in the total volume of water (1,048 acre feet) authorized by existing Dakota Formation permits issued to South Lincoln Rural Water System. The application is for rural water system use including the potential service to the City of Worthing.

Application No. 6311-3 proposes to appropriate 4.0 cubic feet of water per second (650 acre-feet of water annually) from three wells (Upper Vermillion Missouri Aquifer) 90 feet deep located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8 and SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 7; all in T98N-R52W. The water is for rural water system use including serving the ethanol plant near Chancellor.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6300-3 and 6311-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 22, 2002.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Affidavit of Publication

RECEIVED

STATE OF SOUTH DAKOTA

} :ss

MAY 20 2002

COUNTY OF TURNER

WATER RIGHTS
PROGRAM

I, Sarah Ebeling of the City of Parker, County of Turner, State of South Dakota, State of South Dakota, being first duly sworn on oath, deposes and says:

The New Era is a weekly legal newspaper of general circulation, printed and published in the City of Parker, in said County of Turner, by The New Era, Lyon-Sioux Press, publishers, and has been such legal newspaper during the times hereinafter mentioned; that the said newspaper has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said publication of the notice hereunto attached, and has during all of said time had, and now has, more than 200 bona fide subscribers; that the

undersigned, the affiant, is the Office Manager of the said newspaper, in charge of the advertisement department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed:

2770

printed copy of hereto attached, was printed and published in the said

newspaper for 2 successive weeks, once each week and on the same day of the week, on the following dates, to-wit:

On Thursday, the 4 day of April, 2002:

On Thursday, the 11 day of April, 2002:

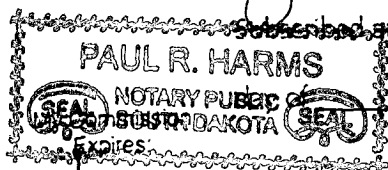
On Thursday, the _____ day of _____, 200_____:

On Thursday, the _____ day of _____, 200_____:

On Thursday, the _____ day of _____, 200_____:

That \$ _____ being the full amount of the fees for publication of the attached notice insures solely for the benefits of the publishers of the said newspaper; that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

Sarah Ebeling



Subscribed and sworn to before me this

May 2002

Paul R Harms

Notary Public, Turner County, South Dakota

Notice of Application Nos. 6300-3 and 6311-3 to Appropriate Water

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6300-3 and 6311-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineers recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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(#2770, 4/04/02, 4/11/02, The New Era)

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

SS

COUNTY: UNION

CITY: BERESFORD

NEWSPAPER: BERESFORD REPUBLIC

Judy Lundberg of said county, being first duly sworn, on oath, says: That she is the Business Manager of the said newspaper, a weekly newspaper published in said city and county, State of South Dakota: that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive, and has met all the requirements for at least one year next prior to the first publication of the attached public notice, and that said notice, a printed copy of which, taken from the paper in which the same was published, and which is hereto attached and made a part of this affidavit, was published in said newspaper

per 2 time(s) as follows: that the first publication of said notice in said newspaper aforesaid was on Thursday the

4 day of April, 2002, and that the succeeding publications were severally on

Thursday, the 11 day of April, 2002;

Thursday, the ____ day of _____, 2002;

Thursday, the ____ day of _____, 2002

Affiant further says that the full amount of the fees charged for the publication of said notice inures to the benefit of the publishers of said newspaper; that no agreement of understanding for the division thereof has been made with any other person, that no part therefore has been agreed to be paid to any person whomsoever; and that the fees charges for the publication thereof are:

DOLLARS \$ 47.52

X Judy L Lundberg
Subscribed and sworn to before me this 26 day of April, 2002.

[Signature]
Notary Public
My commission expires September 8, 2004

NOTICE OF APPLICATION NOS. 6300-3 and 6311 -3 to Appropriate Water

Notice is given that South Lincoln Rural Water System, Inc., c/o John Sievers, Manager, PO Box 155, Canton SD 57013 has filed the following applications for a water permit.

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Application No. 6311 -3 proposes to appropriate 4.0 cubic feet of water per second (650 acre-feet of water annually) from three wells (Upper Vermillion Missouri Aquifer) 90 feet deep located in the SW 1/4 SW 1/4 Section 8 and SE 1/4 SE 1/4 Section 7; all in T98N-R52W. The water is for rural water system use including serving the ethanol plant near Chancellor.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6300-3 and 6311 -3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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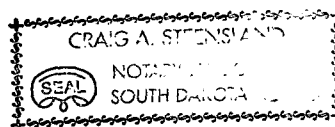
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Publish April 4 & 11, 2002

RECEIVED

MAY 03 2002

WATER RIGHTS PROGRAM



Argus Leader

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

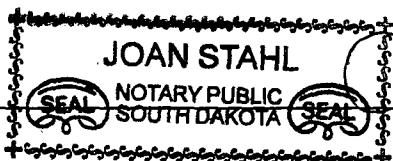
Nancy Hyronimus being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Thursday, the 4 day of April 2002 ,
Thursday, the 11 day of April 2002 ,
_____, the _____ day of _____ 2002 ,
_____, the _____ day of _____ 2002 ,
_____, the _____ day of _____ 2002 ,
_____, the _____ day of _____ 2002 ,
_____, the _____ day of _____ 2002 ,

and that \$112.70 was charged for publishing the same including a \$5.00 affidavit fee.

Nancy Hyronimus

Subscribed and sworn to before 4/16/2002 .



Joan Stahl
Notary Public, South Dakota

My Commission expires June 30th, 2005

State Notices

State Notices

NOTICE OF APPLICATION NOS. 6300-3 and 6311-3 to Appropriate Water

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Any person interested in opposing or supporting this application or recommendation

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CUSTOMER NUMBER: 078340	INVOICE NUMBER: 5792	Argus Leader P.O. Box 5034, Sioux Falls, S.D. 57117-5034	4/4, 4/11, 2002	AMOUNT DUE: \$112.70	RUN DATES:

DEPT. OF ENVIRONMENT & NAT. RES.
Water Rights
523 E. CAPITOL / JOE FOSS BLDG
PIERRE, SD 57501-3181

RECEIVED
APR 22 2002
WATER RIGHTS
PROGRAM

RECEIVED

APR 12 2002

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

JULIE GERBER

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

NOTICE OF APPLICATION NOS 63003-3 & 6311-3 TO APPROPRIATE WATER

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

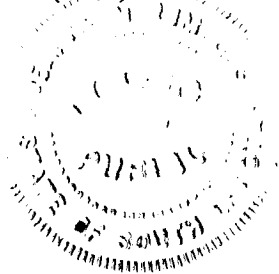
APRIL 4, 2002
APRIL 11, 2002

that the full amount of the fees charged for publishing the same to-wit: the sum of **\$47.80** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

Subscribed and sworn to before me this
11th day of **APRIL, 2002.**

Jeanne M. Limoges
Notary Public, South Dakota

(Seal)



Jeanne M. Limoges
My Commission Expires
November 18, 2003

NOTICE OF APPLICATION NOS. 6300-3 AND 6311-3 to Appropriate Water

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Application No. 6311-1 proposes to appropriate 4.0 cubic feet of water per second (650 acre-feet of water annually) from three wells (Upper Vermillion Missouri Aquifer) 90 feet deep located in the SW1/4SW1/4 Section 8 and SE1/4SE1/4 Section 7; all in T98N-R52W. The water is for rural water system use including serving the ethanol plant near Chancellor.

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(4-4, 11)



MAY 31 2002

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

South Lincoln Rural Water System Inc.
% John Sievers
PO Box 155
Canton, SD 57013

Dear Mr. Sievers:

Enclosed is Water Permit No. 6300-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6300-3 07-92

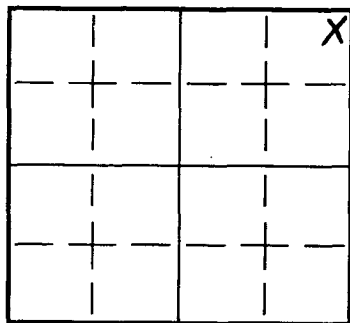
Location NE 1/4 NE 1/4 Sec 8 Twp 97 Rg 50County Lincoln North

Please mark well location with an "X"

W

E

Well Completion Date

10-29-03

1 Mile

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

Mud RotaryCASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>49.56</u> LB/FT	<u>12</u> IN	<u>6.6</u> FT	<u>446</u> FT	<u>18</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>Neat Cement</u>	<u>345</u>	<u>15</u> lb./gal	<u>6.6</u> ft	<u>446</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pumped in with tremie pipeSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 6" IN Length 244 FEETMaterial 5.5.Slot Size 20 Set From 411 Feet to 655 Feet (35' screen)Other information Top 40 Feet is Tight bind.Gravel packed with Red Flint well #20 silica sandWAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: chlorinated☐ NO, Why Not? Water

Laboratory sent to for water quality analysis _____

Well Owner: South Lincoln Rural Water

Business Name: _____

Address: P.O. Box 155
Canton, SD 57013

WELL LOG:

DEPTH

FORMATION

FROM

TO

See attached logSTATIC WATER LEVEL 190.2 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:

☒ PumpedDescribe: Test Pump☐ Bailed☐ Other

Pumping Level Below Land Surface

211.89 ft. After 5.5 Hrs. pumped 460 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 381

And this report is true and accurate.

Drilling firm L.T.P. Enterprises, Inc.

Signature of License Representative:

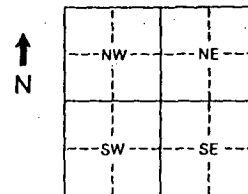
Randy D. Pullard

Signature of Well Owner or Equitable Property Holder:

Date: 2-9-04



FARGO, N.D.
HUTCHINSON, MN.



Sec. _____ T _____ R _____

DRILLERS LOG

Drilled for SLRW By Fargo Office _____

Location of Test Hole 1/2 Mile North of plant

Test Hole No. 1-03 Well No. _____

Size of test hole 6 3/4 Date started 6-10-03 Date completed 6-19-03 Total Hours _____

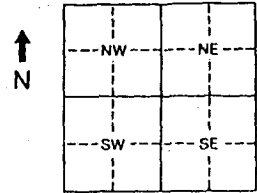
FORMATIONS DRILLED

TYPE OF FORMATION	COLOR OF FORMATION	STARTED AT WHAT DEPTH	ENDED AT WHAT DEPTH	THICKNESS OF FORMATION
Top soil	Black	GL	3	3
Clay	Yellow	3	31	28
Clay	Blue	31	64	33
Clay w/Bentonite	Blue/White	64	81	17
Clay	Blue	81	137	56
Sandy clay	Gray/Blue	137	174	27
Shale & some rock	Gray/Blk	174	319	145
Shale w/lenses of sandstone	Gray/Blk	319	327	8
Shale	Gray/Blk	327	370 1/2	43 1/2
Rock	White	370 1/2	371 1/2	1
Sand Stone	Gray	371 1/2	374	2 1/2
Sand w/lenses of shale	Gray/Black	374	380	6
Sandstone	Gray/Black	380	387	7
Shale & sandstone	Gray/Black	387	391	4
Sandstone	Gray/Black	391	396	5
Sandy shale w/small lenses of sandstone	Gray/Blk	396	419	23
Sandstone	Gray	419	428 1/2	9 1/2
Rock	White	428 1/2	429 1/2	1
Sandstone	Gray	429 1/2	431	2 1/2
Sandy shale w/lenses of sandstone	Gray/Black	431	437	6
Sandstone	Gray	437	440	3
Sandy shale w/lenses of sandstone	Gray/Black	440	446	6
Sandstone	Gray	446	461	15
Sandstone w/lenses of shale	Gray/Black	461	480	19

Signed Chris Ranum Driller



FARGO, N.D.
HUTCHINSON, MN.



Sec. _____ T _____ R _____

DRILLERS LOG

Drilled for SLRW By Fargo Office _____

Location of Test Hole _____

Test Hole No. 1-03 Well No. _____

Size of test hole 6 3/4 Date started 6-10-03 Date completed 6-19-03 Total Hours _____

FORMATIONS DRILLED

TYPE OF FORMATION	COLOR OF FORMATION	STARTED AT WHAT DEPTH	ENDED AT WHAT DEPTH	THICKNESS OF FORMATION
Sandstone	Gray	480	486	6
Sandstone and shale	Gray/Black	486	488	2
Rock (took water)	White	488	493	5
Shale and sandstone	Gray/Black	493	495	2
Rock (took water)	White	495	511	16
Sandstone	Gray	511	515	4
Rock	White	515	518	3
Sandstone	Gray	518	520	2
Rock	White	520	522	2
Sandstone (took water)	Gray	522	525	3
Shale	Gray/Black	525	528	3
Sandstone (took water)	Gray	528	536	8
Sandstone w/lenses of shale (sm. lenses)	Gray	536	544	8
Sandstone (drilled good) took water	Gray	544	650	106
Rock	White	650	652	2
Sandstone	Gray	652	655	3
Shale	Gray/Black	655	675	20

Signed Chris Ranum Driller

File Nos. 5216-3, 5217-3, 5218-3, 5219-3, 6499-3,
1262A-3, 1262B-3, 1262C-3, 6743-3, 4401-3,
4982-3, 5647-3, 6490-3, 6311-3, 6300-3,
6435-3, 6456-3, 6727-3

Water Rights Program File Documentation

DATE: 04/02/2008

The table below represents the water use reported from the Dakota Formation from Lincoln County by the major water users (City of Canton, Town of Worthing, Town of Fairview and South Lincoln Rural Water Sytem).

	Canton	Worthing	Fairview	SLRWS
	Acre-feet per year*			
2006	406	110	10	863
2005	403	34	8	769
2004	411	37	5	904
2003	384	48	9.2	725
2002	352	NA	NA	786
2001	331	NA	NA	877
2000	370	NA	NA	843
1999	384	4	9.4	781
1998	395	33	12	693
1997	427	36	9	663
1996	394	34	13	689
1995	397	30	11	707
1994	383	25	13	766
1993	351	24	12	630
1992	345	26	8	680
1991	391	28	10	696
1990	401	26	9	669
1989	402	31	NA	650
1988	388	26	20	660
1987	430	32	14	453
1986	330	25	22	370
1985	334	27	22	370
1984	346	27	24	368
1983	330	27	NA	341

* Numbers shown in black originated from Non Irrigation Questioner Data Base

Numbers in blue originated from 4/2/2008 personal correspondence with John Sievers (SLRWS manager)

Numbers shown in red originated from Jim Goodman's report on Application Nos. 5155-3 and 5156-3 (with permit files)

NA= not available

Ken Buhler
Natural Resources Engineer

Permit No. 6300-3
Vermillion River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

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

I have this day, September 14, 2010, made a thorough examination of the water use system constructed by South Lincoln Rural Water Systems, Inc. of PO Box 155, Canton SD 57013 holder of Permit No. 6300-3, bearing the priority of February 4, 2002 authorizing the diversion of 1.0 cu. ft. per second and no additional volume to existing permits held by SLRWS of 1,048 acre-feet of the waters of Dakota Formation for rural water system use and City of Worthing in Lincoln, Union, Turner, Minnehaha Counties.

Inspection contact & relationship **Layne Bergess, employee**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: LTP Enterprises, Inc
- 2) No. of Wells 1
- 3) Depth(s) 655 feet
- 4) Well log is available yes
- 5) Comment: Well completed 6-10-2003

Casing:

- 1) Diameter 12 inches
- 2) Length 446 feet
- 3) Type steel

Screen:

- 1) Type stainless steel
- 2) Length 244 feet
- 3) Static water level 190 feet

Pump:

- 1) Make Ground Fos
- 2) Model
- 3) Size
- 4) Capacity 450 GPM

Motor:

- 1) Make Franklin
- 2) Model No. 236618625
- 3) Horsepower rating 50 hp

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

C. Works used to apply water to beneficial use: Rural water system

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by yes
- 2) Exceptions to compliance are: none

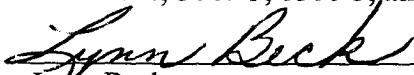
The system is in good condition with the point of diversion located as follows: NE¼ NE¼ Section 8, T97N, R50W, 100' west and 100' south of the NE corner. The works are capable of diverting and conveying to the place of use 1.0 cu. ft. per second of water which is to be used for rural water system. Water has been put to beneficial use to the maximum extent as follows: rural water system serving Counties of Lincoln, Union, Turner, Minnehaha, and Cities of Worthing, Chancellor, Alcester.

The license should be issued for 1.0 cfs as a part of the total 1,048 acre-feet of volume. See comments below.

All structures, wells and lands on map yes

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

South Lincoln Rural Water Systems, Inc. holds Water Right Nos. 6435-3, 6311-3, and 6727-3 for a total of 1800 ac ft; 5647-3, 6300-3, and 6490-3 for a total of 1048 ac ft.


Lynn Beck

Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: October 4, 2010

WATER RIGHT 6300-3
SOUTH LINCOLN RURAL WATER SYSTEMS, INC
September 14, 2010

R50W

T97N



SCALE

0 335 670 1,340 2,010 2,680 Feet

Lynn Beck

Lynn Beck
Natural Resources Engineer
DENR - Water Rights Program

South Dakota Department of
Environment and Natural Resources



Protecting South Dakota's Tomorrow ... Today



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 10 2012

6300-3

South Lincoln Rural Water System
Tom Rausch – Manager
PO Box 155
Canton SD 57013

Dear Mr. Rausch:

Enclosed is Water License No. 6300-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6300-3

(1) South Lincoln Rural Water Systems, Inc., PO Box 155, Canton SD 57013 made Application No. 6300-3, February 4, 2002 for a water permit to divert 1.0 cubic feet of water per second from groundwater (one well), Lincoln County, South Dakota for rural water system use purposes. Permit No. 6300-3, with a priority date of February 4, 2002 was approved April 22, 2002 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 22, 2007 and for the application to beneficial use of water on or before April 22, 2011.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6300-3 is issued a license, bearing a priority date of February 4, 2002 to appropriate 1.0 cubic feet of water per second from groundwater (one well) for rural water system use serving Lincoln, Union, Turner, Minnehaha Counties and the Cities of Worthing, Chancellor and Alcester.

The diversion point is located: 100 feet west and 100 feet south of the northeast corner of Section 8-T97N-R50W (NE ¼ NE ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6300-3 including the following now applicable qualifications:

- 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.
- The well authorized by Permit No. 6300-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
- Water Right Nos. 5647-3, 6300-3 and 6490-3, combined, authorize a total annual diversion of 1,048 acre feet of water.
- South Lincoln Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn from the Dakota Formation.

Garland Erbele

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

JAN 10 2012

date





THEIN WELL

P.O. BOX 778, 11355 HWY. 71 NE (ACROSS FROM RINGO LAKE)
SPICER, MINNESOTA 56288 • (320) 796-2111
www.theinwell.com • E-mail: theinwell@tds.net

6300-3
WELLS ~ PUMPS
SALES ~ SERVICE

Since 1893

July 13th, 2017

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JUL 21 2017

WATER RIGHTS
PROGRAM

South Dakota Department of Environment and Natural Resources
WATER RIGHTS PROGRAM
523 East Capitol Ave.
Pierre, SD 57501-3182

Dear Water Rights Program,

We at Thein Well Company on behalf of South Lincoln Rural Water, Beresford, SD are filling a permit application for a water permit for nonirrigation uses. Please see the included forms, fee, map, and test hole log.

This permit is intended to replace Permit No. 6300-3. The well pertaining to 6300-3 has failed, the district also has another well with issues, leaving them two wells short and in great need of functional wells to keep up with demand. Your earliest consideration of this request would be greatly appreciated.

If you have questions or concerns regarding this project I can be reached at 1-800-450-8000, or via email zack@theinwell.com.

Sincerely,

Zack Thein
Project Manager
Thein Well Company

RECEIVED

JUL 21 2017

WATER RIGHTS
PROGRAM

SD Form - 1585LD v3
FORM 2: Application for uses other than irrigation
 (type or print)

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. _____	(office use only) Hydrologic Unit _____
	Basin _____	
	Newspaper _____	

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

Check use(s) of water:

- | | | | |
|--|--|--|--|
| ☐ Municipal | ☐ Water Distribution System | ☐ Recreational | ☐ Institutional |
| ☒ Rural Water System | ☐ Commercial | ☐ Fish & Wildlife | ☐ Geothermal |
| ☐ Domestic (over 18 gpm) | ☐ Industrial | ☐ Other _____ | |

Type of Application:
 (check one)

- ☒ New
 ☐ Vested Right (Use predates Mar 2, 1955)
 ☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

1. Name to Appear on Water Permit South Lincoln Rural Water

Mailing Address 258647 472nd Ave Beresford SD 57004
(Address) (City) (State) (Zip Code)
 Phone 605-372-4211 Mobile _____ Email _____

2. Amount of water claimed 1.0 *CFS or _____ **GPM and _____ ***AF or _____ Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use)

3. Source of water supply Groundwater Aquifer

4. Location of point of diversion 1 well, NE 1/4 NE1/4 section 8-T97N-R50W County Lincoln
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☐ No
 If "Yes," where will water be used? _____
(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Lincoln, Union, Turner, Minnehaha

6. Annual period during which water is to be used All Year

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

Proposed well is to replace well identified under permit No. 6300-3 which has failed. Well depth, diameter, and flow conditions to be similar to failed well.

I, Thomas Paukert Gm, the applicant, certify under
Name of Person Title (if applicable)
 penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

2015-10

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

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)

- a) If new wells, how many 1 Have test holes been drilled ☒ Yes ☐ No Drilled by Thein Well Company
(if yes, please provide copies of logs)
- b) If existing wells, how many Provide copy of log(s), if available. Drilled by

For either Existing or Proposed Wells:

- c) Well Depth (required) 650 Depth to Top of Water Bearing Material 371 Depth to Water from Surface 190'
- d) Distance to nearest domestic well on applicant's property 0 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

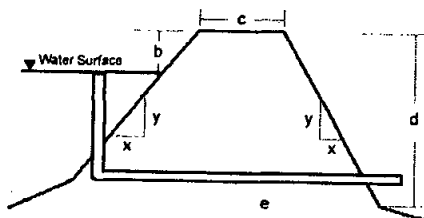
3. Dugout Information

- 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 (e.g. 3 to 1 is a typical slope)
Upstream
Downstream
- h) Surface Area of Impoundment
- i) Storage Acre Feet
- j) Drainage Area Above Dam Acres

South Lincoln Rural Water

Test Hole Drilled on 7/12/2017

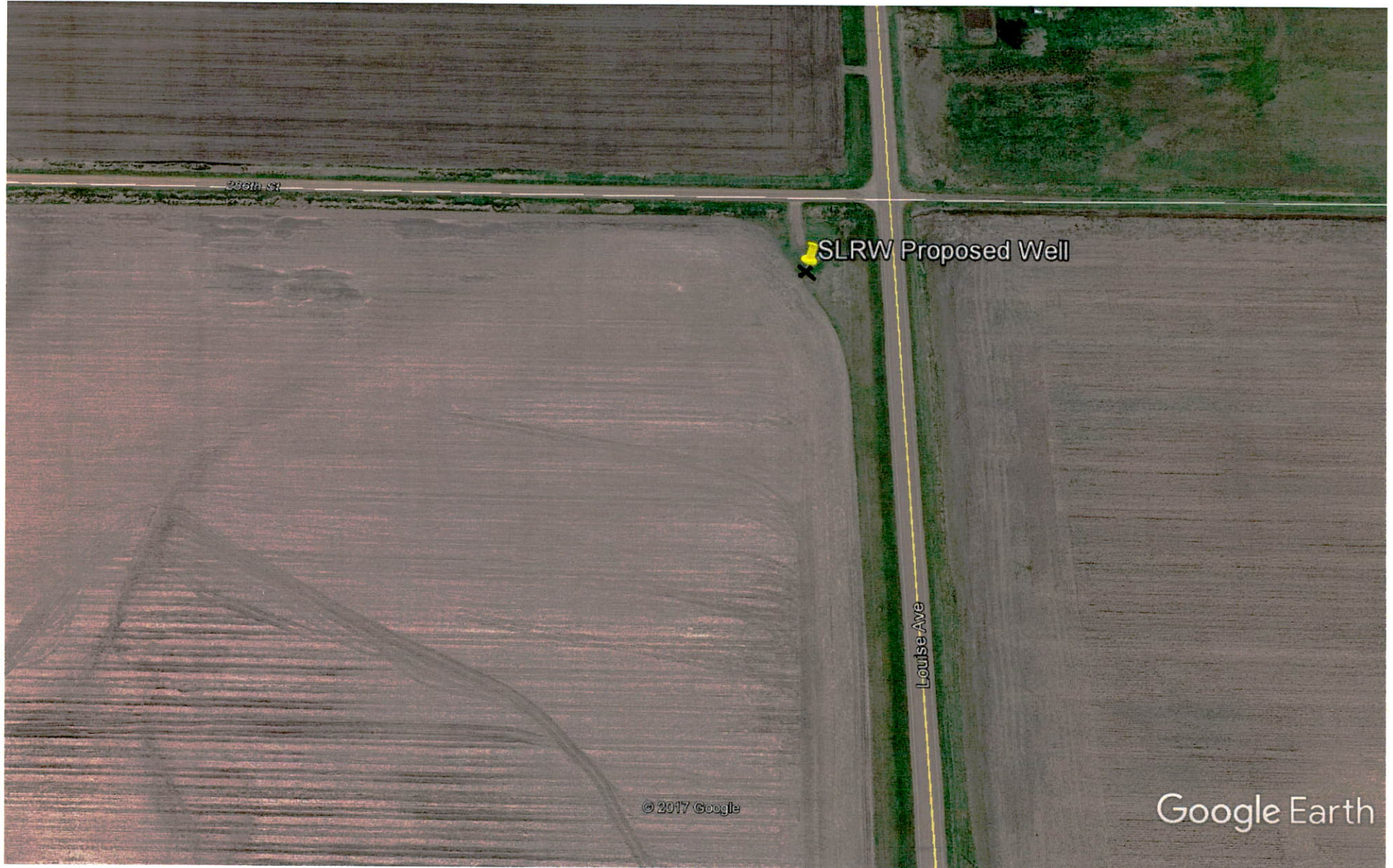
GPS: N43 14 34.47

W96 46 2.58

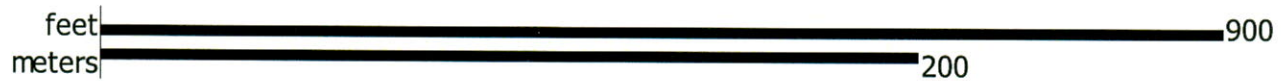
Formation Log	From	To
Top Soil	0	2
Brown Silty Clay	2	28
Gray Clay	28	42
Hard Light Gray Clay	42	46
Dark Gray Silty Clay	46	54
Light Gray Silty Clay	54	64
Chalk	64	85
Gray & Black Shale	85	145
Rock	145	146
Shale	146	317
Shale with Rock	317	345
Hard Shale (slow drilling)	345	365
Shale	365	370
Rock	370	371
Sandstone with layers	371	427
Rock	427	428
Sandstone	428	504
Brown Dolomite Hard	504	514
Sandstone & Shale	514	516
Brown Dolomite Hard	516	520
Sandstone Hard	520	610
Sandstone Soft	610	644
Hard Sandstone & Shale	644	652
Shale	652	655

Proposed Well = NE 1/4 NE 1/4 Section 8 - T97N - R50W

Lincoln County



Google Earth





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

July 21, 2017

Thein Well Company Inc.
Zack Thein
PO Box 778
Spicer MN 56288

Dear Mr. Thein:

Thank you for submitting the *Application for a Permit to Appropriate Water* on behalf of South Lincoln Rural Water System.

Enclosed is the check for \$1,350.00 submitted with the application. We have talked with Tom Rausch who indicated that this is a replacement well for the well authorized by Water Right No. 6300-3. No additional water is being requested at this time. The application/license fee is not required.

If you have any questions, please contact me.

Sincerely,

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

enclosure

Water Rights Program - File Documentation

NAME: Tom Rausch, South Lincoln RWS

ADDRESS: Beresford SD

DATE: 7-21-17 **COUNTY:** LN **TELEPHONE:** 605 372-4211

RE: Application for Replacement Well

COMMENTS:

Eric Gronlund spoke with Tom Rausch, Manager of South Lincoln RWS about the application we received from Thein Well Company on their behalf.

Mr. Rausch indicated the 12 year old well (known as Well No. 5) authorized by Water Right No. 6300-3 has failed and the new will be located approximately 35 – 40 feet away and approximately the same depth. They are not requesting any additional water. It is a replacement well only.

Mr. Rausch further indicated there is the potential that the old well will become a monitoring well.

Eric indicated we would be returning the application fee of \$1,350 back to Thein Well Company.



Karen Schlaak
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

July 24, 2017

South Lincoln RWS
Tom Rausch
28647 472nd Ave
Beresford, SD 57004

Dear Mr. Rausch:

Water Right No. 6300-3 appropriates 1.0 cubic feet of water per second (cfs) from one well completed in the Dakota aquifer (665 feet deep) located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, T97N, R50W for rural water system purposes. Water Right Nos. 5647-3, 6300-3, and 6490-3, combined, authorize a total annual diversion of 1,048 acre-ft.

You requested authorization to replace an existing well (change of diversion location) located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, T97N, R50W. The basis for this request was that the well currently associated with Water Right No. 6300-3 has failed.

Upon review of the request and pursuant to SDCL 46-5-13.1, the new diversion location is authorized without application or publication of a notice of hearing pursuant to SDCL 45-2A-4. No increase in the authorized diversion rate of 1.0 cfs for Water Right No. 6300-3 or the total appropriation (1,048 acre-ft) under Water Right Nos. 5647-3, 6300-3, and 6490-3, has been requested or approved. If the total diversion rate or volume increases, a new water permit will need to be obtained from the SD DENR Water Rights Program.

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

Sincerely,


Jeanne Goodman, Chief Engineer
Water Rights Program

Request for a New Diversion Point

NAME: Tom Rausch, South Lincoln RWS

ADDRESS: 28647 472nd Ave, Beresford, SD 57004

DATE: July 24, 2017

COUNTY: Lincoln

TELEPHONE: (605) 372-4211

BACKGROUND:

Water Right No. 6300-3 appropriates 1.0 cubic feet of water per second (cfs) from one well completed in the Dakota aquifer located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, T97N, R50W for rural water systems purposes. Water Right Nos. 5647-3, 6300-3, and 6490-3, combined, authorize a total annual diversion of 1,048 acre-ft.

Thein Well Co. submitted an application on behalf of Tom Rausch, South Lincoln RWS, to the South Dakota DENR Water Rights Program requesting replacement of the well used by Water Permit No. 6300-3. The original diversion consists of one 12" well, having a 244 foot screened interval and completed to a depth of 655 feet. The location of the new diversion is 35-40 feet away from the original diversion and is also located in NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, T97N, R50W.

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 authorized by Water Right No. 6300-3 is the Dakota aquifer. The proposed well is expected to be completed to a depth of approximately 650 feet, which is similar to the existing well. Given the proximity and depth of the proposed well, the water source is the same.

No additional appropriation of water is requested. This request is to move the diversion point. Water Right No. 6300-3 appropriates 1.0 cfs for rural water purposes from one well (655 feet deep). Water Right Nos. 5647-3, 6300-3, and 6490-3, combined, authorize a total annual diversion of 1,048 acre-ft.

Review of Existing Diversions

The well completion report and water rights databases were reviewed for the nearest domestic wells and water rights/permits on file. The nearest domestic well on file completed into this aquifer is approximately 0.25 miles south of the diversion. The nearest water right completed into this aquifer is located approximately over 4 miles northwest of the diversion point. Based on no change in distance from other users in the Dakota aquifer, interference is not expected to be a concern.

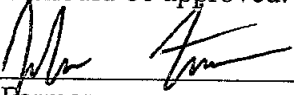
CONCLUSION

- The new diversion point does not propose to appropriate additional water.
- The water source continues to be the Dakota aquifer.

- Unlawful impairment of existing water rights/permits and domestic wells is not expected to occur.
- If the failed well is no longer in use and abandoned pursuant to SDCL 46-6-27 it shall be plugged in accordance to ARSD 74:02:04:67 and any other applicable SD Well Construction Standards.

RECOMMENDED ACTION

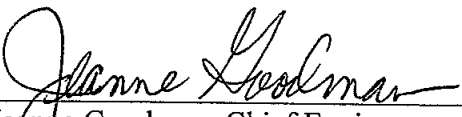
Based on the above criteria, it is recommended that the new diversion point location under Water Right No. 6300-3 should be approved.



John Farmer
Water Rights Program

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

The new diversion point location does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program

South Lincoln Rural Water

New Well #5 NE, NE S8 T97N R50W

GPS: N43 14 34.47

W96 46 2.58

Formation Log	From	To
Top Soil	0	2
Brown Silty Clay	2	28
Gray Clay	28	42
Hard Light Gray Clay	42	46
Dark Gray Silty Clay	46	54
Light Gray Silty Clay	54	64
Chalk	64	85
Gray & Black Shale	85	145
Rock	145	146
Shale	146	317
Shale with Rock	317	345
Hard Shale (slow drilling)	345	365
Shale	365	370
Rock	370	371
Sandstone with layers	371	427
Rock	427	428
Sandstone	428	504
Brown Dolomite Hard	504	514
Sandstone & Shale	514	516
Brown Dolomite Hard	516	520
Sandstone Hard	520	610
Sandstone Soft	610	644
Hard Sandstone & Shale	644	652
Shale	652	655

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WATER RIGHTS
PROGRAM

Sioux Falls Public Health Laboratory

City of Sioux Falls, SD Health Department

521 North Main Avenue Suite 100 Sioux Falls SD 57104-5947 Telephone (605) 367-8777 Fax (605) 367-8645

Water Microbiology Report

THEIN WELL COMPANY
PO BOX 778
SPICER MN 56288

WATER MICROBIOLOGY REPORT:

System/Supply: **Thein Well Company**

Date/Time Collected: 9/12/2017 12:30 PM

Received at Laboratory: 9/12/2017 2:53 PM

Test Set Up: 9/12/2017 3:00 PM

Sample Type/Purpose: Potable, NOS

SupplyType: Other Potable

Comments on Sample: Called to Zach 9/13/2017 9:03:54 AM LKA.

Test: Coliform Presence/Absence

Test Result: **Coliform Bacteria Present**

Sample # - Test #: 1133439 215451

Ref #:

Collected By: BL

Site Number:

CL2: pH:

Repeat Location:

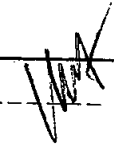
Location Info: Well #5, S Lincoln RW

Test Method: Chromogenic Substrate, P/A

End of Report

Date/Time Reported:

Sep 13 2017 9:00 AM Analyst: LKA

Verified By: 

6778A-3

4817-3
6300-3
6490-3

5647-3
6435-3
6727-3

Dewell, Amanda

From: Gronlund, Eric
Sent: Friday, March 15, 2024 3:45 PM
To: Dewell, Amanda
Subject: South Lincoln RWS

Follow Up Flag: Follow up
Flag Status: Flagged

When you have time:

Change the contact person for South Lincoln RWS's from Tom Rausch to John Stearns. John Stearns became the new manager of SLRWS on Jan. 29th with Mr. Rausch's retirement.