

WATER PERMIT NO. 6449-3

Name of Applicant: Eastern Farmers Cooperative

Address: 415 E 5th St, Canton SD 57013 Phone: 605 987-2714

Amount of Water Claimed: 0.222 Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: commercial County: Lincoln

Type of Waste Disposal System:

Location: 2 miles east of Worthing

PRIORITY Date Received: 10-27-03 Application/License Fee: \$275

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

Remarks:

Diversion Point: NW ¼ SW ¼ Sec 6-T98N-R50W

Land to be Irrigated: NA

Depth of Well: 600 feet

Well Driller: :

Remarks:

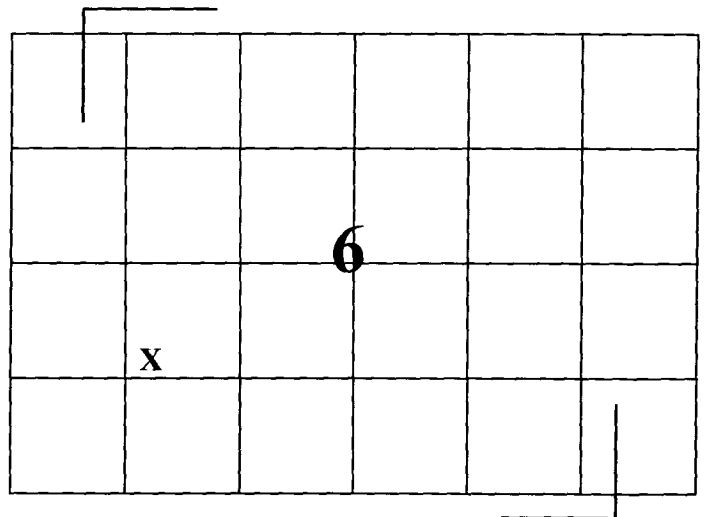
Type of Map: topo

Prepared by: Bruce Jennings, PE

Reviewed and the Number Assigned on: 10-27-03

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>6449-3</u> (office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Sioux Valley News, Canton</u>

RECEIVED
OCT 27 2003
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. _____

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

- Name of Applicant Eastern Farmers Cooperative Phone (605) 987-2714
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 415 East 5th Street Canton State SD 57013
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.222 *CFS or 100 **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 Groundwater, Dakota Sandstone
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Lincoln
1 well in NW 1/4, SW 1/4, Section 6-T98N-R50W
- County or counties where water will be used Lincoln
- Annual period during which water is to be used January 1 to 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)

The project consists of drilling one well for use by Eastern Farmers Cooperative for agricultural fertilizing and spraying. The Coop anticipates requiring 100 gpm during peak season and will have on site storage.

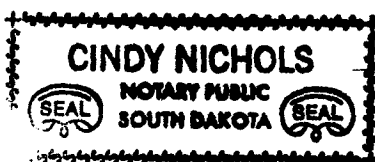
STATE OF SOUTH DAKOTA)
County of Lincoln) SS

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

I, Eastern Farmers Cooperative, 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 Hunt Miller

Subscribed and sworn to before me this 23 day of October 20 03



Cindy Nichols
Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6449-3

Date of first receipt of application October 27, 2003.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6449-3 to Eastern Farmers Cooperative, c/o Kurt Mulder, 415 E 5th St, Canton SD 57013 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. 6449-3 appropriates 0.222 cubic feet of water per second from one well (Dakota Formation) approximately 600 feet deep located in the NW ¼ SW ¼ Section 6-T98N-R50W.
2. The water appropriated shall be used for the purpose of commercial 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. 6449-3 is February 2, 2004.
5. The date from which applicant may claim right is October 27, 2003.
6. One-fifth of the construction is to be completed on or before August 2, 2006.
7. All construction is to be completed on or before February 2, 2009.
8. Water is to be put to beneficial use on or before February 2, 2013.
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. 6449-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.

WATER MANAGEMENT BOARD

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

FEB 20 2004

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 14 Depth 600
- b) Casing Type Steel Diameter 10 Thickness 0.365 In
- c) Screen Type SS Wire Wound Diameter 4 Thickness
- d) Gravel Pack Muscatine Length of Gravel Pack 230 ft
- e) Depth to Top of Water Bearing Material 400 ft
- f) Depth to Water (ground surface to water level) 200 ft
- g) Distance to nearest existing domestic well:
- On applicants property N/A On property owned by others

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) Septic System
- b) System Capacity (gallons) Year Constructed 2004
- c) Connected to the City of N/A Sanitary System

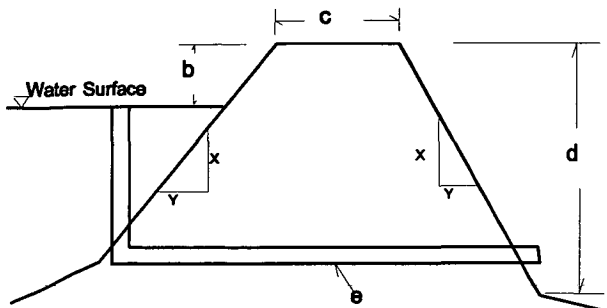
3. Dugout Information

- 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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date October 27, 2003

RECEIVED OF Eastern Farmers Cooperative, PO Box 20, Brandon SD 57805

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

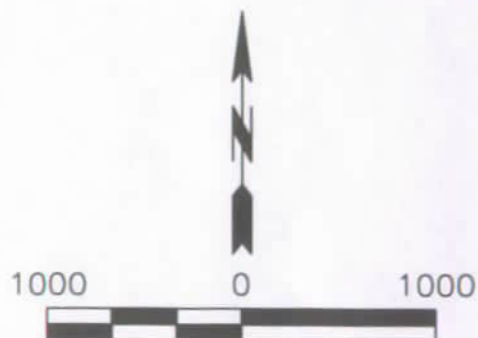
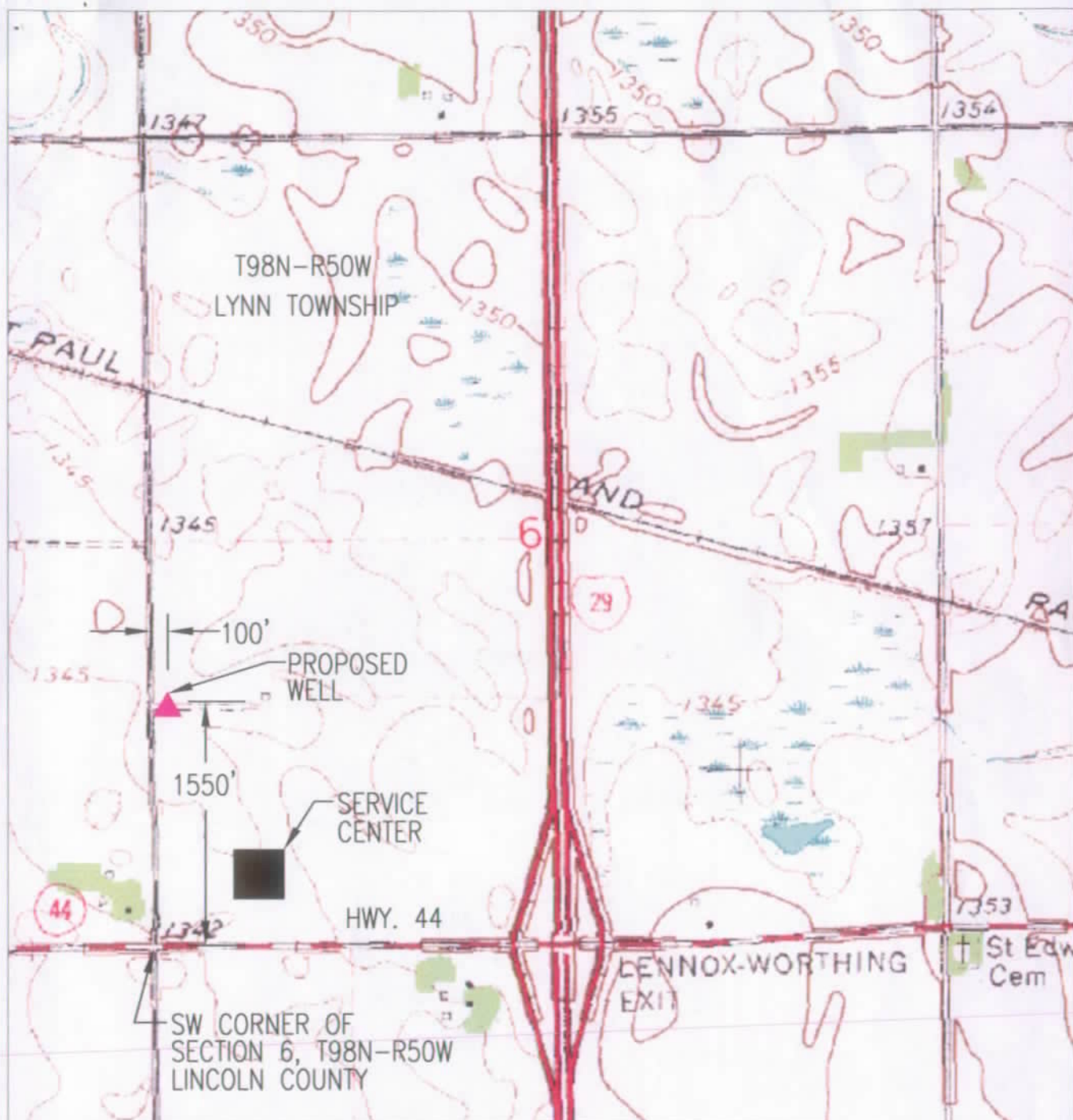
Fee for Application for Permit No. <u>6449-3</u> to Appropriate Water, to construct and to put water to beneficial use	225	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6449-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	275.00

No.

000902

By

Darland E. Eide
Chief Engineer



P:\08\197\30\DWG\LOCATION.DWG



DelWild Grant Reckert
and Associates Company
Consulting Engineers
Rock Rapids, Iowa
Sioux City, Iowa
Sioux Falls, South Dakota

I hereby certify that this plan, specification, or report,
was prepared by me or under my direct personal
supervision, and that I am a duly Registered
Professional Engineer under the laws of the
State of South Dakota. Registration No. 3812
By Bruce Jennings
Date 10-21-03

Date OCT. 2003
Drawn By JMG
Approved BAJ
Revised
Project No. 819730

SERVICE CENTER DEEP WELL
EASTERN FARMERS
COOPERATIVE
CANTON, SD

6449-3

REPORT ON WATER PERMIT APPLICATION NO. 6449-3
For Eastern Farmers Cooperative
December 22, 2003

Application No. 6449-3 proposes to appropriate 0.222 cfs (100 gpm) from one well approximately 600 feet deep located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of section 6, T98N R50W in Lincoln County. The water is for commercial use.

AQUIFER – DAKOTA FORMATION (DKOT)

The Dakota Formation is a buried sand, sandstone and shale that is under artesian conditions at this site. The aquifer underlies 484 square miles and contains an estimated 4.297 million acre-feet of recoverable water in storage in Lincoln County (Hedges, 1982). The aquifer extends into Iowa to the east, Turner and Clay counties to the west and south, and into Union County to the south. In the USGS study report for Lincoln and Union Counties (Niehus, 1994), the Dakota underlies 935 square miles and contains an estimated 19.4 million acre-feet of water in storage. The general direction of ground water movement is from north to south across Lincoln County (Iles, 1984).

There is no test well information available for this application. There is sufficient information available from the county study, studies for Lennox and South Lincoln Rural Water System and observation well drilling for Water Rights Program to determine ground water potential for this area.

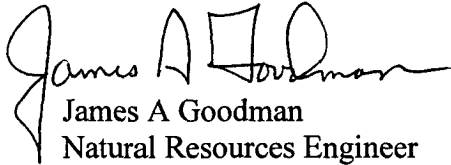
The Water Rights Program monitors an observation well, LN-80I, that is located about one mile northwest of this site. This observation well is completed to a depth of 617 feet and presently has a static water level about 134 feet below land surface. A hydrograph for this observation well is included with this report (Water Rights, 2003). The hydrograph clearly shows the effects of pumping upon the aquifer in this area. Water levels have declined primarily in response to pumping by the City of Lennox well field located to the south of the observation well. Water levels have declined about twenty feet in the last ten years but appear to be leveling out. This type of behavior is expected because it reflects the effects of the initial pumping and then the aquifer begins to stabilize over time to the stress of the pumping. The water levels in theory will stabilize if the pumped volumes do not increase and recharge water moves into the affected area.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing right is for the City of Lennox. The nearest City well (#3) is located about one mile west of this application. Interference is not expected to be a concern. Water levels will fluctuate in response to pumping, however, at this requested rate and at the distance between wells, this effect should not be significant nor adversely affect the City of Lennox.

CONCLUSIONS

1. Water is available from the Dakota Formation.
2. The aquifer is under confined or artesian conditions at this site. Pumping will create drawdown, however, this is not expected to be significant at the proposed rate and at the distance between existing wells.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. This use of water will not be a sustained use of 100 gpm but will only be seasonal during the spraying season. The rate is an estimated peak rate.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

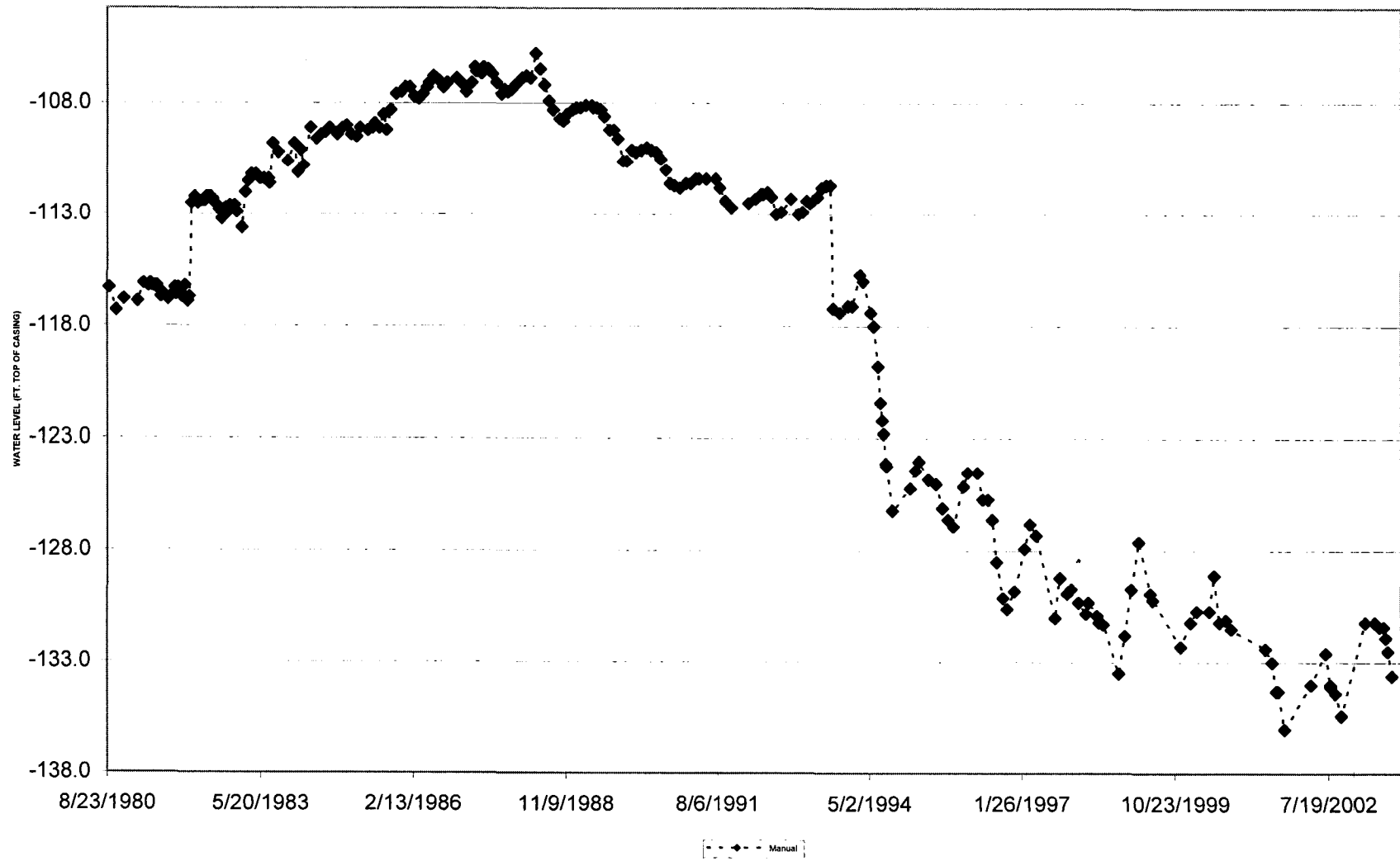
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Iles, D.L., 1984, Pleistocene Recharge to Dakota Formation in Lincoln County, South Dakota, in Geohydrology of the Dakota Aquifer, Proceedings of the First C.V. Teis Conferences on Geohydrology, NWWA, Worthington, Ohio, 43085.

Niehus, C.A., 1994, Water Resources of Lincoln and Union Counties, South Dakota, WRI 93-4195, USGS, Rapid City, SD, 57702.

Water Rights, 2003, Unpublished Observation Well Records for the Dakota Formation, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
LN-80I**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6449-3, Eastern Farmers Cooperative**

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. 6449-3, Eastern Farmers Cooperative, c/o Kent Mulder, 415 E 5th Street, Canton SD 57013.

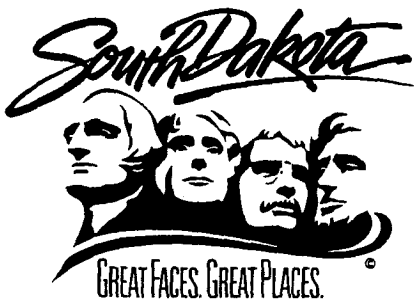
The Chief Engineer is recommending APPROVAL of Application No. 6449-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

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. 6449-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.

See report on application for additional information.

Garland Erbele, Chief Engineer
January 2, 2004



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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www.state.sd.us/denr

January 5, 2004

Sioux Valley News
PO Box 255
Canton SD 57013-0255

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6449-3 to Appropriate Water to be published twice. Please publish the first notice on January 15, 2004 with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Eastern Farmers Cooperative, %Kent Mulder, 415 E 5th St., Canton SD 57013 (Ph # 605-987-2714).

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. 6449-3

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

Date _____

We are in receipt of your letter of January 5, 2004 enclosing Notice of Hearing to Appropriate Water by Application No. 6449-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

www.state.sd.us/denr

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

January 5, 2004

Eastern Farms Cooperative
% Kent Mulder
415 E 5th St
Canton SD 57013

Dear Mr. Mulder:

Water Permit Application No. 6449-3 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Sioux Valley News printed at Canton, SD (Ph # 605-764-2000). 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 a 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 of Hearing 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 with the last publication to occur twenty days before the board meeting. 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 January 15, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6449-3 to Appropriate Water

Notice is given that Eastern Farmers Cooperative, c/o Kent Mulder, 415 E 5th St, Canton SD 57013 has filed an application for a water permit to appropriate 0.222 cubic feet of water per second from one well (Dakota Formation) approximately 600 feet deep located in the NW ¼ SW ¼ Section 6-T98N-R50W. The water is for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6449-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 2, 2004.

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.

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

JULIE GERBER

being first duly sworn on her oath says; that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that she is and during all of said time was bookkeeper of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

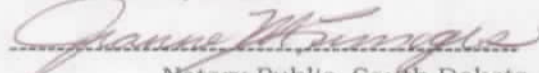
NOTICE OF APPLICATION NO. 6449-3 TO APPROPRIATE WATER

a printed copy of which is hereto attached, was printed and published in said newspaper for **TWO** successive weeks upon the following dates, to-wit:

JANUARY 15, 2004
JANUARY 23, 2004

that the full amount of the fees charged for publishing the same to-wit: the sum of **\$33.12** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

Subscribed and sworn to before me this **23rd** day of **JANUARY, 2003**.


Notary Public, South Dakota

(Seal)

Jeanne M. Limoges
My Commission Expires
November 18, 2009

NOTICE OF APPLICATION NO. 6449-3 TO APPROPRIATE WATER

Notice is given that Eastern Farmers Cooperative, c/o Kent Mulder, 415 E 5th St, Canton SD 57013 has filed an application for a water permit to appropriate 0.222 cubic feet of water per second from one well (Dakota Formation) approximately 600 feet deep located in the NW1/4 SW1/4 Section 6-T98N-R50W. The water is for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6449-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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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, (1-15, 23)

RECEIVED
JAN 26 2004
WATER RIGHTS
PROGRAM



FEB 20 2004

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

Eastern Farmers Cooperative
% Kurt Mulder
415 E 5th
Canton SD 57013

Dear Mr. Mulder:

Enclosed is Water Permit No. 6449-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures



6449-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 22, 2005

Eastern Farmers Cooperative
c/o Kurt Mulder
415 E 5th St
Canton SD 57013

Dear Mr. Mulder:

I am writing in regard to two well driller's report filed by Hammond-Wetmore Drilling. The reports show two wells were completed for the Coop on December 10 & 17, 2004. A review of our files indicates that the Coop holds Water Permit No. 6449-3 for 0.222 cubic feet of water per second (100 gallons per minute) from one well located in the NW ¼ SW ¼ Section 6-T98N-R50W for commercial use.

South Dakota Codified Law 46-5-13.1 provides that a point of diversion (well) may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

We handle requests for additional wells by having the permit holder file an application, well driller report and a map showing the location of the wells. We then review the application to determine if the request can be handled in-house. No fee is required at this time. If we determine the more formal permit process must be followed, we will request that you submit a fee.

Once we receive the application and map, we will review the request and contact you on whether the additional diversion point is authorized.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

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

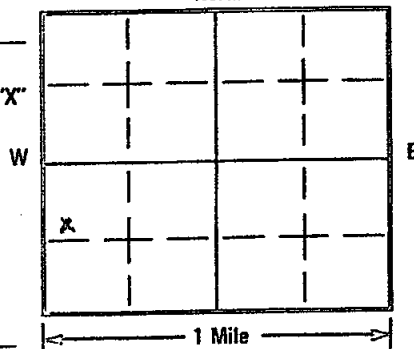
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

ation NW ¼ SW ¼ Sec 6 Twp 99N Rg 50W
 nty Lincoln

use mark well location with an "X"



Well Completion Date

Dec 17, 2004

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, lot, etc.)? 950 ft. from Septic Tank (Identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

PIPE DATA: ☐ Steel ☒ Plastic ☐ Other

Other describe _____

WEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>17</u> LB/FT	<u>5</u> IN	<u>6</u> FT	<u>595</u> FT	<u>9</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>6BT</u>	<u>28</u>	_____ lb./gal	_____ ft.	_____ ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Grouting procedure Tremie

PIPE: ☒ Perforated pipe ☐ Manufactured

meter 5 IN Length 440 FEET

Material PVC

Size 40 Set From 590 Feet to 635 Feet

Other information _____

IS A PACKER OR SEAL USED? ☐ YES ☒ NO

If, what material? _____

Describe packer(s) and location? _____

INFECTION: Was well disinfected upon completion?

☒ YES, How: HTH TABLETS

☐ NO, Why Not? _____

Water sent to for water
 quality analysis _____

Well Owner: EASTERN Coop #2

Business Name: _____

Address: P.O. Box 9
WORTHINGTON SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, yellow-brown, silty	0	33
Clay, GRAY, silty	33	135
CLAYSTONE, Dark GRAY	135	395
LIMESTONE, GRAY-BROWN	395	415
SILTSTONE, GRAY, Clayey	415	460
SILTSTONE, GRAY, with sand	460	590
beds		
SANDSTONE, fine, some	590	645
SILTSTONE beds		

STATIC WATER LEVEL 172 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: _____

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

187 ft. After 4 Hrs. pumped 52 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 6666

And this report is true and accurate.

Drilling firm HANDED-Not more Drilling

Signature of License Representative:

R. D. Anderson

Signature of Well Owner or Equitable Property Holder:

RECEIVED

JAN 31 2005

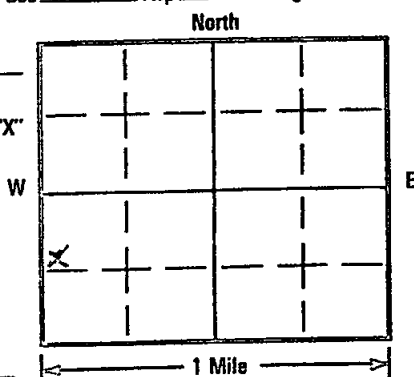
WATER RIGHTS
 PROGRAM

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

ation NW 1/4 SW 1/4 Sec 6 Twp 98N Rg 50Wnty LINCOLN

use mark well location with an "X"



Well Completion Date

Dec 10, 2004

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, lot, etc.)? 900 ft. from Septic tank (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

RotaryCasing DATA: ☐ Steel ☒ Plastic ☐ Other

Other describe _____

WEIGHT DIAMETER FROM TO HOLE DIAMETER
217 LB/FT 5 IN 6 FT 480 FT 9 IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUTING DATA

Grout Type No. of Sacks Grout Weight From To
1st GRT 2.2 710 lb./gal 6 ft. 475 ft.
 _____ lb./gal _____ ft. _____ ft.

Describe grouting procedure TremieSCREEN: ☒ Perforated pipe ☐ ManufacturedScreen diameter 5 IN Length 40 FEETScreen material PVCScreen size 0.40 Set From 480 Feet to 520 Feet

Other information _____

IS A PACKER OR SEAL USED? ☐ YES ☒ NO

If YES, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

YES How: HTH pellets

If NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: EASTERN Coop #1

Business Name: _____

Address: P.O. Box 9
Worthing SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay; yellow, sandy	0	31
Clay; grey, sandy	31	134
Claystone; dk grey	134	398
Limestone; BRN-BRN	398	414
Siltstone; dk grey; clayey	414	460
Siltstone; grey; V. sandy	460	478
Siltstone; V. fine	478	527

STATIC WATER LEVEL 171 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: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

180 ft. After 4 Hrs. pumped 52 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 266

And this report is true and accurate.

Drilling firm HARRISON Wetmore DrillingSignature of License Representative: [Signature]

Signature of Well Owner or Equitable Property Holder: _____

RECEIVED

JAN 31 2005

WATER RIGHTS PROGRAM

Permit No. 6449-3
Vermillion River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 15, 2010, made a thorough examination of the water use system constructed by Eastern Farmers Cooperative of 415 E 5th Street, Canton, SD 57013 holder of Permit No. 6449-3, bearing the priority of October 27, 2003 authorizing the diversion of 0.222 cu. ft. per second of the waters of Dakota Formation for commercial purposes, in Lincoln County.

Inspection contact & relationship **Doug Friman – Employee**
to permit holder, if applicable: **605.372.3700**

A. Works used to divert the water:

Well Information: Well #1 Well Drilling Firm: Hammond-Wetmore Drilling Depth(s) <u>527</u> feet Well log is available <u>yes</u> Comment: <u>completed 2/10/04</u> Casing: Diameter <u>5"</u> inches Length <u>474</u> feet Type <u>pvc</u> Screen: Type <u>pvc</u> Length <u>40</u> feet Static water level <u>171</u> feet Pump: Make <u>Jacussi</u> Model Size Capacity <u>45</u> GPM Motor: Make <u>Franklin</u> Model No. Horsepower rating <u>5</u> hp	Well Information: Well #2 Well Drilling Firm: Hammond-Wetmore Drilling Depth(s) <u>645</u> feet Well log is available <u>yes</u> Comment: <u>completed 12/17/04</u> Casing: Diameter <u>5"</u> inches Length <u>589</u> feet Type <u>pvc</u> Screen: Type <u>pvc</u> Length <u>40</u> feet Static water level <u>172</u> feet Pump: Make <u>Jacussi</u> Model Size Capacity <u>45</u> GPM Motor: Make <u>Franklin</u> Model No. Horsepower rating <u>5</u> hp
--	---

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

- 1) Type steel 2) Size 4" inches 3) Length 990' feet
1) Type pvc 2) Size 2" inches 3) Length 125' feet

C. Works used to apply water to beneficial use:

4" main to the water tank for filling spraying equipment and 2" from water tank into the building for facility use.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by see 2)
2) Exceptions to compliance are: Permit authorizes one well for up to 0.222 cfs. Two wells were drilled for a combined 0.2 cfs. See documentation for additional well provided for by State Statute.

The system is in good condition with the points of diversion located as follows: Well #1 is located 1500' N and 100' E and Well #2 is located 1470' N and 100' E of the SW corner Section 6, T98N, R50W, both in the NW¼ SW¼ Section 6, T98N, R50W. The works are capable of diverting and conveying to the place of use 0.20 cu. ft. per second of water which is to be used for commercial use. Water has been put to beneficial use to the maximum extent as follows:

Used for filling spray equipment and facility water supply.

The license should be issued for 0.20 cfs.

All structures, wells and lands on map yes

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

Permit authorizes one well for up to 0.222 cfs. Two wells were drilled for a combined 0.2 cfs. See documentation for additional well provided for by State Statute.


Lynn Beck

Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: October 21, 2010

Approval of Location Change and/or Additional Diversion Point(s)

NAME: Eastern Farmers Cooperative

ADDRESS: 415 E 5th Street, Canton SD 57013

DATE: October 21, 2010 **COUNTY:** Lincoln **TELEPHONE:** 605.372.3700

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**

yes

- **If irrigation, no new land is irrigated**

No irrigation

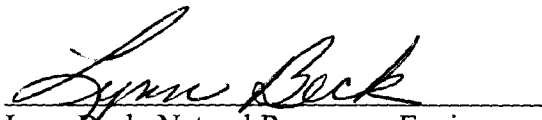
- **Review of Existing Diversions**

There is only one water right within one mile of the additional well, 5326-3 held by the City of Lennox. 5326-3 authorizes two wells in the Dakota Formation for a combined 0.62 cfs.

Well #1 and #2 (additional well) are 30' apart but have not experienced problems due to their proximity.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion points be licensed as developed.



Lynn Beck, Natural Resources Engineer
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.



Garland Erbele, Chief Engineer
Water Rights Program

WATER RIGHT NO. 6449-3
EASTERN FARMERS COOPERATIVE
October 21, 2010
R50W



SCALE

0 330 660 1,320 1,980 2,640 Feet

Lynn Beck

Lynn Beck
Natural Resources Engineer Specialist
DENR - Water Rights Program

South Dakota Department of
Environment and Natural Resources



Protecting South Dakota's Tomorrow - Today



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 11 2011

6449-3

Eastern Farmer's Cooperative
Kent Mulder, Manager
415 E 5th St
Canton SD 57013

Dear Mr. Mulder:

Enclosed is Water License No. 6449-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6449-3

(1) Eastern Farmers Cooperative, 415 E 5th St, Canton SD 57013 made Application No. 6449-3, October 27, 2003 for a water permit to divert 0.222 cubic feet of water per second from groundwater (one well), Lincoln County, South Dakota for commercial purposes. Permit No. 6449-3, with a priority date of October 27, 2003 was approved February 2, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 2, 2009 and for the application to beneficial use of water on or before February 2, 2013.

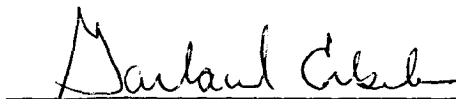
An investigation conducted for licensing purposes found an additional diversion point developed under Water Permit No. 6449-3. Pursuant to SDCL 46-5-13.1, the Chief Engineer makes a finding that the additional diversion point does not increase the potential for interference with existing water rights.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6449-3 is issued a license, bearing a priority date of October 27, 2003 to appropriate 0.2 cubic feet of water per second from groundwater (two wells) for commercial purposes.

The diversion points are located: Well #1 – 1,500 feet north and 100 feet east and Well #2 – 1,470 feet north and 100 feet east; both from the southwest corner of Section 6-T98N-R50W (NW ¼ SW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6449-3 including the following now applicable qualifications:

- 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.
- The wells authorized by Permit No. 6449-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.



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

FEB 11 2011

date

