

WATER PERMIT NO. 6349-3

Name of Applicant: Ronald W. Marone

Address: 21536 405th Ave, Cavour SD 57324 Phone: 605 352-5515

Amount of Water Claimed: 1.66 cfs Total Acres: 116

Source of Water Supply: groundwater (2 wells)

Water to be used for: irrigation County: Beadle

Type of Waste Disposal System:

Location: 10 miles southwest of Cavour

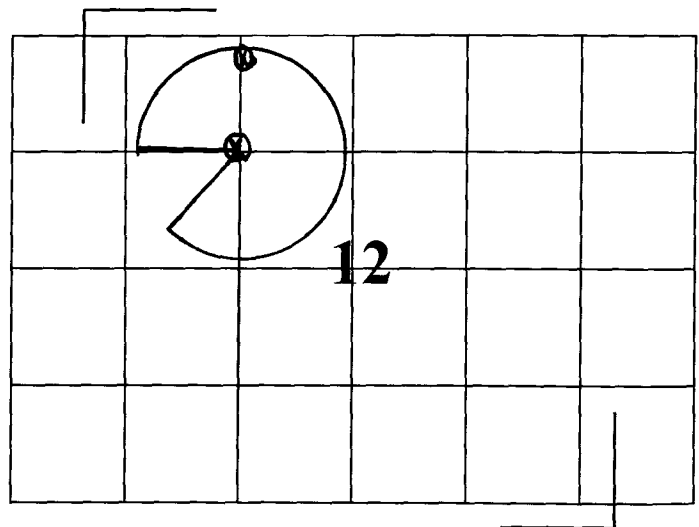
PRIORITY Date Received: 8-5-02 Application/License Fee: \$275

Corrected Application Received: Period of Annual Use: April 15 – October 15

Remarks:

Diversion Point: center of NW $\frac{1}{4}$ and NE $\frac{1}{4}$ NW $\frac{1}{4}$
Sec 12-T109N-R61W

Land to be Irrigated: NW $\frac{1}{4}$ Sec 12-T109N-R61W



Depth of Well: 90 feet deep

Well Driller: :

Remarks:

Type of Map: aerial

Prepared by: Emer M. Ward, Dist Con.

Reviewed and the Number Assigned on: 8-5-02

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 6349-3

Date of first receipt of application August 5, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6349-3 to Ronald W. Marone, 21536 405th Ave, Cavour SD 57324 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. 6349-3 appropriates 1.66 cubic feet of water per second from two wells (Floyd East James Aquifer) 90 feet deep located in the approximate center of the NW ¼ and the NE ¼ NW ¼ Section 12 to irrigate 116 acres located in the NW ¼ Section 12; all in T109N-R61W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 15 – October 15.
3. The date from which applicant may claim right is August 5, 2002.
4. The date of approval of Permit No. 6349-3 is November 4, 2002.
5. One-fifth of the construction is to be completed on or before May 4, 2005.
6. All construction is to be completed on or before November 4, 2007.
7. Water is to be put to beneficial use on or before November 4, 2011.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6349-3 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.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

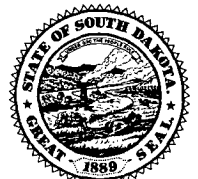
WATER MANAGEMENT BOARD

By: Garland Erbele

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

NOV 26 2002

date



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6349-3</u>	(office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>	
	Newspaper <u>The Plainsman, Huron</u>	

RECEIVED
AUG - 5 2002
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

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

Reinstate Permit No. 4818-3

- Name of Applicant Ronald W Marone Phone 605-352-5515
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address 21536 405 AVE. Cavour State SD 57324
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.66 *CFS or 1.77 **GPM ***AF Total Acreage 116
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Ground Water (2 wells)
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
Center of NW1/4 and North side center NE1/4 NW1/4
Sec. 12 T109N R61W County Beadle
- County or counties where water will be used Beadle
- Annual period during which water is to be used April 15 - October 15
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NE 1/4 NW 1/4 Sec. 12 T109N R61W	33		
NW 1/4 NW 1/4 Sec. 12 T109N R61W	33		
SE 1/4 NW 1/4 Sec. 12 T109N R61W	33		
SW 1/4 NW 1/4 Sec. 12 T109N R61W	17		

- Give a description of the project. (Attach sheet if more space is needed)

STATE OF SOUTH DAKOTA)

County of Beadle 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, Ronald W Marone, 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 Ronald W Marone

Subscribed and sworn to before me this 2nd day of August 2002

My Commission Expires:
February 13, 2008
4-2000

Katherine A. Schilling
Notary Public signature
KATHERINE A. SCHILLING

(type or print in ink)

Ronald W Marone

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24 Depth 90
- b) Casing Type PVC Diameter 16 Thickness SOR 26
- c) Screen Type PVC slotted Diameter 16 Thickness
- d) Gravel Pack 8" Length of Gravel Pack 70
- e) Depth to Top of Water Bearing Material 40
- f) Depth to Water (ground surface to water level) 25
- g) Distance to nearest existing domestic well:
- On applicants property 1 mile On property owned by others 1 mile

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

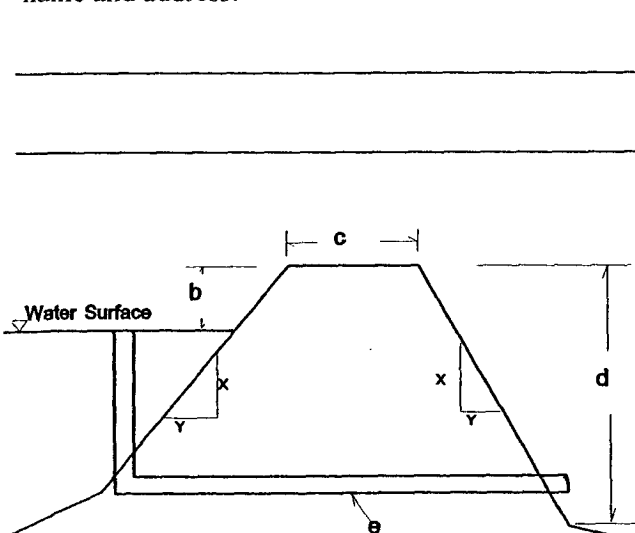
3. Dugout Information

- 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

WELL DRILLERS REPORT
Division of Water Rights
Department of Water & Natural Resources

6/60

Name

Address 11011 - 11011, 11011

County _____
 _____¹/₄ _____¹/₄ _____¹/₄ Sec. _____ Twp. _____ Rg. _____

☐ Domestic ☐ Municipal ☐ Test
☐ Irrigation ☐ Industrial ☒ Holes
 ☐ Stock

☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Diameter of Hole _____
 Depth _____
 Casing ☐ Steel ☐ Concrete
☐ Plastic ☐ Other
 If other, specify _____

Was water sample taken:

Static water level _____; below land surface
If flowing: closed in pressure _____ PSI
rate of flow _____ GPM

 Valve Reducers Other

If other; specify

17 Other

Pumping Level Below Land Surface

ft. After		Hrs. pumped		GPM
_____	" "	_____	" "	_____
_____	" "	_____	" "	_____

[illegible]

Date Completed: _____

Driller's or Firm's Name License NO.

Address

Signed By

Date _____

2002

MAP NOT TO SCALE

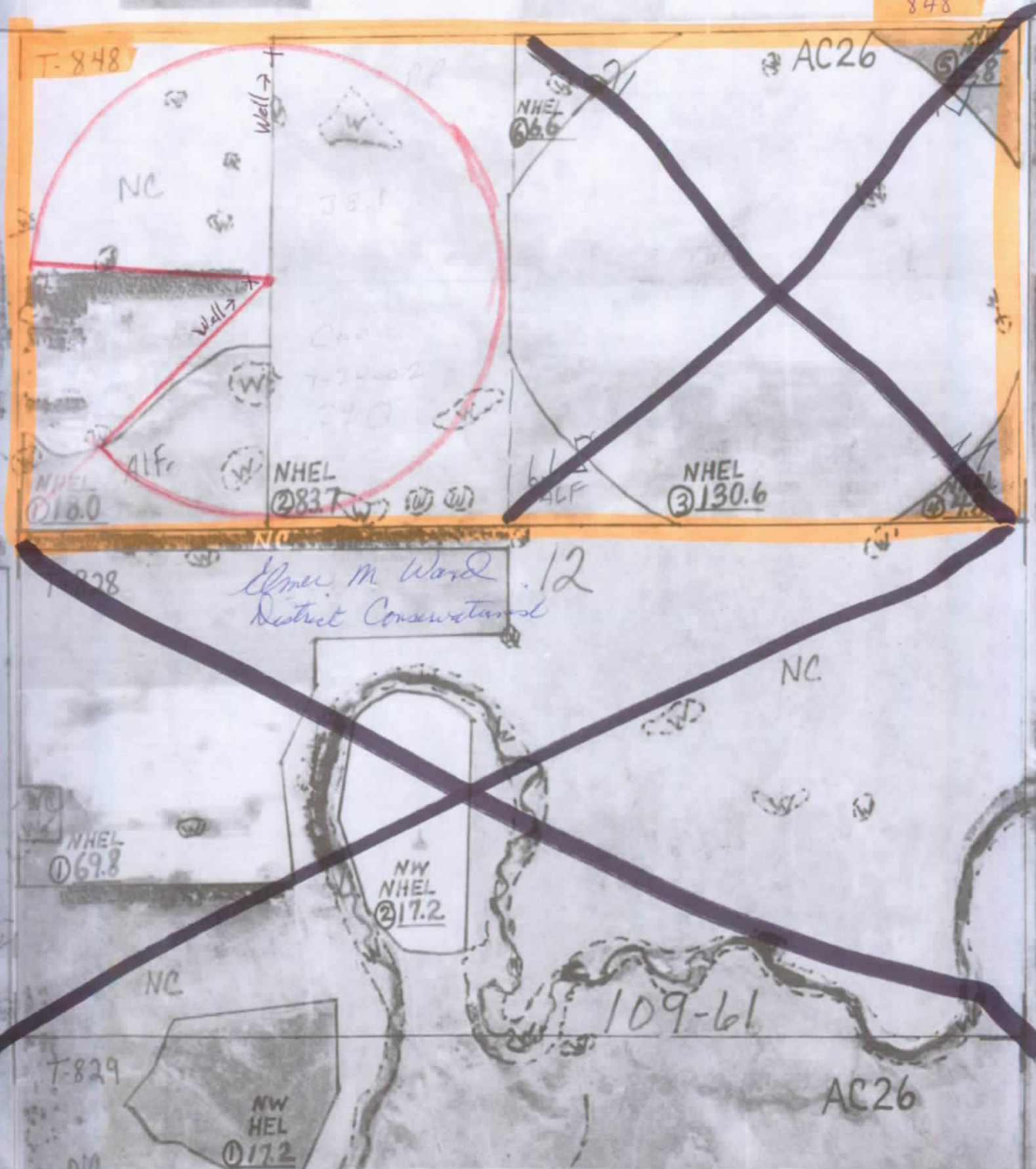
Sec 11,
T¹² 12-109-61

THIS IS NOT AN OFFICIAL WETLAND MAP.

Fm 5056

Ronald W Marone

Tract.
848



RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

417266

Pierre, August 5, 2002

RECEIVED OF Ronald Marone, 21536 405th Ave., Cavour SD 57324-7615
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6349-3</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>6349-3</u> _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	275 00

By Darland Erbe
Chief Engineer *gm*

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Ron Marone

ADDRESS: 21536 405th Ave, Cavour SD 57324 COUNTY: Beadle

DATE: August 5, 2002 TELEPHONE: 352-5515

RE: Diversion rate on pending water right permit application

COMMENTS:

I contacted Mr. Marone to ask how he arrived at the 1.71 cfs diversion rate listed on his application. His application proposes to irrigate 116 acres which by statutory limit allows for an appropriation of 1.66 cfs. Mr. Marone said he obtained that diversion rate by my previous telephone conversation with him. At that time he was proposing 120 acres of irrigation when in fact he'll only be irrigating 116 acres.

Mr. Marone was agreeable to amending the application to 1.66 cfs. In fact, he thinks the pivot that he'll be putting on that quarter only produces 700 gpm (depending on how they nozzle it). If the developed diversion rate is less than 1.66 cfs that can be addressed when the permit is licensed.

NAME: Eric Stenlund

REPORT ON WATER PERMIT APPLICATION NO. 6349-3

Ronald W. Marone

October 2, 2002

Application No. 6349-3 proposes to appropriate 1.66 cfs (745 gpm) from two wells approximately 90 feet deep located in the approximate center of the NW $\frac{1}{4}$ and the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 12 to irrigate 116 acres located in the NW $\frac{1}{4}$ of section 12; all in T109N R61W in Beadle County.

AQUIFER – FLOYD EAST JAMES (F-EJ)

The Floyd East James underlies 146,600 acres and contains an estimated 700,000 acre-feet of water in storage in Beadle County (Hedges, 1982). The aquifer is composed of outwash (sand and gravel) which is under confined or artesian conditions in the area of this application. Ground water movement is from east to west and toward the James River (Emmons, 1988). Recharge to the aquifer has been estimated to range between 0.30 inches per year for confined portions of the aquifer to 3.4 inches per year for unconfined portions of the aquifer (Hedges, 1983). Recharge volume to the Floyd East James aquifer would range from 3,665 to 41,536 acre-feet per year. Both of these volumes would represent extremes with a better estimate somewhere in between, probably about one-inch per year or about 12,200 acre-feet annually.

The Water Rights Program monitors two observation wells, BD-76N and BD80H, which are located about one-quarter mile west and one and one-half miles east of this application, respectively. Water levels for these observation wells show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. Hydrographs for these two observation wells are included with this report. The hydrographs show pumping for irrigation with typical annual fluctuation during the summer. The water level record indicates that the aquifer is capable of sustaining additional development (Water Rights, 2002).

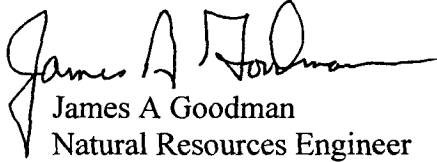
REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water right is No. 2040-3 which is also held by this applicant. Wells for this application will be approximately one-half mile west of the existing well. Interference will occur, that is, drawdown will be created by pumping and will extend from one pumping well to the other. This phenomenon is shown by the observation well hydrographs. This effect is not expected to be adverse.

CONCLUSIONS

1. Water is available from the Floyd East James aquifer.
2. The aquifer is confined and under artesian conditions at this site. Drawdown will occur as a result of pumping. This effect is not expected to adversely affect the existing water permits/rights in the area.

3. The well(s) authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. There have been two other permits issued for this same land area. Water Permit Nos. 4818-3 and 4818A-3 were both canceled because the lands were not developed within the permitted timeframe.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

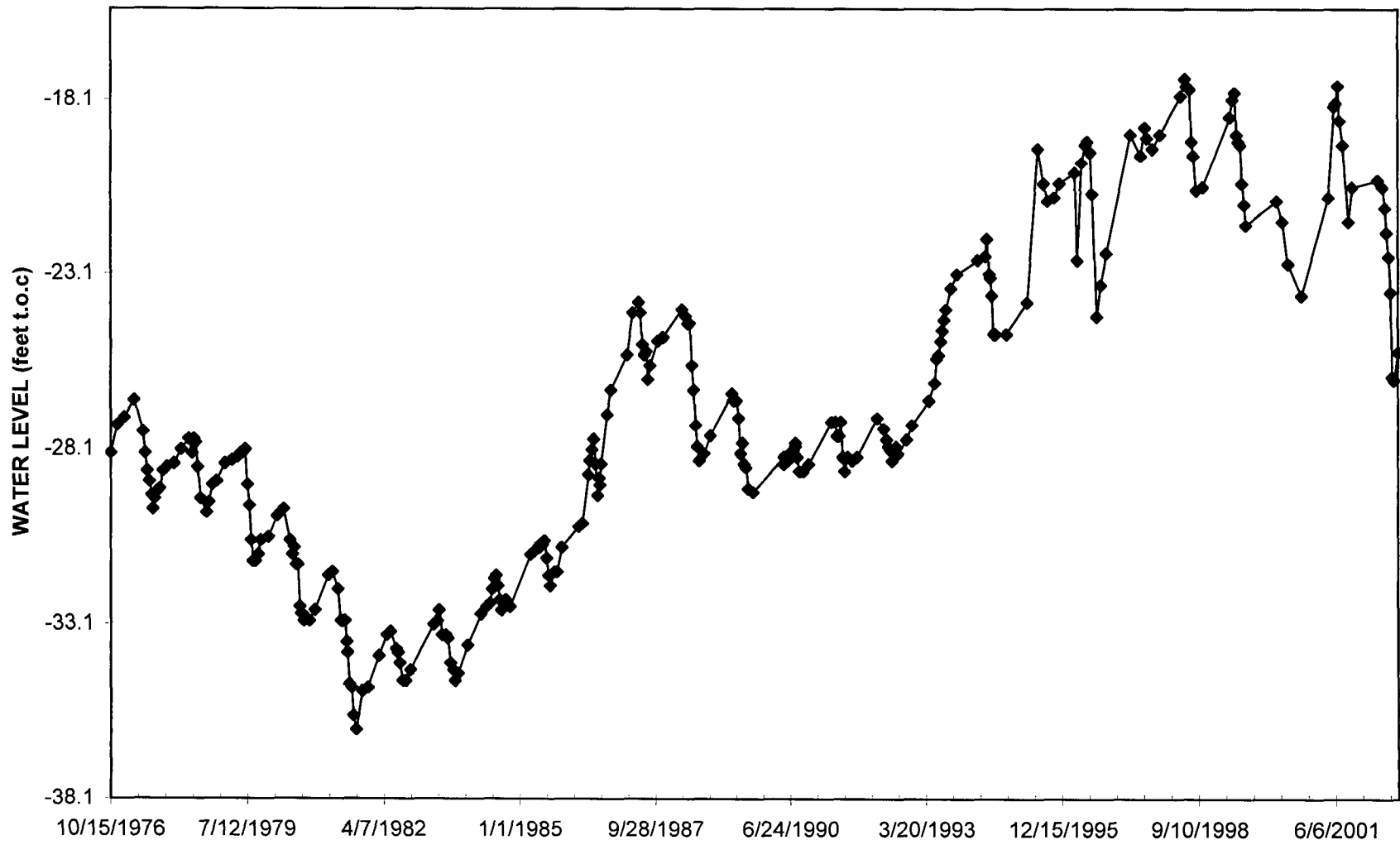
Emmons, P.J., 1988, A Digital Simulation of the Glacial-Aquifer System in Sanborn and Parts of Beadle, Miner, Hanson, Davison, and Jerauld Counties, South Dakota, WRI 87-4082, USGS, Huron, SD, 57350.

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

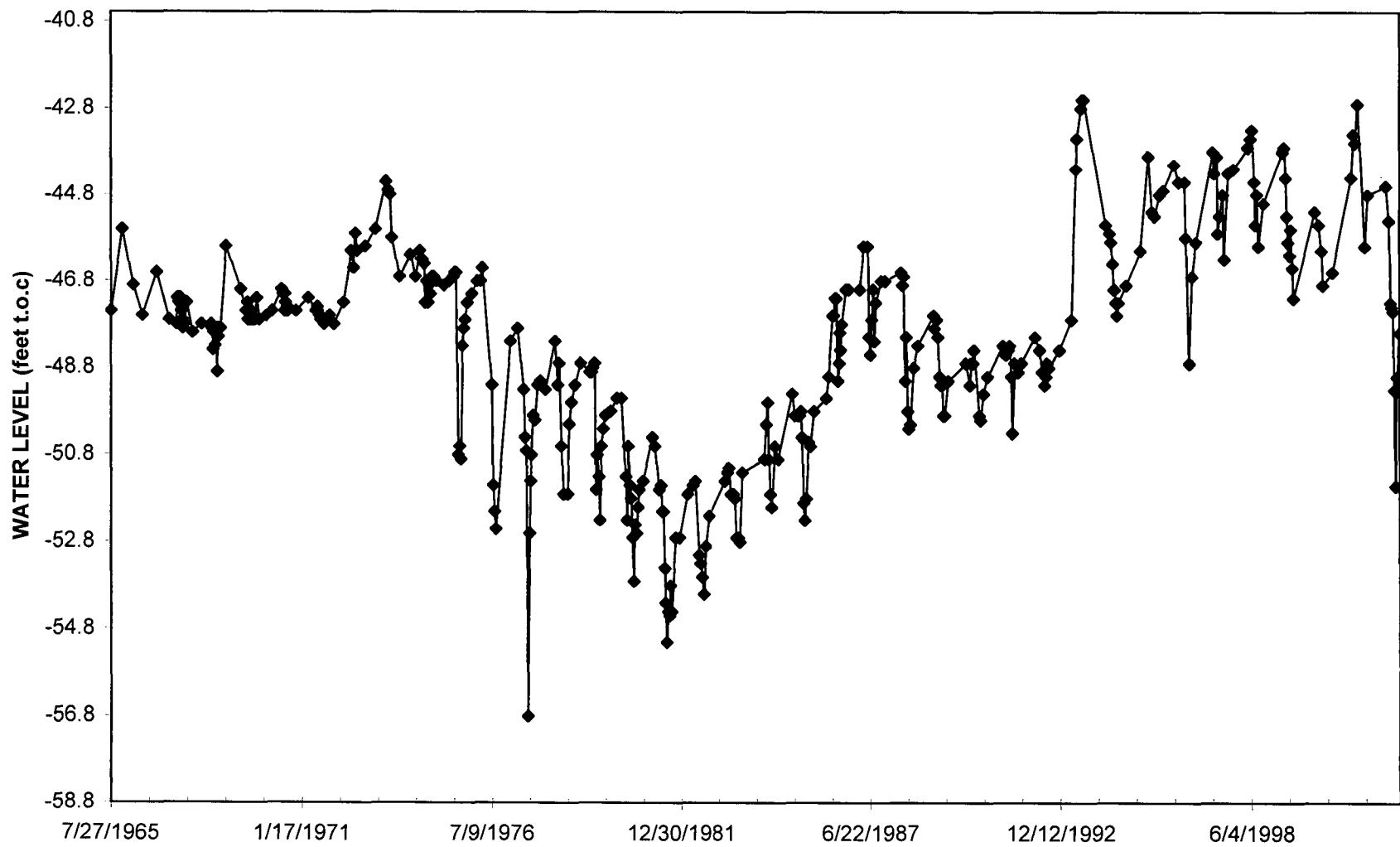
Hedges, L.S., 1983, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River SD and Iowa, Task 7: Ground Water Recharge, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2002, Unpublished Observation Well Data for Beadle County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
BD-76N**



**WATER RIGHTS' OBSERVATION WELL
BD-80H**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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. 6349-3, Ronald W. Marone**

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. 6349-3, Ronald W. Marone, 21536 405th Avenue, Cavour SD 57324.

The Chief Engineer is recommending APPROVAL of Application No. 6349-3 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:

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6349-3 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.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
October 7, 2002

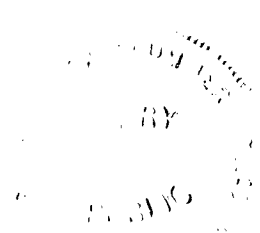
PRINTER'S AFFIDAVIT

STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss.

I, Cheri Bjorke, being duly sworn on oath, say that THE PLAINSMAN is a daily paper published at Huron, Beadle County, South Dakota, and that said newspaper has a bona fide circulation of at least 250 copies daily; that said newspaper has been published within said county for fifty-two consecutive weeks immediately prior to this date, that said newspaper is printed in whole or in part, in an office maintained at said place of publication; that I am *Legal Advertising Coordinator* of said newspaper and know the facts herein state. The annexed notice headed:

Ronald W. Marone, Notice of Application No. 6349-3 to
Appropriate Water

Was published for *two days, once each week, on the same day* in said newspaper, and not in any supplement of the said newspaper, the first publication was on the 16th day of October, 2002 and the last publication was on the 23rd day of October, 2002. That the full amount of the fee charged for publishing the same, to wit Thirty-seven and 52/100 Dollars inures to the benefit of the publisher of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever.


Cheri Bjorke

Subscribed and sworn to before me this 24th day of October, 2002.

Shannon Pirmer
Notary Public, South Dakota

My term expires 12/28/07

Legal # 367

RECEIVED

OCT 28 2002

WATER RIGHTS
PROGRAM

F.P. 10-16-02 L.P. 10-23-02
NOTICE OF APPLICATION
NO. 6349-3 to
Appropriate Water

Notice is given that Ronald W. Marone, 21536 405th Ave, Cavour SD 57324 has filed an application for a water permit to appropriate 1.66 cubic feet of water per second from two wells (Floyd East James Aquifer) 90 feet deep located in the approximate center of the NW/ and the NE/ NW/ Section 12 to irrigate 116 acres located in the NW/ Section 12; all in T109N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6349-3 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 W 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 November 4, 2002.

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.

No. 367 (adv.)

Instruction to Newspaper - Publish first Notice on October 16, 2002 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6349-3 to Appropriate Water

Notice is given that Ronald W Marone, 21536 405th Ave, Cavour SD 57324 has filed an application for a water permit to appropriate 1.66 cubic feet of water per second from two wells (Floyd East James Aquifer) 90 feet deep located in the approximate center of the NW ¼ and the NE ¼ NW ¼ Section 12 to irrigate 116 acres located in the NW ¼ Section 12; all in T109N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6349-3 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 November 4, 2002.

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

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

October 7, 2002

The Plainsman
PO Box 1278
Huron SD 57350-1278

ATTENTION: Legal Public Notice

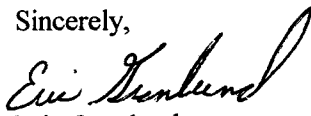
Enclosed is a Notice of Hearing on Application No. 6349-3 to Appropriate Water to be published twice. Please publish the first notice on October 16, 2002 with the second publication 7 days later.

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 Ronald W. Marone, 21536 405th Ave, Cavour, SD 57324 (Ph # 605-352-5515).

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. 6349-3

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

Date _____

We are in receipt of your letter of October 7, 2002 enclosing Notice of Hearing to Appropriate Water by Application No. 6349-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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.

October 7, 2002

Ronald W Marone
21536 405th Ave
Cavour SD 57324

Dear Mr. Marone:

Water Permit Application No. 6349-3 for irrigation 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 Plainsman printed at Huron, SD (Ph # 605-352-6401). 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.



NOV 26 2002

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Ronald W Marone
21536 405th Ave
Cavour SD 57324

Dear Mr. Marone:

Enclosed is Water Permit No. 6349-3 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

6349-3

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

Date 9-19-2003

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

RECEIVED
SEP 23 2003
WATER RIGHTS
PROGRAM

FROM: RONALD W & LORRAINE MARONE
21536 405th AVE.
CAVOUR, SD 57324-7615

(city, state, zip)

605-352-5515
(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.

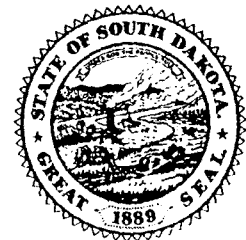
Water Permit No. 6349-3 states that the water use system is to be constructed by 11-4-2007, and water is to be put to beneficial use by Nov 4, 2011
(date) (date)

The water use system was completed on 7-7-2003
(date)

Applying the water to beneficial use was completed on 7-7-2003
(date)

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

Ronald W. Marone
(signature)



SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

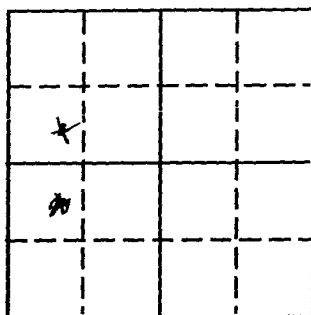
Location NW ¼ NW ¼ Sec 12 Twp 109 Rg 61

County

Beadle

North

Please mark well location with an "X"



Well Completion Date

7/29/2003

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

? 1/2 ft. from Pasture (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	6.00 IN	0.0 FT	77.0 FT	9.75 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Cement	4	Lb/gal	0.0 Ft	20.0 Ft
Col Clay	3	Lb/gal	20.0 Ft	65.0 Ft

Describe grouting procedure
Line

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 6.00 Inches Length 77.0 FeetMaterial PVCSlot Size .057 Set From 77.0 Feet to 92.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Gravel

Describe packer(s) and location

Gravel Packed from 77-92

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Pellets
☐ No, Why Not?

Lab sample sent to for water quality analysis

Well Owner: Ron Marone

Business Name:

Address: 21536 405th AveCity, State, Zip: Cavour SD 57324

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Yellow Clay	0	5
Yellow Sand	5	32
Gray Sand	32	35
Blue Clay	35	68
Sand	68	75
Coarse Sand	75	80
Blue Clay	80	100

STATIC WATER LEVEL 57.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: With Air
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

SEP 29 2003

WATER RIGHTS

PROGRAM 440

This well was drilled under license #

And this report is true and accurate.

Drilling firm: Pullman Well Drilling Inc

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

9-16-03

SOUTH DAKOTA WATER WELL COMPLETION REPORT

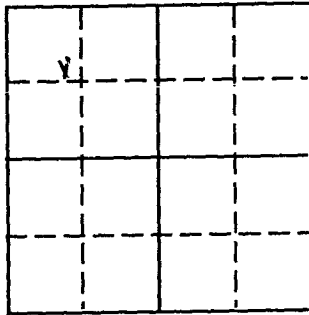
Location NW ¼ NW ¼ Sec 12 Twp 109 Rg 61

County

Beadle

North

Please mark well location with an "X"



Well Completion Date

7/17/2003

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

? ft. from Pasture (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	8.00 IN	0.0 FT	52.0 FT	12.75 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Cement	6	Lb/gal	0.0 Ft	20.0 Ft
Polycrystalline	4	Lb/gal	20.0 Ft	50.0 Ft

Describe grouting procedure
Line

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 8.00 Inches Length 20.0 FeetMaterial PvcSlot Size .057 Set From 52.0 Feet to 72.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Gravel

Describe packer(s) and location

Gravel packed 52 - 72

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Pellets
☐ No, Why Not?

Lab sample sent to for water quality analysis

Well Owner: Ron Marone

Business Name:

Address: 21536 405th AveCity, State, Zip: Cavour SD 57324

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Yellow Clay	0	27
Blue Clay / Sand Strks	27	40
Med Gray Sand	40	50
Coarse Sand W/ Gravel	50	72
Blue Clay		

STATIC WATER LEVEL 45.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: W/ Air
☐ Bailed

☐ Other

Pumping Level Below Land Surface

45.0 Ft. After 3.0 Hrs. pumped 300.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

SEP 29 2003

WATER RIGHTS PROGRAM

This well was drilled under license # 440

And this report is true and accurate.

Drilling firm: Pullman Well Drilling Inc

Signature of License Representative:

Raynie Pullman

Signature of Well Owner or Equitable Property Holder:

Date: 5-10-03

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6349-3

I have this day, June 9, 2025, made a thorough examination of the water use system constructed by Ronald Marone, 21536 405th Ave, Cavour, SD 57324 of Permit No. 6349-3, bearing the priority of August 5, 2002 authorizing the diversion of 1.66 cu. ft. per second of the waters of the Floyd East James Aquifer for irrigation purposes, in Beadle County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Pullman Well Drilling
- 2) No. of Wells 3
- 3) Depth(s) 72, 92, 66 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 8, 6, 6 inches
- 2) Length 52, 77, 54 feet
- 3) Type Plastic

Screen:

- 1) Type PVC
- 2) Length 20, 15, 12 feet
- 3) Static water level 45, 57, 45 feet

Pump:

- 1) Make Submersibles
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 600 total GPM

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating Unknown hp

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

- 1) Type Above ground Aluminum
- 2) Size 8 inches
- 3) Length 60 feet

Comments: Wells 2 & 3 use a 3-inch buried PVC line to supply the pivot also

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Lindsay
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 600 GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by N, diversion point (well #2) also developed in approx. center NW 1/4 and an additional diversion point (well #3) was developed.
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: WELL LOCATIONS
From the NW corner Sec 12 T109N R61W
WELL #1: 1320 ft S & 1235 ft E, Lat 44.26459 Long -98.10952 (approx. center of NW 1/4)
WELL #2: 1415 ft S & 645 ft E, Lat 44.26427 Long -98.11181 (approx. center of NW 1/4)
WELL #3: 1270 ft S & 1060 ft E, Lat 44.26480 Long -98.11021 (NW 1/4 NW 1/4).
2. The works are capable of diverting and conveying to the place of use 1.34 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
legal description/acreage
All land in Sec 12 T109N R61W
NW 1/4 NW 1/4 - 30 acres
NE 1/4 NW 1/4 - 31 acres
SE 1/4 NW 1/4 - 31 acres
SW 1/4 NW 1/4 - 18 acres
comprising a total of 110 acres of land and the license should be issued for 1.34 cfs.
3. All structures, wells and lands on map Y

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

Used FSA maps and ArcGIS to estimate irrigated acres and construct the inspection map.

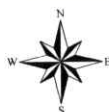
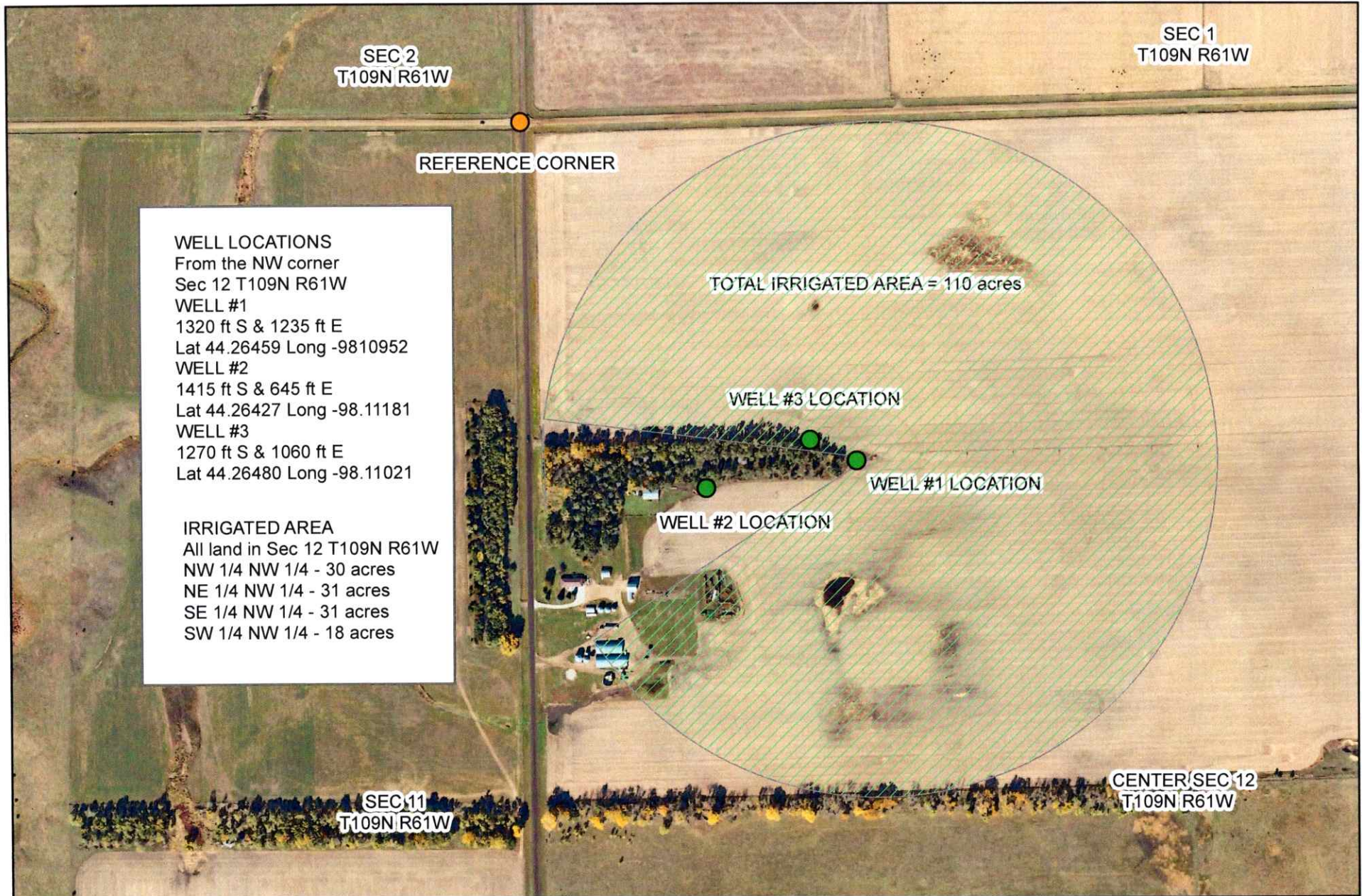
The pump rate reported in a recent Irrigation Questionnaire was used to establish the system flow capacity for the well.

The mailing address in the permit materials is current but the phone number for Mr. Ronald Marone is 605/350-3907 who was seen during the field inspection.



Darrell DeBoer
Water Rights Inspector
DENR, Water Rights Program

Date report completed: June 12, 2025



0 430 860 1,720 2,580 3,440 Feet

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

NAME: Ronald W MaroneCOUNTY: BeadleADDRESS: 21536 405th Ave, Cavour, SD 57324DATE: August 13, 2025**GENERAL DESCRIPTION OF AUTHORIZED PROJECT:**

Water Permit No. 6349-3 authorizes diversion of 1.66 cfs from two wells, Floyd: East James Aquifer (F:EJ) located in the approximate center of the NW $\frac{1}{4}$ and the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 12, for irrigation of 116 acres located in the NW $\frac{1}{4}$ Section 12; all in T109N, R61W.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed, or additional diversion points may be added, 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,

One well (well #2) that is authorized under Permit No. 6349-3 was completed into the F:EJ, in the approx. center NW $\frac{1}{4}$ of Section 12, T109N, R61W. An additional diversion point (well #3) was developed into the F:EJ, in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 12, T109N, R61W. The developed rate of diversion was 1.34 cfs, which is less than the originally permitted amount.

If irrigation, no new land is irrigated,

110 acres of 116 permitted acres were developed.

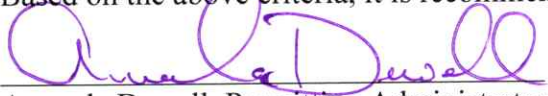
Review of Existing Diversions

There are ten other existing water permits/rights within a 2.5 mile radius of where the diversion points were developed, also authorizing diversion from the F:EJ. The nearest permit/right authorized for diversion from the F:EJ is approximately 1.56 miles southeast of the wells in question, 7058-3 held by Ken Dickson. The next nearest permit/right would be 1794-3, held by Donna Dickson, located approximately 2.5 miles east. It was determined in the review of the application of Water Permit 8038-3 that there was reasonable probability any interference due to pumping from the original well would not adversely or unlawfully impair existing rights. The same would be expected for the wells constructed in the new locations.

The closest domestic well (completed into the F:EJ) is approximately 0.14 miles to the north, located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 12, T109N, R61W, on property owned by Ronald W Marone, according to Regrid. The location of the domestic wells in the well completion report database maintained by the Water Rights Program is based on the location listed by the driller on the well completion report.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the change in diversion point location be approved.



Amanda Dewell, Permitting Administrator
Water Rights Program

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

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.



Mark Mayer, PE
Director of Office of Water

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6349-3**

(1) Ronald W Marone, 21536 405th Ave, Cavour, SD 57324, made Application No. 6349-3, August 5, 2002, for a water permit to divert 1.66 cubic feet of water per second from groundwater, two wells (Floyd: East James Aquifer), Beadle County, South Dakota for irrigation purposes. Permit No. 6349-3, with a priority date of August 5, 2002, was approved November 4, 2002, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before November 4, 2007, and for the application to beneficial use of water on or before November 4, 2011.

An investigation conducted for licensing purposes found an additional diversion point developed outside of the permitted area. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the additional diversion point did not increase the potential for adverse effects to existing diversions.

(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 1.34 cubic feet of water per second for beneficial use. The locations of the diversion points are:

- Well 1: 1,320 feet S and 1,235 feet E from the NW corner of Section 12, T109N, R61W (approx. center of NW $\frac{1}{4}$) (Latitude 44.26459 and Longitude -98.10952)
- Well 2: 1,415 feet S and 645 feet E from the NW corner of Section 12, T109N, R61W (approx. center of NW $\frac{1}{4}$) (Latitude 44.26427 and Longitude -98.11181)
- Well 3: 1,270 feet S and 1,060 feet E from the NW corner of Section 12, T109N, R61W (NW $\frac{1}{4}$ NW $\frac{1}{4}$) (Latitude 44.26480 and Longitude -98.11021)

(3) The amount of appropriation may not exceed 2 acre-feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 15 – October 15.

(4) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate to following land:

Section 12, T109N, R61W
NE $\frac{1}{4}$ NW $\frac{1}{4}$ - 31 acres
NW $\frac{1}{4}$ NW $\frac{1}{4}$ - 30 acres
SW $\frac{1}{4}$ NW $\frac{1}{4}$ - 18 acres
SE $\frac{1}{4}$ NW $\frac{1}{4}$ - 31 acres
Total – 110 acres

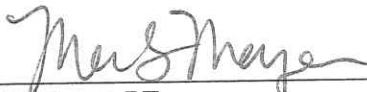
(5) Pursuant to South Dakota Water Law 46-5-30.1 Ronald W Marone, the holder and/or owner of Water Right No. 6349-3 is issued a license to appropriate water, the right to use 1.34 cubic feet of water per second from groundwater, three wells (Floyd: East James Aquifer), with a priority date of August 5, 2002, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6349-3 and subject to the following qualifications:

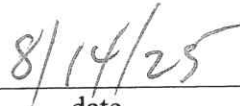
continued

QUALIFICATIONS

1. The wells approved under this Permit will be located near domestic wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6349-3 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. *(The wells were drilled by Riverside Irrigation Drilling Co. & Pullman Well Drilling Inc. Copies of the Well Completion Reports are on file with the Water Rights Program.)*
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



Mark Mayer, PE
Director of Office of Water



date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

AUG 14 2025

Ronald W Marone
21536 405th Ave
Cavour, SD 57324

No. 6349-3

Dear Mr. Marone:

Enclosed is Water License No. 6349-3. 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.

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

If you have any questions regarding the enclosed license, please contact Water Rights Permitting Administrator, Amanda Dewell at (605) 773-3352 or Amanda.Dewell@state.sd.us.

Sincerely,

Mark Mayer, PE
Director of Office of Water
(605) 773-3352

enclosures