

WATER PERMIT NO. 1896-1

Name of Applicant: **Clover Water System**

Address: **2006 Meadowlark Drive, Sturgis SD 57785**

Phone: **605 347-2948**

Amount of Water Claimed: **0.1 cfs**

Total Acres: **NA**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **water distribution system**

County: **Meade**

Type of Waste Disposal System:

Location: **30 miles northeast of Sturgis**

PRIORITY

Date Received: **4-28-08**

Application/License Fee: **\$100**

Corrected Application Received: **5-9-08**

Period of Annual Use: **January 1 – December 31**

Remarks: **Serve users in Butte and Meade Counties**

Diversion Point: **SE ¼ SW ¼ Sec 23-T7N-R9E**

Land to be Irrigated: **NA**

Depth of Well: **3240 feet deep**

Well Driller:

Remarks:

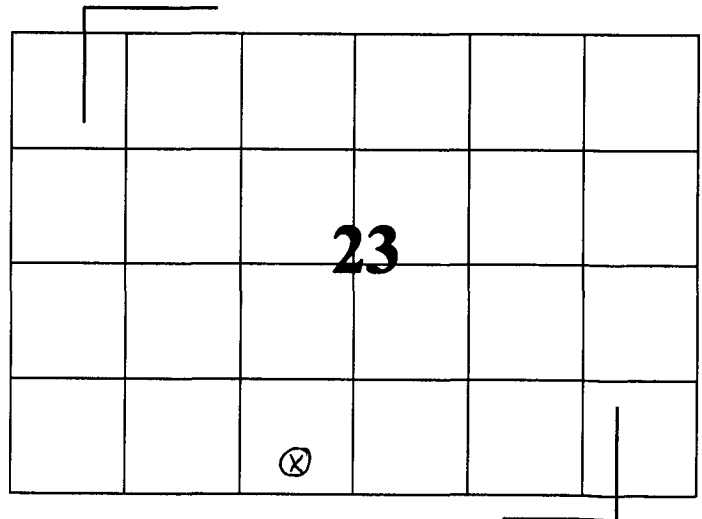
Type of Map: **aerial**

Prepared by: **Justin Boerboom, Meade Co NRCS**

Reviewed and the Number Assigned on: **5-9-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



RECEIVED
APR 28 2008
WATER RIGHTS
PROGRAM

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>1896-1</u>	(office use only) Hydrologic Unit <u>10120202</u>
	Basin <u>Belle Fourche River</u>	
	Newspaper <u>Meade Co. Times & Tribune</u>	<u>PO Box 69</u>
	<u>Sturgis 57785</u>	

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

Check use(s) of water:

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

Type of Application: (check one)

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

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

1. Name of Applicant clover water system Phone 605-347-2948
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 2006 meadowlark Drive, Sturgis State SD 57785
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.1 *CFS or 45 **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 ground water
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County meade
1 well Quarter - SW 1/4, section - 23, Township 7N, Range - 9E
SE 1/4
5. County or counties where water will be used meade Butte
6. Annual period during which water is to be used JAN 1 - DEC 31
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)

clover water system to run water distribution
lines to water livestock

STATE OF SOUTH DAKOTA)
County of Meade) 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, _____, 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 David Richards (Clover water system)

Subscribed and sworn to before me this 23rd day of April 20 08

My Commission Expires 8/18/11

Notary Public

Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 1896-1**

Date of first receipt of application April 28, 2008.

Date of return to applicant for corrections, amendments or changes April 28, 2008.

Date of receipt of corrected application May 9, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1896-1 to Clover Water System, 2006 Meadowlark Drive, Sturgis SD 57785 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. 1896-1 appropriates 0.1 cubic feet of water per second from one well to be completed into the Inyan Kara Aquifer (approximately 2800 feet deep) located in SE ¼ SW ¼ Section 23-T7N-R9E.
2. The water appropriated shall be used for the purpose of a water distribution system for livestock to serve users in Meade and Butte Counties and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1896-1 is July 14, 2008.
5. The date from which applicant may claim right is April 28, 2008.
6. One-fifth of the construction is to be completed on or before January 14, 2011.
7. All construction is to be completed on or before July 14, 2013.
8. Water is to be put to beneficial use on or before July 14, 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 this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 1896-1 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

JUL 28 2009

date



(type or print in ink)

1. Well Information - Proposed Construction

- 1434" - 40' 9 7/8" - 900' 7 7/8" - 2300' Depth 3240'
- a) Drill Hole Diameter _____
- b) Casing Type Steel Diameter 10 3/4" - 7" S.S" Thickness Unknown
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____

On applicants property _____ 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 _____

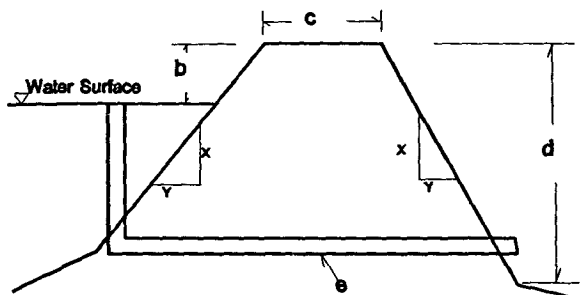
3. Dugout Information

- 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

CONSERVATION PLAN MAP

Date: 2/26/2008

EQIP 2008
RECEIVED

Customer(s): WADE BACHAND

District: ELK CREEK CONSERVATION DISTRICT

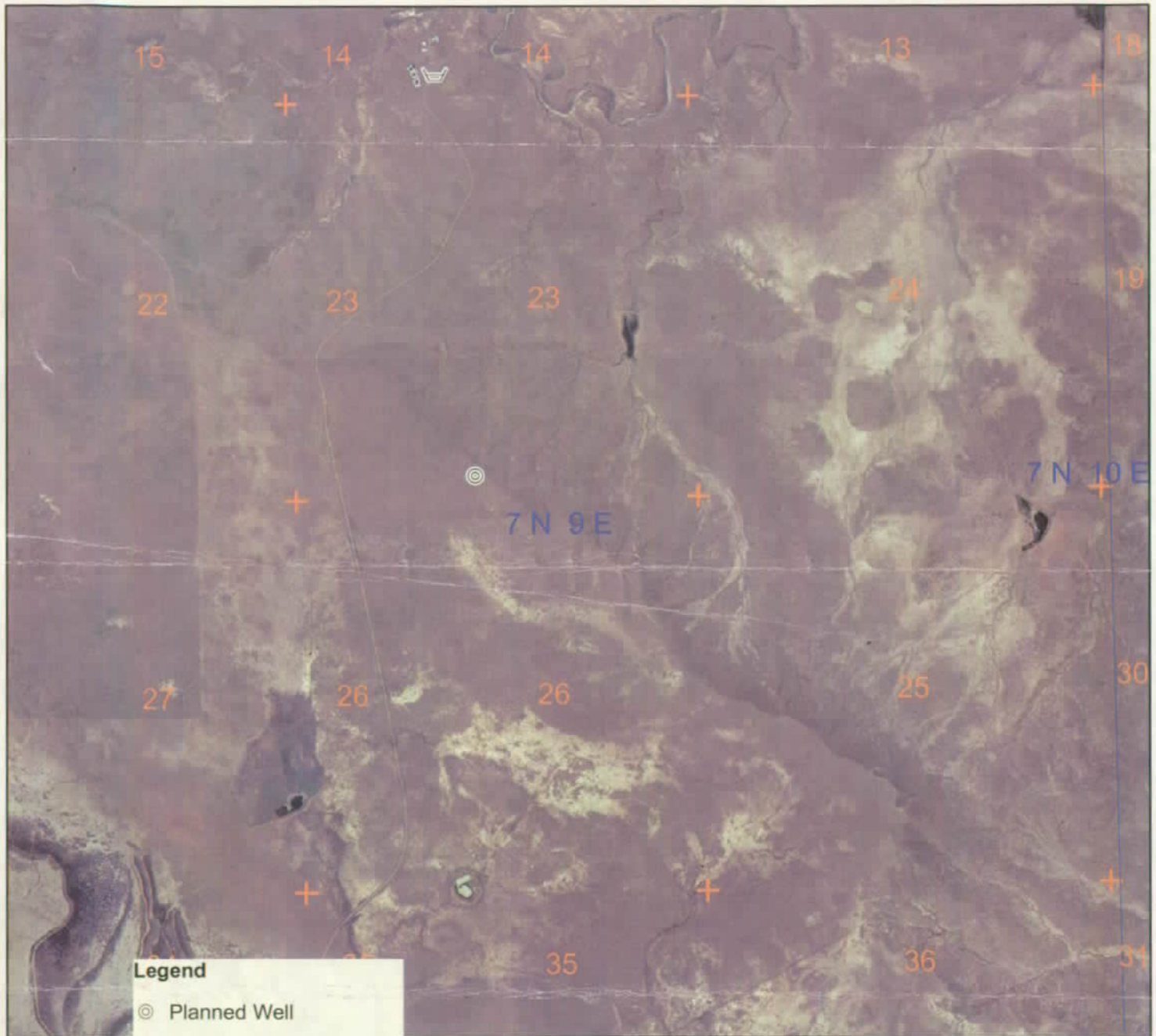
APR 28 2008

WATER RIGHTS
PROGRAM

Field Office: STURGIS SERVICE CENTER

Agency: USDA-NRCS

Assisted By: Tanse M Herrmann



Legend

- ⊙ Planned Well
- ▤ Planned 8 LF Tank
- + Butte Corner Tics
- Butte Township & Range
- Butte Sections
- Township & Range
- + Sections - Corner Tics
- Sections

1" = 2,000'

Justin Boelboom Soil Conservation Tech Sturgis SD
Justin Boelboom
4/24/08



1,200 0 1,200 2,400 3,600 4,800 Feet



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/28, 20 08

RECEIVED OF Elm Creek Farms 2006 Meadow Lark RD Sturgis SD 57785

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

Fee for Application for Permit No. <u>1896-1</u> to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>1896-1</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)		
TOTAL	100	50 00

No.

03647

By

James E. White

Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

April 28, 2008

Wade Bachand
Clover Water System
2006 Meadow Lark Rd
Sturgis SD 57785

RECEIVED

MAY - 9 2008

WATER RIGHTS
PROGRAM

Dear Mr. Bachand:

Thank you for submitting the *Application for a Permit to Appropriate Water* for a water distribution system. In order to complete the application the following is required.

- Enclosed is the application. Please complete Items No. 1 (complete mailing address & phone number) and Item No. 2 (amount of water claimed). This amount can be in gallons per minute.
- We have received the \$100 application/license filing fee. If you are proposing to claim 45 gallons per minute or less, the \$100 submitted will be correct. If you request more than 45 gallons per minute, additional fee will be required. I can not determine the fee until I know the amount of water you are requesting.

If you have any questions, please contact me.

Sincerely,

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

enclosure



**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. 1896-1, Clover Water System**

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. 1896-1, Clover Water System, c/o Wade Bachand, 2006 Meadow Lark Drive, Sturgis SD 57785.

The Chief Engineer is recommending APPROVAL of Application No. 1896-1 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 this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 1896-1 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.

See report on application for additional information.

Garland Erbele, Chief Engineer
June 17, 2008

WATER PERMIT APPLICATION NO. 1896-1
CLOVER WATER SYSTEM
c/o Wade Bachand
June 12, 2008

Water Permit Application No. 1896-1 proposes to appropriate 0.1 cubic feet of water per second (cfs) (45 gallons per minute) from one well to be completed into the Inyan Kara aquifer (approximately 2,800 feet deep) located in the SE¼ SW¼ Section 23, T7N-R9E, Meade County. The water is to be used to supply a water distribution system for livestock to serve users in Meade and Butte Counties.

AQUIFER: Inyan Kara (INKR)

The Inyan Kara aquifer consists of the Fall River Formation and the underlying Lakota Formation. The two formations are probably hydraulically connected and therefore can be considered a single aquifer. In general, the Inyan Kara aquifer consists of interbedded sandstone (thin bedded to massive), siltstone, and shale. The aquifer is areally extensive, underling over 36,000 square miles of western South Dakota (Allen and others, 1985). The aquifer underlies 2,107,520 acres and contains an estimated 36,354,720 acre-feet of recoverable water in storage in Meade County alone (Allen and others, 1985). The top of the Inyan Kara is expected to be around 2,550 feet below grade at this well site and is estimated to be 200 feet thick (Allen and others, 1985). The Inyan Kara is under confined conditions in this area and the static water level of a well at this proposed site is expected to be near ground surface.

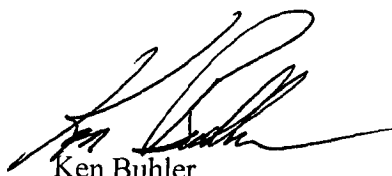
The Water Rights Program does not monitor any observation wells completed into the Inyan Kara aquifer in this area and there is no historic water level data available.

EXISTING WATER RIGHTS:

There are 178 Water Rights/Permits appropriating water from the Inyan Kara aquifer in South Dakota including one future use reservation. Forty three Water Rights/Permits appropriate water from the Inyan Kara from Meade County. The nearest Inyan Kara appropriation-Water Permit No. 1877-1, Lundgren-Poss Water, LLP, Inc., is located approximately five and one-half miles west of this well (Water Rights, 2008).

CONCLUSIONS:

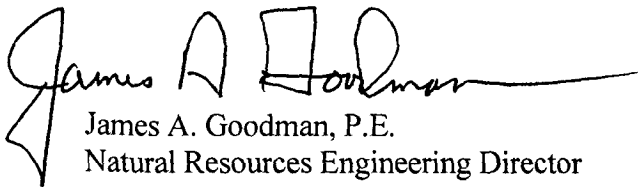
1. The Inyan Kara Aquifer is a viable aquifer in this area, and water is available for this appropriation.
2. Well interference should not be a problem at the proposed well site because of the distance from existing wells.



Ken Buhler

Natural Resources Engineering Specialist

approved by



James A. Goodman, P.E.

Natural Resources Engineering Director

REFERENCES:

Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, Tasks 3A.B.C. and 4A.B.: Groundwater Resource Inventory: South Dakota Department of Water and Natural Resources,

Water Rights Program, 2008, "Water Right/Permit Files": DENR-Water Rights Program,

RECEIVED

JUL - 3 2008

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Meade) SS

I, Pam Buhler

certify that the attached printed Notice was
taken

from the Meade County 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:

June 25, 2008

July 2, 2008

Cost of Printing \$43.49

Pamela Buhler
(Signature)

Office Manager / Notary
(Title)

July 2, 2008
(Date Signed)

PUBLIC NOTICE

NOTICE OF APPLICATION

NO. 1896-1 to Appropriate Water
Notice is given that Clover Water
System, c/o Wade Bachand, 2006
Meadow Lark Drive, Sturgis SD
57785 has filed an application for
a water permit to appropriate 0.1
cubic feet of water per second
from one well to be completed into
the Inyan Kara Aquifer (approx-
imately 2800 feet deep) located in
SE ¼ SW ¼ Section 23-T7N-R9E
for a water distribution system for
livestock to serve users in Meade
and Butte Counties.

Pursuant to SDCL 46-2A-2, the
Chief Engineer recommends
APPROVAL of Application No.
1896-1 because 1) unappropriat-
ed 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 applica-
tion, as recommended, unless a
petition is filed opposing the appli-
cation or the applicant files a peti-
tion 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 appli-
cant and any person filing a peti-
tion.

Any person interested in oppos-
ing 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 appli-
cant's mailing address is given
above. A petition filed by either an
interested person or the applicant
must be filed by July 14, 2008.

The petition may be informal, but
must include a statement describ-
ing the petitioner's interest in the
application, the petitioner's rea-
sons for opposing or supporting
the application, and the signature
and mailing address of the peti-
tioner 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. June 25 & July 2, 2008

RECEIVED

JUL 11 2008

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Butte) SS

I, Karen L. Wallace

certify that the attached printed Notice was
taken

from the Valley
Irrigator

printed and published in Newell
County of Butte and

state of South Dakota. The notice was
published

in the newspaper on the following two dates:

June 25, 2008

July 2, 2008

Cost of Printing \$21.52 - June 25, 2008
\$16.95 - July 2, 2008
Total 38.47

Karen L. Wallace
(Signature)

Office Manager
(Title)

7/3/08

(Date Signed)

NOTICE OF APPLICATION NO. 1896-1 to Appropriate Water

Notice is given that Clover Water System, c/o Wade Bachand, 2006 Meadow Lark Drive, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.1 cubic feet of water per second from one well to be completed into the Inyan Kara Aquifer (approximately 2800 feet deep) located in SE 1/4 SW 1/4 Section 23-T7N-R9E for a water distribution system for livestock to serve users in Meade and Butte Counties.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1896-1 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 July 14, 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.

Published Wed., June 25, 2008
and Wed., July 2, 2008
Valley Irrigator



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 19, 2008

Butte County Valley Irrigator
PO Box 167
Newell SD 57760

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 1896-1 to Appropriate Water to be published twice. Please publish the first notice on June 25, 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 Clover Water System, Wade Bachand, 2006 Meadowlark Dr, Sturgis SD 57785 (Ph # 605-347-2948).

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. 1896-1

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

Date _____

We are in receipt of your letter of June 19, 2008 enclosing Notice to Appropriate Water by Application No. 1896-1 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

June 19, 2008

Meade County Times-Tribune
PO Box 69
Sturgis SD 57785

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Natural Resources Engineer
605 773-3352

enclosures

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

No. 1896-1

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

Date _____

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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 NEWSPAPERS RIGHT AWAY.

June 19, 2008

Clover Water System
c/o Wade Bachand
2006 Meadowlark Dr
Sturgis SD 57785

Dear Mr. Bachand:

Water Permit Application No. 1896-1 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publishers of the Meade County Times-Tribune printed at Sturgis SD (Ph # 605-347-2503) and the Butte County Valley Irrigator printed at Newell SD (Ph # 605-456-2585). You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,


Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish first Notice on June 25, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1896-1 to Appropriate Water

Notice is given that Clover Water System, c/o Wade Bachand, 2006 Meadow Lark Drive, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.1 cubic feet of water per second from one well to be completed into the Inyan Kara Aquifer (approximately 2800 feet deep) located in SE ¼ SW ¼ Section 23-T7N-R9E for a water distribution system for livestock to serve users in Meade and Butte Counties.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1896-1 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 July 14, 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

JUL 28 2008

Clover Water System
2006 Meadowlark Dr
Sturgis SD 57785

Dear Sirs:

Enclosed is Water Permit No. 1896-1 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

1896-1

Date:



ENERGY LABORATORIES, INC. * 400 W Boxelder Rd * Gillette, WY 82718-5315
Toll Free 866.686.7175 * 307.686.7175 * FAX 307.682.4625 * gillette@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Weston Engineering
Project: Bachaand
Client Sample ID: Bachaand
Location:
Samp FRQ/Type:
Lab ID: G08090883-001

RECEIVED
OCT 27 2008
WATER RIGHTS
PROGRAM

Report Date: 10/03/08
Collection Date: 09/25/08 07:00
Date Received: 09/25/08
Matrix: Drinking Water
Sampled By: Jerry Hunt

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS, DISSOLVED							
Sulfate	1600	mg/L		1		E300.0	09/26/08 17:46 / smr
Calcium	47	mg/L		1		E200.7	09/30/08 18:13 / eli-b
Magnesium	7	mg/L		1		E200.7	09/30/08 18:13 / eli-b
Sodium	968	mg/L	D	2		E200.7	09/30/08 18:13 / eli-b
INORGANIC COMPOUNDS, SDWA							
Iron	0.6	mg/L	D*	0.2	0.3	E200.7	09/30/08 18:13 / eli-b
Manganese	0.07	mg/L	*	0.01	0.05	E200.7	09/30/08 18:13 / eli-b
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05	10	E353.2	10/01/08 10:01 / eli-b
NON-METALS							
Conductivity @ 25 C	4000	umhos/cm		1		A2510 B	09/25/08 14:28 / mav
Hardness as CaCO3	150	mg/L		10		A2340 B	10/02/08 17:17 / clb
pH	8.30	s.u.		0.01		A4500-H B	09/25/08 14:30 / mav
Solids, Total Dissolved TDS @ 180 C	2890	mg/L		10		A2540 C	09/29/08 10:04 / mli

Alyson Degnan
Project Manager

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
* - The result exceeds the MCL.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



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Toll Free 866.686.7175 * 307.686.7175 * FAX 307.682.4625 * gillette@energylab.com

LABORATORY ANALYTICAL REPORT

RECEIVED

OCT 27 2008

WATER RIGHTS
PROGRAM

Client: Weston Engineering
Project: Bachaand
Client Sample ID: Bachaand
Sampled By: Jerry Hunt
Lab ID: G08090883-001D

Report Date: 10/03/08
Collection Date: 09/25/08 07:00
Received Date: 09/25/08 12:10
Matrix: Drinking Water

Analyses	Result	Units	Safe/Unsafe	Qualifier	Method	Analysis Date / By
BACTERIA						
Bacteria, Total Coliform	Present	P/A	UNSAFE		A9223 B	09/25/08 13:14 / smr
Bacteria, E-Coli Coliform	Absent	P/A			A9223 B	09/25/08 13:14 / smr

Alyson Degnan
Project Manager

Comments: The notation "SAFE" indicates that the water was bacteriologically SAFE when sampled.

The notation "UNSAFE" indicates that the water was bacteriologically UNSAFE when sampled.

Method Reference: E - EPA / MCAWW Methodology A - Standard Methods 19th Ed.

RECEIVED

SEP 11 2009

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 9-10-09TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

CLover Water System

(name)

2006 Meadow Lark Dr

(address)

Sturgis, SD 57745

(city, state, zip)

605-347-2948

(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 1896-1 states that the water use system is to be constructed by July 14 2013, and water is to be put to beneficial use by July 14 2017.

(date)

(date)

The water use system was completed on 8-3-09.

(date)

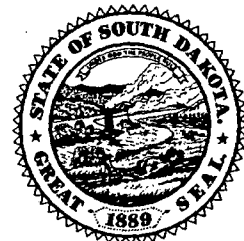
Applying the water to beneficial use was completed on 8-8-09.

(date)

You may schedule an investigation so that the water license may be issued.

Mike Burkhardt

(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 14, 2009

1896-1

Wade Bachand
Clover Water System
2006 Meadow Lark Dr
Sturgis SD 57785

Dear Mr. Bachand:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the water use system authorized by Water Permit No. 1896-1.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of the project and the staff inspection has no bearing on the water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath".

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 1896-1

I have this day, July 10, 2017 made a thorough examination of the water use system constructed by **Clover Water System, % Wade Bachand, 2006 Meadowlark Dr., Sturgis, SD 57785** of Permit No. **1896-1**, bearing the priority of **4/28/2008** authorizing the diversion of **0.1** cu. ft. per second of the water from one well for livestock water system purposes, in Meade and Butte Counties.

Inspection contact & relationship to permit holder, if applicable:

Wade Bachand, land owner
605- 347-0740

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Weston Engineering (10/20/2008)
- 2) No. of Wells 1
- 3) Depth(s) 3,009 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 10 3/4" 0 to 29' surface casing
7" 0' to 877'
5 1/2" 877' to 2,992'
- 2) Length 2,992 feet
- 3) Type steel

Screen:

- 1) Type shot perforated
- 2) Length 162 feet (2,830 – 2,992 ft.) Strip jets 2772 - 2796
- 3) Static water level 350 feet in 2017, 150 feet at time of completion in 2008

Pump:

- 1) Make Grundfos
- 2) Model 16S100-75DS
- 3) Size 6"
- 4) Capacity 16 GPM
- 5) Horsepower rating 10 hp

Note: The well was air tested at 20 gpm at completion. As installed the pump is producing 16 gpm at initial start and drops to 10 gpm (metered flow) or less as it reaches shut off pressure (75/95 psi pressure switch).

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

The system utilizes approximately 30 miles of PVC stock water pipeline ranging in size from 1 ½ to 2 inch. Storage in the system is limited to individual stock tanks except one of the lines has a 5,500 gallon central storage tank.

C. Works used to apply water to beneficial use:

The system serves 3 ranch units and provides water to approximately 640 head of livestock during the spring thru fall grazing season. The system is not used during the winter.

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:
352' N and 2,287' E of the SW corner Section 23 T7N R9E (44.547211, -102.995745)
2. The works are capable of diverting and conveying to the place of use .036 cu. ft. per second (16 gpm) of water which is to be used for **livestock** use and the license should be issued for .036 cfs.
3. All structures, wells and lands on map: **No, well only**

F. Comments or other permit(s) associated with the project: none



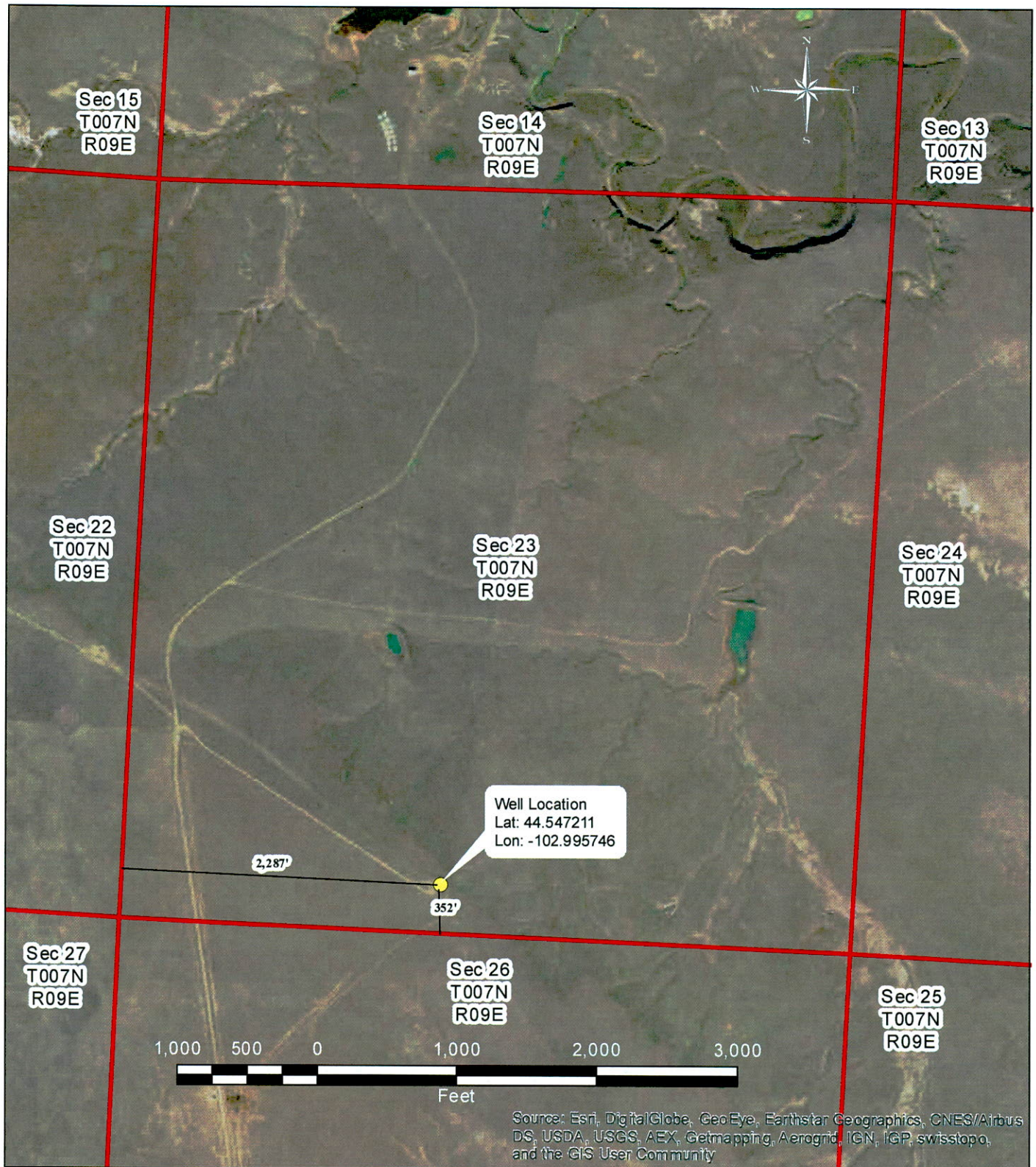
Steven Quissell
Water Rights Inspector
DENR Water Rights Program

Date Report Completed: July 10, 2017

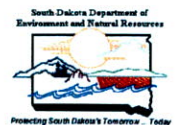


Well and phase converter

Water Right # 1896-1
Clover Water System
7/10/2017



Steven Quissell
Water Rights Inspector
DENR Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 02 2017

1896-1

Wade Bachand
Clover Water System
2006 Meadowlark Dr
Sturgis SD 57785

Dear Mr. Bachand:

Enclosed is Water License No. 1896-1. This is the final water right document completing your process of obtaining a Water Right. Included with your 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

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1896-1

(1) Clover Water System, 2006 Meadowlark Drive, Sturgis SD 57785 made Application No. 1896-1, April 28, 2008 for a water permit to divert 0.10 cubic feet of water per second from ground water, one well (Inyan Kara Aquifer), Meade County, South Dakota for domestic purposes. Permit No. 1896-1, with a priority date of April 28, 2008 was approved July 14, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 14, 2013 and for the application to beneficial use of said water on or before July 14, 2017.

(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 0.036 cubic feet of water per second for beneficial use. The location of the diversion point is:

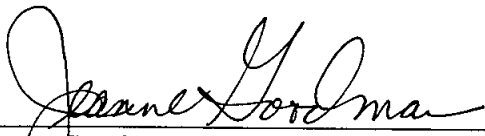
- 352'N & 2,287'E of the SW corner of Section 23, T7N, R9E (SE ¼ SW ¼) (44.547211, -102.995745)

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use. The water distribution system utilizes approximately 30 miles of PVC stock water pipeline. Storage within the system is limited to individual stock tanks and one central storage tank in Meade and Butte Counties.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Clover Water System, 2006 Meadowlark Drive, Sturgis SD 57785 the holder and/or owner of Water Right No. 1896-1 is issued a license to appropriate water, the right to use 0.036 cubic feet of water per second from ground water, one well (Inyan Kara Aquifer) with a priority date of April 28, 2008 from the location specified in (2) of this license for domestic purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 1896-1 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.
- The well authorized by Permit No. 1896-1 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 October, 2008 by Weston Engineering Inc. A copy of the well log is on file with the Water Rights Program.*



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

AUG 02 2017

date

