

WATER PERMIT NO. 6924-3

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

Address: PO Box 36, Harrisburg SD 57032

Phone: 605 767-2966

Amount of Water Claimed: 1,344 AF

Total Acres: NA

Source of Water Supply: groundwater (5-7 wells)

Water to be used for: rural water system

County: Lincoln and Minnehaha

Type of Waste Disposal System:

Location: 7 miles northeast of Harrisburg

PRIORITY

Date Received: 12-17-07

Application/License Fee: \$525

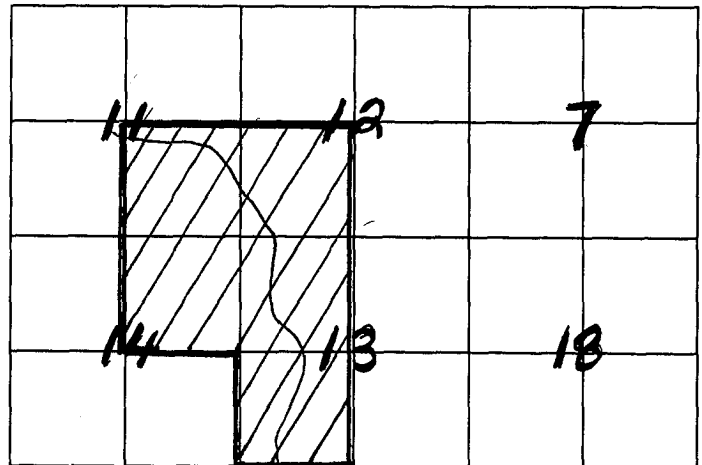
Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SW ¼ Sec 12, NW ¼ Sec 13, SE ¼ Sec 11, SW ¼ Section 13 and NE ¼ Sec 14; all in T100N-R49W

Land to be Irrigated: NA



Depth of Well: 30 feet deep

Well Driller:

Remarks:

Type of Map: topo

Prepared by: Mitch Kannenberg, PE

Reviewed and the Number Assigned on: 12-17-07

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

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. 6924-3 (office use only)
Hydrologic Unit 10170203
Basin Sioux River (764-2000)
Newspaper Sioux Valley News, PO Box 255 Canton
Argus Leader, PO Box 5034, SF 57117 (331-2200) 57013

RECEIVED
DEC 17 2007
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:
(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 of Applicant Lincoln County Rural Water System, Inc. Phone (605) 767-2966
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address PO Box 36 Harrisburg State SD 57032
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 2.5 *CFS or 1,122 **GPM 1,344 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply Big Sioux Aquifer
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Lincoln
Five to seven wells located in the SW1/4 of Section 12, the NW1/4 of Section 13, the SE1/4 of Section 11, the SW1/4 of Section 13, and the NE1/4 of Section 14, all in T100N, R49W.
5. County or counties where water will be used Lincoln and Minnehaha
6. Annual period during which water is to be used January 1 through December 31 (Calendar 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)

Project to provide source water for the established Lincoln County Rural Water System (LCRW). LCRW provides drinking water to the cities of Tea and Harrisburg, and has approximately 2,100 rural hookups.

STATE OF SOUTH DAKOTA)

County of Lincoln

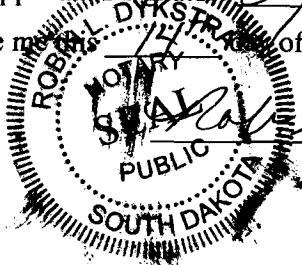
SS

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, Roger Lamp, Chairman, LCRW, 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

Subscribed and sworn to before me on 17 of December 20 07



Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6924-3

Date of first receipt of application December 17, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6924-3 to Lincoln County Rural Water System, Inc., PO Box 36, Harrisburg SD 57032 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. 6924-3 appropriates 2.5 cubic feet of water per second (1,344 acre feet annually) from five wells to be completed into the Big Sioux:South Aquifer (approximately 30 feet deep) located in SW ¼ Section 12, W ½ Section 13; all in T100N-R49W. The wells will be in the portion of these sections within South Dakota.
2. The water appropriated shall be used for the purpose of rural water system use in Lincoln and Minnehaha Counties 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. 6924-3 is March 10, 2008.
5. The date from which applicant may claim right is December 17, 2007.
6. One-fifth of the construction is to be completed on or before September 10, 2010.
7. All construction is to be completed on or before March 10, 2013.
8. Water is to be put to beneficial use on or before March 10, 2017.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

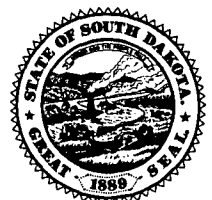
QUALIFICATIONS

1. The 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. The wells authorized by Permit No. 6924-3 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) pursuant to Section 74:02:04:28.
3. Permit No. 6924-3 is limited to the five wells located in the SW ¼ Section 12 and the W ½ Section 13, T100N, R49W as shown on the attached map.
4. Lincoln Rural Water System shall report to the Chief Engineer of the Water Rights Program the amount of water withdrawn each year from the Big Sioux:South Aquifer.

WATER MANAGEMENT BOARD

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

APR 29 2008
date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 12-14 inches Depth @30 feet
- b) Casing Type PVC SDR26 Diameter 12 inches Thickness 0.49 inch
- c) Screen Type Stainless Steel Diameter 12 inches Thickness
- d) Gravel Pack Engineered Length of Gravel Pack 12-15 feet
- e) Depth to Top of Water Bearing Material 6-12 feet
- f) Depth to Water (ground surface to water level) 6-12 feet
- g) Distance to nearest existing domestic well:
On applicants property On property owned by others @0.2 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

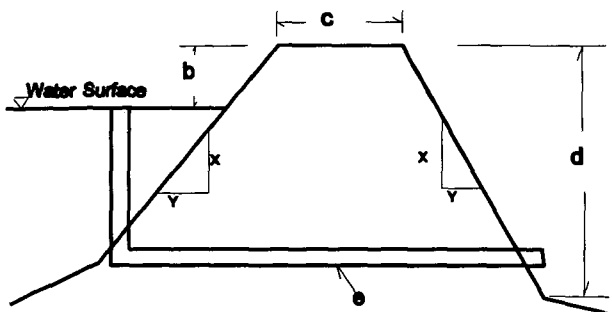
3. Dugout Information

- 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.

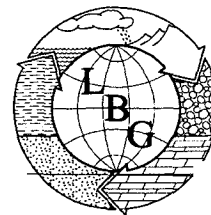
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- 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

LEGGETTE BRASHEARS & GRAHAM, INC.

8 PINE TREE DRIVE, SUITE 250
ST. PAUL, MN 55112
— www.lbgweb.com



MEMORANDUM

TO: Gordon Krause, DGR
FROM: Mike Plante
DATE: December 12, 2007
RE: Summary of well field information and correspondence (1976 to 1981)

This memo summarizes the well field information and correspondence provided to Leggette, Brashears & Graham, Inc. (LBG) by DeWild Grant Reckert Associates Company (DGR) regarding Lincoln County Rural Water System's (LCRW) Big Sioux Aquifer well field. The information provided was based on activities conducted between 1976 and 1981 by LCRW and DGR. Maps were included in the documentation showing the approximate locations of wells and test holes. Not all of the test holes were shown on the maps, and the maps were hand drawn and cannot be used to accurately locate the locations on the current map, which is attached. Well construction diagrams for Well #1, #2, and #3 were provided in the documentation. The site is located in Sections 11, 12, 13, and 14 of Township 100 North, Range 49 West in Lincoln County, South Dakota.

Local Geology

The Big Sioux Aquifer is an alluvial aquifer consisting of buried sand and gravel deposits. The unconsolidated deposits are underlain by Sioux Quartzite; however, the depth to the Sioux Quartzite is unknown in the valley. Geologic logs from Wells #1, #2, and #3 and select test holes indicate that there is a coarsening downward sequence, from fine sand down to very coarse sand and gravel to approximately 30 feet below grade.

The summary of previous activities completed by LCRW and DGR is provided below in chronological order.

Harrisburg Existing Water Study, summary report, October 1976

An investigation was conducted in 1969 by drilling 19 auger test holes to an average depth of 37 feet. Boring documentation (logs or map locations) is incomplete. Some cross-section data is provided. Author of this report is unknown. Eleven water samples were collected. The investigation recommended that a production well test well be drilled in the northwest quarter of Section 1, Township 99 North, Range 49 West, at the approximate location of test hole #11. A step-rate test was conducted on October 14, 1970 at rates of 50 gpm (1 hour, 30 minutes), 75 gpm (1 hour, 30 minutes), 100 gpm (1 hour, 35 minutes), 125 gpm (1 hour, 30 minutes), 200 gpm (1 hour, 40 minutes), and 100 gpm (24 hours). Water levels stabilized at each step. Data from this test was not quantitatively analyzed. The well was estimated at that time to produce approximately 100 gpm; however, it was recommended that the capacity not be increased. The daily average pumping time was 90 gpm for 12 hours. The test borings also indicated that another production well in the vicinity would not be likely. The report concluded, among other things, that the existing well may not be sufficient to meet projected demand.

Legal, lease, and easement documentation

There is documentation of two easements (Easement No. 1 and Easement No. 2) both for Section 11, Township 100 North, Range 49 West. These may be the easements for Well #1 and Well #2, respectively. A lease and option to purchase is also included for portions of Sections 11, 12, 13, and 14, Township 100 North, Range 49 West; signed and dated 11/19/76.

Test Holes summary

The test holes (listed with total depth) were installed by Ed H. Lacey & Sons, December 1976.

#1 – 24 ft	#2 – 33 ft	#3 – 32 ft	#4 – 32 ft	#5 – 33 ft
#6 – 33 ft	#7 – 17 ft	#8 – 27 ft	#9 – 30 ft	#10 – 33 ft
#11 – 35 ft	#12 – 34 ft	#13 – 34 ft	#14 – 31 ft	

December 1976 Correspondence

Delmar Koel (Memo 12/28/76) states that a production well will be drilled near Test Hole #13 that could produce up to 400 gpm. Permanent wells should be placed near test holes #13, #6, and #14.

Sieve analysis summary

Test holes 5, 6, 13, 14 at depths 5, 10, and 15 feet (12/22/76).

Well #1 at depths 14-19, 19-24, and 26-32 feet (2/23/77).

Well #2 at depth 16-29.5 (5/22/79) and Well #3 at depth 26 feet (5/24/79).

April 11-12, 1977 Aquifer Pumping Test

This aquifer test was documented in a 4/28/1977 memorandum by David Kunath of DGR. The test was completed by pumping Well #1 at 400 gpm for 24 hours. Static water level was 12.8 feet below top of casing (bTOC) in Well #1 and 14.9 feet bTOC in an observation well. Following approximately 8 hours of recovery, David Kunath (DGR) noted that the aquifer was not recharging as anticipated. Drawdown data from the production well measured after approximately 90-minutes into the test were somewhat erratic. No reason was given. The observation well data were more consistent. Kunath noted that prolonged pumping at the tested rate would result in water levels reaching the top of the well screen. DGR evaluated the test data and calculated transmissivity of 58,000 to 88,000 gallons per day per foot. DGR concluded that the well should not be pumped more than 250 gpm.

May 1977 Correspondence

A letter from Mr. Keith Harner, SD DENR, and dated 5/9/1977 responded to Mr. David Kunath's (DGR) 4/23/1977 [likely 4/28/77] memo. Mr. Harner suggested that a more complete well test be conducted and that the graphs presented are insufficient to draw any definitive conclusions. Mr. Harner mentioned that some boundary conditions may exist and suggested a detailed 72-hour pumping test.

Mr. Kunath's (Memo 5/25/77) stated the most "open" gravel was found along a transect going through test holes #13, 6, 5, 14, 4, and 3, and should extend under the river. There is approximately 18 to 22 feet of saturated material. Mr. Kunath indicates that wells at test holes #13 and 14 should provide 500 to 600 gpm [cumulative].

May 31 to June 1, 1979 Aquifer Pumping Test

Water level data is provided for a test that was conducted 5/31/1979 to 6/1/1979 using Well #2 as the pumping well and Observation Wells 1, 2, 3, 4, 5, 6, and 7 and Well #3 as observation wells. Observation data is sparse.

There is a map, and distance measurements from the pumping well to the observation wells are indicated on the field sheets. It appears that the pumping rate started at approximately 450 gpm and decreased to approximately 300 gpm within the first 10 minutes of the test. The test was 26 hours and 35 minutes, followed by nearly 7 hours of recovery. No quantitative test analysis was provided.

June 4-6, 1979 Aquifer Pumping Test

Water level data is provided for a test that was conducted 6/4/1979 to 6/6/1979 using Well #1 and #2 as the pumping wells and Observation Wells 1, 2, 3, 4, 5, 6, and 7 as observation wells. Observation data is sparse and there is little documentation as to pumping rates and times/durations. There is a map showing locations of the pumping wells and the observation wells. There is conflicting information as to whether the rate was 330 gpm or 200 gpm and from which well. ~~No quantitative test analysis was provided.~~

Laboratory Chemical Analysis

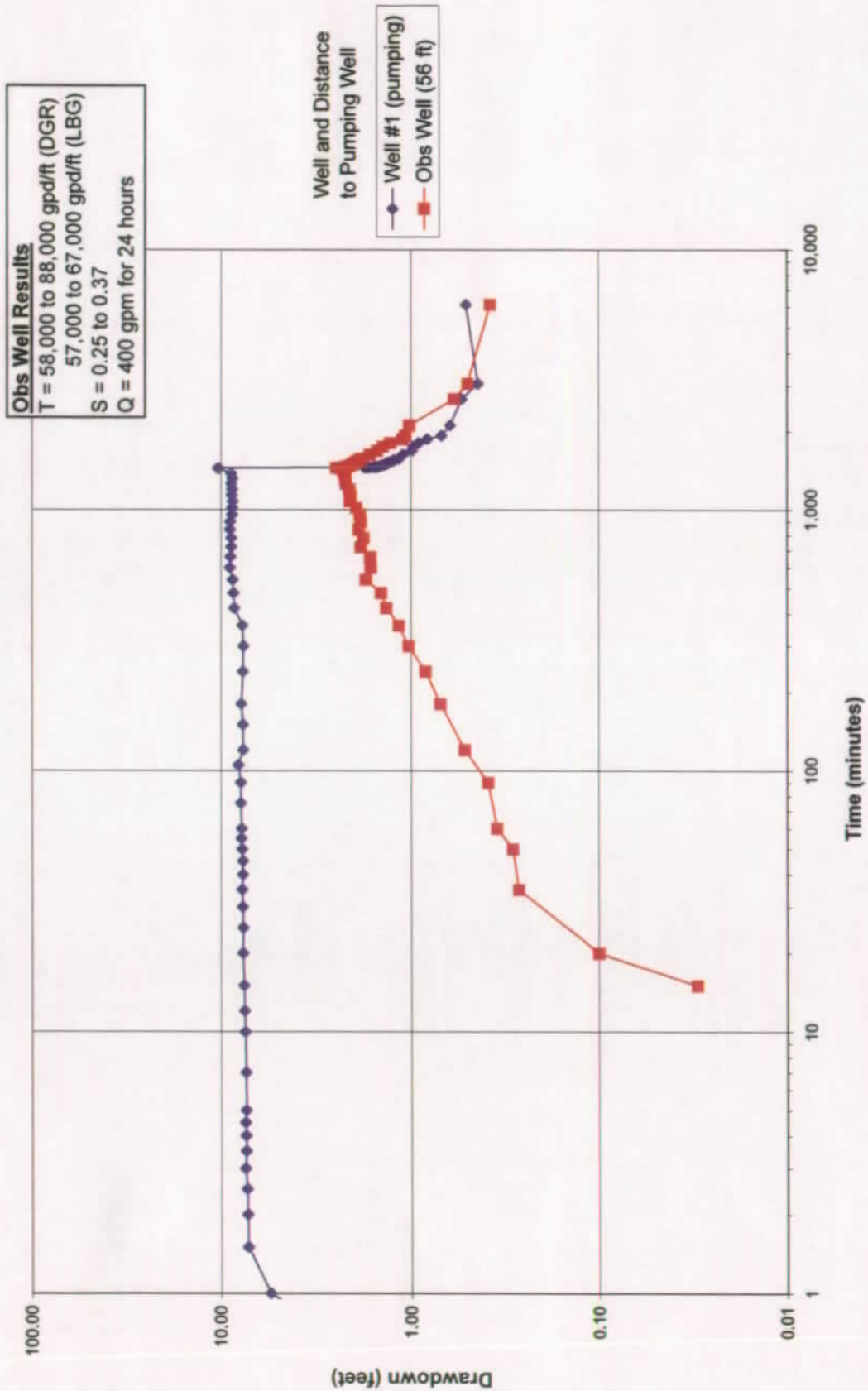
Chemical analysis of groundwater samples collected from Well #1 after 5 and 24 hours into the April 1977 aquifer test were provided. April 1977 water sample analysis from Brandon and Harrisburg were provided. Other chemical analysis from Well #1 on 4/21/81 were also provided.

Please contact me if you have any questions.

S:\Tech\DGR - Lincoln\Big Sioux Aquifer\Big Sioux Aquifer DGR Info Memo.doc

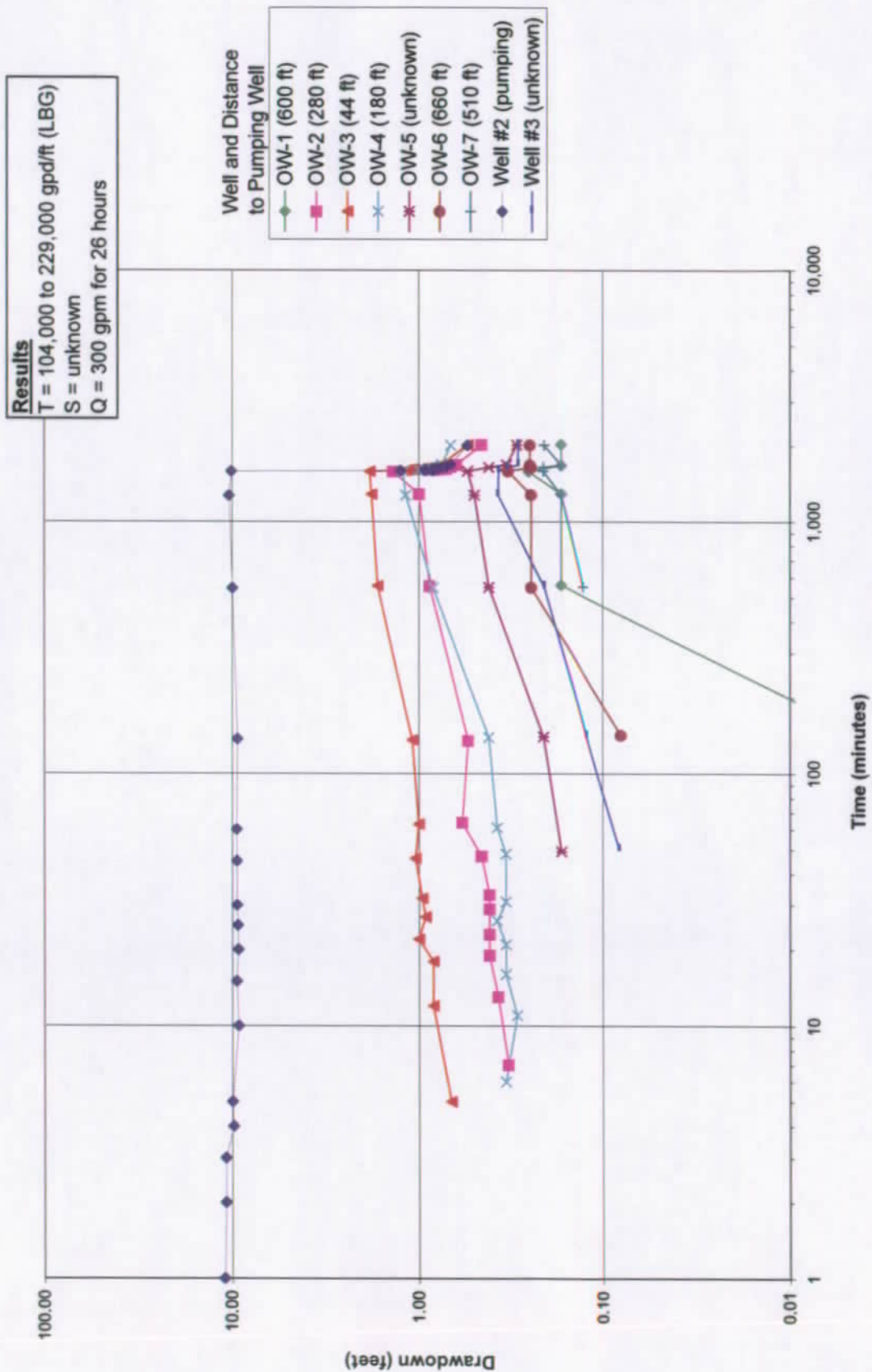
LINCOLN COUNTY RURAL WATER
LINCOLN COUNTY, SOUTH DAKOTA

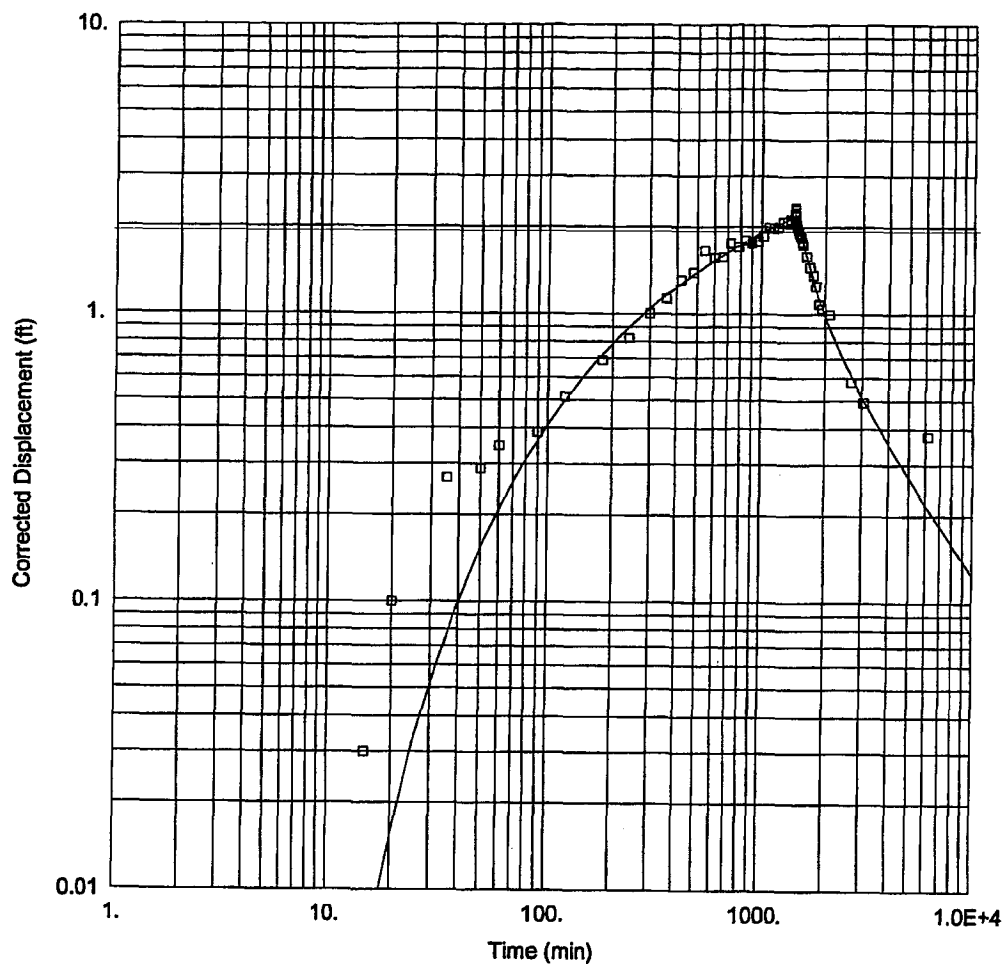
WELL #1 AND OBSERVATION WELL (LOG-LOG)
APRIL 11-15, 1977 AQUIFER TEST



LINCOLN COUNTY RURAL WATER
LINCOLN COUNTY, SOUTH DAKOTA

OBSERVATION WELLS
MAY 31 TO JUNE 1, 1979 AQUIFER TEST





WELL #1 PUMPING - OBS WELL OBSERVING

Data Set: S:\Tech\DGR - Lincoln\Big Sioux Aquifer\Obs-1977-test-unconf-theis.aqt
 Date: 12/11/07 Time: 12:58:53

PROJECT INFORMATION

Company: LCRW/DGR
 Client: LCRW/DGR
 Project: LCRW
 Location: Lincoln Co., SD
 Test Well: Well #1
 Test Date: April 11-12, 1977

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Well #1	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ Obs	56	0

SOLUTION

Aquifer Model: Unconfined

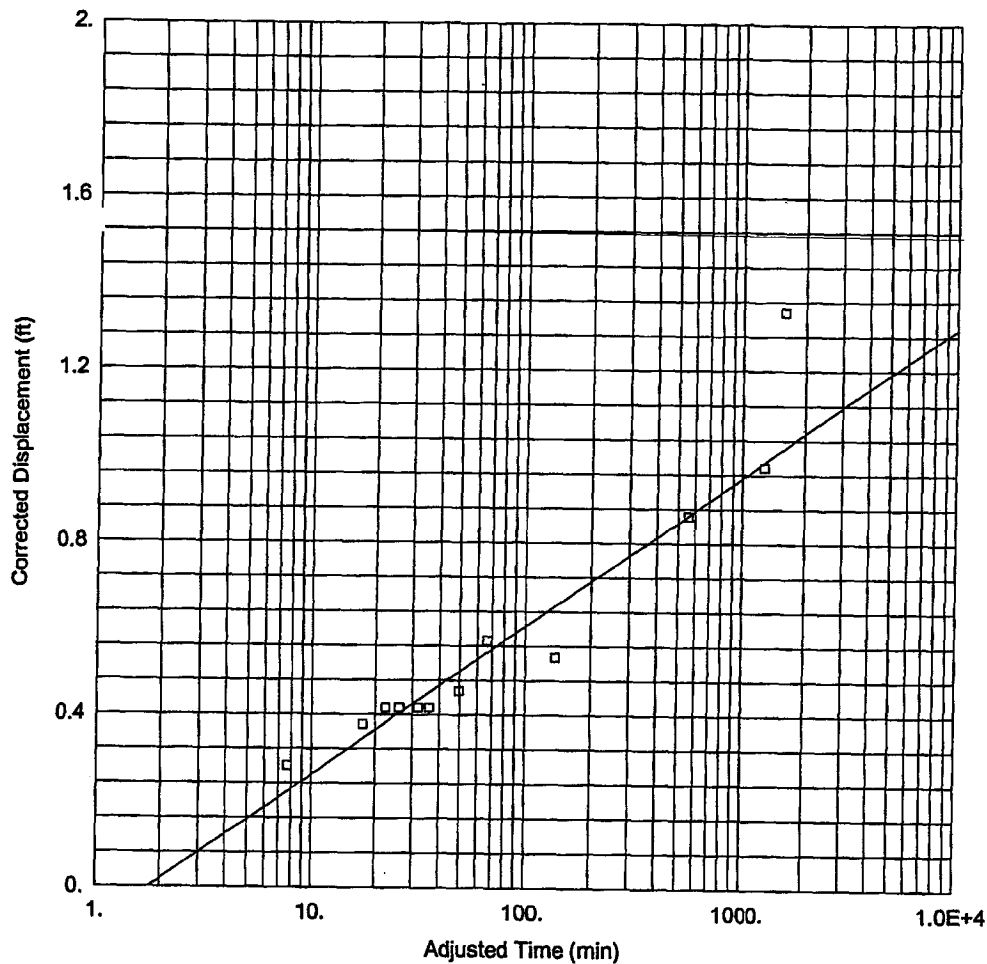
Solution Method: Theis

T = 5.751E+4 gal/day/ft

S = 0.367

Kz/Kr = 1.

b = 21. ft



WELL #2 PUMPING - OW-2 OBSERVING

Data Set: S:\Tech\DGR - Lincoln\Big Sioux Aquifer\OW-2-1979-test-unconf-cooper-jacob.aqt
 Date: 12/11/07 Time: 13:00:24

PROJECT INFORMATION

Company: LCRW/DGR
 Client: LCRW/DGR
 Project: LCRW
 Location: Lincoln Co., SD
 Test Well: Well #2
 Test Date: May 31 - June 1, 1979

AQUIFER DATA

Saturated Thickness: 22. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Well #2	0	0	OW-2	280	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 2.288E+5 gal/day/ft S = 0.001081

Approximate distances between wells in feet:

	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6
Well #1	0	575	1114	2139	3163	4136
Well #2	575	0	557	1584	2627	3571
Well #3	1114	557	0	1197	2256	3110
Well #4	2139	1584	1197	0	1060	2005
Well #5	3163	2627	2256	1060	0	1138
Well #6	4136	3571	3110	2005	1138	0

Interference effect between wells

(Assumptions: Drawdown at each well due to pumping. $T = 88,000$ gpd/ft. Well #1 at 225 gpm. Well #2, 3, 4, 5, and 6 at 215 gpm. All of which are approximately 80% efficient)

	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6
Well #1	na	1.46	1.08	na	na	na
Well #2	1.40	na	1.41	na	na	na
Well #3	1.03	1.41	na	na	na	na
Well #4	na	na	na	na	1.06	0.71
Well #5	na	na	na	1.06	na	1.02
Well #6	na	na	na	0.71	1.02	na

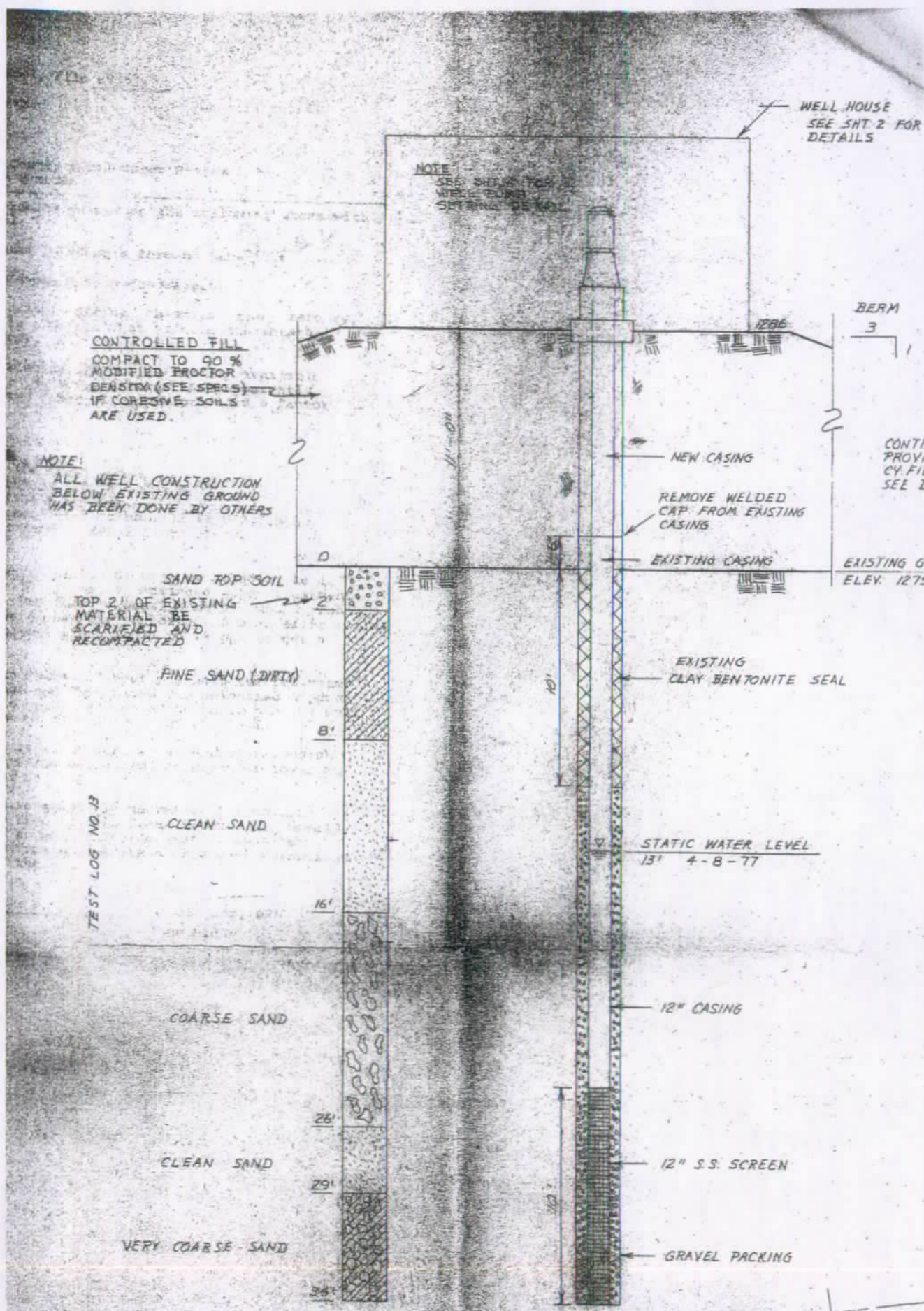
Cumulative interference

All wells pumping simultaneously at the rates specified in the above assumptions. Assumes a saturated thickness of 20 feet and a 60% reduction in head (12 feet). Also assumes all wells are hydraulically connected and no positive boundaries from the river.

	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6
Maximum Drawdown in well (ft)	9.4	9.6	9.2	8.5	8.8	8.4
Saturated Thickness	20.0	20.0	20.0	20.0	20.0	20.0
Available Drawdown*	12.0	12.0	12.0	12.0	12.0	12.0

Notes:

*: Available drawdown assumes 20 feet of saturated thickness and allowing for 60% reduction in head.
na: not applicable, assumes no connection with other wellfield.



CONTROLLED FILL
COMPACT TO 90%
MODIFIED PROCTOR
DENSITY (SEE SPECS)
IF CORROSIVE SOILS
ARE USED.

NOTE:
ALL WELL CONSTRUCTION
BELOW EXISTING GROUND
HAS BEEN DONE BY OTHERS

SAND TOP SOIL
TOP 2' OF EXISTING
MATERIAL BE
SCARIFIED AND
RECOMPACTED

FINE SAND (DIRTY)

CLEAN SAND

COARSE SAND

CLEAN SAND

VERY COARSE SAND

NOTE
SEE SHEET FOR
WELL PLAN
SPACING DETAIL

WELL HOUSE
SEE SHT 2 FOR
DETAILS

BERM
3

CONT.
PROV.
CY. FILL
SEE 2

EXISTING G
ELEV. 127.5

NEW CASING

REMOVE WELDED
CAP FROM EXISTING
CASING

EXISTING CASING

EXISTING
CLAY BENTONITE SEAL

STATIC WATER LEVEL
13' 4-8-77

12" CASING

12" S.S. SCREEN

GRAVEL PACKING

WELL CROSS SECTION
SCALE 1/4" = 1'-0"

REC'D JUN 4 1979

File 24320

Well Design File

~~DPK~~

~~DK~~

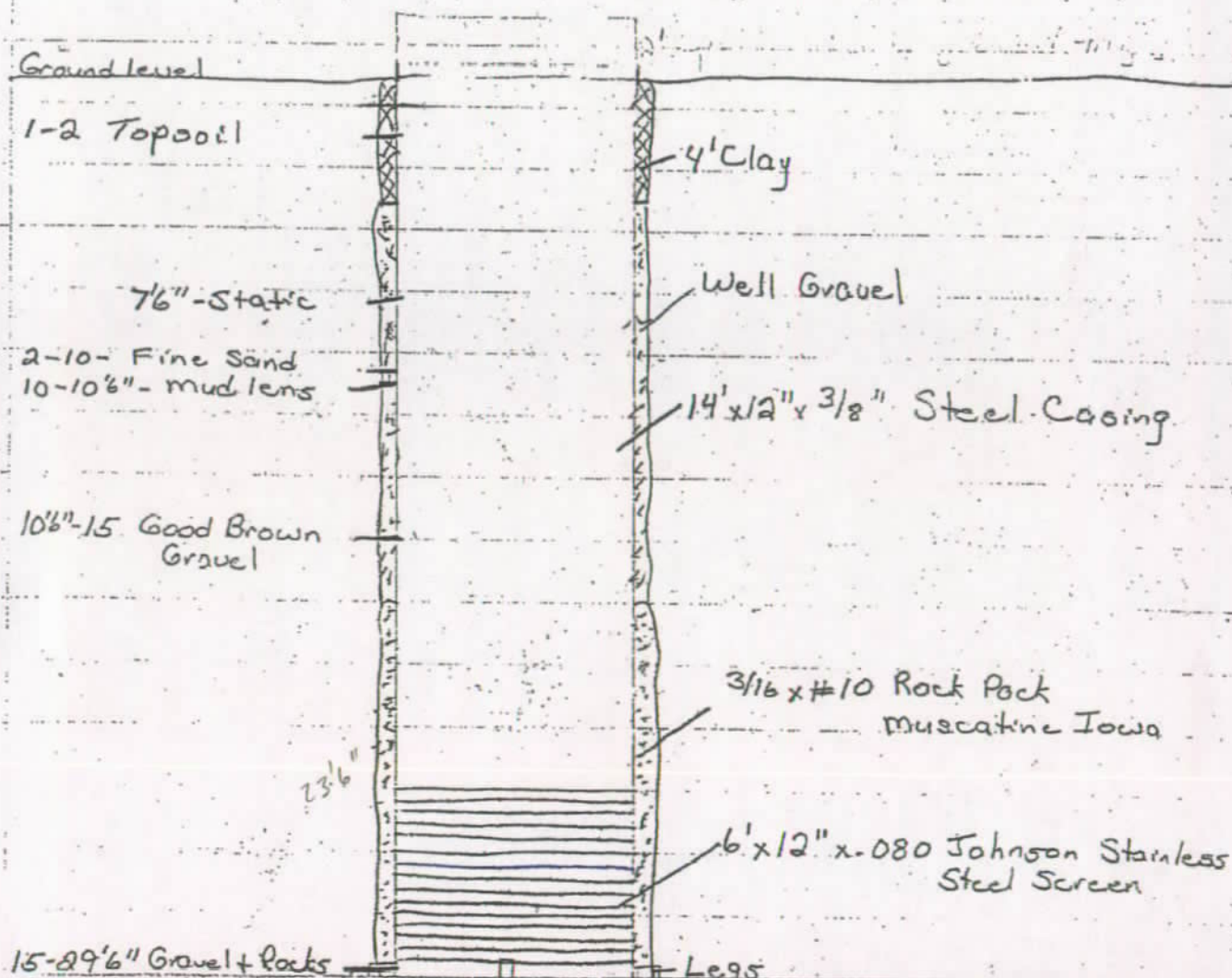
May 31, 1979

As-Built

N. Lincoln RWS Well # 2

Done: May 23, 1979

By: Jim Hacey



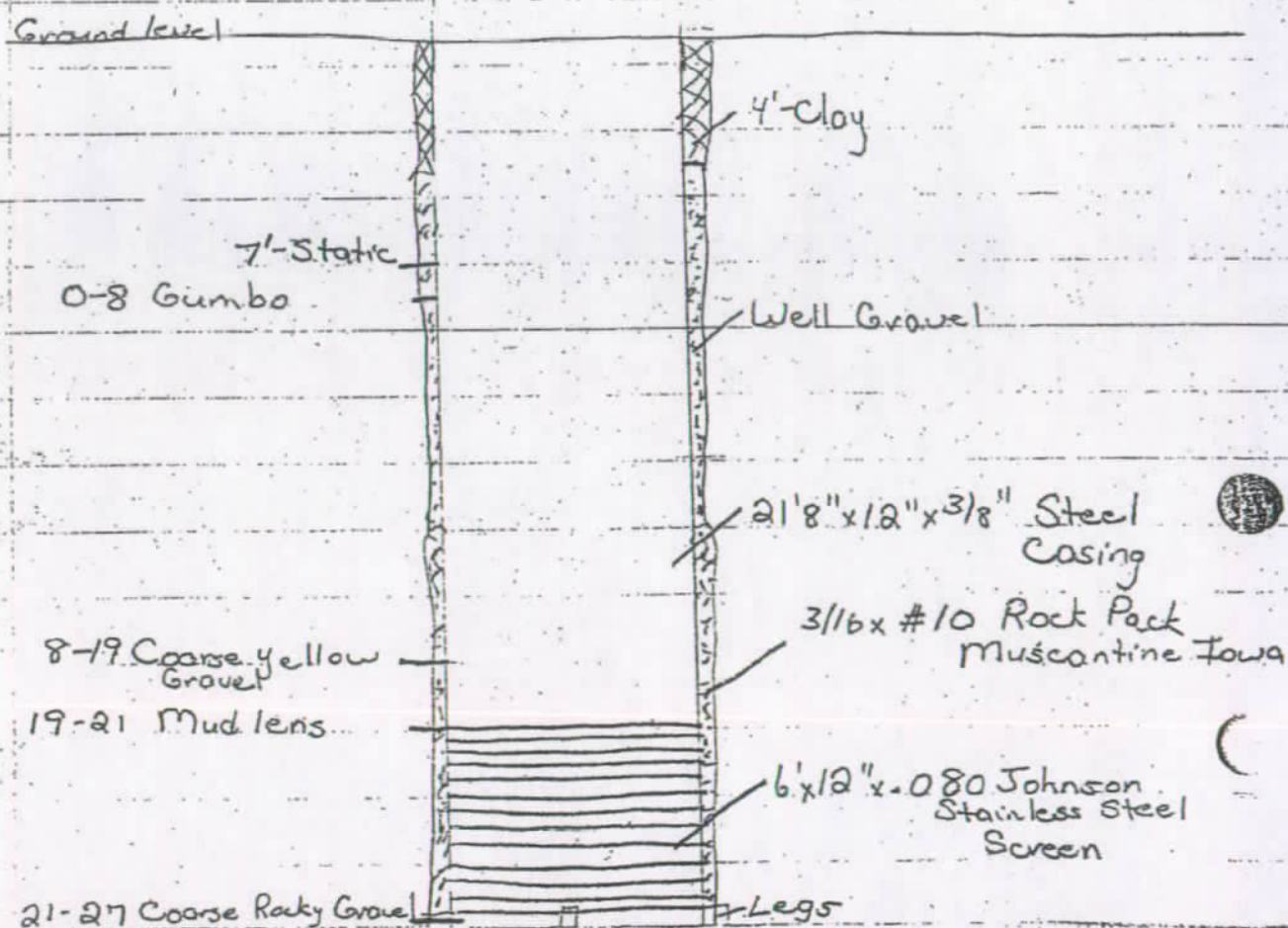
As-Built

May 31, 1979

N. Lincoln RWS Well #3

Done: May 24, 1979

By: Jim Lacey



Address James J. Long 6-10-79
Signed By _____ Date _____

Address

If other; specify

North

Mark location
with an "X"

County

SE 1/4 NE 1/4 SE 1/4 Sec. 11 Twp. 100N Rg. 49W

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

☐ Forward Rotary ☒ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

If other, specify

9.2

11	01	01	10	01
----	----	----	----	----

Depth

From

To

4

19

19

21

21

27

1000

(Use Back if Necessary)

Date Completed: 5-24-79

Driller's or Firm's Name

License NO

Address

1

Signed By

6-10-79

Date

Remarks:

Lot 19 11 & 14 100-N 49-W

Location of well: 1/4 1/4 Section 11 & 14 Township 100-N Range 49-W

Well owner Roger Steward Baher Park Estates, Lincoln County, Sioux Falls, S. D.
(Name) (Address)

Date well drilling completed 5-5-78 Purpose of well (domestic, irrigation, municipal, industrial, other)

[illegible]

Depth to top of water producing aquifer 28 ft.

Depth to static water level _____ 0 _____ ft.

Name of producing aquifer (if known) Sioux Quartz

Total depth of drill hole _____ 60 _____ ft.

Depth to bottom of casing 29-3 ft.

Casing information: In the space below show kind, size, weight, length per diameter, etc., for production casing and surface casing, if used.

29 Ft. of 65/8 OD Sced. 40 T & C black steel pipe.

Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.

If a flowing well, flow of completed well _____ g.p.m.

Attach sheet if more space is needed

Graves Drilling, Inc.

Name of Drilling Contractor

Company name and size of pump SD 12-50 Aerometer HP 1/2
Type of pump Sub. Capacity of installed pump 12 G.P.M.
Depth of pump placement 50 ft., Date of pump installation 5-9-78

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

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

Graves Drilling, Inc.

Name of Pump Installation Contractor

10-85

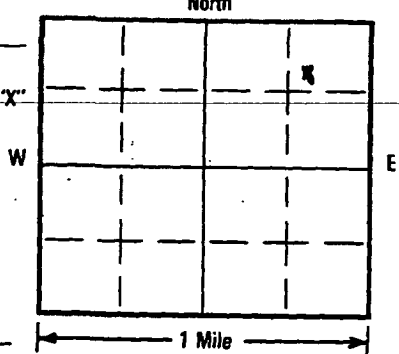
1-29-92

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 NE 1/4 Sec 14 Twp 10N Rg 49W
County LINCOLN

Please mark well location with an "X"



Well Completion Date

May 18, 1991

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 500 ft. from Abandoned well (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 250# PVC

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT <u>5</u>	IN <u>5</u>	FT <u>0</u>	FT <u>25</u>	IN <u>8.25</u>
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>		lb./gal <u>6</u>	ft. <u>13</u>	ft. <u>13</u>
<u>Portland Cement</u>		lb./gal <u>13</u>	ft. <u>14</u>	ft. <u>14</u>

Describe grouting procedure Terminal

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 5 IN Length 10 FEET

Material PVC

Slot Size .035 Set From 15 Feet to 25 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: chlorine pellets

Laboratory sent to for water quality analysis

☐ NO. Why Not?

Well Owner: MIKE + KATHY Fiegan

Business Name:

Address: 26920 BAKER PARK PLACE
SIOUX FALLS, SD 57108

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>DK BRN Alluvium</u>	<u>0</u>	<u>4</u>
<u>Sand</u>	<u>4</u>	<u>12</u>
<u>COARSE GRAVEL</u>	<u>12</u>	<u>25</u>
<u>CLAYstone, gray (KSRc?)</u>	<u>25</u>	<u>35</u>

STATIC WATER LEVEL 6 Feet

If flowing: closed in pressure NA 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: pumped w/ 2" Centrifugal

☐ Bailed @ 60 gpm

☐ Other

Pumping Level Below Land Surface

14 ft. After 1 Hrs. pumped 60 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 666

And this report is true and accurate.

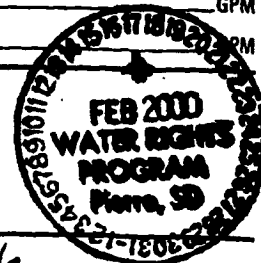
Drilling firm Hammock-WIT more Drilling

Signature of License Representative:

RN Hammock

Signature of Well Owner or Equitable Property Holder:

Mike Fiegan



5-15-90

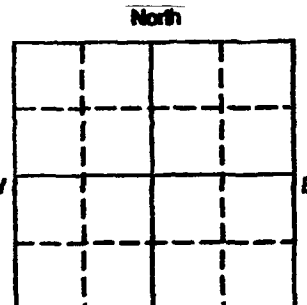
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 45W 11 100 49

County Lincoln

Please mark well location with an "X"



Well Completion Date 1-12-07

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.) N/A (Identify source)

PROPOSED USE: ☒ Domestic Stock Irrigation ☐ Municipal Industrial ☒ Large Thermal ☐ Business Institutional ☐ Test Holes Monitoring well

METHOD OF DRILLING: Rotary Mud

CASING DATA: ☐ Steel ☐ Plastic ☐ Other

If other describe 3/4" geo-thermal pipe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/ft	0 ft	102 ft
B.H. Grout	4	9.5		

Describe grouting procedure

SCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information

WAS A PACKER OR SEAL USED? ☐ Yes ☐ No

If so, what material? _____

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____

☐ No, Why Not? _____

Lab sample sent to for water quality analysis

Well Owner: Melanie Madsen

Business Name: 5601 Frontier Trail-mail

Address: 26893 Baker Park Place

City, State, Zip: Sioux Falls, SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Yellow Clay	0	35
Blue Clay	35	102

STATIC WATER LEVEL _____ FEET

If flowing, closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

_____ ft. After _____	Hrs. pumped _____	GPM _____
_____ ft. After _____	Hrs. pumped _____	GPM _____

If pump installed, pump rate: _____ GPM

REMARKS: 16 holes @ this site

This well was drilled under license # 296

And this report is true and accurate.

Drilling firm: Chase Drilling, Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: Melanie Madsen

Date: 1/18/07

10-50-07

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 12/17, 2007

RECEIVED OF Lincoln Co Rural Water System Inc PO Box 36 Harrisburg SD 57032

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

Fee for Application for Permit No. <u>6924-3</u> to Appropriate Water, to construct and to put water to beneficial use	475	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>6924-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	525 00

No. 03271

By [Signature]
Chief Engineer

[Signature]

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER AND ENVIRONMENTAL ENGINEERING SERVICES

140 EAST HINKS LANE, SUITE 126
SIOUX FALLS, SD 57104
605-334-6000
FAX 605-334-1850
www.lbgweb.com

RECEIVED

DEC 17 2007

**WATER RIGHTS
PROGRAM**

December 13, 2007

Mr. Garland Erbele, PE
Chief Engineer
Water Rights Program, DENR
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

RE: Water Right Permit Application
Lincoln County Rural Water System, Inc.
Harrisburg, SD

Dear Mr. Erbele:

Enclosed are two copies of a water permit application prepared by Leggette, Brashears & Graham, Inc. (LBG) and DeWild, Grant, Reckert and Associates (DGR) on behalf of Lincoln County Rural Water System, Inc. (LCRW). The permit application is for the Big Sioux Aquifer in the area of the existing LCRW Well #1 which is authorized to pump 0.5 cubic feet per second (cfs), or 225 gallons per minute (gpm) under Water License #3454-3. Also enclosed is a check in the amount of \$525.00 for the permit application filing fees.

The area for which the new water right is being sought is in Sections 11, 12, 13 and 14 of Township 100 North, Range 49 West in Lincoln County. LBG requested well construction logs for existing wells in these four sections from Water Rights Program staff. Six well construction logs were provided to LBG. Two of these wells, LCRW#2 and LCRW#3 are test wells constructed by LCRW during testing conducted in 1976 through 1979.

Three of the well logs are for domestic wells constructed for Mr. Tom Krueger, Mr. Roger Steward, and Mr. and Mrs. Mike and Kathy Fiegen. Mr. Krueger's residence is served by LCRW. His well is completed in the Sioux Quartzite, and is reportedly utilized for lawn watering/irrigation and to maintain water levels in a small, man-made lake on his property. The

well constructed for Mr. Steward is also completed in the Sioux Quartzite. While it appears that Mr. Steward no longer lives at the residence where the well was constructed, the residence is served by LCRW and the well is likely utilized for lawn-watering/irrigation.

The well constructed at the Fiegen residence appears to be completed in the Big Sioux aquifer. The Fiegen residence is also connected to LCRW and the well is therefore likely utilized for lawn watering/irrigation. One of the six well logs obtained from Water Rights Program is for a geothermal heating system (Melanie Madsen). Copies of the six well logs are attached to the enclosed water permit application.

LBG has conducted a review of the data produced from testing conducted in the mid-to-late 1970's at the site. Based on our review of the data, the likely range of aquifer transmissivity (T) at the site is from 58,000 gallons per day-ft (gpd/ft) to over 200,000 gpd/ft, and the storage coefficient (S) range is from 0.2 to 0.37. Average saturated thickness at the site is approximately 20 feet.

LBG conducted a well interference analysis to provide information regarding well spacing. To provide a conservative estimate, LBG conducted the well interference evaluation with a T of 88,000 gpd/ft and a value of 0.2 for S. The well interference evaluation included a total of six wells pumping a total of 1,300 gpm (225 gpm from license #3454-3) and 1,075 gpm from five additional wells (215 gpm each) representing the approximate peak diversion rate of the requested water appropriation. LBG set the allowable cumulative drawdown of approximately 10 to 12 feet thereby keeping water-levels above the top of the well screens. Based on the results of the well interference analysis and the configuration of the river valley, the locations of the proposed diversion points (wells) are intended to minimize the potential for cumulative interference.

A memo prepared by LBG summarizing the testing data and an analysis of the 1977 and 1979 aquifer test data are attached to the water right application. The approximate locations of the proposed diversion points and other wells in the area are shown in Figure 1 (which is attached to the enclosed water right permit application).

December 13, 2007

Please contact Mitch Kannenberg at (605) 334-6000 or Dave Hume at (651) 490-1405, extension 207, with any questions regarding the information provided in this letter or the water permit application.

Sincerely,
LEGGETTE, BRASHEARS & GRAHAM, INC.

Dave Hume
mh

Dave Hume
Senior Associate

Mike Plante
mwk

Mike Plante
Senior Hydrogeologist

Mitch Kannenberg

Mitch Kannenberg, PE
Associate



G:\...hydro\Big Sioux App Cover Letter2

Enclosures

Water Permit Application (2-Copies)
Check from LCRW in the amount of \$525.00

pc: Mr. Robin Dykstra, Manager, LCRW – with copy of application
Mr. Gordon Krause, DGR – with copy of application
Mr. Dave Hume, LBG, St. Paul – with copy of application



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 11, 2008

Mitch Kannenberg, PE
LBG
140 East Hinks Lane, Suite 126
Sioux Falls SD 57104

Mr. Kannenberg:

Enclosed is a copy of the report, recommendation and public notice for Water Permit Application No. 6924-3 filed by Lincoln Rural Water System. The public notice is scheduled to be published February 21st and 28th in the Argus Leader and Sioux Valley News.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6924-3, 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. 6924-3, Lincoln Rural Water System, Inc., c/o Roger Lamp, Chairman, PO Box 36, Harrisburg SD 57032.

The Chief Engineer is recommending APPROVAL of Application No. 6924-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is 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. The wells authorized by Permit No. 6924-3 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) pursuant to Section 74:02:04:28.
3. Permit No. 6924-3 is limited to the five wells located in the SW $\frac{1}{4}$ Section 12 and the W $\frac{1}{2}$ Section 13, T100N, R49W as shown on the attached map.
4. Lincoln Rural Water System shall report to the Chief Engineer of the Water Rights Program the amount of water withdrawn each year from the Big Sioux:South Aquifer.

See report on application for additional information.

Garland Erbele, Chief Engineer
February 8, 2008

NOTE: The staff report prepared by Jim Goodman states that due to the aquifer's relatively thin saturated thickness in this area a prolonged drought may impact the ability of the wells to produce the desired amount.

REPORT ON WATER PERMIT APPLICATION NO. 6924-3
For Lincoln County Rural Water System
January 31, 2008

Application No. 6924-3 proposes to appropriate 2.5 cfs (1,344 acre feet annually) from five to seven wells approximately 30 feet deep located in the SW $\frac{1}{4}$ of section 12, W $\frac{1}{2}$ of section 13, SE $\frac{1}{4}$ of 11 and the NE $\frac{1}{4}$ of section 14; all in T100N R49W in Lincoln County. Only those portions of sections 11, 12 and 13 lying within South Dakota are part of the advertised area. The water is used by the rural water system in Lincoln and Minnehaha Counties.

AQUIFER – BIG SIOUX SOUTH (BS-S)

The Big Sioux South is a surficial outwash (sand and gravel) that underlies 15,600 acres and contains an estimated 70,200 acre-feet of recoverable water in storage in Lincoln County (Hedges, 1982). The aquifer appears to be under water table conditions in the area of this application. The aquifer extends to the north into Minnehaha County and to the south into Union County. The aquifer also is hydraulically connected to the Big Sioux River and also underlies the river floodplain on the Iowa side of the river. Ground water movement is from north to south (Niehus, 1994). Niehus also points out that the Schindler and Newton Hills aquifers both potentially discharge water into the Big Sioux aquifer in Lincoln County. The area of this proposed application is upstream of the leakage from the Schindler aquifer and should not be affected by this.

A study of the Big Sioux aquifer in Lincoln and Union counties indicates that the aquifer under the stress of drought would be unable to support current irrigation withdrawals in Lincoln and Union Counties (Niehus, 1998). This study also reported an average recharge rate of about 7.54 inches per year. The results of this study do not in my opinion indicate that the aquifer is fully appropriated or that the aquifer is incapable of producing the amount of water permitted. These permitted users realize that there is no absolute guarantee water in the amount needed will be available in perpetuity.

These proposed wells are located within a few hundred feet of the Big Sioux River. Niehus reported the average flow of Big Sioux River at North Cliff Avenue to be 523 cfs and the average flow at Akron to be 1,030 cfs (Niehus, 1994). These diversions could have an impact upon river flows but the flows are considerably larger than this proposed diversion. Any potential impact should be minimal.

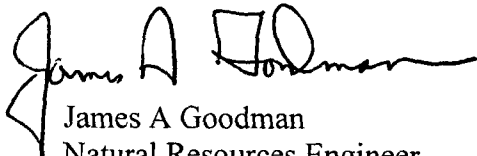
The Water Rights Program monitors two observation wells in the Big Sioux South aquifer in this general area. MA-80CA is located about three miles north of this application and LN-57A is located about 8 miles south of this application. Water levels for these observation wells respond closely to climatic conditions. Water levels rise during wet conditions (recharge) and gradually declining during dry periods. In general the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2008). Hydrographs for these observation wells are included with this report. Note the relatively quick response to wet weather shown by the rising water levels and then the overall decline due to drought. The total magnitude of fluctuation approaches 10 feet from the highest to lowest but generally the water levels remain at the higher levels for a short time period.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

Lincoln Rural Water System has a Water Right No. 3454-3 (0.50 cfs, one well, 44 feet deep) located in the immediate area of this application. The volume for this license is not quantified. The nearest proposed well to this existing well is about 500 feet to the south. ~~At this distance drawdown would occur but at these proposed pumping rates this should not be significant.~~ Interference will occur but should not be adverse. More to the point, during an extended drought when the water table would decline below normal levels well yields could decrease noticeably. This would be primarily because of the decrease in saturated thickness of the aquifer and not because of pumping impacts.

CONCLUSIONS

1. Water is available from the Big Sioux South aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping should not be significant at this proposed distance between wells and at the proposed pumping rates.
3. The wells authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. A prolonged drought could seriously impact the ability of these wells to produce the amount of water requested. This is primarily because of the relatively thin saturated thickness in this area. Because of the close proximity of the Big Sioux River the stage of the river will impact water levels in the aquifer. As long as there is flow in the river the impacts should be minimal. Generally ground water flow is toward the river but as the stage of the river declines the ground water level drops with it.

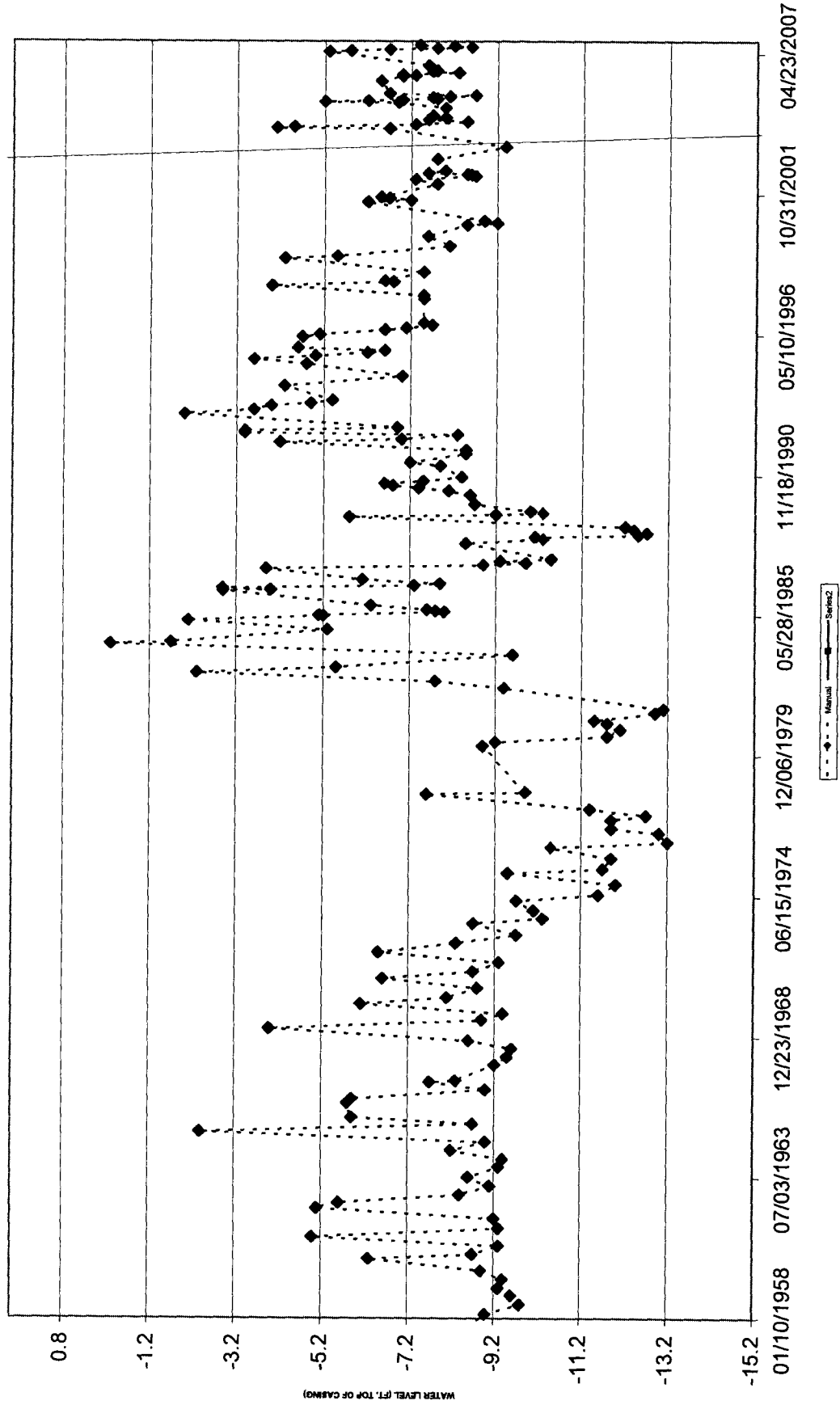


James A Goodman
Natural Resources Engineer

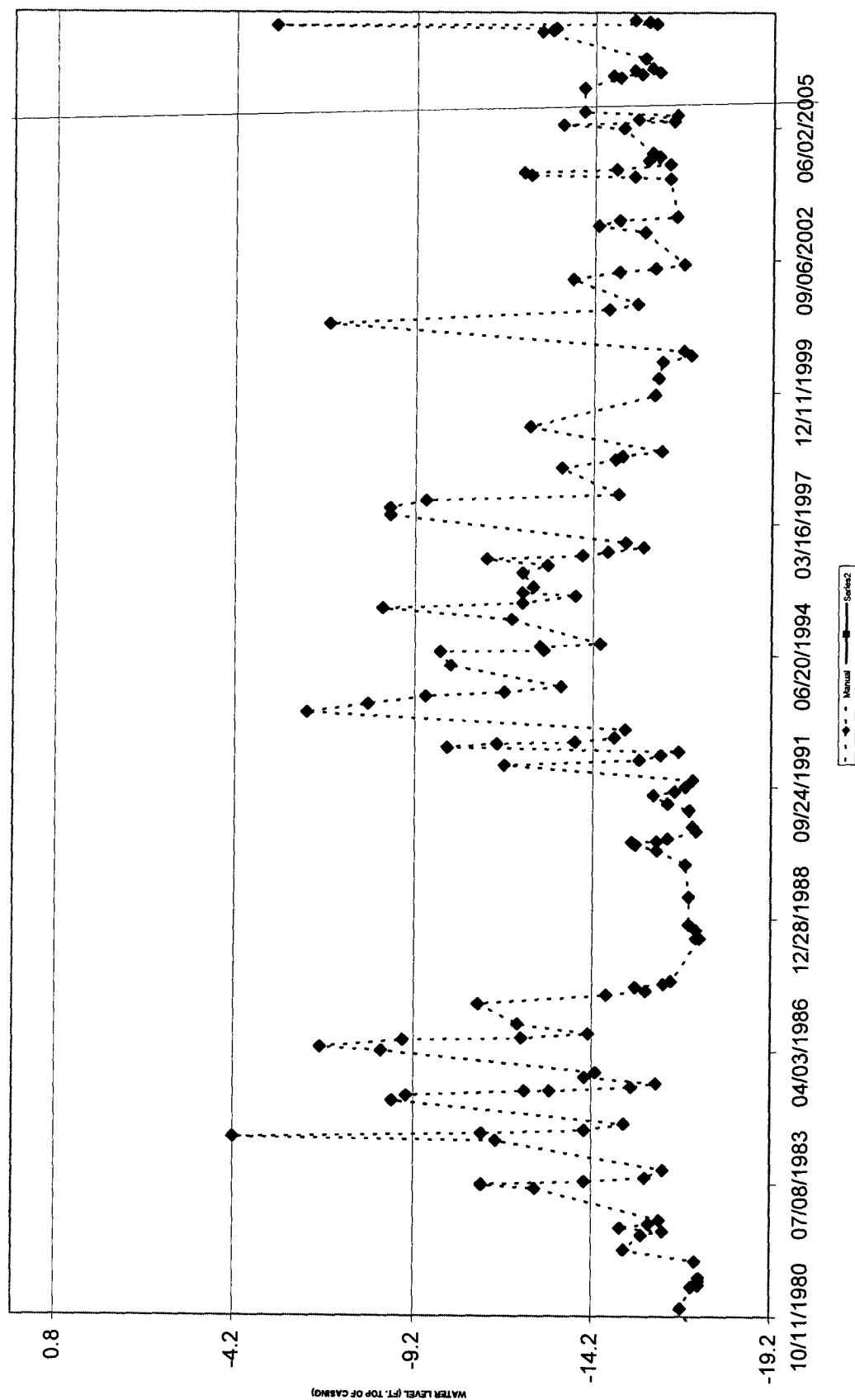
BIBLIOGRAPHY

- Hedges, L.S, and others, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota 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, Water-Resources Investigations Report 93-4195, USGS, Rapid City, SD, 57702.
- Niehus, C.A., R.F. Thompson, 1998, Appraisal of the Water Resources of the Big Sioux Aquifer, Lincoln and Union Counties, South Dakota, Water-Resources Investigations Report 97-4161, USGS, Rapid City, SD, 57702.
- Water Rights, 2008, Unpublished Observation Well Data for the Big Sioux South aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
LN-57A



WATER RIGHTS' OBSERVATION WELL
MA-80CA



AFFIDAVIT OF PUBLICATION-
Customer Number: 078200
Invoice Number: 1104744

RECEIVED

MAR - 3 2008

WATER RIGHTS
PROGRAM

Argus Leader
AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

Betty Jones 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

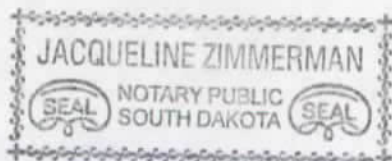
Thursday the 21 day of February 2008 ,
Thursday the 28 day of February 2008 ,
_____, the _____ day of _____ 2008
_____, the _____ day of _____ 2008 ,
_____, the _____ day of _____ 2008 ,
_____, the _____ day of _____ 2008 ,
_____, the _____ day of _____ 2008 ,

and that \$110.73 was charged for publishing the same

Betty Jones
Subscribed and sworn to before me 2/28/2008

J. Zimmerman
Notary Public, South Dakota

My Commission expires December 22, 2009



State Notices

NOTICE OF APPLICATION

NO. 6924-3

to Appropriate Water

Notice is given that Lincoln County Rural Water System, Inc., c/o Robin Dykstra, Manager, PO Box 36, Harrisburg SD 57032 has filed an application for a water permit to appropriate 2.5 cubic feet of water per second (1,344 acre feet annually) from five to seven wells to be completed into the Big Sioux-South Aquifer (approximately 30 feet deep) located in SW 1/4 Section 12, W 1/2 Section 13, SE 1/4 Section 11 and NE 1/4 Section 14, all in T100N-R49W for rural water system use in Lincoln and Minnehaha Counties. The wells will be in the portion of these sections within South Dakota.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6924-3 because 1) unappropriated water is available, 2) existing rights will not be unreasonably 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 this 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 this 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 recommendations 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 March 10, 2008.

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
1104744 Feb. 21 & 28, 2008

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

CONNIE RENLI

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 NO. 6924-3 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:

FEBRUARY 21, 2008
FEBRUARY 28, 2008

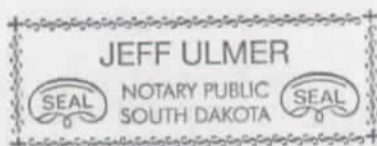
that the full amount of the fees charged for publishing the same to-wit: the sum of **\$38.13** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

Connie Renli

Subscribed and sworn to before me this **28th** day of **FEBRUARY, 2008.**

Jeff Ulmer
Notary Public, South Dakota

(Seal)



NOTICE OF APPLICATION NO. 6924-3 to Appropriate Water

Notice is given that Lincoln County Rural Water System, Inc., c/o Robin Dykstra, Manager, PO Box 36, Harrisburg SD 57032 has filed an application for a water permit to appropriate 2.5 cubic feet of water per second (1,344 acre feet annually) from five to seven wells to be completed into the Big Sioux: South Aquifer (approximately 30 feet deep) located in SW 1/4 Section 12, W 1/2 Section 13, SE 1/4 Section 11 and NE 1/4 Section 14; all in T100N- R49W for rural water system use in Lincoln and Minnehaha Counties. The wells will be in the portion of these sections within South Dakota.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6924-3 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 this 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 this application. Notice of the hearing will be given to the applicant and any person filing a petition.

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(2-21,28)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 11, 2008

Sioux Valley News
PO Box 255
Canton SD 57013

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6924-3 to Appropriate Water to be published twice. Please publish the first notice on February 21, 2008 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Lincoln County Rural Water System, Roger Lamp, PO Box 36, Harrisburg SD 57032 (Ph # 605-767-2966).

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. 6924-3

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

Date _____

We are in receipt of your letter of February 11, 2008 enclosing Notice to Appropriate Water by Application No. 6924-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 11, 2008

Argus Leader
PO Box 5034
Sioux Falls SD 57117

ATTENTION: Legal Public Notice

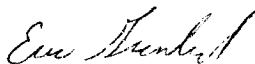
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After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving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

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 6924-3

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

Date _____

We are in receipt of your letter of February 11, 2008 enclosing Notice to Appropriate Water by Application No. 6924-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name _____

Newspaper _____



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
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 NEWSPAPER RIGHT AWAY.

February 11, 2008

Lincoln County Rural Water System
Roger Lamp
PO Box 36
Harrisburg SD 57032

Dear Mr. Lamp:

Water Permit Application No. 6924-3 for rural water system use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the following Publishers:

Argus Leader printed at Sioux Falls SD (PH# 605-331-2200) ✓ ✓
Sioux Valley News printed at Canton SD (PH# 605-764-2000) ✓ *correction* ✓

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 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 and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publishers have been instructed to publish your notice once each week for two consecutive weeks. The newspapers have also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish first Notice on February 21, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6924-3 to Appropriate Water

Notice is given that Lincoln County Rural Water System, Inc., c/o Robin Dykstra, Manager, PO Box 36, Harrisburg SD 57032 ~~has filed an application for a water permit to appropriate 2.5 cubic feet of water per second (1,344 acre feet annually) from five to seven wells to be completed into the Big Sioux:South Aquifer (approximately 30 feet deep) located in SW ¼ Section 12, W ½ Section 13, SE ¼ Section 11 and NE ¼ Section 14; all in T100N-R49W for rural water system use in Lincoln and Minnehaha Counties. The wells will be in the portion of these sections within South Dakota.~~

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6924-3 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 this 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 this 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 recommendations 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 March 10, 2008.

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 29 2008

Lincoln County Rural Water System Inc
PO Box 36
Harrisburg SD 57032

Dear Sir:

Enclosed is Water Permit No. 6924-3 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

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**Report of Examination of Works and/or Application of Water to Beneficial Use
For Permit No. 6924-3**

I have this day, April 22, 2023, made a thorough examination of the water use system constructed by Lincoln County Rural Water System, Inc, PO Box 36, Harrisburg, SD 57032 of Permit No. 6924-3, bearing the priority of December 17, 2007 authorizing the diversion of 2.5 cu. ft. per second of the waters of the Big Sioux:South Aquifer for rural water system use purposes, in Lincoln County.

1. All structures, wells and lands on map Y

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

The mailing address and the telephone number in the permit materials are current. Robin Dykstra is the current RWS manager.

Dakota BS: B

Basically, this permit review involves Permits 5156-3, 6924-3 and 7203-3.

The permits authorize the construction and use of up to seven (7) wells, however, the RWS only constructed one (1) well (see map) that is planned to be capped and not used in the future.

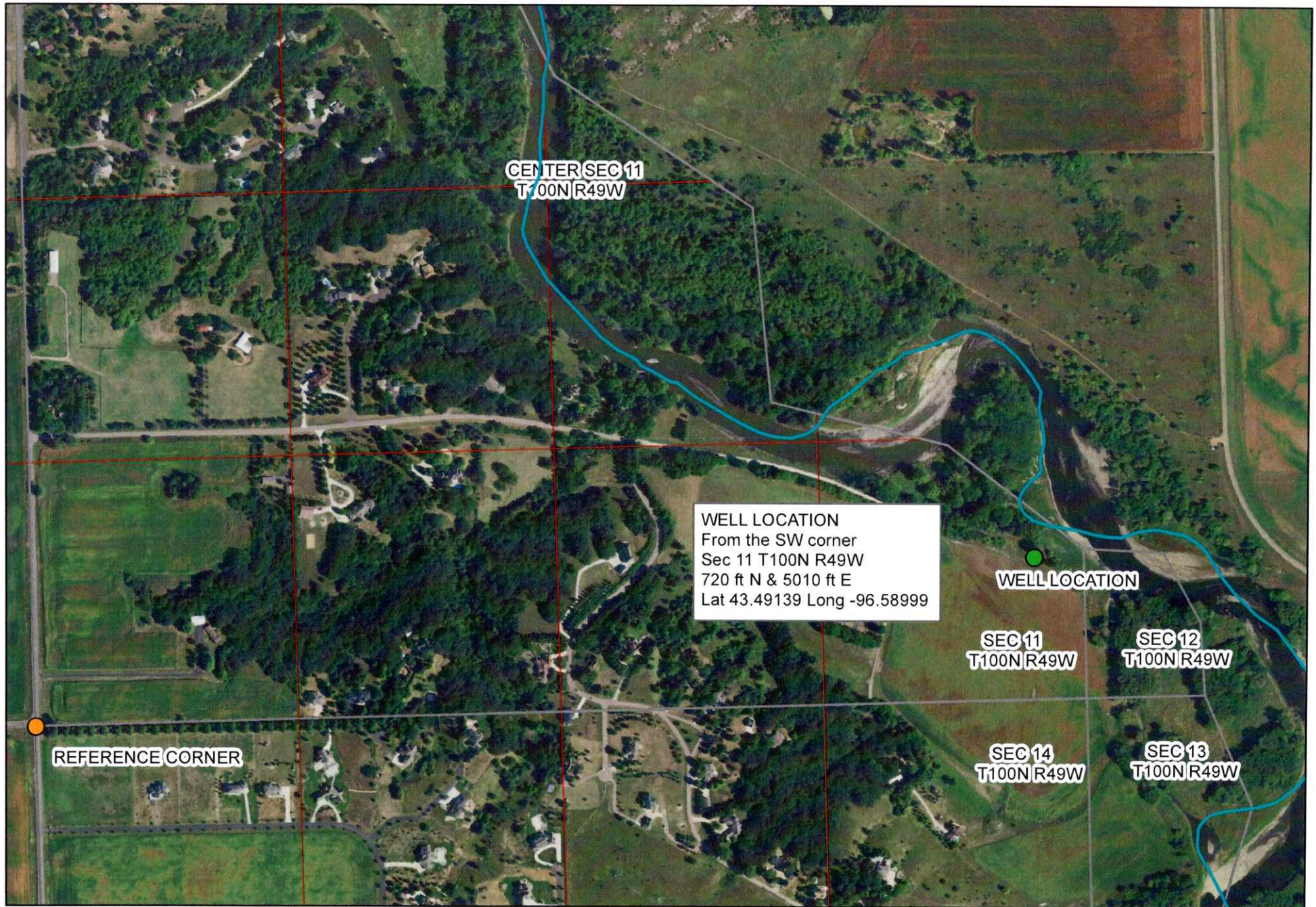
The RWS is connected to the Lewis & Clark System which is supplying them with service water.

authorized by No. 7203-3



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: April 25, 2023



0 0.075 0.15 0.3 0.45 0.6 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program

Dewell, Amanda

From: Dewell, Amanda
Sent: Wednesday, October 23, 2024 8:21 AM
To: DeBoer, Darrell
Subject: RE: [EXT] Water Permit No. 6924-3

Darrell,

I'm very sorry in that I apparently never responded to this email you'd sent. I will follow up with Mr. Dykstra in the spring of 2025 to allow the RWS plenty of time to place the pump back in the well, at which time it can be used/claimed as a "backup source". If by that time they have not reinstalled the pump, I will pursue cancellation of the permit.

Thank you for all your hard work!

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: DeBoer, Darrell <Darrell.DeBoer@state.sd.us>
Sent: Wednesday, September 4, 2024 3:05 PM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: RE: [EXT] Water Permit No. 6924-3

Amanda

I did a field inspection on the well site on August 28, 2024 and found my earlier submitted map to accurately portray the current field situation.

I am wondering if you should be the person to follow up with Mr. Dykstra since you are the last person who has communication with him. It could be less confusing for everyone. However, if you think I should contact him in the future to obtain upgraded well details, I will do it.

Let me know your thinking.

Darrell

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Tuesday, July 2, 2024 9:11 AM
To: DeBoer, Darrell <Darrell.DeBoer@state.sd.us>
Cc: Gronlund, Eric <Eric.Gronlund@state.sd.us>
Subject: FW: [EXT] Water Permit No. 6924-3

Darrell –

In 2023 you had conducted an inspection of Lincoln County RWS's water supply system. The report indicated that their single well was going to be capped and abandoned, as they are now being fully supplied by Lewis & Clark. I called Robin Dykstra (Water Super), to confirm and he'd indicated that they had changed their minds and now intend to maintain their well to be used as a "backup". Unfortunately, this means a new inspection will be required for the purpose of licensing WP No. 6924-3.

In the below email, Mr. Dykstra has indicated that the pump/motor have been temporarily removed from the well to be cleaned? I'm hoping you can line up a time to re-inspect. Please see pages 39 & 40 of [6924-3](#) for original inspection report and map.

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Robin Dykstra <rdykstra@lincolncoruralwater.com>
Sent: Tuesday, July 2, 2024 8:53 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: RE: [EXT] Water Permit No. 6924-3

Good morning Amanda, a couple months ago we pulled the pump and motor to go through it all. After it has been cleaned up we will be ready to reinstall it in the well.

Thank you,

Robin

Robin L. Dykstra, manager
Lincoln County Rural Water System, Inc.
27066 Henry Pl.
Sioux Falls, SD 57108
(605) 767 2966

A person without self-control is like a city with broken-down walls.
Proverbs 25:28, NLT

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Monday, July 01, 2024 4:30 PM
To: Robin Dykstra <rdykstra@lincolncoruralwater.com>
Subject: Water Permit No. 6924-3

Robin,

Thank you for taking a moment today to discuss Water Permit No. 6924-3, the single well completed into the Big Sioux: South Aquifer, and its status as a standby well.

One thing I forgot to mention while on the phone; Water Rule 74:02:01:37.02 requires any standby well to be maintained for nearly instant operation. This means that the well needs to be equipped with a pump and ready to supply water to the rural water system with short notice.

If you could confirm that this is the case for Lincoln County RWS's well, located in the E ½ Section 11, T100N, R49W, we will have a new inspection completed for the purpose of licensing the system.

Thank you again,

Amanda Dewell

DANR - Water Rights Program

Permitting Administrator

Main Phone: 605 773-3352

Website: danr.sd.gov

