



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 23 1997

Clark Rural Water System
c/o Duane Stokes
PO Box 162
Clark SD 57225

Dear Mr. Stokes:

Enclosed are Water Permit Nos. 5974-3 and 5974A-3 and Water License No. 5974A-3 for the Clark Rural Water System. Water Permit No. 5974-3 has been divided to separate the new well from the existing developed wells.

Water Permit No. 5974-3 authorizes construction of a new well located in the SW 1/4 SE 1/4 Section 25-T116N-R58W. Along with the permit is a Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, which needs to be submitted when the rural water system has completed the well and/or have put the water to beneficial use. An investigation of this permit can then be scheduled so the Water License may be issued.

Water Permit No. 5974A-3 authorizes the additional appropriation from the wells authorized by Water Permit Nos. 4384-3 and 4384-3A. Water License No. 5974A-3 incorporates the applicable portions of Water Permit Nos. 4384-3 and 4384-3A. The license investigation fee has been paid and the receipt is enclosed.

As long as the rural water system uses the water beneficially as stated in the permit and license, the rural water system has continuing right to use the water.

Very truly yours,

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

enclosures

**SOUTH DAKOTA
WATER PERMIT NO. 5974A-3**

Date of first receipt of application December 23, 1996.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5974A-3 to Clark Rural Water System, Inc., PO Box 162, Clark SD 57225 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. 5974-3 appropriates 1.56 cfs (675 acre-feet annually) from one new well (Vermillion East Fork Aquifer-Antelope Lake) 77 feet deep located in the SW 1/4 SE 1/4 Section 25-T116N-R58W.

Water Permit No. 5974A-3 authorizes an additional appropriation of 0.22 cfs from the wells authorized by Water Permit Nos. 4384-3 and 4384-3A. Permit Nos. 4384-3 and 4384-3A authorized a diversion of 2.4 cfs from three wells (Vermillion East Fork Aquifer- Antelope Lake) located in the SW 1/4 SW 1/4 Section 7-T115N-R57W, NE 1/4 NE 1/4 Section 12-T115N-R58W and the SE 1/4 SE 1/4 Section 25-T116N-R58W. These three wells are capable or producing 2.62 cfs.

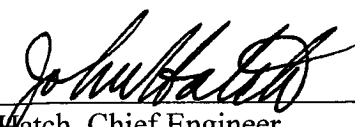
The water will be used to supply the Clark Rural Water System, Inc. and to serve the cities of Clark and Wallace.

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. 5974A-3 is April 7, 1997.
5. The date from which applicant may claim right is December 23, 1996.
6. 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 Clark Rural Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Vermillion East Fork Antelope Lake Aquifer.

WATER MANAGEMENT BOARD

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

JUN 23 1997

date



STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5974A-3

(1) Clark Rural Water System, Inc., PO Box 162, Clark SD 57225 made Application No. 5974A-3, December 23, 1996 for a water permit to divert an additional 0.22 cubic feet of water per second (cfs) from groundwater (three existing wells), Clark County, South Dakota for rural water system purposes. Permit No. 5974A-3, with a priority date of December 23, 1996 was approved April 7, 1997 and issued to the applicant for diversion of water with construction of the described water supply system completed and the application to beneficial use of said water completed.

Permits associated with this water use system:

- Water Permit No. 4384-3 - with a priority date of January 12, 1979, authorizes diversion of 2.4 cfs from ground water (four wells);
- Water Permit No. 4384-3A - with a priority date of January 12, 1979, authorized a change in location of one of the wells authorized by Water Permit No. 4384-3.

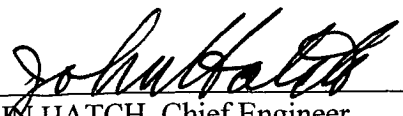
The applicable portions of Water Permit Nos. 4384-3 and 4384-3A have been incorporated into this Water License No. 5974A-3.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 2.62 cubic feet of water per second for beneficial use. The location of the diversion points are:

Well #1 - 460 feet west and 200 feet north of the SE corner Section 25-T116N-R58W (SE 1/4 SE 1/4);
Well #2 - 430 feet south and 165 feet west of the NE corner Section 12-T115N-R58W (NE 1/4 NE 1/4);
Well #3 - 430 feet east and 130 feet north of the SW corner Section 7-T115N-R57W (SW 1/4 SW 1/4).

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 Clark Rural Water System, Box 207, Clark SD 57225 the holder and/or owner of Incorporated Water Permit No. 5974A-3 is issued a license to appropriate water, the right to use 2.62 cubic feet of water per second from groundwater (three wells) with priority dates of January 12, 1979 (2.4 cfs) and December 23, 1996 (0.22 cfs) from the location specified in (2) of this license for the purpose of rural water system use. This license is subject to any limitations or qualifications listed in Incorporated Water Permit No. 5974A-3 and subject to South Dakota State Law.


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

JUN 23 1997

date



CLARK RURAL WATER SYSTEM

PO Box 162, Clark, SD 57225-0162

Phone (605) 532-5201
Toll Free 1-800-657-4310
FAX (605) 532-3531



July 1, 1996

Mr. John Hatch, Chief Engineer
Water Rights Division
Dept. of Environment and Natural Resources
Joe Foss Building
Pierre, South Dakota 57501

Re: Test Well

Dear Mr. Hatch,

We are requesting permission to drill a test well prior to approval of permit, pursuant to Well Standard 74:02:04:21.

The purpose of this test well is for aquifer/production testing.

We will be applying for a permit to appropriate water from existing permit reserves and Future Use Permit 4927-3, which is presently in effect, providing the results of the testing are favorable.

Ron Duvall is familiar with our current situation regarding permits and needs for the near future, he and I have had conversations regarding our water needs.

Thank you for your attention in this matter,

Duane C. Stokes, Mgr.
Clark Rural Water System, Inc.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

July 9, 1996

Duane C. Stokes, Manager
Clark Rural Water System, Inc.
PO Box 162
Clark, SD 57225-0162

Dear Mr. Stokes:

As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, Clark Rural Water System is authorized to construct a test well prior to approval of a water permit. A water permit must be approved prior to any use of water. The well is to be located within the area specified by Future Use Permit No. 4927-3. The test well must be constructed in accordance with the South Dakota Well Construction Standards. Any test holes that are abandoned must be plugged pursuant to the South Dakota Well Construction Standards.

Very truly yours,

JAMES A. GOODMAN, P.E.
Natural Resources Engineer
for JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

July 11, 1996

Duane C. Stokes, Manager
Clark Rural Water System, Inc.
PO Box 162
Clark, SD 57225-0162

Dear Mr. Stokes:

As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, Clark Rural Water System is authorized to construct a test well prior to approval of a water permit. A water permit must be approved prior to any use of water. The well is to be completed into the Antelope Lake Management Unit of the Vermillion East Fork Aquifer in Section 25, T116N-R58W. The test well must be constructed in accordance with the South Dakota Well Construction Standards. Any test holes that are abandoned must be plugged pursuant to the South Dakota Well Construction Standards.

Very truly yours,

JAMES A. GOODMAN, P.E.
Natural Resources Engineer
for JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>5974A-3</u> (office use only) Hydrologic Unit _____
	Basin _____
	Newspaper _____

RECEIVED
AUG 25 2010
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. <u>5974A-3</u> | | |

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

Change point of diversion

1. Name of Applicant Clark Rural Water system, Inc. Phone 800-657-4310
(check one) ☒ Owner ☐ Tenant/lessee

Mailing Address P.O. Box 162 Clark SD 57225
(Address) (City) (State) (Zip Code)

2. Amount of water claimed _____ *CFS or _____ **GPM ***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 Vermillion East Fork Aquifer

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Clark
Well #2 NE1/4 of NE1/4 of Section 12, T115-R58W

5. County or counties where water will be used Codington, Day, Clark, Grant, Hamlin

6. Annual period during which water is to be used continuously

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)

Replacing existing well that is beyond rehab condition. New well will be located approx. 20 feet N-NE of existing well.

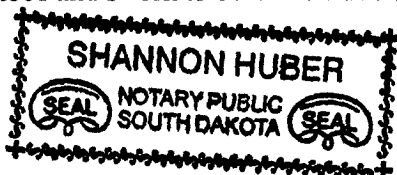
STATE OF SOUTH DAKOTA)
County of Clark) SS

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

I, Duane C. Stokes, 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 this 20th day of August 20 10



Shannon Huber
Notary Public signature

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24" Depth 52'
- b) Casing Type steel Diameter 12" Thickness 49.56lbs/ft
- c) Screen Type stainless spiral Diameter 12" Thickness
- d) Gravel Pack Length of Gravel Pack
- e) Depth to Top of Water Bearing Material 14'
- f) Depth to Water (ground surface to water level) 18'
- g) Distance to nearest existing domestic well:
- On applicant's property On property owned by others 1 1/2 miles

2. Wastewater Disposal System Information

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

3. Dugout Information

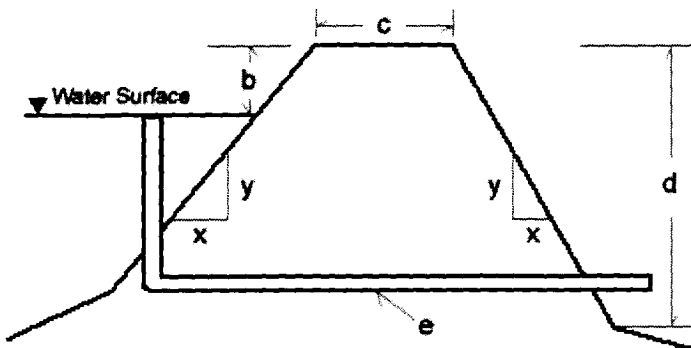
- a) Surface Dimensions Depth
- b) Depth to water (ground surface to water level)

4. Water Storage Dams

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

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

- b) Freeboard
- c) Crest Width
Crest Length
- d) Height
- e) Primary Outlet Capacity
If pipe, diameter
- f) Secondary Spillway Capacity
Spillway Width
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream
Downstream
- h) Surface Area of Impoundment
- i) Storage Acre Feet
- j) Drainage Area Above Dam Acres



Approval of a Change of Diversion Points

NAME: Clark Rural Water System, Inc.

ADDRESS: PO Box 162, Clark SD 57225

DATE: August 26, 2010 **COUNTY:** Pennington **TELEPHONE:**

BACKGROUND:

Clark Rural Water System has made a request to change the location of a well known as Well No. 2 authorized under Water Right No. 5974A-3. The request states that the existing well is beyond rehabilitation condition and therefore the System seeks to replace it.

Water Right No. 5974A-3 appropriates 2.62 cubic feet of water per second from three wells located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25, T116N, R58W (well No. 1), NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 12, T115N, R58W (well No. 2), and the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 7, T115N, R57W (well No. 3). All the wells are constructed in the Antelope Lake management unit of the Vermillion East Fork Aquifer. During an inspection back in 1999 the depth and capacity of the wells were as follows: Well No. 1 – 67 feet and 350 gpm, Well No. 2 – 52 feet and 600 gpm, Well No. 3 – 49 feet and 250 gpm.

The request states the new well will be 52 feet deep and approximately 20 feet north northeast of the existing well.

AUTHORITY:

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

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

The water source authorized by Water Right No. 5974A-3 is the Antelope Lake management unit of the Vermillion East Fork Aquifer.

No additional appropriation of water is requested. This request is solely to replace failing Well No. 2 and will be located in the same quarter-quarter section about 20 feet away from the existing well.

- **Review of Existing Diversions**

The nearest domestic well on file is located in approximately 2500 feet to the south. It is a 60 foot well drilled for Harvey Spieker in 1980. It is unknown the status of this well but viewing FSA aerial map using ArcMap shows that a homestead is still present at this location.

There is an existing water right located in NW $\frac{1}{4}$ of Section 1 just to the east of this well. Water Right No. 2533-3 held by Merritt Seefeldt appropriates 1.44 cfs from a 50 foot deep well to irrigate 132 acres. This water right has a priority date of 1975.

Both the domestic well and the Seefeldt irrigation well have been in place prior to the System's Well No. 2 without adverse effects. It is not anticipated that replacing the existing well with a new well 20 feet away will result in adverse impacts to the neighboring wells.

CONCLUSION

- The replacement well does not appropriate additional water.
- The water source continues to be Antelope Lake management unit of the Vermillion East Fork Aquifer.
- Interference is not a concern.
- The existing well that is being replaced should be plugged.

RECOMMENDED ACTION

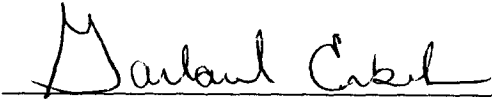
Based on the above criteria, it is recommended that the change of diversion point for Well No. 2 under Water Right No. 5974A-3 be authorized.



Eric Gronlund
Water Rights Program

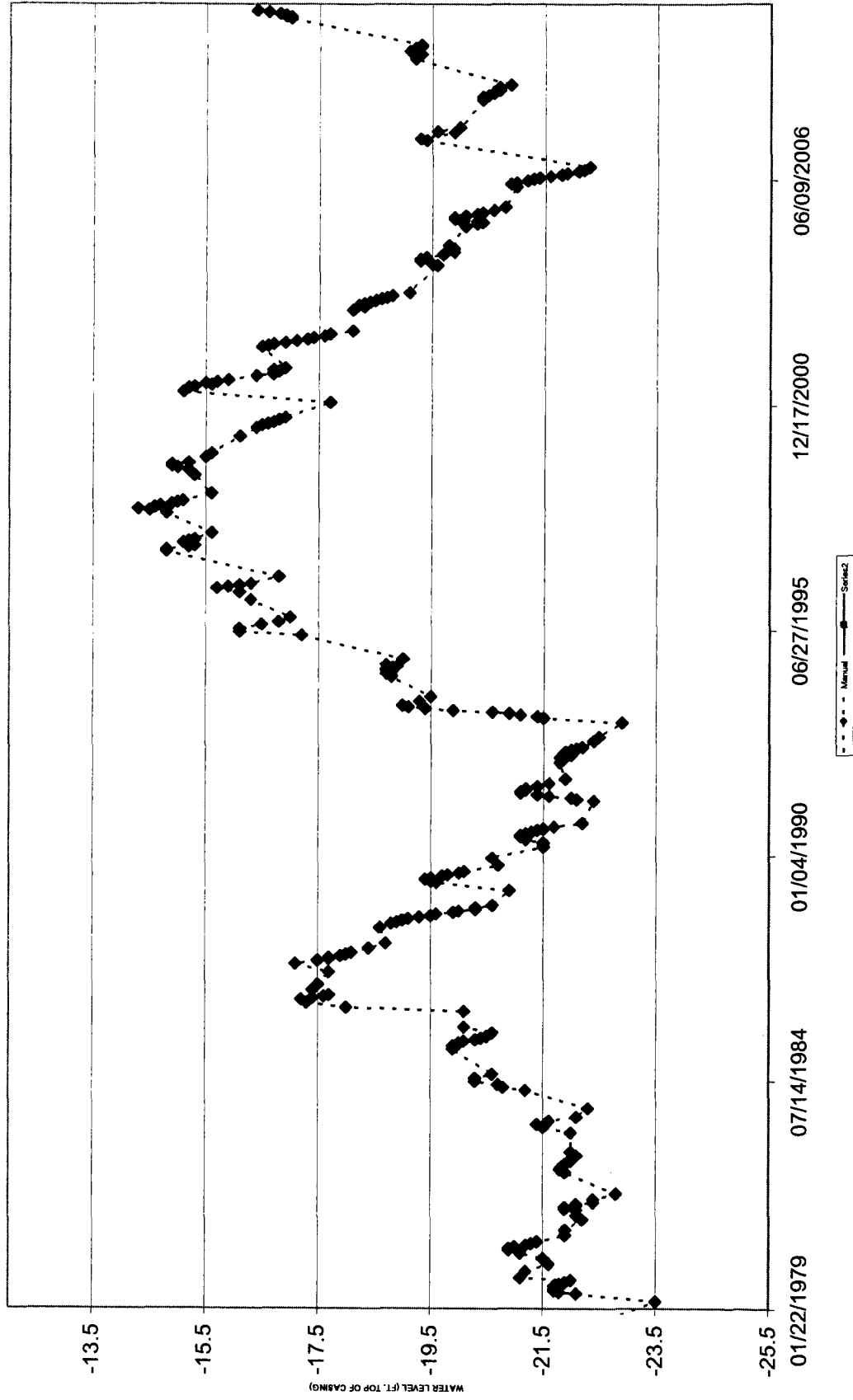
The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

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

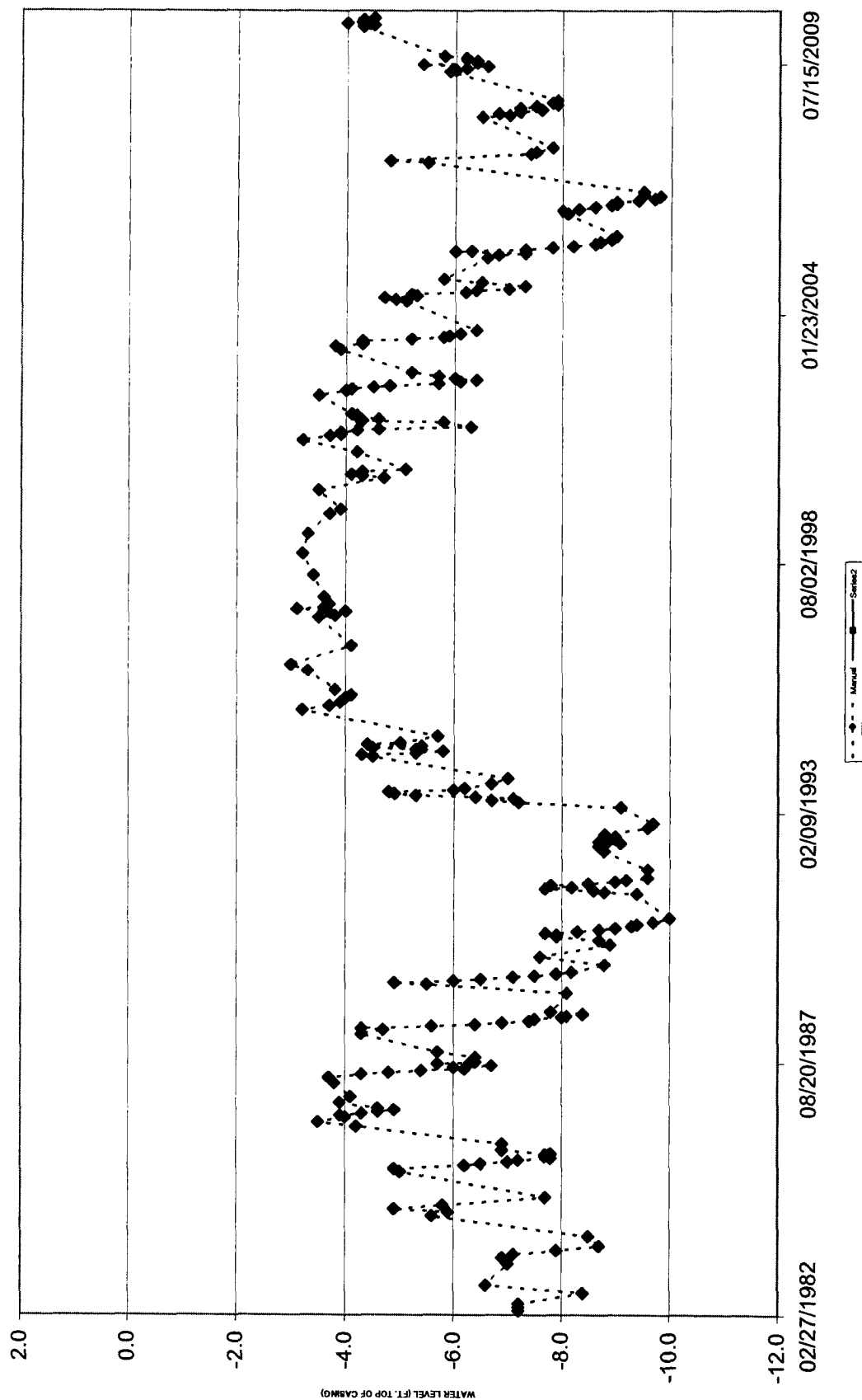


Garland Erbele, Chief Engineer
Water Rights Program

WATER RIGHTS' OBSERVATION WELL
CK-78P



WATER RIGHTS' OBSERVATION WELL
CK-780





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 27, 2010

Duane C. Stokes
Clark Rural Water System
PO Box 162
Clark SD 57225

Dear Mayor Stokes:

I am writing in regard to Clark Rural Water System's request to make to change in the location of Well No. 2 authorized by Water Right No. 5974A-3.

Water Right No. 5974A-3 appropriates 2.62 cubic feet of water per second from three wells located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25, T116N, R58W (well No. 1), NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 12, T115N, R58W (well No. 2), and the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 7, T115N, R57W (well No. 3). Well No. 2 is scheduled for replacement.

Upon review of the request and pursuant to SDCL 46-5-13.1, the change in the location of the well known as Well No. 2 (NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 12, T115N, R58W) is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. No increase in the authorized diversion rate of 2.62 cfs from the three wells is authorized. If the total diversion rate increases, a new water right permit will need to be obtained.

The abandoned well shall be plugged in accordance with well construction standards.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



March 31, 2014

5974-3 and 5974A-3

Clark Rural Water System
c/o Terry Kaufman
PO Box 162
Clark, SD 57225

Dear Mr. Kaufman:

Water Permit No. 5974-3 and 5974A-3 appropriate 1.56 and 2.62 cubic feet per second (cfs), respectively, from four wells (one for 5974-3 and three for 5974A-3) completed into the Antelope Lake Management Unit of the Vermillion East Fork aquifer. The well associated with Water Right No. 5974-3 is located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, T116N-R58W. The wells associated with Water Right No. 5974A-3 are located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 7, T115N-R57W, the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 12, T115N-R58W, and in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, T116N-R58W.

You have requested to move the well associated with Water Right No. 5974-3 and the well associated with Water Right No. 5974A-3 that is located in Section 25, T116N-R58W. The basis behind this request is that water in the existing wells has become too hard.

Upon review of the request and pursuant to SDCL 46-5-13.1, the change in well locations is authorized without application or publication of a notice of hearing pursuant to SDCL 45-2A-4. No increase in the authorized diversion rates of 1.56 and 2.62 cfs from Water Right Nos. 5974-3 and 5974A-3, respectively, has been requested or approved. If the total diversion rates increase, new water permits will need to be obtained from the SD DENR Water Rights Program.

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

Sincerely,

Jeanne Goodman
Chief Engineer
Water Rights Program

File No. 5974-3 and 5974A-3

Approval of Change of Diversion Point

NAME: Clark Rural Water Systems, Inc.

ADDRESS: PO Box 162, Clark, SD 57225

DATE: March 17, 2014

COUNTY: Clark

TELEPHONE: (605) 532-5201

BACKGROUND:

Water Right No. 5974-3 appropriates 1.56 cubic feet per second (cfs) from a single well located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, T116N-R58W and completed into the Antelope Lake Management Unit of the Vermillion East Fork aquifer at a depth of approximately 77 feet.

Water Right No. 5974A-3 incorporates Water Right No. 4384-3 and Water Right No. 4384-3A and adds an additional 0.22 cfs to the 2.4 cfs already appropriated under those water rights (for a total of 2.62 cfs). Water Right No. 5974A-3 consists of three wells at depths of 23 to 52 feet completed into the Antelope Lake Management Unit of the Vermillion East Fork aquifer, and located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 7, T115N-R57W, the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 12, T115N-R58W, and the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, T116N-R58W.

Clark Rural Water System, Inc. has requested permission to move the single well associated with Water Right No. 5974-3 and the well associated with Water Right No. 5974A-3 which is located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, T116N-R58W. The replacement wells will both be located in the E $\frac{1}{2}$ NE $\frac{1}{4}$ of Section 12, T115N-R58W in a gravel pit. They will both be completed to a depth of 28 feet below the floor of the gravel pit or 48 feet below ground surface. The basis behind this request is that the water produced from the two existing wells has become too hard.

AUTHORITY:

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

- **Developed water source is the same as licensed source and no additional water is appropriated.**

The water source authorized by Water Right Nos. 5974-3 and 5974A-3 is the Vermillion East Fork: Antelope Lake aquifer. The existing wells are completed to a depth of approximately 77 (5974-3) and 55 feet (5974A-3) below land surface. The new wells will both be completed to a depth of approximately 28 feet (or 48 feet below ground surface) and are expected to divert from the Vermillion East Fork: Antelope Lake aquifer.

No additional appropriation of water is authorized. Water Right Nos. 5974-3 and 5974A-3 appropriate 1.56 and 2.62 cfs, respectively. No additional diversion rate authority is being requested.

Review of Existing Diversions

The well completion report and water rights databases were reviewed for the nearest domestic wells and water rights/permits on file. Clark Rural Water System, Inc. operates several existing wells in close proximity to the proposed new well locations. Wells designated #7 and #8, both associated with Water Right No. 5974A-3, are located in the northeast corner of the gravel pit into which the new wells will be

completed. Any interference as a result of pumping from the new wells will be seen as a management issue within Clark Rural Water System, Inc. The nearest water right not controlled by Clark Rural Water System, Inc, 2533-3, is located approximately 1,200 feet to the southeast of the proposed well sites. The well associated with this water right is not expected to experience interference as a result of pumping from the new wells. The nearest domestic well completed into the Antelope Lake Management Unit of the Vermillion East Fork aquifer is located approximately 1,100 feet to the south of the closest new well. Assuming that this is an adequate well, unlawful impairment is not expected to occur.

Observation Well Data

The Water Rights Program monitors a series of observation wells completed into the Vermillion East Fork: Antelope Lake aquifer. The closest observation well (CK-78Q) is located approximately 1,500 feet from both new well locations. This well has been in place since 1978 and shows static water level fluctuations of between eight and 22 feet below the top of the casing. Historic water levels in CK-78Q show that the aquifer levels are primarily controlled by climatic conditions but do show the effects of season pumping.

CONCLUSION:

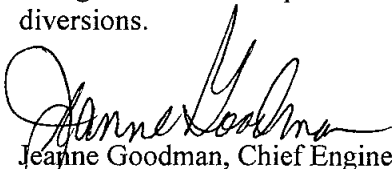
- The change in well locations does not propose to appropriate additional water.
- The new wells are completed into the same formation as the existing well, the Vermillion east Fork: Antelope Lake aquifer.
- Unlawful impairment of existing water rights is not expected to occur.
- The original wells should be plugged in accordance with South Dakota well drilling standards.

RECOMMENDED ACTION:

Based on the above criteria, it is recommended that the request for a change of diversion points to the E ½ NE¼ of Section 12, T115N-R58W be approved.

Bracken Capen
Natural Resources Engineer

The Chief Engineer makes a finding pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14:01 that: The change in diversion point locations does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program

**Clark Rural Water
Systems, Inc.**



RECEIVED

MAR 05 2014

**WATER RIGHTS
PROGRAM**

PO Box 162, 1001 – 1st Ave. W
Clark, SD 57225
Toll Free 800-657-4310
Phone 605-532-5201
Fax 605-532-3531
Email crws@itctel.com

Eric Gronlund,

The Clark Rural Water System, Inc. is requesting permission to move the point of diversion from wells 1 & 5, South 4.5 miles to two new wells in the same aquifer. No additional water will be needed. The water from wells 1 & 5 has become much harder in recent years. They have gone from 30 grains to near 60 grains. The new wells will be drilled 28' deep from the floor of the gravel pit which puts them at 48' from ground level.

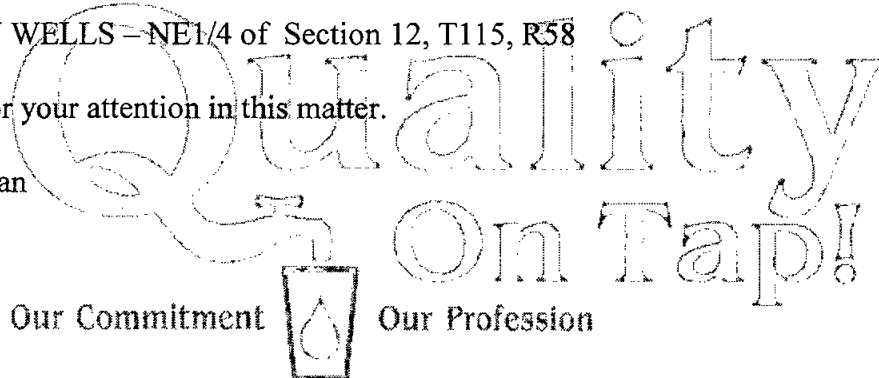
CRWS Well #1 - SE1/4 of SE1/4 Section 25, T116, R 58

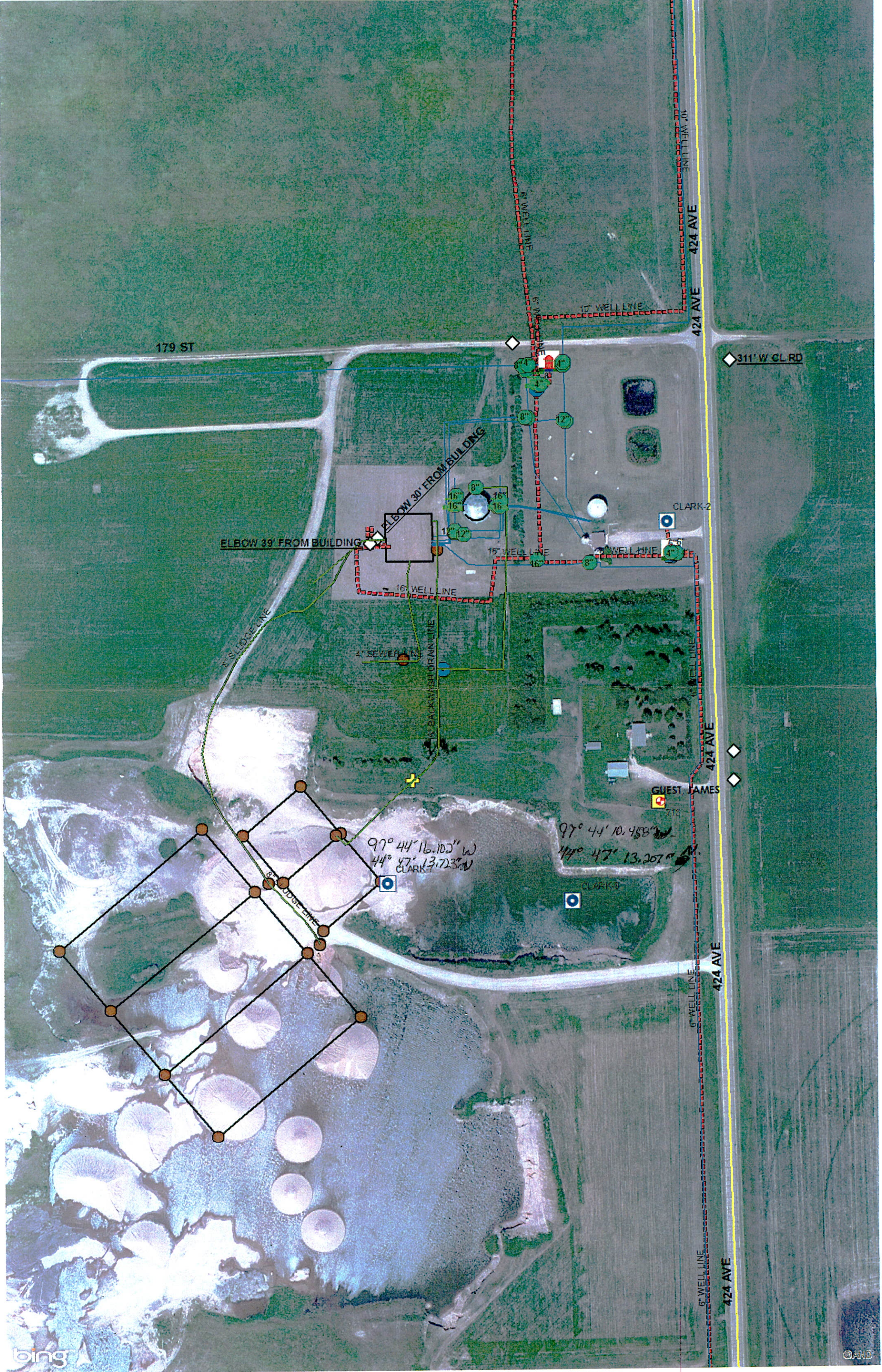
CRWS Well #5 - SW 1/4 of SE 1/4 Section 25, T116, R58

CRWS NEW WELLS – NE1/4 of Section 12, T115, R58

Thank you for your attention in this matter.

Terry Kaufman







116-58-25

116-57-30

Well #3
CLARK-5

Well #1
CLARK-1

8" WELL LINE

CLARK-4

116-58-36

116-57-31

115-58-1

115-57-6

CLARK-2

8" WELL LINE

10" WELL LINE

179 ST

SLURRY

#7 #8

116-58-25

97° 44' 30.706" W
44° 49' 16.442" N
#5974-3



8" WELL LINE



177 ST

99° 44' 13.171" W
44° 49' 10.642" N
#5974A-3



CLARK-1



10" WELL LINE
10" WELL LINE

10" WELL LINE
10" WELL LINE



CLARK-4

6" WELL LINE

424 AVE
424 AVE
424 AVE

424 AVE

424 AVE

424 AVE

130' W CL RD

111' W CL RD

119' W CL RD

SOUTH DAKOTA WATER WELL COMPLETION REPORT

5974A-3

11-02

Location SE 1/4 NE 1/4 Sec 12 Twp 115-N Rg 58-W

County

Clark

North

Please mark well location with an "X"

W

E

Well completion Date

7-29-14

1 Mile

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

1000' ft. from at plant (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket - Fake Casing !!

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50 LB/FT</u>	<u>12 IN</u>	<u>FT</u>	<u>FT</u>	<u>20 IN</u>
<u>50 LB/FT</u>	<u>12 IN</u>	<u>FT</u>	<u>FT</u>	<u>20 IN</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>510 Grout</u>	<u>1</u>	<u>250 Lb/gal</u>	<u>25 FT</u>	<u>5 FT</u>
<u>510 Grout</u>	<u>3</u>	<u>3 Lb/gal</u>	<u>3 FT</u>	<u>10 FT</u>

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12 Inches Length 7 FeetMaterial Stainless SteelSlot Size .080 Set From 23 Feet to 30 FeetOther information 27' 34' west

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 in Port
☐ No, Why Not?

Lab sample sent to for water quality analysis

RWS

Well Owner:

Business Name:

Clark RWS

Address1:

Box 162

Address2:

City, State, Zip:

Clark SD 57205

WELL LOG:

DEPTH

FORMATION	FROM	TO
<u>Gravel 0-9</u>	<u>13</u>	<u>13</u>
<u>Mud 9</u>	<u>13</u>	<u>14</u>
<u>Clean Gravel 30</u>	<u>14</u>	<u>28</u>
<u>Gravel</u>	<u>28</u>	<u>31</u>
<u>Gravel</u>	<u>31</u>	<u>34</u>
<u>SWL-5'</u>		
<u>SWL-11'</u>		

STATIC WATER LEVEL East 5 West 11' FEETIf flowing: closed in pressure 1 PSIGPM flow 1 through 1 Inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherReduced flow rate 1 GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: Sub
☐ Bailed

☐ Other

Pumping Level Below Land Surface

25' Ft. After 2 Hrs. pumped 125 GPM EAST
27' Ft. After 2 Hrs. pumped 300 GPM WEST
If pump installed, pump rate: 1 GPM

REMARKS

RECEIVED

OCT 15 2014

WATER RIGHTS PROGRAM

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm: Lacey Well Drilling Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 10-15-14

Please return WHITE COPY to: DENR Water Rights, 523 E. Capitol Ave., Pierre SD 57501

10-28-14

**Clark Rural Water
Systems, Inc.**



RECEIVED
JUN 23 2016
**WATER RIGHTS
PROGRAM**

5974A-3
PO Box 162, 1001 - 1st Ave. W
Clark, SD 57225
Toll Free 800-657-4310
Phone 605-532-5201
Fax 605-532-3531
Email crws@itctel.com

Eric Gronlund,

The Clark Rural Water System, Inc. is requesting permission to add a well to bring back our well production that we lost when we replaced two old wells with two smaller ones. I am looking to replace one of the wells we took out of service in 2013 even though it is somewhat harder water I can blend it with the new wells during our peak water usage time.

Water Permit No. 5974-3 and 5974A-3

CRWS Well #7 would be drilled in - SE1/4 of SE1/4 Section 25, T116, R 58

Lat. 44.819563°

Long. -97.736955°

Depth of 60' and 200 GPM

Thank you for your attention in this matter.

Terry Kaufman



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

July 20, 2016

Terry Kaufman
Clark Rural Water System
PO Box 162
Clark SD 57225

Dear Mr. Kaufman:

I am writing in regard to Clark Rural Water System's request for an additional well to what is currently authorized by Water Right Nos. 5974-3 and 5974A-3.

Water Right Nos. 5974-3 and 5974A-3, combined appropriate 4.18 cubic feet of water per second (cfs) from four wells located in the E ½ NE ¼ Section 12, T115N, R58W (three wells) and the SW ¼ SW1/4 Section 7, T115N, R57W (one well). Clark Rural Water System requested an additional well to bring well production back to the systems previous level.

Upon review of the request and pursuant to SDCL 46-5-13.1, the additional well to be located in the SE ¼ SE ¼ Section 25, T116N, R58W is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. No increase in the authorized diversion rate of 4.18 cfs from the five wells is authorized. If the total diversion rate increases, a new water right permit will need to be obtained.

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

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program

Request for an Additional Diversion Point

NAME: Clark Rural Water System, Inc.

ADDRESS: PO Box 162, Clark SD 57225

DATE: July 5, 2016 **COUNTY:** Clark **TELEPHONE:** 605 532-5201

BACKGROUND:

Clark Rural Water System has made a request for an additional well under Water Right Nos 5974-3 and 5974A-3.

Water Right Nos. 5974-3 and 5974A-3, combined, appropriate 4.18 cubic feet of water per second (cfs) from four wells located in the E ½ NE ¼ Section 12, T115N, R58W (three wells), and the SW ¼ SW1/4 Section 7, T115N, R57W (one well). All the wells are constructed in the Antelope Lake management unit of the Vermillion East Fork Aquifer. Clark Rural Water System requested an additional well to bring well production back to the systems previous level.

The request states the new well will be 60 feet deep and located in the SE ¼ SE ¼ of Section 25, T116N, R58W.

In 2014, Clark RWS made a request to change the two well locations for wells located in the SE ¼ SE ¼ Section 25, T116N, R58W to the E ½ NE ¼ Section 12, T115N, R58W. One well was authorized by Water Right No. 5974-3 while the other well was one of the three wells authorized by Water Right No. 5974A-3. At the time the basis behind the request was the water produced from the two wells in the SE ¼ SE ¼ of Section 25 had become too hard. However, in changing the well locations the newer wells were smaller than the existing wells. The current request for an additional well seeks to add a well back in the SE ¼ SE ¼ of Section 25 even though the water is hard. Clark RWS believes they can manage the water hardness issue by blending it with the other wells during high peak water usage periods.

AUTHORITY:

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

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

The water source authorized by Water Right Nos. 5974-3 and 5974A-3 is the Antelope Lake management unit of the Vermillion East Fork Aquifer. The additional well is to be completed to a depth of 60 feet which will be the Antelope Lake management unit of the Vermillion East Fork Aquifer.

No additional appropriation of water is requested. This request is to add a well to bring production back to the permitted amount.

- **Existing Diversions**

The well completion report and water rights databases were reviewed for the nearest domestic wells and water rights/permit on file. The nearest domestic well on file completed into this aquifer is approximately

4,600 feet to the north. The nearest water right is located in the quarter section to the east (SW ¼ Section 30, T116N, R57W). This water right has four wells that supply irrigation water with the nearest well about 1,320 feet to the east of Clark RWS's additional well.

- **Observation Well Data**

The Water Rights Program monitors observation wells completed into the Vermillion East Fork:Antelope Lake aquifer. The closest observation well completed into this aquifer is CK-78O located approximately one half mile east of the additional well location. The hydrograph is shown in Figure 1. The hydrograph shows that the aquifer level is primarily controlled by climatic conditions but does show minor effects of seasonal pumping.

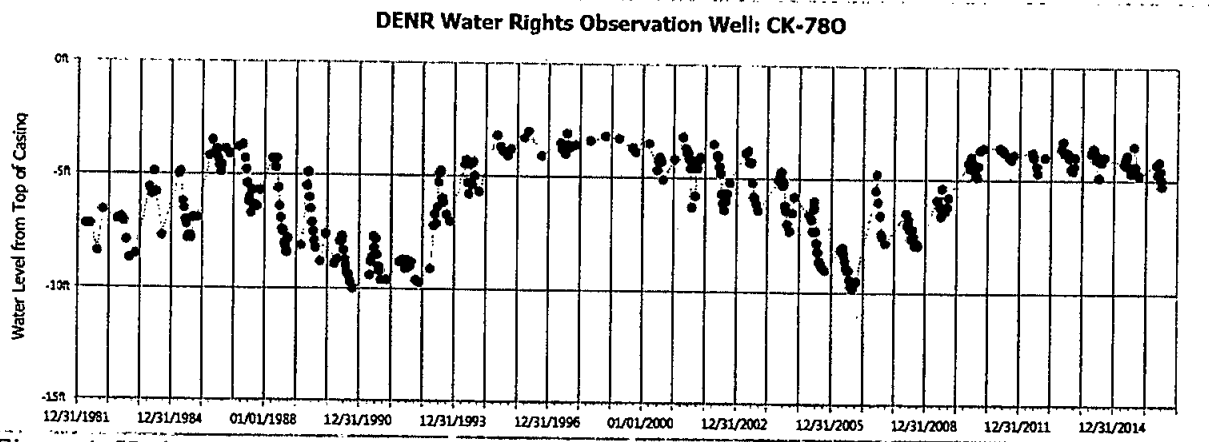


Figure 1 Hydrograph for Observation Well No. CK-78O

Observation well CK-76Q is located approximately two miles south of the requested additional well and completed into the same aquifer. It is located in close proximity to the three production wells authorized by Water Right Nos. 5974-3 and 5974A-3. This observation well does indicate a slightly decreasing trend in the water level. This can be explained by the fact that the aquifer has yet to equilibrate due to the increased pumping since the change of diversion points that were authorized in 2014. Two other observation wells CK-78P and CK-78R located within a mile of CK-76Q both show an increasing trend in water levels.

Given the observation well water level and the distance between the proposed additional well and existing known diversions, unlawful impairment is not expected to occur. Also, this additional well is in the same general location of two previous Clark RWS wells that operated for a number of years with area domestic wells and the wells supplying the irrigation system in the quarter section to the east.

CONCLUSION

- The additional well does not appropriate additional water.
- The water source continues to be Antelope Lake management unit of the Vermillion East Fork Aquifer.
- Interference resulting in unlawful impairment is not expected to occur.

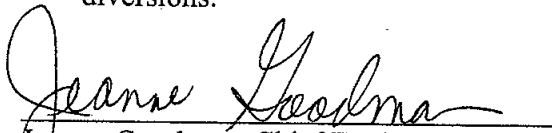
RECOMMENDED ACTION

Based on the above criteria, it is recommended that the additional well under Water Right Nos. 5974-3 and 5974A-3 should be authorized.


Eric Gronlund
Water Rights Program

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

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


Jeanne Goodman, Chief Engineer
Water Rights Program

Clark RWS Request for Additional Well



proposed well #7



St

46

© 2016 Google

Go

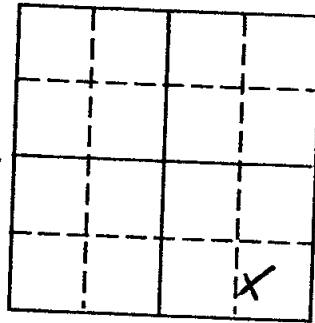
SOUTH DAKOTA WATER WELL COMPLETION REPORT

5974A-3
11-02

Location SE 1/4 SE 1/4 Sec 24 Twp 116N Rg 58W Well Owner:

County CLACK 25 KS North

Please mark well location with an "X"



Well completion Date

10-14-16

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
1/2 mile from house / septic (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket - Fake Casing

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12"</u> IN	<u>+1</u> FT	<u>48.6"</u> FT	<u>20</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>Bestonite</u>	<u>15</u>	<u>6</u> Lb/gal	<u>6</u> Ft	<u>23</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure Bestonite clay mixed pits discharge to

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12 Inches Length 12' Feet
Material Stainless Steel
Slot Size .080 Set From 48.6" Feet to 60.6" 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 pack
☐ No, Why Not?

Lab sample sent to for water quality analysis

Denschem

Please return **WHITE COPY** to: **DENR Water Rights**

Business Name:

Address:

City, State, Zip:

CLACK RW

Bdx 1162

CLACK, SODAK. 57225

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Black Topsoil</u>	<u>0</u>	<u>2</u>
<u>Yellow Clay</u>	<u>2</u>	<u>23</u>
<u>Yellow Sand</u>	<u>23</u>	<u>328</u>
<u>Grey Coarse Gravel</u>	<u>328</u>	<u>606"</u>

STATIC WATER LEVEL

23' FEET
If flowing: closed in pressure _____ PSI
GPM flow _____ through _____ Inch pipe
Controlled by ☐ Valve ☐ Reducers ☐ Other
Reduced flow rate _____ GPM
Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: Sub
☐ Bailed
☐ Other
Pumping Level Below Land Surface
37.4" Ft. After 2 Hrs. pumped 550 GPM
Ft. After _____ Hrs. pumped _____ GPM
If pump installed, pump rate: _____ GPM

REMARKS

VERMILION EAST FORK
ANTELOPE LAKE

RECEIVED

JAN - 3 2017

WATER RIGHTS PROGRAM

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm:

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

523 E Capitol Ave. Pierre SD 57501

CLARK RWS

5606-3 5974-3
5974A-3 6280-3
8360-3

4384-3: VEF:AL 2.0 cfs 2 new wells
#1 SE ¼ SE ¼ Sec 25-T116N-R58W
#2 NE ¼ NE ¼ Sec 12-T115N-R58W
#4 W ½ SW ¼ Sec 7-T115N-R57W

- Originally requested 2.4 cfs from 4 wells. Well sites # 2 (SW ¼ NE ¼ Sec 31-T116N-R57W) & #3 (W ½ SW ¼ Sec 7-T115N-R57W) removed and reduced to 2.0 cfs per 1980 letter.
- Incorporated into 5974A-3.**

4348-3A: VEF:AL n/a CFS 1 new well
#3 NE ¼ NE ¼ Sec 12-T115N-R58W

- Adding additional diversion point, no increase to diversion rate.
- Incorporated into 5974A-3.**

4927-3: VEF:AL **FUTURE USE 221 ac-ft remaining**
Area: W ½ Sec 31-T116N-R57W
E ½ Sec 36-T116N-R58W

5606-3: VEF:AL 0.49 cfs (213 ac-ft) 1 new well
#5 SE ¼ NE ¼ Sec 36-T116N-R58W

- Placement of water to beneficial use from **FU No. 4927-3**

mapped as #4

5974-3: VEF:AL 1.56 cfs (675 ac-ft) 1 new well
#6 E ½ NE ¼ Sec 12-T115N-R58W

- Well moved from original location in SW ¼ SE ¼ Sec 25-T116N-R58W

mapped as #5

5974A-3: VEF:AL 2.62 cfs 3 existing wells + 1 new well
#1 E ½ NE ¼ Sec 12-T115N-R58W
#3 (2) NE ¼ NE ¼ Sec 12-T115N-R58W
#4 (3) SW ¼ SW ¼ Sec 7-T115N-R57W
#7 SE ¼ SE ¼ Sec 25-T116N-R58W

mapped as #s
1, 2, 3, 7

- Well #1 moved from original location in SE ¼ SE ¼ Sec 25-T116N-R58W
- Permit says Wells 1, 3, and 4 are capable of 2.62 cfs but permitting under 4384-3 & 5974A-3 only has 2.22 cfs
- Well #4 developed in SW ¼ SW ¼
- Incorporated 4384-3 & 4348-3A
- License re-named wells #2 is actually #3 & #3 is actually #4.
- Well #7 was requested to be added to the same location Well #1 was previously at.

6280-3: VEF:AL 0.51 cfs (243 ac-ft) 1 new well
#8 NE ¼ SE ¼ Sec 1-T115N-R58W

mapped as #6

8360-3: VEF:AL Authorized connection of Wells #1-8 to other users.

8/28/25





116-58-25-SE

PERMIT # 5974-3
Future Well # 8
PERMIT # 5974A-3 Well #7

116-58-36-NE

PERMIT # 5974A-3 well # 4

WALTER LEWIS

MARK LEWIS

115-58-1-SE

well #6

31.59

31.36

PERMIT # 5974A-3 Well #2

22.62

CLARK TREATMENT PLANT

well #1

PERMIT # 5974A-3

well #5

PERMIT # 5974-3

16

13.46

115-58-12-NE

PERMIT # 5974A-3

well #3

115-57-7-SW

Stairs Slough State Public Shooting Area

Image © 2025 Airbus



116-58-25-SE

Future Well # 8

Well #7

well # 4

115-58-36

115-58-1

well #6

CLARK TREATMENT PLANT

Well #2

well #1

well #5

115-58-12

Stairs Slough State P

well#3

Dewell, Amanda

From: Mathiowetz, Adam (DENR)
Sent: Wednesday, September 3, 2025 10:58 AM
To: Dewell, Amanda
Subject: FW: [EXT] Clark RWS current permitting and capacity
Attachments: Screenshot 2025-08-28 164854.png

Can you please add this along with this email chain to the Clark RWS permit files? If you think we need a file doc, let me know and I will try to get one done this week.

Thank you.



Adam Mathiowetz, PE
Engineer, Water Rights Program
Department of Agriculture and Natural Resources
523 E. Capitol Ave. Pierre SD, 57501
605.773.3352
danr.sd.gov

From: crws@itctel.com <crws@itctel.com>
Sent: Thursday, August 28, 2025 4:54 PM
To: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Subject: Re: [EXT] Clark RWS current permitting and capacity

Here is a little cleaner map.

Terry Kaufman
Clark Rural Water System
605-532-5201
605-881-4364
Crws@itctel.com

From: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Sent: Thursday, August 28, 2025 3:19 PM
To: crws@itctel.com <crws@itctel.com>
Cc: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: RE: Clark RWS current permitting and capacity

Terry,

Below is the table of your wells as numbered on the map you provided and what permit the well is associated with based on our review of your various permit files included all of the change of diversion point and additional diversion point requests.

We do need some more information to determine if your wells as currently organized/operated are in compliance with your permits and if future well #8 is within your current permitting parameters or if it needs water that is currently reserved by your future use permit.

I have CC'ed our permitting administrator Amanda Dewell. I may ask for assistance or a slightly cleaner map that we may add to your permit file to document the current status of your system for ease of any potential permitting questions in the future.

Permit No.	CFS	Ac-ft/yr	CRWS Map Well #'s
5606-3	0.49	213	4
5974-3	1.56	675	5
5974A-3	2.62	n/a	1, 2, 3, 7
6280-3	0.51	243	6
????			8



Adam Mathiowetz, PE
Engineer, Water Rights Program
Department of Agriculture and Natural Resources
523 E. Capitol Ave. Pierre SD, 57501
605.773.3352
danr.sd.gov

From: crws@itctel.com <crws@itctel.com>
Sent: Friday, August 22, 2025 11:48 AM
To: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Subject: Re: [EXT] Clark RWS current permitting and capacity

Here are 2 different file types just incase I didn't send them to you.

Terry Kaufman
Clark Rural Water System
605-532-5201
605-881-4364
Crws@itctel.com

From: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Sent: Wednesday, July 16, 2025 2:30 PM
To: crws@itctel.com <crws@itctel.com>
Cc: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>; Duvall, Ron <Ron.Duvall@state.sd.us>
Subject: Clark RWS current permitting and capacity

Terry,

Please send us a map of your current well locations and what permits you believe are associated with each well. We will then figure out if that is correct, diversion rates and annual volumes permitted. That way we can make sure

database is accurate or help you through any potential permitting the rural water system may need to consider a possible new customer.



Adam Mathiowetz, PE

Engineer, Water Rights Program

Department of Agriculture and Natural Resources

523 E. Capitol Ave. Pierre SD, 57501

605.773.3352

danr.sd.gov