

WATER PERMIT NO. 5979-3

Name of Applicant: Clay Rural Water System, Inc.

Address: 30376 SD Hwy 19, Wakonda SD 57073-6416

Phone: 605 267-2088

Amount of Water Claimed: 2.0 cfs (307 acre-feet)

Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: rural water system use

County: Clay

Type of Waste Disposal System: NA

Location: about 14 miles north of Vermillion

PRIORITY

Date Received: 1-31-97

Fee: \$250.00

Corrected Application Received: NA

Period of Annual Use: January 1 - December 31

Remarks: serves users in Clay, Union, Turner, Lincoln and Yankton Counties as well as the towns of Gayville and Wakonda.

Diversion Point: SW 1/4 SW 1/4

Sec 2-T94N-R52W

Land to be Irrigated: NA

			2		
	X				

Depth of Well: 100 feet

Well Driller: Ed Lacey & Sons

Remarks:

Type of Map: aerial

Prepared by: Kevin Beerman, NRCS

Reviewed and the Number Assigned on: 1-31-97

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 5979-3

Date of first receipt of application January 31, 1997.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5979-3 to Clay Rural Water System, Inc., 30376 SD Hwy 19, Wakonda SD 57073-6416 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. 5979-3 appropriates 2.0 cubic feet of water per second (307 acre-feet annually) from one well (Lower Vermillion Missouri) 100 feet deep located in the SW 1/4 SW 1/4 Section 2-T94N-R52W. The water will be used to supply the Clay Rural Water System, Inc. which serves users in Clay, Union, Turner, Lincoln, Yankton Counties and the Towns of Wakonda and Gayville.
2. The water appropriated shall be used for the purpose of supplying water to the rural water system and may not exceed the amount of water needed for beneficial use for rural water system use purposes.
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. 5979-3 is April 7, 1997.
5. The date from which applicant may claim right is January 31, 1997.
6. One-fifth of the construction is to be completed on or before October 7, 1999.
7. All construction is to be completed on or before April 7, 2002.
8. Water is to be put to beneficial use on or before April 7, 2006.
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 wells authorized by Permit No. 5979-3 shall be constructed by a licensed well driller and construction 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. Water Permit No. 5979-3 authorizes a total annual diversion of 307 acre-feet of water annually from the Lower Vermillion Missouri Aquifer.

(continued)

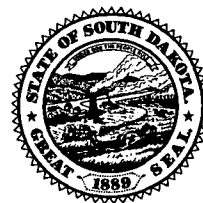
4. The Clay Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Lower Vermillion Missouri Aquifer.

WATER MANAGEMENT BOARD

By: John Hatch
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUN 11 1997

date



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

_____ Municipal	_____ Suburban Housing	_____ Recreational	_____ Institutional
<u> x </u> Rural Water System	_____ Commercial	_____ Fish & Wildlife	_____ Geothermal Heat
_____ Domestic (over 18 gpm)	_____ Industrial	_____ Other	

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

- Preliminary Engineering Report attached. Additional well will serve current and future members. Clay RWS serves Wakonda and Gayville.

Donna R. Henriksen 11-25-2003
Notary Public

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter 32" Depth 100'
- b) Casing Type Steel Diameter 18" Thickness .375
- c) Screen Type Stainless Diameter 18" Thickness .050
- d) Gravel Pack Thickness 14" Length of Gravel Pack 40'
- e) Depth to Top of Water Bearing Material 54'
- f) Depth to Water (ground surface to water level) 62'
- g) Distance to nearest existing domestic well:
 On applicants property 385' On property owned by others 1320'

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ c) Year Constructed _____
- d) 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

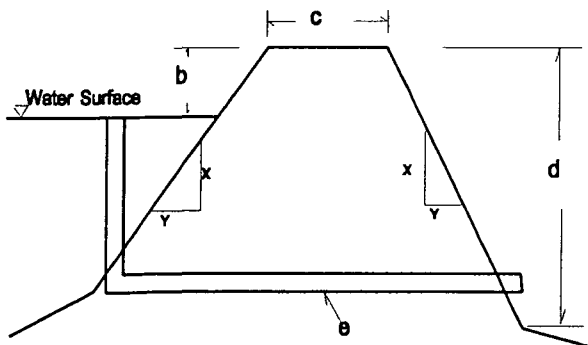
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



FILE

MEMO TO: File No. 25140.9W
FROM: Dave Kunath
DATE: April 11, 1977
RE: Clay Rural Water - driller's log
2-26-77

The following is a transcription from Ed Lacey & Son's driller's log transmitted to our office April 8, 1977. The log pertains to the recently pumped test well in Section 2--94-52.

0' to 3'	Topsoil
3' to 7'	Yellow clay
7' to 12'	Yellow clay and sand
12' to 14'	Black dirt
14' to 16'	Yellow clay
16' to 29'	Rusty gravel
29' to 34'	Rusty rocks and gravel
34' to 35'	Black gravel
35' to 40'	Gray gravel, loose
40' to 62'	Fine gray gravel

Also transmitted with the driller's log was the following information:
Installed 20 ft. by 12" by 0.050 Johnson stainless steel screen and
43' of 12"x3/8" black steel casing.

DPK:mrw

cc: DK



SOUTH DAKOTA WATER WELL COMPLETION REPORT

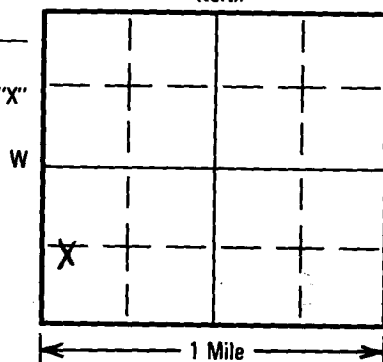
07-92

Location SW ¼ SW ¼ Sec 02 Twp 94N Rg 52W

County Inc
Clay

North

Please mark well location with an "X"



Well Completion Date 3-3-99

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2,640 ft. from feedlot (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0 FT	138 FT	6 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	9	9.5 lb./gal	0 ft	120 ft
		lb./gal	ft	ft

Describe grouting procedure pumped through tremmie

SCREEN: ☒ Perforated pipe ☐ Manufactured

Diameter 2 IN Length 30 FEET

Material Sch. 80 PVC

Slot Size .018 Set From 138 Feet to 168 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: ChlorineNO, Why Not?
BCH 65% 30#

Laboratory sent to for water quality analysis No

Well Owner: Clay County Rural Water

Business Name: Clay Rural Water System Inc

Address: 30376 SD Hwy 19

Wakonda SD 57073-6416

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil & Clay	0	20
Clay & Stones	20	40
Clay Dirt Gravel Layer, Clay,		
Gravel	40	60
Coarse Sand thru Med to		
Coarse Gravel	60	80
Coarse Sand	80	100
Med Sand	100	140
Med Sand thru Fine Gravel	140	160
Coarse Sand & Fine Gravel	160	168

STATIC WATER LEVEL 58 Feet

If flowing: closed in pressure PSI

GPM flow through inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced Flowrate GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: Air Lifted☐ Bailed☐ Other

Pumping Level Below Land Surface

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

If pump installed, pump rate None GPM

REMARKS

This well was drilled under license # 273

And this report is true and accurate.

Drilling firm Charles Sargent Irrigation Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

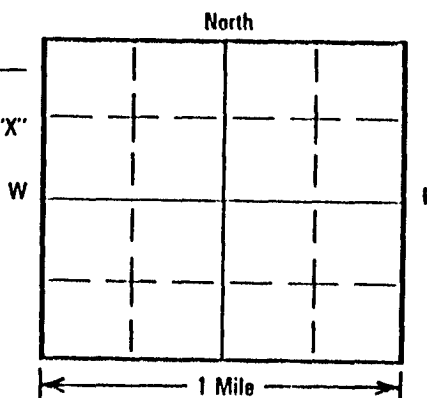
Date: April 4, 1999

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 02 Twp 94 Rg 52WCounty
Clay

Please mark well location with an "X"



Well Completion Date 5-8-99

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:

Reverse Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
62.58 LB/FT	16 IN	+3 FT	160 FT	29 IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
Neat Cement	276	15 lb./gal	0 ft	119 ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure _____

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 16 IN Length 40 FEET

Material 304 S S

Slot Size .090 Set From 160 Feet to 200 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION:

Was well disinfected upon completion? ☒ YES, How: HTH

_____ NO, Why Not? _____

Laboratory sent to for water quality analysis

Well Owner: Clay Rural Water

Business Name: _____

Address: _____

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil & Clay	0	20
Clay and Stones	20	40
Clay Dirt Gravel layer, Clay, Gravel	40	60
Coarse Sand thru Med to Coarse Gravel	60	80
Coarse Sand	80	100
Med Sand	100	140
Med Sand thru Fine Gravel	140	160
Coarse Sand & Fine Gravel	160	180
Fine Gravel & Stones	180	200

STATIC WATER LEVEL 57

If flowing: closed in pressure _____

GPM flow _____ through _____ incl

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed☐ Other

Pumping Level Below Land Surface

66 ft. After 48 Hrs. pumped 1500

_____ ft. After _____ Hrs. pumped _____

If pump installed, pump rate 1200

REMARKS

This well was drilled under license # 273

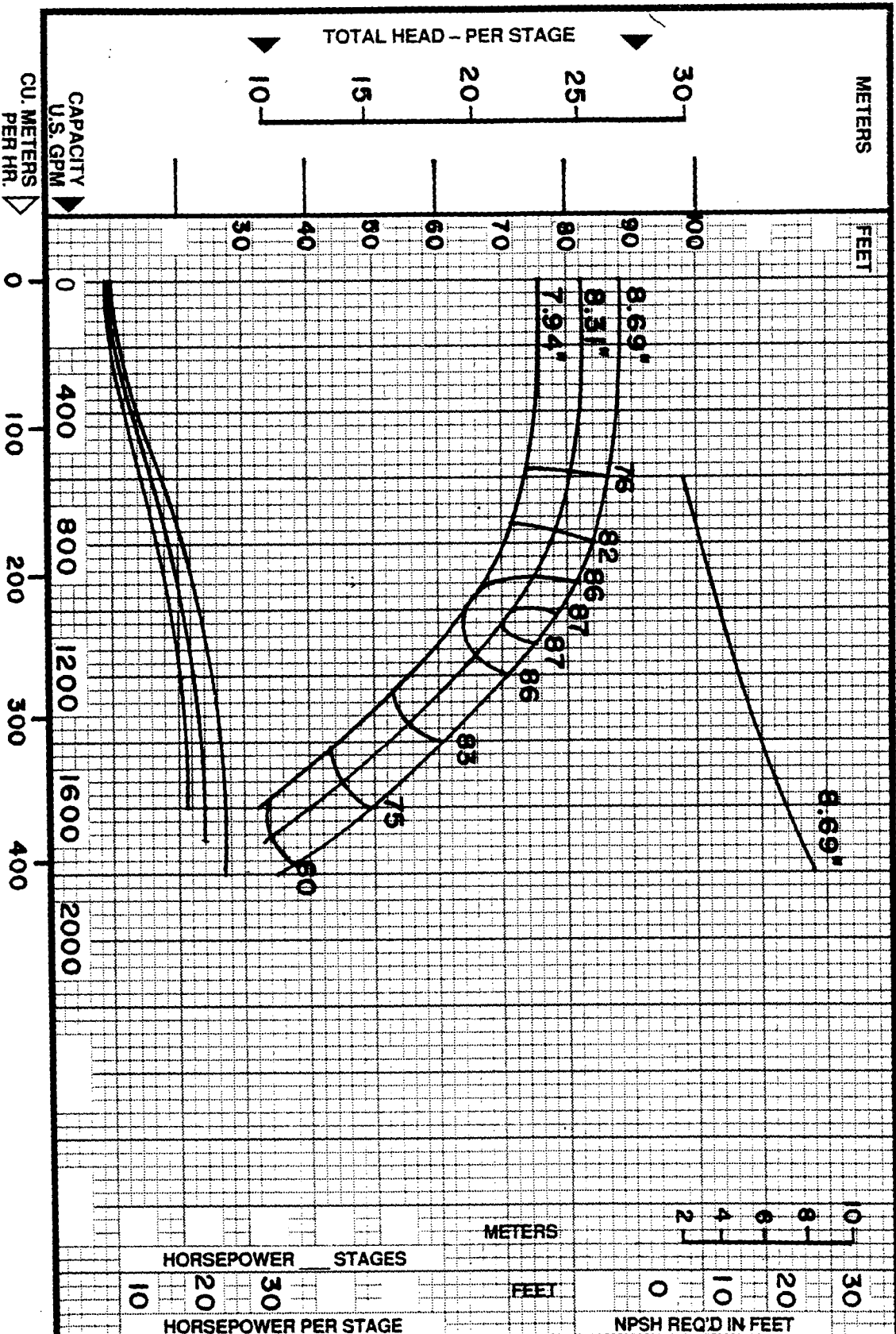
And this report is true and accurate.

Drilling firm Charles Sargent Irrigation Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

GOULDS PROPOSAL NO.	GOULDS S.O. NO.	INQUIRY NO.	CUSTOMER P.O. NO.	P.O. DATE	ITEM NO.	CUSTOMER
PROJECT			SERVICE	GPM CAPACITY		
			F.T. TDH	% EFFICIENCY		
			RPM			



Curve No. E6412CCPC0
 Model: 12CHC
 RPM: 1770

EFFICIENCY CORRECTION	
STGS. 1	-3.0
STGS. 2	-2.0
STGS. 3	-0.5
STGS. 4	-0.0

PERF BASED ON
 STD. MTL'S

Impeller = C03087B
 $N_s = 2100$
 $K = 5.10 \text{ LBS/FT}$
 $K = 7.59 \text{ KG/M}$
 $K (\text{Bal.}) =$



Characteristics based upon pumping clear, non-aerated water. Rating point only is guaranteed. Column losses not included.

PROPOSED DIVERSION POINT
1200' NORTH AND 216' EAST
OF SW CORNER SECTION 2,
T94N, R52W



NORTH

95-52

2

NATURAL RESOURCES
CONSERVATION SERVICE
PO BOX 374
VERMILLION SD 57069-0374

Marvin B. Beech

5979-3

RECEIPT

415238

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ January 31, 19 97

RECEIVED OF Clay Rural Water System, Inc., RR 1, Box 70A, Wakonda, SD 57073

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

Fee for Application for Permit No. <u>5979-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	250	00
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	250 00

By John Hatcher
Chief Engineer



CRWS

Clay Rural Water System

30376 SD Hwy. 19
Wakonda, SD 57073-9747
605-267-2088
FAX 605-267-2085



January 31, 1997

Eric Gronlund
Water Rights Program, DENR
Foss Building - 523 East Capitol
Pierre SD 57501-3181

RE: Water Right Application

Dear Eric:

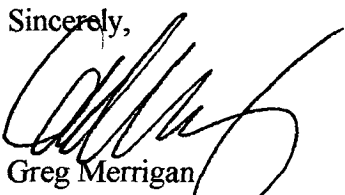
Attached find the following items in connection for an application for a water right permit:

- Two copies of completed application form.
- Two copies of attachment form 2A.
- Map of location.
- Copies of original driller's log.
- Filing fee in the amount of \$250.00.

Our county legal newspaper is the Vermillion Plain Talk/Wakonda Times.

If you have any questions or need any other information, please let me know.

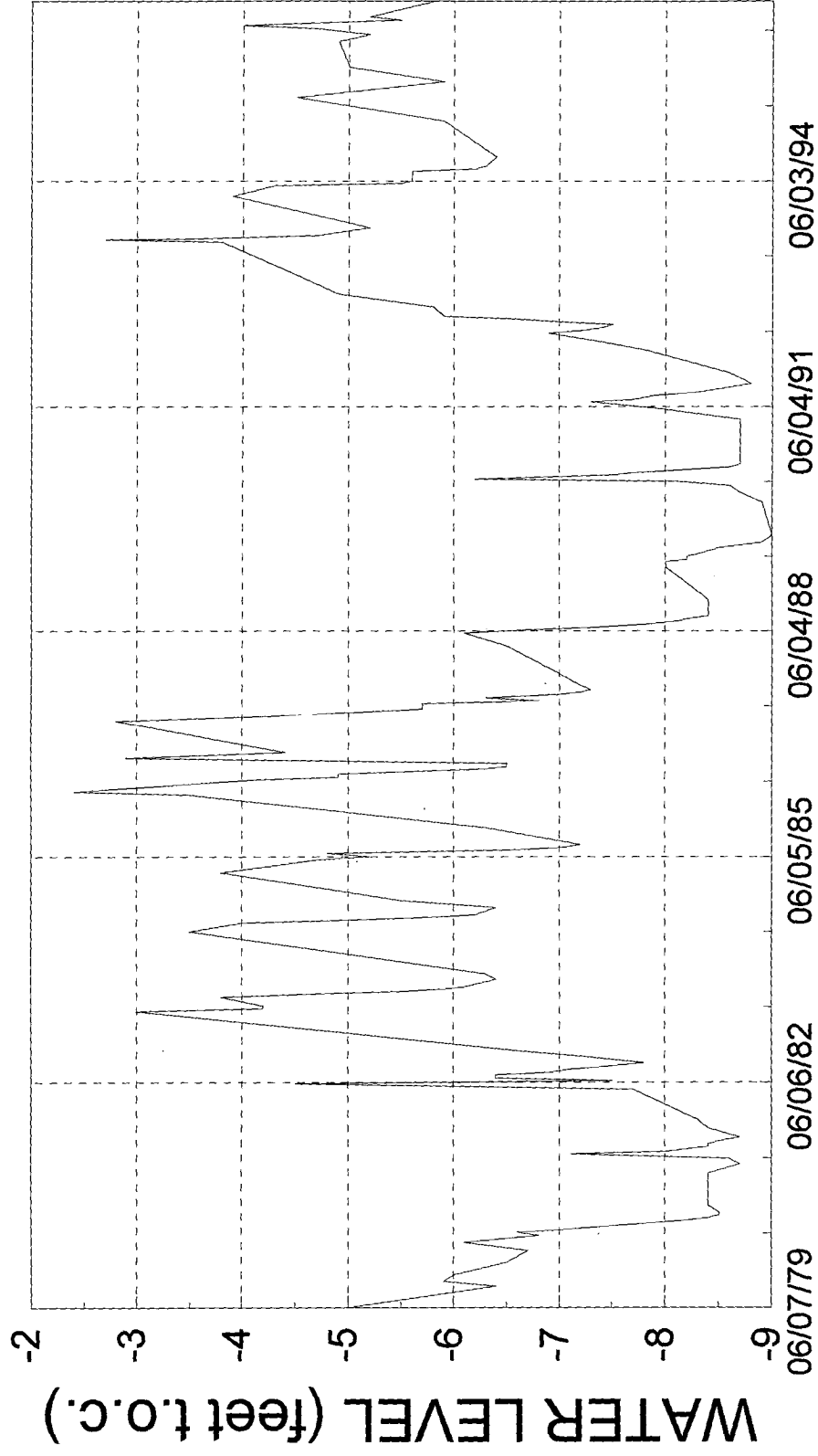
Sincerely,



Greg Merrigan
System Manager

WATER RIGHTS OBSERVATION WELL

CL-76C



REPORT ON WATER PERMIT APPLICATION NO. 5979-3
for Clay Rural Water System, Inc.
March 4, 1997

Application No. 5879-3 proposes to appropriate 2.00 cfs (307 acre feet annually) from one well approximately 100 feet deep located in the SW 1/4 SW 1/4 of Section 2, T94N R52W in Clay County. The water will be used to supply the Clay Rural Water System, Inc. which serves users in Clay, Union, Turner, Lincoln, Yankton and the Towns of Wakonda and Gayville.

AQUIFER - LOWER VERMILLION MISSOURI (LVM)

The Lower Vermillion Missouri is a mostly buried outwash (sand and gravel) which blends into or is the southern extension of the Parker Centerville aquifer (Christensen, 1967). The aquifer underlies 100,800 acres and contains an estimated 1.5 million acre feet of recoverable water in storage (Hedges, 1982). The aquifer extends into the Turner County to the north, blends into the Parker Centerville aquifer to the north, and is hydraulically connected to the Missouri Elk Point aquifer to the south and also to the Vermillion River which courses roughly through the center of the aquifer. A test well log (Barari, 1976) submitted with the application indicates oxidized clay from 0-12 feet, oxidized clay with sand and gravel lenses from 12-28 feet and sand and gravel from 28 to 180 feet in depth below land surface in this area. The test well had a reported water level of 28 feet below land surface. The aquifer will be under water table conditions at this site. Generally, the aquifer is buried under a till cover on the uplands above the Vermillion River flood plain and extends laterally into alluvium and outwash under the floodplain. Ground water movement is generally toward the Vermillion River especially in the northern portion of the aquifer (Christensen, 1976).

The Water Rights Program does monitor three observation wells completed into the Lower Vermillion Missouri aquifer and located within a two mile radius of this application. One of these wells CL-76C is located about one-half mile north of this application. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1997). A hydrograph for CL-76C is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The only other permitted diversions in this area are for the Clay Rural Water System. Existing Water Right No. 3905-3 authorizes two wells with a diversion rate of 2.0 cfs. This proposed diversion would be approximately 1000 feet south of an existing well and 1245 feet northwest of the other existing well. In other words, this proposed diversion would be roughly half way in between the two existing wells for the Rural Water system. Interference is not a concern. The pumping effect or drawdown created by pumping at a rate of 2.0 cfs would not be significant a distance of 1000 feet especially considering that the saturated thickness of the aquifer is 150 - 175 feet in this area.

CONCLUSIONS

1. Water is available from the Lower Vermillion Missouri aquifer.
2. The aquifer is under water table conditions in this area.
3. Interference is not expected to be a concern.
4. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.

A handwritten signature in black ink, appearing to read "James A. Goodman", with a date "8-05" written below it.

James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Barari, A., 1976, Ground Water Study for Clay Rural Water System, UR-17, SD DENR, SDGS, Vermillion, SD, 57069.
- Christensen, C.M., J.C. Stephens, 1967, Geology and Hydrology of Clay County South Dakota, Part II - Water Resources, SD DENR, SDGS, Vermillion, SD, 57069.
- Hedges, L.S., etal, 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.
- Water Rights, 1997, Unpublished Observation Well Data for Clay County, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5979-3, Clay 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. 5979-3, Clay Rural Water System, Inc., c/o John Bernard, President, 30376 SD Wys 19, Wakonda, SD 57073-6416.

The Chief Engineer is recommending APPROVAL of Application No. 5979-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 5979-3 shall be constructed by a licensed well driller and construction 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. Water Permit No. 5979-3 authorizes a total annual diversion of 307 acre feet of water annually from the Lower Vermillion Missouri Aquifer.
4. The Clay Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Lower Vermillion Missouri Aquifer.

See report on application for additional information.



JOHN HATCH, Chief Engineer
March 10, 1997



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

March 12, 1997

Clay Rural Water Systems, Inc.
Greg Merrigan, System Manager
30376 SD Hwy. 19
Wakonda, SD 57073-6416

Dear Mr. Merrigan:

Water Permit Application No. 5979-3 for rural water system use has been examined and found to comply with the South Dakota Water Laws and applicable rules. Notices of hearing have been sent to the Publishers of the Plain Talk printed at Vermillion, SD (Ph # (605) 624-2695), Beresford Republic printed at Beresford, SD (Ph # (605) 763-2006), The New Era printed at Parker, SD (Ph # (605) 297-4419), Sioux Valley News printed at Canton, SD (Ph # (605) 987-2631), and the Daily Press & Dakotan printed at Yankton, SD (Ph # (605) 665-7811). For your information, copies of the notices, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notices 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. 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 newspapers have 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 March 20, 1997, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 5979-3 to Appropriate Water

Notice is given that Clay Rural Water System, Inc., 30376 SD Hwy 19, Wakonda SD 57073-6416 has filed an application for a water permit to 2.0 cubic feet of water per second (307 acre-feet annually) from one well (Lower Vermillion Missouri) 100 feet deep located in the SW 1/4 SW 1/4 Section 2-T94N-R52W. The water will be used to supply the Clay Rural Water System, Inc. which serves users in Clay, Union, Turner, Lincoln, Yankton Counties including the Towns of Wakonda and Gayville.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5979-3 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 7, 1997.

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. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 12, 1997

Sioux Valley News
Box 255
Canton, SD 57013-0255

ATTENTION: Legal Department

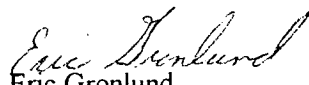
Enclosed is a Notice of Hearing on Application No. 5979-3 to be published twice. Please publish the first notice on March 20, 1997, with the second publication 7 days later.

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 Clay Rural Water System, Inc., Greg Merrigan, System Manager, 30376 SD Hwy. 19, Wakonda, SD 57073-6416 (Ph # (605) 267-2088).

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

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

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

Name

Newspaper

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Lincoln)

I, Connie Renli

certify that the attached printed Notice was taken

from the Sioux Valley News

printed and published in Canton

County of Lincoln and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

March 20, 1997

March 27, 1997

Cost of Printing \$32.06

Connie Renli
 (Signature)

Bookkeeper
 (Title)



**NOTICE OF APPLICATION
 NO. 5979-3 TO
 APPROPRIATE WATER**

Notice is given that Clay Rural Water System, Inc., 30376 SD Hwy 19, Wakonda SD 57073-6416 has filed an application for a water permit to 2.0 cubic feet of water per second (307 acre-feet annually) from one well (Lower Vermillion Missouri) 100 feet deep located in the SW 1/4 SW 1/4 Section 2-T94N-R52W. The water will be used to supply the Clay Rural Water System, Inc. which serves users in Clay, Union, Turner, Lincoln, Yankton Counties including the Towns of Wakonda and Gayville.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5979-3 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 interesting in opposing or supporting this application or recommendation 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 7, 1997.

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. Nettie H. Myers, Secretary Department of Environment and Natural Resources.

Sworn before me 27th Day
of March, 1997.
E. D. Hohman, Notary, SD
 My Commission Expires May 7, 2000



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 12, 1997

The New Era
Box 579
Parker, SD 57053-0579

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5979-3 to be published twice. Please publish the first notice on March 20, 1997, 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 Clay Rural Water System, Inc., Greg Merrigan, System Manager, 30376 SD Hwy. 19, Wakonda, SD 57073-6416 (Ph # (605) 267-2088).

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

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,


Eric Gronlund

Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. 5979-3

Date _____

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

Name

Newspaper

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County of Turner) SS

I, Mary Lee

certify that the attached printed Notice was taken

from the The New Era
newspaper

printed and published in Parker

County of Turner and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

3/20/97

3/27/97

Cost of Printing \$39.09

Mary Lee
 (Signature)

Office Manager
 (Title)

3/27/97
 (Date Signed)



Notice of Application No. 5979-3 to Appropriate Water

Notice is given that Clay Rural Water System, Inc., 30376 S.D. Hwy. 19, Wakonda, S.D. 57073-6416 has filed an application for a water permit to 2.0 cubic feet of water per second (307 acre-feet annually) from one well (Lower Vermillion Missouri) 100 feet deep located in the SW 1/4 SW1/4 Section 2-T94N-R52W. The water will be used to supply the Clay Rural Water System, Inc. which serves users in Clay, Union, Turner, Lincoln, Yankton Counties including the Towns of Wakonda and Gayville.

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Nettie H. Myers,
 Secretary,
 Department of Environment and
 Natural Resources

#1499, March 20 and 27, 1997.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 12, 1997

Beresford Republic
Box 111
Beresford, SD 57004-0111

ATTENTION: Legal Department

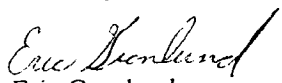
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Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

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

No. 5979-3

Date _____

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

Name

Newspaper

AFFIDAVIT OF PUBLICATION

State of South Dakota

County: Union

City: Beresford

Newspaper: Beresford Republic

Marvel D. Peterson 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 the

Notice / Application

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 for

successive week(s) to wit:

March 20 1997 _____ 19 _____

March 27 1997 _____ 19 _____

_____ 19 _____ 19 _____

_____ 19 _____ 19 _____

That the full amount of the fee charged for the publication of the attached public notice inures to the sole benefit of the publisher; that no agreement or understanding for the division thereof has been made with any other person; and that no part thereof has been agreed to be paid to any person whomsoever; that the fees charged for the publication thereof are: \$ 33.45

Signed: Marvel D. Peterson

Subscribed and sworn to before me this 4th

day of April 1997.

Julie Wendling
Notary Public

My Commission expires 9/30/2002



NOTICE OF APPLICATION NO. 5979-3 TO APPROPRIATE WATER

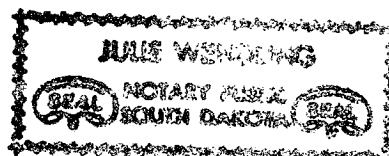
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Nettie H. Myers, Secretary
Department of Environment and Natural Resources
Publish March 20 and 27, 1997





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 12, 1997

Plain Talk
Box 256
Vermillion, SD 57069-0256

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5979-3 to be published twice. Please publish the first notice on March 21, 1997, 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 Clay Rural Water System, Inc., Greg Merrigan, System Manager, 30376 SD Hwy. 19, Wakonda, SD 57073-6416 (Ph # (605) 267-2088).

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Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. 5979-3

Date _____

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

Name

Newspaper

AFFIDAVIT OF PUBLICATION

State of South Dakota, County of Clay, ss.

Christy L. Bram

Being first duly sworn, deposes and says: That he/she is a resident of the County of Clay and State of South Dakota; that

THE PLAIN TALK

is a legal newspaper of general circulation, printed and published in Vermillion, in said County and State, by Broadcaster Press, Inc., and is now and has been such newspaper continuously during all the times hereinafter mentioned; that affiant is and was during all the time hereinafter mentioned in charge of the advertising department thereof, and has personal knowledge of all the facts stated in this affidavit: and that the notice and advertisement headed:

Notice: Application No. 5979-3

a printed copy of which is hereunto attached and made a part hereof, was printed and published in the said newspaper at least once in each week

for 2 successive weeks; that said newspaper at the time of the first publication of said notice hereinafter stated, had, and still has, a bona fide circulation of over two-hundred paid copies weekly, and had been published in the said county of Clay for more than one year immediately prior to the date of the said publication of said notice, and that said newspaper during said times, was, and is, printed in part in an office maintained at said city of Vermillion, the said place of publication; that the first publication of said notice in said newspaper as

aforsaid was on Friday, the 21 day of March, 19 97, and that the succeeding publications were severally

on Friday, the 28 day of March, 19 97

on Friday, the _____ day of _____, 19 _____

on Friday, the _____ day of _____, 19 _____

on Friday, the _____ day of _____, 19 _____

that the fees charged for the printing and publication of the said notice and advertisement in said newspaper as aforsaid were

thirty-five dollars and 93 cents

and that said fees for the printing and publishing of said notice and advertisement have been fully paid; that the full amount of the fee charged for the publishing of the said attached annexed notice and advertisement inures to the benefit of the publisher of the said newspaper, that no agreement or understanding for the 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.

Christy L. Bram

Subscribed and sworn to before me this 4th

day of April, 19 97

Joan E. Willert

My Commission Expires
April 17, 1997

Notary Public

NOTICE OF APPLICATION NO. 5979-3 to Appropriate Water

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Nettie H. Myers, Secretary
Department of Environment and
Natural Resources
Publish: March 21 & 28, 1997





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 12, 1997

Daily Press & Dakotan
P.O. Box 56
Yankton, SD 57078-0056

ATTENTION: Legal Department

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Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. 5979-3

Date _____

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

Name

Newspaper

Affidavit of Publication

STATE OF SOUTH DAKOTA

COUNTY OF YANKTON

SS.

Don S. Smith being first duly sworn says: That he is the Editor of the Yankton Printing Company, a corporation, the printer and publisher of the Yankton Daily Press and Dakotan, a daily newspaper of general circulation, printed and published in the City and County of Yankton, South Dakota; that he has personal knowledge of all the facts stated in this affidavit; and that the advertisement captioned Notice of application No. 5979-3 to appropriate water

a printed copy of which is hereunto attached, was printed and published in the regular and entire issue of said newspaper, and not in a supplement, once each week for two successive weeks, the first publication being made on the 20 day of March, 19 97, and the last publication being made on the 27 day of March, 19 97.
 The first publication being made on the 20 day of March
 The second publication being made on the 27 day of March
 The third publication being made on the day of
 The fourth publication being made on the day of
 The fifth publication being made on the day of
 The sixth publication being made on the day of
 The seventh publication being made on the day of
 The eighth publication being made on the day of
 The ninth publication being made on the day of
 The tenth publication being made on the day of

That said newspaper is a legal newspaper, and has a bona fide circulation of more than two hundred copies daily and has been published in the English language within the said County of Yankton for more than one year next prior to the first publication of said notice, and is printed in Yankton in an office maintained in Yankton, South Dakota, the place of publication of said newspaper. That the full amount of the fee paid for the publication of the annexed notice is \$ 42.46, which inures solely to the benefit of said publisher; that no agreement or understanding for a division thereof has been made with any person, and that no part thereof has been agreed to be paid to any person whomsoever.

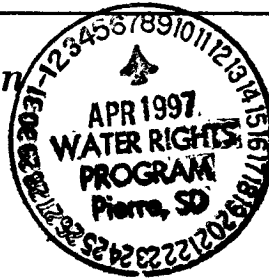
Don S. Smith

Subscribed and sworn to before me this 4 day

of April, 19 97

Notary Public, South Dakota

My Commission Expires 3-31-2002



3+20+27
 NOTICE OF APPLICATION NO. 5979-3
 to Appropriate Water

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Notie H. Myers, Secretary
 Department of Environment and Natural Resources

Publication Fees \$

Received Payment,



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 11 1997

Clay Rural Water System, Inc.
Greg Merrigan, System Manager
30376 SD Hwy. 19
Wakonda, SD 57073-6415

Dear Mr. Merrigan:

Enclosed is Water Permit No. 5979-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in black ink, appearing to read "John Hatch".

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

enclosures

PLEASE NOTE: Certain changes may be made to your water permit usually without affecting the priority date. The location of a point of diversion may be changed or additional points of diversion may be approved if the water source remains unchanged; no additional water is appropriated; and, if irrigating, no additional land is irrigated. The change may be allowed without application or publication, if the Water Rights Program is contacted and the chief engineer makes a finding that the change does not increase the potential for interference with existing diversions.

A new water permit application is required to change water sources, increase the permitted diversion rate, or increase the irrigated acreage. If the application is approved, the water permit will receive a new priority date.



NOTICE OF COMPLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE

Date August 30, 1999

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Clay Rural Water System Inc 30376 SD Hwy 19
(name) (address)

Wakonda SD 57073-6416 (605) 267-2088
(city) (state) (zip) (phone)

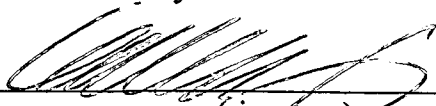
I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5979-3.

Water Permit No. 5979-3 states that the diversion system is to be constructed by April 7, 2002, and that the water is put to beneficial use by April 7, 2006.
(date) (date)

The diversion system was completed on August 1, 1999.
(date)

Applying the water to beneficial use was completed on August 27, 1999.
(date)

You may schedule an inspection so that the Water License may be issued.


(signature)
Greg Merrigan, System Manager

Sargent Drilling
INDUSTRIAL ENGINEERING
COMPLETE MUNICIPAL AND INDUSTRIAL
PUMPS AND WELL SERVICE

Box 627
South Highway 21

Broken Bow, Nebraska
68822

Phone
(308) 872-5125
FAX (308) 872-6912

May 19, 1999

DeWild Grant Reckert and Associates
Consulting Engineers
315 First Avenue
Rock Rapids, Iowa 51246

RE: Clay Rural Water System
Wakonda, South Dakota
DGR Project No. 800603

Dear Mark Baltzer,

Enclosed are submittals for the above referenced project
your approval. They are as follows:

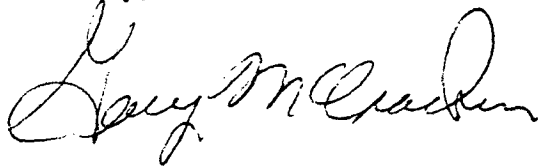
PUMP: 12CHC Goulds 2 Stage Bowl Assembly (SE)

COLUMN: 100' of 10" Water Lubricated Column with 1 1/2"
Shaft with Stainless Steel Sleeves at each Bearing (SE)

BASE: Sargent 8" Water Lubricated Base with Base Plate with
Bronze Wear Rings (SE)

MOTOR: 60 HP U. S. Holloshaft Motor (SE)

Sincerely,



Gary McCracken, Manager
Sargent Drilling
Broken Bow Office

GM/rh

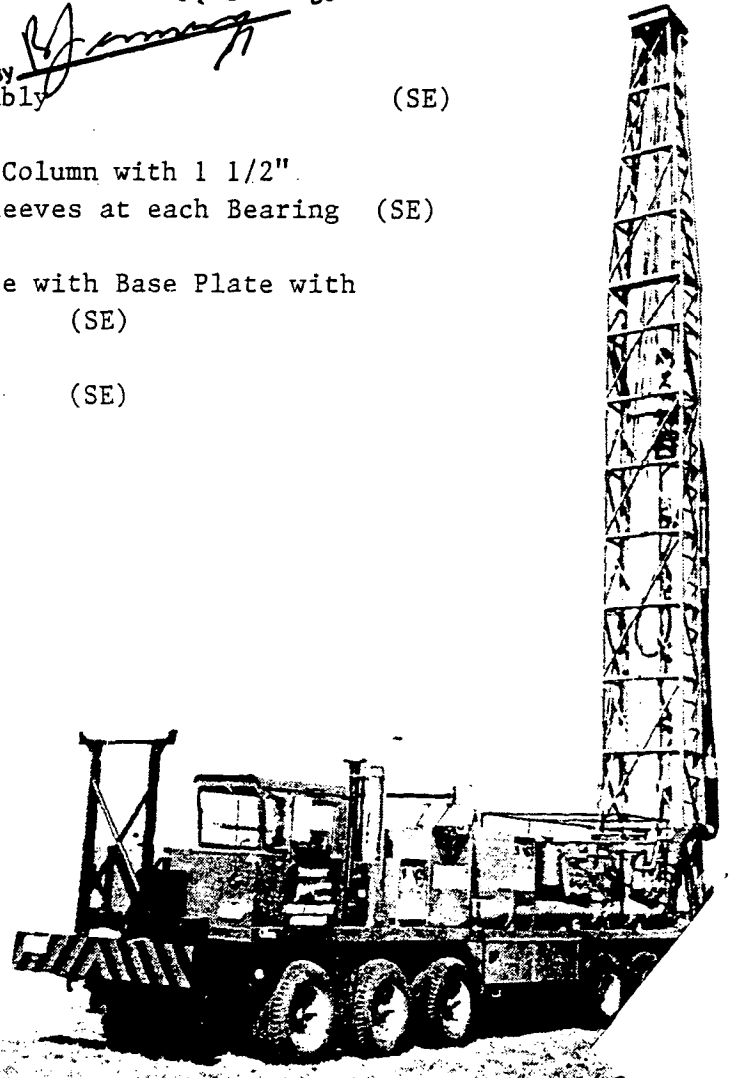
enc.

☒ NO EXCEPTIONS
☐ REJECTED
☐ SUBMIT SPECIFIED ITEM
☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

DeWILD GRANT RECKERT & ASSOCIATES CO.
ARCHITECTS - ENGINEERS

By  for 5-25-99



Permit No. 5979-3
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, October 20, 1999, made a thorough examination of the water use system constructed by Clay Rural Water System of 30376 SD Highway 19, Wakonda, SD, 57073-6416 holder of Permit No. 5979-3, bearing the priority of January 31, 1997 authorizing the diversion of 2.00 cu. ft. per second (307 acre feet annually) from the Lower Vermillion Missouri aquifer for rural water system use purposes, in Clay, Union, Turner, Lincoln, Yankton Counties and the Towns of Wakonda and Gayville.

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

A. Works used to divert the water:

One 200 feet deep well (called well #3) equipped with Goulds 12CHC 2 stage bowl assembly pump and 60 HP US Holloshaft electric motor.

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

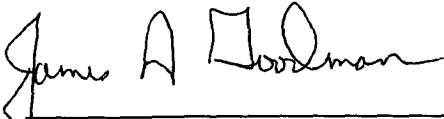
Distribution system from treatment plant to rural customers.

The system is in the following condition, excellent. The point of diversion is located 1200 feet north and 216 feet east of the southwest corner of section 2, T94N R52W in Clay County. The works are capable of diverting and conveying to the place of use 2.00 cu. ft. per second of water for rural water system use.

The license should be issued for 2.00 cfs.

Applicable permit qualifications have been complied with: Yes ☒ No ☒

Exceptions to compliance are: none Date report completed: October 26, 1999



James A Goodman
Natural Resources Engineer
DENR, Water Rights Program

FIELD INVESTIGATION REPORT FOR PERMIT NO. 5979-3

DATE OF INVESTIGATION:	October 20, 1999
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Clay Rural Water System Greg Merrigan , Manager 30376 SD Highway 19 Wakonda, SD 57073-6416
NAME & ADDRESS OF PERMIT HOLDER	As above
DIVERSION POINT LEGAL LOCATION	1200 feet north and 216 feet east of the southwest corner of section 2, T94N R52W in Clay County, SD.

Other permit(s) associated with the project: WR NO. 3905-3**WELL INFORMATION:**

- 1) Well Drilling Firm: Sargent Drilling
- 2) No. of Wells one
- 3) Depth(s) 200 feet
- 4) Well log is available Y/N
- 5) Comment: _____

Casing:

- 1) Diameter 16 inches
- 2) Length 160 feet
- 3) Type steel (62.58 lb/ft)

Screen:

- 1) Type 304 ss .090 slot set from 160 to 200 feet
- 2) Length 40 feet
- 3) Static water level 57 feet

Pump:

- 1) Make Goulds
- 2) Model 12CHC Goulds 2 stage bowl assembly
- 3) Size _____
- 4) Capacity 900 GPM

Motor:

PERMIT NO. 5979-3

- 1) Make US Holloshaft Motor
- 2) Model No. _____
- 3) Horsepower rating 60 hp

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by YN
- 2) All structures, wells and lands on map YN



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

November 2, 1999

5979-3

Clay Rural Water System, Inc.
Greg Merrigan, Manager
30376 SD Highway 19
Wakonda, SD 57073-6416

Dear Mr. Merrigan:

The investigation of your water use system was conducted on October 20, 1999, by Jim Goodman, staff engineer. The investigation included the extent of application of water to beneficial use, as developed under Water Permit No. 5979-3. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the investigation and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

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

Sincerely,

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

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

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NE 416276

Pierre, November 29, 19 99

RECEIVED OF Clay Rural Water System, Inc., 30376 SD Hwy. 19, Wakonda, SD 57073-6446
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct
and to put water to beneficial use _____

Fee for Application for Permit No. _____ to Appropriate Water, for Future
Use _____

Fee to retain Future Use Permit No. _____ after period of seven years.

Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water
License No. 5979--3

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

50 00

By

John Hatcher
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

DEC 10 1999

5979-3

Clay Rural Water System
Greg Merrigan, Manager
30376 SD Hwy. 19
Wakonda, SD 57073-6416

Dear Mr. Merrigan:

Enclosed is Water License No. 5979-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 416276 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 5979-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Very truly yours,

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

gm
enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5979-3

(1) Clay Rural Water System, 30376 SD Hwy 19, Wakonda, SD 57073-6416 made Application No. 5979-3, January 31, 1997 for a water permit to divert 2.00 cubic feet of water per second (307 acre-feet annually) from ground water (one well – Lower Vermillion Missouri Aquifer), Clay County, South Dakota for rural water system purposes. Permit No. 5979-3, with a priority date of January 31, 1997 was approved April 7, 1997 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 7, 2002 and for the application to beneficial use of said water on or before April 7, 2006.

On September 2, 1999, the permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*". The "*Notice*" indicated the diversion system was completed on August 1, 1999 and the water applied to beneficial use on August 27, 1999.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 2.00 cubic feet of water per second (307 acre-feet annually) for beneficial use. The location of the diversion point is 1200'N and 216'E of the SW corner of Section 2, T94N, R52W (SW ¼ SW ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use serving Clay, Union, Turner, Lincoln and Yankton Counties and includes the towns of Wakonda and Gayville.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Clay Rural Water System, 30376 SD Hwy 19, Wakonda, SD 57073-6416 the holder and/or owner of Water Right No. 5979-3 is issued a license to appropriate water, the right to use 2.00 cubic feet of water per second (307 acre-feet annually) from ground water (one well – Lower Vermillion Missouri Aquifer) with a priority date of January 31, 1997 from the location specified in (2) of this license. The water is to be used for rural water system purposes. This license is subject to any limitations or qualifications listed in Water Right No. 5979-3 and subject to South Dakota State Law.


JOHN HATCH, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

DEC 10 1999

date



SOUTH DAKOTA WATER WELL COMPLETION REPORT

5979-3 SD EForm - 1621LD V1

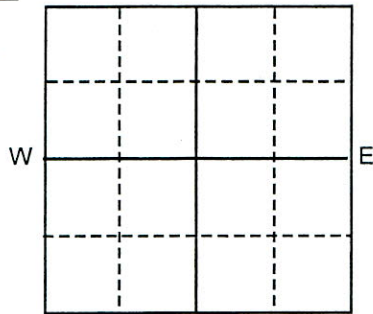
11-02

Location SW 1/4 SW 1/4 Sec 2 Twp 94 Rg 52W

County Clay

North

Please mark well location with an "X"



Well Completion Date

February 3, 2010

← 1 Mile →

Distance to 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:

Reverse Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other
If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	<u>16.00</u> IN	<u>0.0</u> FT	<u>80.0</u> FT	<u>28.00</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>Conc. Grout</u>	_____	<u>Lb/gal</u>	<u>0.0</u> Ft	<u>18.0</u> Ft
<u>Bent. Pellets</u>	<u>12</u>	<u>5.0</u> Lb/gal	<u>18.0</u> Ft	<u>22.0</u> Ft

Describe grouting procedure _____

SCREEN:

☒ Perforated pipe ☐ Manufactured
Diameter 16.00 Inches Length 40.0 Feet
Material Stainless Steel V-Wire
Slot Size .040 Set From 80.0 Feet to 120.0 Feet
Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Sodium Hypochlorite

☐ No, Why Not? _____

Lab to which water quality sample sent for analysis _____

Well Owner: Clay Rural Water System

Business Name: _____

Address: 30376 SD HWY 19

City, State, Zip: Wakonda SD 57073

WELL LOG: Well #4 - Wakonda

FORMATION	DEPTH	
	FROM	TO
Clay and hard strips	0	15
Fine, medium and coarse sand	15	20
Fine, medium, coarse sand & cobbles	20	40
Coarse gravel and cobbles	40	80
Fine, medium and coarse sand	80	120
Fine, medium gravel with cobbles	120	165
Gray clay	165	180

STATIC WATER LEVEL 22.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

50.0 Ft. After 8.0 Hrs. pumped 1,490.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

JUN - 7 2013

WATER RIGHTS PROGRAM

This well was drilled under license # 273 and this report is true and accurate.

Drilling firm: Sargent Irrigation Co.

Signature of License Representative: Doug Yentzie

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

Water Rights Program File Documentation

Permit/Right No. and Owner:

Permit No.	Owner	Status	Uses
973-3	Nicholas & Courtney Blake	License	Irrigation
974-3	Hansen Ventures LLC	License	Irrigation
1813-3	Hansen Ventures LLC	License	Irrigation
1916-3	Troy & Sheila Gust	License	Irrigation
3905-3	Clay Rural Water System Inc	License	Rural Water System
4731-3	Richard & Gayle Johnson	License	Irrigation
5979-3	Clay Rural Water System Inc	License	Rural Water System
6563-3	Rus Farms Real Estate LLC	License	Irrigation
6565-3	Rus Farms Real Estate LLC	License	Irrigation
6566-3	Hansen Ventures LLC	License	Irrigation
6569-3	Smit Family Trust	Permit	Irrigation
6571-3	Rus Farms Real Estate LLC	License	Irrigation
6572-3	Brad & Linda Trudeau Living Trust	License	Irrigation
6808-3	Lovejoy Family Trust	License	Irrigation
6813-3	Rus Farms Real Estate LLC	License	Irrigation
6815A-3	Rus Farms Real Estate LLC	License	Irrigation
6817-3	Hansen Ventures LLC	Permit	Irrigation
6818-3	Hansen Ventures LLC	Permit	Irrigation
6819-3	Hansen Ventures LLC	License	Irrigation
6821-3	Tim Gregoire	License	Irrigation
6822-3	Hansen Properties	Permit	Irrigation
7001-3	Rus Farms Real Estate LLC	License	Irrigation
7003-3	Hansen Ventures LLC	License	Irrigation
7383-3	Hansen Ventures LLC	Permit	Irrigation
7693-3	Hansen Ventures LLC	Permit	Irrigation

Date: January 14, 2025

County: Clay

RE: aquifer designation

COMMENTS:

Jensen (2025) as part of a review of the Lower Vermillion Missouri aquifer (LVM) determined that Water Right Nos. 973-3, 974-3, 1813-3, 1916-3, 3905-3, 4731-3, 5979-3, 6563-3, 6565-3, 6566-3, 6569-3, 6571-3, 6572-3, 6808-3, 6813-3, 6815A-3, 6817-3, 6818-3, 6819-3, 6821-3, 6822-3, 7001-3, 7003-3, 7383-3, & 7693-3, should have the aquifer reassigned. In reviewing the best information currently available for aquifer and management unit naming

conventions, the best aquifer designation for Water Rights previously listed is the Southern management unit of the Upper Vermillion Missouri aquifer (UVM:S) shown in Figure 1.

This change of aquifer designation, to the Southern management unit of the Upper Vermillion Missouri aquifer, does not represent a physical change in the water source. It is an update to the name of the aquifer materials to reflect the currently best available information for aquifer extents. This update to the aquifer name does not authorize any increase in the amount of water appropriated by Water Right Nos. 973-3, 974-3, 1813-3, 1916-3, 3905-3, 4731-3, 5979-3, 6563-3, 6565-3, 6566-3, 6569-3, 6571-3, 6572-3, 6808-3, 6813-3, 6815A-3, 6817-3, 6818-3, 6819-3, 6821-3, 6822-3, 7001-3, 7003-3, 7383-3, & 7693-3, relocation of existing wells, or completion of additional wells into the aquifer. Going forward, issuance of any pertinent documents will reflect the updated aquifer designation.

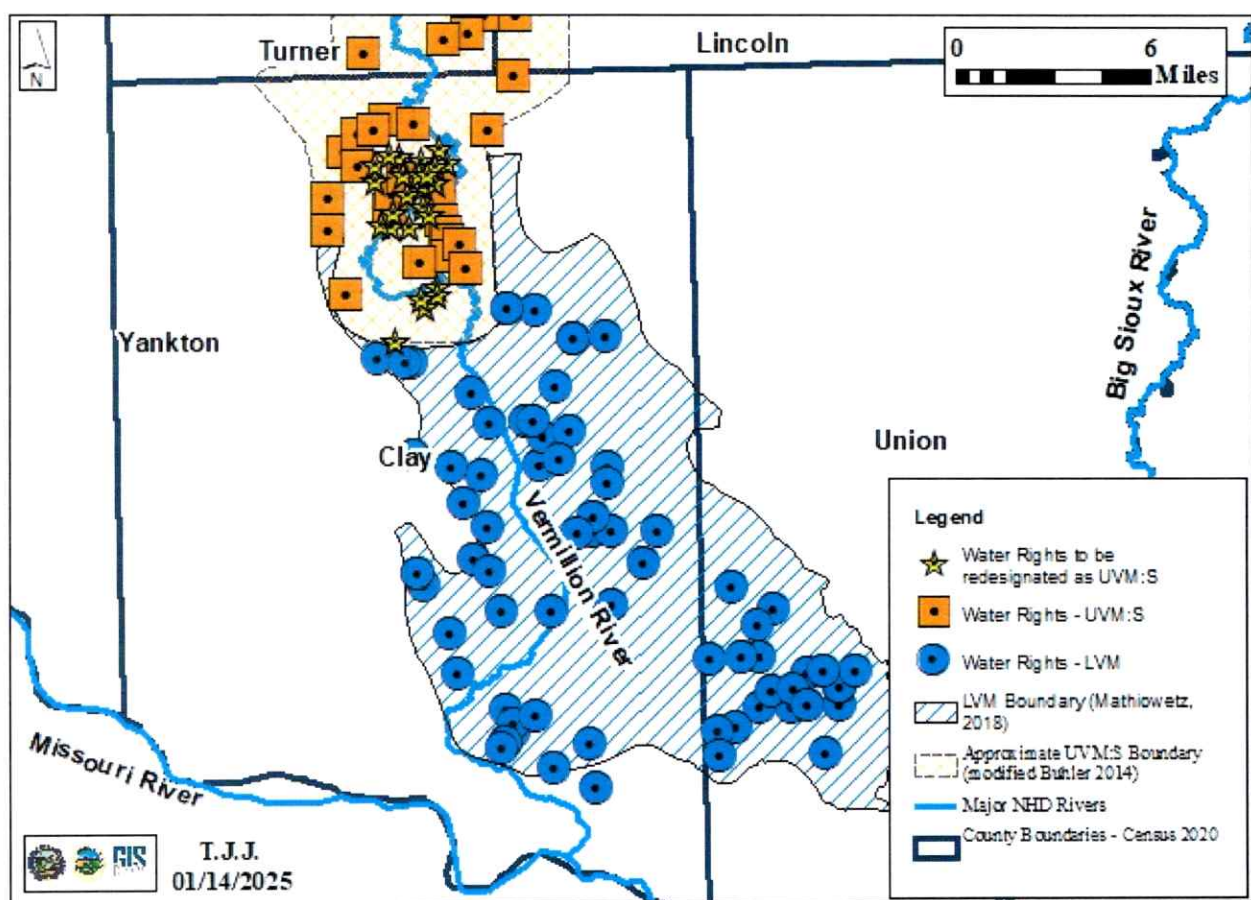


Figure 1. Map of the approximate Upper Vermillion Missouri: South aquifer boundary (Buhler, 2014), map of the approximate Lower Vermillion Missouri aquifer boundary (Mathiowetz, 2018), Water Rights/Permits for Upper Vermillion Missouri: South aquifer, Water Rights/Permits for Lower Vermillion Missouri aquifer, and Water Rights/Permits for Upper Vermillion Missouri: South aquifer previously assigned Lower Vermillion Missouri aquifer.



Tyler Jensen
Natural Resources Engineer I



Eric Gronlund
Chief Engineer

References

Buhler, K. A. 2014. Report to the Chief Engineer on 21 Water Permit Applications from the Upper Vermillion Missouri Aquifer. SD DANR – Water Rights Program, Joe Foss Bldg. Pierre, SD.

Jensen, T. 2025. Report to the Chief Engineer on Water Permit Application No. 8910-3. SD DANR-Water Rights Program. Joe Foss Building, Pierre, South Dakota.

Mathiowetz, A. 2018. Report to the Chief Engineer on Water Permit Application 8335-3. Natural Resource Engineer IV, SD DANR – Water Rights Program, Joe Foss Bldg. Pierre, SD.