

WATER PERMIT NO. 1898-1

Name of Applicant: **Viewfield Rural Water Association, Inc.**

Address: **PO Box 157, New Underwood SD 57761** Phone: **605 441-6165**

Amount of Water Claimed: **0.15 cfs** Total Acres: **NA**

Source of Water Supply: **groundwater (1 existing well)**

Water to be used for: **rural water system use** County: **MD**

Type of Waste Disposal System:

Location: **6 miles northwest of New Underwood**

PRIORITY Date Received: **8-19-08** Application/License Fee: **\$300**

Corrected Application Received: Period of Annual Use: **January 1 – December 31**

Remarks: **Increase the diversion rate authorized by Water Permit No. 1893-1 from 130 gpm to 200 gpm**

Diversion Point: **NE ¼ SE ¼ Sec 3-T3N-R10E**

Land to be Irrigated: **NA**

Depth of Well: **2780 feet deep**

Well Driller: **Taylor Drilling**

Remarks:

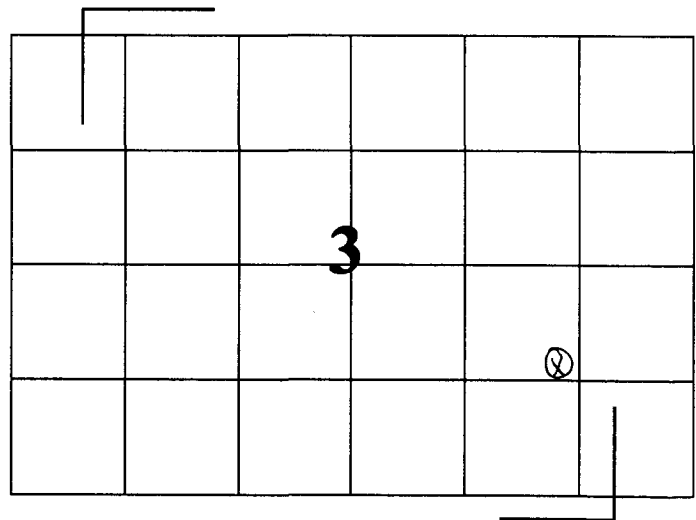
Type of Map: **plat**

Prepared by: **Mitchell B Kertzman, PE**

Reviewed and the Number Assigned on: **8-19-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>1898-1</u>	(office use only) Hydrologic Unit <u>10120111</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Meade Co Times Tribune</u>	<u>2022 Main St.</u>
	<u>605-347-2503</u>	<u>Sturgis 57785</u>

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AUG 19 2008
WATER RIGHTS
PROGRAM

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

Check use(s) of water:

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

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☒ Amendment/Correction to Permit No. 1893-1

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

Requesting additional diversion authority for well authorized under water permit application no. 1893-1
{specifically, increase diversion authority from 130 gpm to 200 gpm}

- Name of Applicant VIEWFIELD RURAL WATER ASSOCIATION INC. Phone (605) 441-6165
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P. O. Box 157 New Underwood State SD 57761
(Street, RR, or Box and City) 70 additional (Zip Code)
- Amount of water claimed 6.155 *CFS or 200 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Inyan Kara Aquifer
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Meade
NE 1/4---SE 1/4---Section 3---Twp 3N---Rge 10E
- County or counties where water will be used Meade
- Annual period during which water is to be used January 1 through December 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Map together with the Proposal to the Bureau of Reclamation, detailing the project description, well construction cost estimate, and geologic cross section, submitted with Application for Permit No. 1893-1, dated 11-13-07. Attached to this Application is a copy of the South Dakota Well Completion Report, dated 07-24-08, prepared by Taylor Drilling Co. and signed by Larry Gossard of Viewfield RWA.

STATE OF SOUTH DAKOTA)
County of Pennington) SS

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

I, Larry Gossard--Viewfield RWA, 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 Larry Gossard, pres. VRWA

Subscribed and sworn to before me this 15th day of August 20 08

Larry L. Graham
Notary Public Commission Expires 4-22-13
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 1898-1**

Date of first receipt of application August 19, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1898-1 to Viewfield Rural Water Association Inc., PO Box 157, New Underwood SD 57761 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. 1898-1 increases the diversion rate authorized by Water Permit No. 1893-1. Water Permit No. 1893-1 appropriates 0.29 cubic feet of water per second (cfs) from one well completed into the Inyan Kara Aquifer (2,780 feet deep) located in NE 1/4 SE 1/4 Section 3-T3N-R10E. This permit appropriates an additional 0.155 cfs from the existing well. Water Permit No. 1893-1 and this permit, combined, will authorize a total of 0.445 cfs.
2. The water appropriated shall be used for the purpose of rural water system use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1898-1 is October 20, 2008.
5. The date from which applicant may claim right is August 19, 2008.
6. One-fifth of the construction is to be completed on or before April 20, 2011.
7. All construction is to be completed on or before October 20, 2013.
8. Water is to be put to beneficial use on or before October 20, 2017.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Permit Nos. 1893-1 and 1898-1 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 construction for the well authorized by Permit Nos. 1893-1 and 1898-1 is deemed acceptable at the time when Viewfield Rural Water Association accepts the well by initial distribution of water through the pipeline.
3. Viewfield Rural Water Association shall report to the Chief Engineer annually the amount of water withdrawn from this well completed in the Inyan Kara Aquifer.

WATER MANAGEMENT BOARD

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

JAN 27 2009
date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 13.5/8.75/6.2 Depth 2,780 ft.
- b) Casing Type steel Diameter 9 5/8-7-4 1/2 in. Thickness
- c) Screen Type Diameter Thickness
- d) Gravel Pack Length of Gravel Pack
- e) Depth to Top of Water Bearing Material 2,508 ft.
- f) Depth to Water (ground surface to water level) 330 ft.
- g) Distance to nearest existing domestic well:
- On applicants property 5.36 miles On property owned by others

2. Wastewater Disposal System Information

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

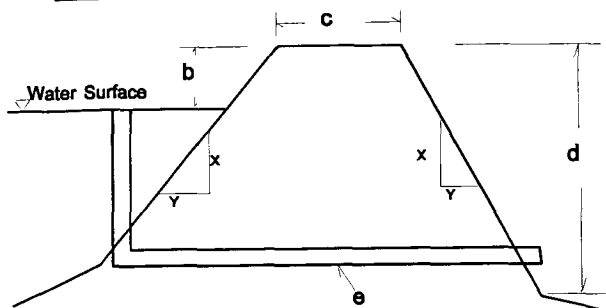
3. Dugout Information

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

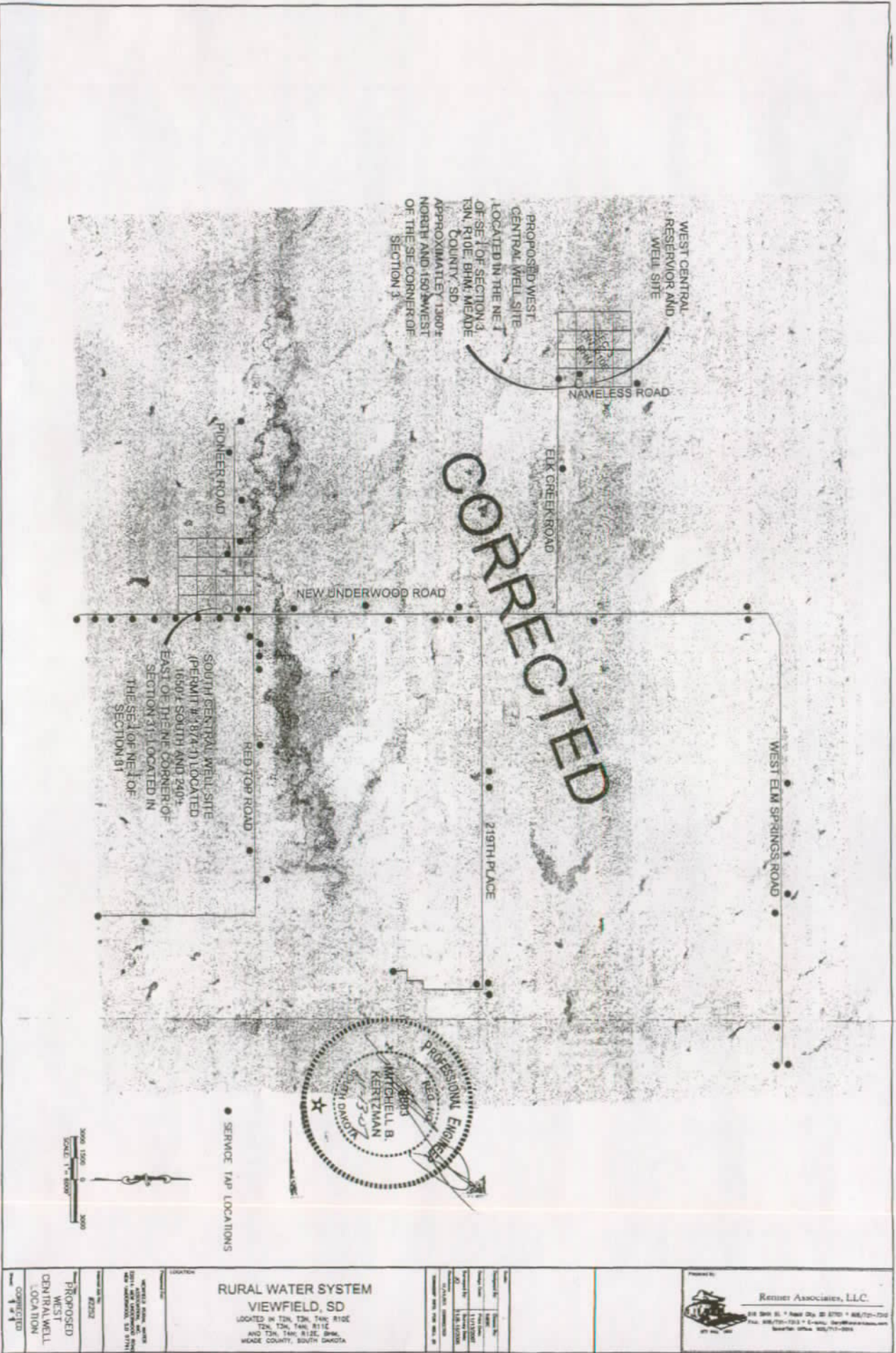
4. Water Storage Dams

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

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



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



**RURAL WATER SYSTEM
VIEWFIELD, SD**

LOCATED IN T2N, T3N, T4N, R10E
T2N, T3N, T4N, R11E
AND T2N, T4N, R12E, B1W,
MEADE COUNTY, SOUTH DAKOTA



Renner Associates, LLC.

218 5th St. • Rapid City, SD 57701 • 605/726-7240
Fax: 605/726-7241 • E-mail: info@rennerassoc.com
Internet: www.rennerassoc.com

SOUTH DAKOTA WATER WELL COMPLETION REPORT

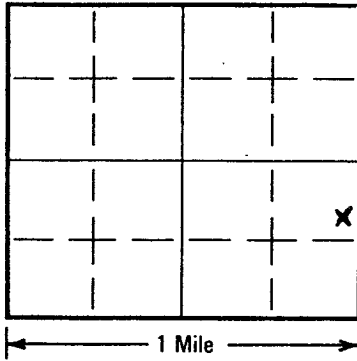
07-92

Location NE 1/4 SE 1/4 Sec 3 Twp 3 N Rg 10 ECounty Meade

Please mark well location with an "X"

Surface Elevation W
is 2,926 ft.

Well Completion Date

July 24, 08

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 120 ft. from Septic (identify source).PROPOSED USE: Rural Water System
☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary - MudCASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>36</u> LB/FT	<u>9 5/8</u> IN	<u>0</u> FT	<u>86</u> FT	<u>13 1/2</u> IN
<u>23</u> LB/FT	<u>7</u> IN	<u>+2</u> FT	<u>1400</u> FT	<u>8 3/4</u> IN
<u>11.6</u> LB/FT	<u>4 1/2</u> IN	<u>1340</u> FT	<u>2780</u> FT	<u>6 1/4</u> IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	<u>90/285</u>	<u>11.5/14.8</u> lb./gal	<u>0</u> ft.	<u>1400</u> ft.
<u>Cement</u>	<u>80/75</u>	<u>11.5/14.8</u> lb./gal	<u>1340</u> ft.	<u>2780</u> ft.

Describe grouting procedure 9 5/8 - 7 - 4 1/2 Pressure grouted Through casingSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: chlorine Solution
☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

AUG 19 2008

WATER RIGHTS PROGRAM

Well Owner: View Field Rural Water Assoc. Inc.

Business Name: _____

Address: P.O. Box 157
New Underwood SD 57761

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>TAN Clay, Gravel, TAN & Gr. sh</u>	<u>0</u>	<u>70</u>
<u>Pierre</u>	<u>70</u>	<u>1000</u>
<u>Niobrara</u>	<u>1000</u>	<u>1206</u>
<u>Carlisle</u>	<u>1206</u>	<u>1558</u>
<u>Green Horn</u>	<u>1558</u>	<u>1688</u>
<u>Belle Fourche - Mowry</u>	<u>1688</u>	<u>2278</u>
<u>New castle</u>	<u>2278</u>	<u>2320</u>
<u>Skull creek</u>	<u>2320</u>	<u>2508</u>
<u>INYAN KARA</u>	<u>2508</u>	<u>2710</u>
<u>MARSHALL - SUNDANCE</u>	<u>2710</u>	<u>2780</u>

STATIC WATER LEVEL 330 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 Developed☐ Bailed _____☒ Other _____

Pumping Level Below Land Surface

760 ft. After 8 Hrs. pumped 250 GPM600 ft. After 4 Hrs. pumped 175 GPM

If pump installed, pump rate _____ GPM

REMARKS

The 4 1/2" casing WAS Jet Perforated @
2665' - 2700' - 4 shots / FT.
141 shots TOTAL

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm Taylor DrillingSignature of License Representative: K Tyl

Signature of Well Owner or Equitable Property Holder:

Darryl Howard for VRWADate: 7-29-08

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/19/2008

RECEIVED OF Viewfield Rural Water Assn Inc PO Box 157 New Underwood SD 57761

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

Fee for Application for Permit No. <u>1277-1</u> to Appropriate Water, to construct and to put water to beneficial use	300	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 _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	300 00

No.

03724

By

Gerard P. Erbe
Chief Engineer

Corporate Officers
Larry Gossard, President
605-754-6760

Charles Larsen, Vice-President
605-754-6562

Pamela Cox, Secretary
605-754-6752

Barbara Dedic, Treasurer
605-754-6772

Viewfield Rural Water Association Inc.

P.O. Box 157
New Underwood SD 57761



APPLICATION TRANSMITTAL MEMORANDUM

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

RECEIVED
AUG 19 2008
WATER RIGHTS
PROGRAM

Xc: Board of Directors of the Viewfield Rural Water Association Inc.
Mitch Kertzman, Renner & Associates

FROM: Paul Gnirk
Member
Viewfield Rural Water Association Inc.
P. O. Box 157
New Underwood, SD 57761

PG / 08-15-08

DATE: August 15, 2008

SUBJECT: Transmittal of Application for Permit to Appropriate Water within the State of South Dakota {Request for additional diversion authority under Water Permit Application No. 1893-1}.

Please find attached:

- {1} Form 2: Application for Uses other than Irrigation {Application for Permit to Appropriate Water within the State of South Dakota}, together with Form 2A: Supplemental Information.
- {2} A check from the Viewfield Rural Water Association in the amount of \$300.00 to cover the filing fee.

This Application is a request for additional diversion authority for the well authorized under Water Permit Application No. 1893-1. The diversion authority under Water Permit Application No. 1893-1 is 130 gpm. The Viewfield Rural Water Association Inc. requests that the diversion authority be increased to 200 gpm.

Completion of the well, including logging and testing, took place on July 24, 2008. The South Dakota Water Well Completion Report, attached to Form 2A, states that the water production is 250 gpm by means of air development for a pumping level of 760 ft. below the land surface. According to Randy Taylor of Taylor Drilling Company, the rate of water production by means of air development represents something like 80% of the production capacity of the well.

If you should have any questions or need additional information, please do not hesitate to contact me [Tel: 605-754-6700/Cell 605-390-9319], or Larry Gossard {Cell 605-441-6165}, or Mitch of Renner & Associates [Cell 605-209-5992].

Corporate Officers
Larry Gossard, President
605-754-6760

Charles Larsen, Vice-President
605-754-6562

Pamela Cox, Secretary
605-754-6752

Barbara Dedic, Treasurer
605-754-6772

Viewfield Rural Water Association Inc.

P.O. Box 157
New Underwood SD 57761



APPLICATION TRANSMITTAL MEMORANDUM

RECEIVED

AUG 19 2008

WATER RIGHTS
PROGRAM

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

Xc: Board of Directors of the Viewfield Rural Water Association Inc.
Mitch Kertzman, Renner & Associates

FROM: Paul Gnirk
Member
Viewfield Rural Water Association Inc.
P. O. Box 157
New Underwood, SD 57761

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Completion of the well, including logging and testing, took place on July 24, 2008. The South Dakota Water Well Completion Report, attached to Form 2A, states that the water production is 250 gpm by means of air development for a pumping level of 760 ft. below the land surface. According to Randy Taylor of Taylor Drilling Company, the rate of water production by means of air development represents something like 80% of the production capacity of the well.

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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1898-1, Viewfield Rural Water Association**

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. 1898-1, Viewfield Rural Water Association, c/o Larry Gossard, PO Box 157, New Underwood SD 57761.

The Chief Engineer is recommending APPROVAL of Application No. 1898-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

1. The well approved under Permit Nos. 1893-1 and 1898-1 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 construction for the well authorized by Permit Nos. 1893-1 and 1898-1 is deemed acceptable at the time when Viewfield Rural Water Association accepts the well by initial distribution of water through the pipeline.
3. Viewfield Rural Water Association shall report to the Chief Engineer annually the amount of water withdrawn from this well completed in the Inyan Kara Aquifer.

See report on application for additional information.

Garland Erbele, Chief Engineer
September 23, 2008

REPORT FOR WATER PERMIT APPLICATION NO. 1898-1
VIEWFIELD RURAL WATER ASSOC. INC.
SEPTEMBER 16, 2008

Water Permit No. 1893-1 appropriates 0.29 cubic feet of water per second (cfs) from one well 2,780 feet deep, completed into the Inyan Kara aquifer. The well is located in the NE¼ SE¼ Section 3, T3N-R10E. Water Permit Application No. 1898-1 proposes to increase the appropriation from the well authorized by Water Permit No. 1893-1 an additional 0.155 cfs. The combined appropriation from this well through Water Permit No. 1893-1 and this application, if approved, would be 0.445 cfs (approximately 200 gpm), for rural water system use.

Water Source: Inyan Kara aquifer (INKR)

Geology and Aquifer Characteristics:

A description of the Inyan Kara aquifer in this area is included in the report for Water Permit No. 1893-1 (Water Rights, 2008a). The South Dakota Water Well Completion Report received for the well that will be used to supply water for Water Permit No. 1893-1 and this proposed appropriation identifies the top of the Inyan Kara aquifer at 2,508 feet below grade. The static water level of the well was reported to be 330 feet below grade in July 2008. The report indicates the well produced 250 gallons per minute when air developed from 760 feet below grade.

Water Availability:

A discussion on the availability of water from the Inyan Kara aquifer in this area is included in the Report for Water Permit Application No. 1893-1 (Water Rights, 2008a). The additional volume of water requested by this application (i.e. 0.155 cfs for a maximum of 112.2 ac-ft/yr) will basically have an insignificant impact on a water balance for the Inyan Kara aquifer. For all practical purposes, the availability of unappropriated water from the Inyan Kara aquifer will not be impacted if this application is approved; consequently unappropriated water is available for this appropriation.

Effect on Existing Water Rights:

The nearest well completed into the Inyan Kara aquifer, not belonging to Viewfield Rural Water Association, supplies Water Permit 1799-1, Kaski Homes, Inc. The Kaski Homes well is located approximately seven and one-half miles from the well that is to be used to supply this appropriation. Well interference is not expected to be significant given the distance between wells and the relatively small diversion rate proposed.

Well Construction:

The completion report filed for this well indicates the casing interval from 2,665-2,700 feet below grade was jet perforated with a total of 141 perforations. The relatively limited open area of the perforations will result in water entering the casing with a velocity probably exceeding five feet per second at a pumping rate of 200 gpm. SD Well Construction Standard (ARSD) 74:02:04:51 requires that the length and diameter of perforated casings

shall be sufficient to permit the passage of the water permit or right capacity, with a water velocity through the casing not to exceed one-tenth foot per second.

The standard (74:02:04:51) was probably adopted due to problems perceived to result from a high velocity of water entering the casing. Excessive entrance velocity may result in excessive sand production, and it has been suggested that higher velocities significantly enhance corrosion and encrustation rates (Driscoll, 1986). Any of these issues could lead to increased maintenance of the well over the long term.

Although there has been some acceptance from the water well industry that high entrance velocities can create problems. The industry is not in total agreement. For example, The American Water Works Association (AWWA) publishes its Standard for Water Wells (A-100-97) which specifically addresses the design and construction issues of water wells. The Forward of the Standard states that

“Based on a significant body of ongoing research within the ground water industry, the Committee recognizes as part of this current standard that there is no singular uniquely defined criterion for permissible velocity through the screen slot openings that is solely suitable for designing a well without consideration of the aquifer characteristics and the manner of construction”.

“The user of this standard is cautioned to thoroughly examine the issue of well-screen entrance velocity and establish upper limits of entrance velocity if aquifer conditions and experience so dictate...”

The Inyan Kara aquifer has been developed throughout South Dakota with wells constructed with perforated casing that has resulted in water velocity through the casing in excess of one-tenth foot per second. Years of experience with this type of well suggests that the aquifer conditions tolerate the high entrance velocities and the wells have a reasonable life.

In part, the intent of the South Dakota Well Construction Standards (ARSD 74:02:04:23(7)) provides for a reasonable life for all wells. The well construction standard also stipulates that “When conflicts develop in interpretation of the South Dakota well construction standards this section will be the basis for settlement of the conflicts”.

South Dakota Well Construction Standard 74:02:04:75 allows the chief engineer to grant a variance that is reasonable in his judgment. Provided the water produced from this well is relatively sand free, a variance from ARSD 74:02:04:51 would be reasonable since the well construction meets the intent of the standards.

Conclusions:

1. The Inyan Kara aquifer is a viable aquifer in this area and unappropriated water is available for this appropriation.
2. Well interference should not be a problem with this proposed increased pumping rate from the existing well.
3. Provided the water produced from this well is reasonably sand free, the well construction technique used for this existing well (i.e. perforating the casing after

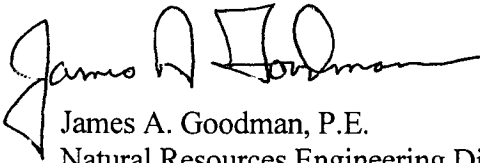
installation) should be considered a reasonable completion method. Approval of this application should be considered acceptance of the well construction and in essence a variance from ARSD 74:02:04:51.

4. This appropriation is quantified by diversion rate only.



Ken Buhler
Natural Resources Engineering Specialist

approved by



James A. Goodman, P.E.
Natural Resources Engineering Director

References:

American Water Works Association, 1998, AWWA Standard for Water Wells,
ANSI/AWWA A100-97

Driscoll, F.G., 1986, Ground Water and Wells, Second Edition, Johnson Division, St. Paul,
MN

Water Rights, 2008a, Water Permit 1893-1, SD DENR-Water Rights Program, Joe Foss
Building, Pierre, SD

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Meade) SS

I, Pam Buehler

certify that the attached printed Notice was taken

from the Meade Co Times

printed and published in Sturgis
County of Meade and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Oct. 1, 2008

Oct. 8, 2008

Cost of Printing \$42.30

Pamela Buehler
(Signature)

Office Manager
(Title)

10/8/08
(Date Signed)

NOTICE OF APPLICATION NO.

1893-1 to Appropriate Water

Notice is given that Viewfield Rural Water Association Inc., c/o Larry Gossard, PO Box 157, New Underwood SD 57761 to increase the diversion rate authorized by Water Permit No. 1893-1. Water Permit No. 1893-1 appropriates 0.29 cubic feet of water per second (cfs) from one well completed into the Inyan Kara Aquifer (2,780 feet deep) located in NE 1/4 SE 1/4 Section 3-T3N-R10E. This application proposes to appropriate an additional 0.155 cfs from the existing well. Water Permit No. 1893-1 and this applica-

tion, combined, will authorize a total of 0.445 cfs for rural water system use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1893-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or 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 October 20, 2008.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for

opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Meade County Times-Tribune
Publ. Oct. 1 & 8, 2008

RECEIVED

OCT 10 2008

CLERK OF COURT



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 23, 2008

Meade County Times & Tribune
1022 Main St
Sturgis SD 57785

ATTENTION: Legal Public Notice

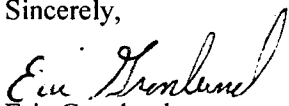
Enclosed is a Notice on Application No. 1898-1 to Appropriate Water to be published twice. Please publish the first notice on October 1, 2008 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Viewfield Rural Water Assn. Inc. c/o Larry Gossard, PO Box 157, New Underwood SD 57761 (Ph # 605-441-6165).

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

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

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 1898-1

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

Date _____

We are in receipt of your letter of September 23, 2008 enclosing Notice to Appropriate Water by Application No. 1898-1 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

September 23, 2008

Viewfield Rural Water Assn Inc
Larry Gossard
PO Box 157
New Underwood SD 57761

Dear Mr. Gossard:

Water Permit Application No. 1898-1 for rural water use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Meade County Times & Tribune printed at Sturgis SD (Ph # 605-347-2503). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the 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 October 1, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1898-1 to Appropriate Water

Notice is given that Viewfield Rural Water Association Inc., c/o Larry Gossard, PO Box 157, New Underwood SD 57761 to increase the diversion rate authorized by Water Permit No. 1893-1. Water Permit No. 1893-1 appropriates 0.29 cubic feet of water per second (cfs) from one well completed into the Inyan Kara Aquifer (2,780 feet deep) located in NE ¼ SE ¼ Section 3-T3N-R10E. This application proposes to appropriate an additional 0.155 cfs from the existing well. Water Permit No. 1893-1 and this application, combined, will authorize a total of 0.445 cfs for rural water system use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1898-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or 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 October 20, 2008.

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 27 2009

Viewfield Rural Water Assn Inc
c/o Larry Gossard
PO Box 157
New Underwood SD 57761

Dear Mr. Gossard:

Enclosed is Water Permit No. 1898-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit Nos. 1893-1 and 1898-1

I have this day, June 5, 2017 made a thorough examination of the water use system constructed by **Viewfield Rural Water Association Inc.**, 16195 Pioneer Rd, New Underwood, SD 57761 of Permit Nos. **1893-1**, bearing the priority of **11/14/2007** and **1898-1**, bearing the priority of **8/19/2008** authorizing the diversion of **0.445** cu. ft. per second of the water from one well for rural water system use in Meade County.

Inspection contact & relationship to permit holder, if applicable: **Larry Gossard, President**
605-515-3613 (cell)

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Taylor Drilling (2008)
- 2) No. of Wells 1
- 3) Depth(s) 2,780 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 9 5/8" 0 to 86' surface casing
7" +2' to 1,400'
4 1/2" 1,340' to 2,780'
- 2) Length 2,782 feet
- 3) Type steel

Screen:

- 1) Type shot perforated
- 2) Length 35 feet (4 shots/ft)
- 3) Static water level 330 feet

Pump:

- 1) Make Grundfos
- 2) Model 150S400-19
- 3) Size 6"
- 4) Capacity 177 GPM metered rate (This is a 150 gpm pump operating a 177 gpm using a variable speed controller. The pump is set at 800 ft. with the drawdown estimated at the 600 ft. level)
- 5) Horsepower rating 40 hp

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

- 1) Type PVC
- 2) Size Varies from 8" to 3"
- 3) Length approximately 35 miles

C. Works used to apply water to beneficial use:

The well pumps to a 279,000 gallon steel storage tank located at the well site. The storage gravity feeds to supply 70 metered connections. The system is also served by a second well located 5.4 miles to the southeast (Permit No. 1874-1) and provides water to 65 homes and approximately 5,000 head of livestock.

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows:
1,463' N and 168' W of the SE corner Section 3 T3N R10E (44.245387, -102.890302)
2. The works are capable of diverting and conveying to the place of use .394 cu. ft. per second (177 gpm) of water which is to be used for **rural water system** use and the license should be issued for .394 cfs
3. All structures, wells and lands on map: **No, well and storage location only.**

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

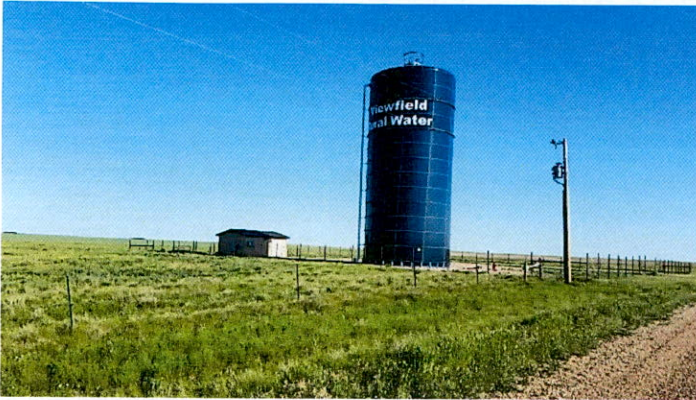
Permit No. 1893-1 authorized 0.29 cfs in 2007 for a new well to be constructed. After the well was constructed in 2008, Permit 1898-1 authorized an additional .155 cfs for a total diversion rate of 0.445 cfs from the existing well. Viewfield Rural Water System is also served by a second well authorized by Permit No. 1874-1.



Steven Quissell
Water Rights Inspector
DENR Water Rights Program

Date Report Completed: 6/5/2017

Report of Examination of Works
Permit Nos. 1893-1 and 1898-1



279,000 gallon storage

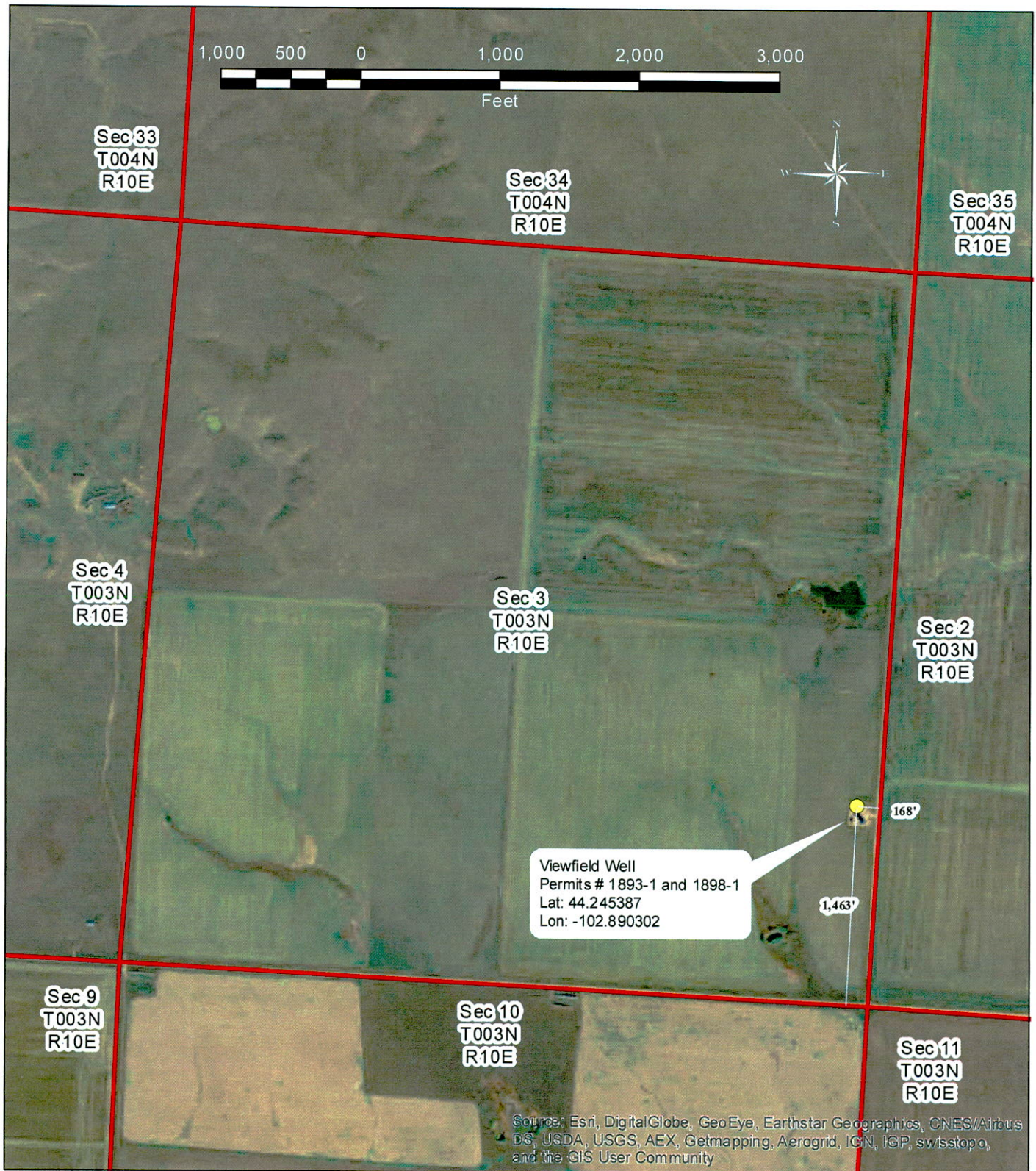


Well, storage and pump house



Pump house appurtenances

Water Right Nos. 1893-1 and 1898-1
Viewfield Rural Water Association
6/5/2017



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program



**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 1898-1**

(1) Viewfield Rural Water Association Inc., 16195 Pioneer Rd, New Underwood SD 57761 made Application No. 1898-1, August 19, 2008 for a water permit to divert 0.155 cubic feet of water per second (cfs) from ground water, one existing well (Inyan Kara Aquifer), Meade County, South Dakota for rural water system purposes. Permit No. 1898-1, with a priority date of August 19, 2008 was approved October 20, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before October 20, 2013 and for the application to beneficial use of said water on or before October 20, 2017.

Water Permit No. 1893-1, with a priority date of November 14, 2007, authorizes diversion of 0.29 cfs from one well. Water Permit No. 1898-1 was obtained to appropriate an additional 0.155 cfs from the same well to allow for a combined appropriation of 0.445 cfs.

An investigation of the water use system found the works were capable of 0.394 cubic feet of water per second. **The applicable portions of Water Permit No. 1893-1 are incorporated into this water license.** Priority dates are as follows:

- November 14, 2007 (established under No. 1893-1) is retained for 0.290 cfs
- August 19, 2008 (established under No. 1898-1) is retained for 0.104 cfs

(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 0.394 cubic feet of water per second for beneficial use. The location of the diversion point is 1,463'N and 168'W of the SE corner of Section 3, T3N, R10E (NE ¼ SE ¼). ***The rural water system is also served by a second well located 5.4 miles south east and covered under Water Right No. 1874-1.***

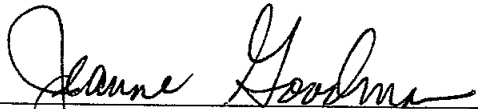
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Viewfield Rural Water Association Inc., 16195 Pioneer Rd, New Underwood SD 57761 the holder and/or owner of Incorporated Water Right No. 1898-1 is issued a license to appropriate water, the right to use 0.394 cubic feet of water per second from ground water, one well (Inyan Kara Aquifer) with priority dates of November 14, 2007 (0.290 cfs) and August 19, 2008 (0.104 cfs) from the location specified in (2) of this license for rural water system purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Right No. 1898-1 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- ***(From 1893-1)*** The well authorized by Permit No. 1893-1 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the 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. ***The well was drilled in July, 2008 by Taylor Drilling. A copy of the well completion report is on file with the Water Rights Program.***

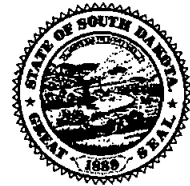
- *(From 1898-1)* The construction for the well authorized by Permit Nos. 1893-1 and 1898-1 is deemed acceptable at the time when Viewfield Rural Water Association accepts the well by initial distribution of water through the pipeline.
- Viewfield Rural Water Association shall report to the Chief Engineer annually the amount of water withdrawn from the Inyan Kara Aquifer.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUN 21 2017

date



1898-1



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

JUN 21 2017

1874-1
1893-1
1898-1

Larry Gossard, President
Viewfield Rural Water Association Inc
16195 Pioneer Rd
New Underwood SD 57761

Dear Mr. Gossard:

Enclosed are Water License Nos. 1874-1 and 1898-1. These are the final water right documents completing your process of obtaining Water Rights. Included with each license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, 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.

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Note: Upon licensing, the applicable portions of Water Permit No. 1893-1 were incorporated into Water License No. 1898-1.