

WATER PERMIT NO. 6443-3

Name of Applicant: Ronald W Marone

Address: 21536 405th Ave, Cavour SD 57324

Phone: 605 352-5515

Amount of Water Claimed: 1.93 cfs

Total Acres: 135

Source of Water Supply: groundwater (two wells)

Water to be used for: irrigation

County: Beadle

Type of Waste Disposal System:

Location: 5 miles southeast of Huron

PRIORITY

Date Received: 9-23-03

Application/License Fee: \$300

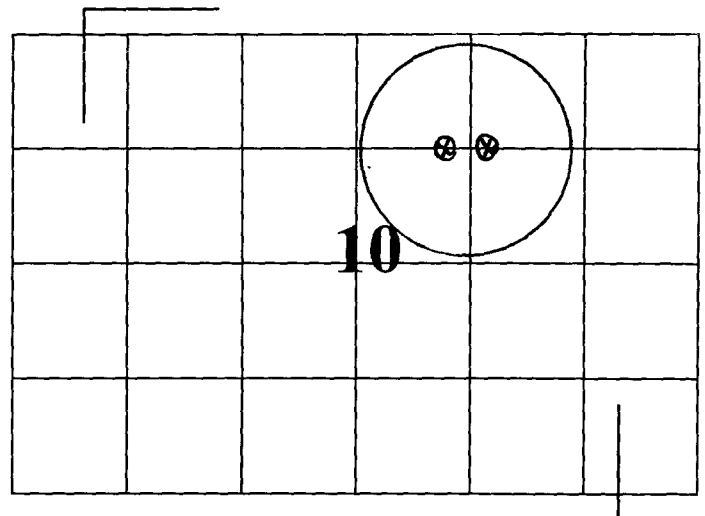
Corrected Application Received:

Period of Annual Use: April 15 – October 15

Remarks:

Diversion Point: approximate center of NE ¼ Sec
10-T109N-R61W

Land to be Irrigated: NE ¼ Sec 10-T109N-R61W



Depth of Well: 75 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Sharla Wipf, Beadle Co FSA

Reviewed and the Number Assigned on: 9-23-03

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 6443-3**

Date of first receipt of application September 23, 2003.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6443-3 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. 6443-3 appropriates 1.93 cubic feet of water per second from two wells (Floyd: East James Aquifer) 75 feet deep located in the approximate center of the NE ¼ Section 10 to irrigate 135 acres located in the NE ¼ Section 10; 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 September 23, 2003.
4. The date of approval of Permit No. 6443-3 is December 1, 2003.
5. One-fifth of the construction is to be completed on or before June 1, 2006.
6. All construction is to be completed on or before December 1, 2008.
7. Water is to be put to beneficial use on or before December 1, 2012.
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. 6443-3 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) from the producing formation to the surface 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

DEC 29 2003

date



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6443-3</u> (office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>
	Newspaper <u>Plainsman, Huron</u>

RECEIVED
SEP 23 2003
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.) _____

- Name of Applicant Ronald W Marone Phone 605-352-5515
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 21536 405TH AVE Cavour State SD 57324
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.93 *CFS or **GPM ***AF Total Acreage 135
(*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) (Section)
2 Wells within 400 feet of center NE 1/4 Sec 10 T109N R61W
Bradlee County
- County or counties where water will be used Bradlee
- 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 NE 1/4 Sec 10 T109N R61W	33		
NW 1/4 " "	33		
SW 1/4 " "	34		
SE 1/4 " "	35		

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

STATE OF SOUTH DAKOTA) SS
County of Bradlee

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 22nd day of September 2003

Shari Larsen

Notary Public signature

Shari Larsen

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 12" Depth 75'
- b) Casing Type PVC Diameter 8 Thickness _____
- c) Screen Type PVC slotted Diameter 8 Thickness _____
- d) Gravel Pack 4" Length of Gravel Pack 60'
- 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 3/4 mile On property owned by others 3/4 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 _____

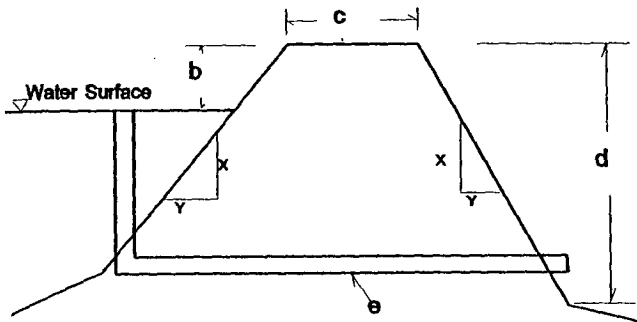
3. Dugout Information

- 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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date September 23, 20 03

RECEIVED OF Ronald Marone, 21536 405th Ave., Cavour SD 57324

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

Fee for Application for Permit No. <u>6443-3</u> to Appropriate Water, to construct and to put water to beneficial use	250	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>6443-3</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	300.00

No.

000882

By

Darland White

Chief Engineer

MAP NOT TO SCALE
THIS IS NOT AN OFFICIAL

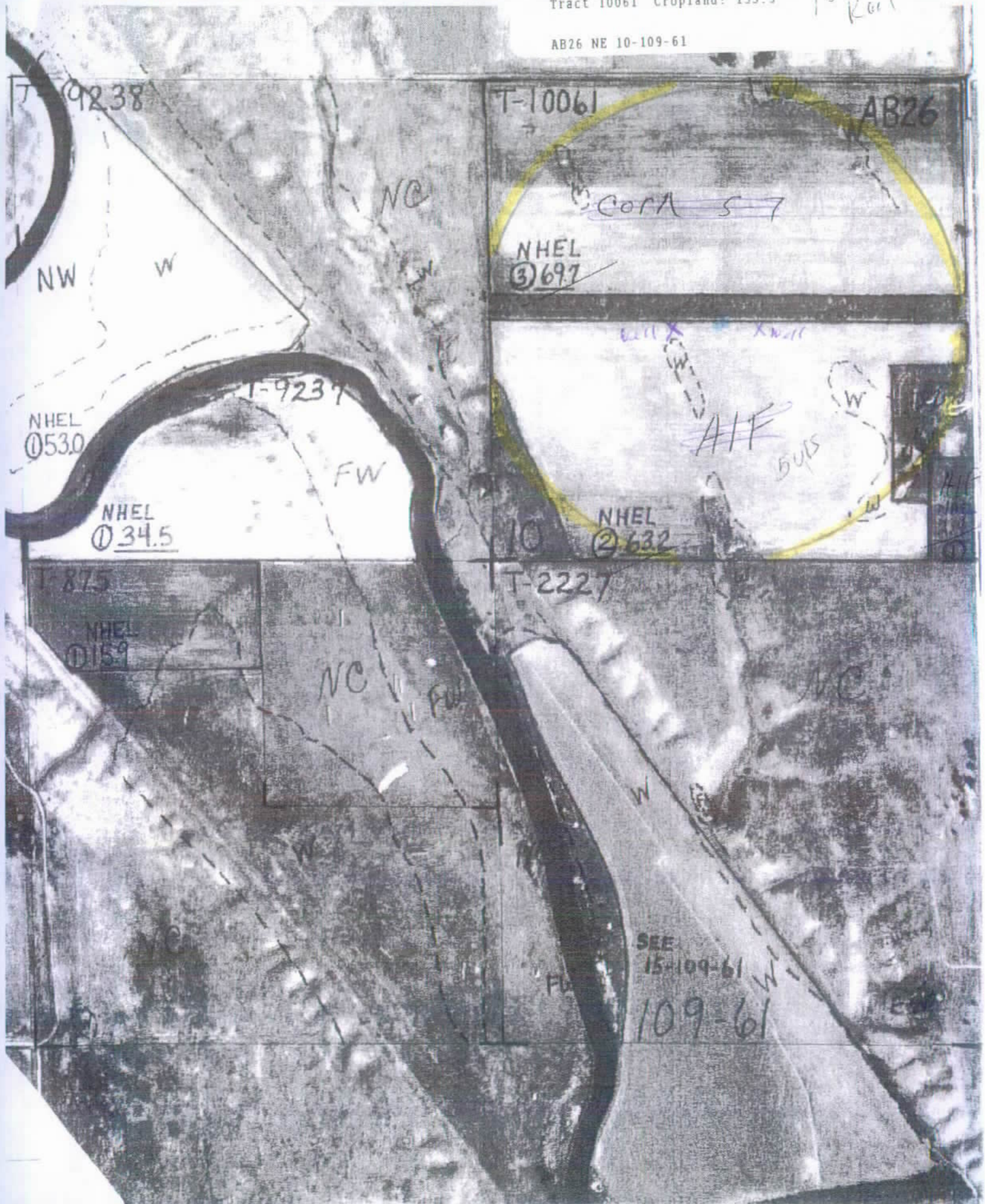
2003 5056 RONALD MARONE

Tract 10061 Cropland: 135.3

AB26 NE 10-109-61

Sharla Wipf - PT 9-22-03

10090
Ran



HUKON DRILLING INC. DRILL LOG

PAGE NO.

Ronald Marone
JOB NAME

N.W. 11-109-61 Beadle Co. 1/19/76
LOCATION DATE

15
RIG NO.

Lloyd Peterson
FOREMAN, Jr.

DEPTH	TIME	REMARKS	DESCRIPTION
Hole # 1			
1 20		0-20 Sandy Yellow Clay	
2 35		20-35 Sand & Gravel Mixed w/Blue Clay	N.W. 11-109-61
3 50		35-45 Sand & Gravel Mixed w/Blue Clay	Beadle County
4 65		45-50 Fine Dark Sand	
5 80		50-58 Med. Sand w/Blue Clay	*1
		58-65 Coarse Sand w/Coal	*2
		65-72 Med. Sand w/Coal	*3
		72-80 Blue Clay	
Hole # 2			
1 20		0-20 Sandy Yellow Clay	
2 35		20-35 Sandy & Gravelly Blue Clay	
3 50		35-39 Sandy & Gravelly Blue Clay	
4 65		Rock @ 39	
5 80		39-50 Fine to Med. Sand w/Blue Clay	
		50-65 Coarse Sand w/Coal	
		65-70 Coarse Sand w/Coal	
		70-80 Blue Clay	
Hole # 3			
1 20		0-20 Sandy Yellow Clay	
2 35		20-35 Blue Clay Some Traces of Gravel	
3 50		35-43 Blue Clay Some Traces of Gravel	
4 65		43-50 Fine Dark Sand w/Clay	
5 80		50-65 Coarse Sand Lots of Coal	
		65-72 Coarse Sand Lots of Coal Some Pea size gravel	
		72-80 Blue Clay	
		75 ft. TD Cased Up	
		25 ft. Slotted 4" PVC	
		50 ft. Blank 4" PVC	
		Pumped 156 GPM Water head 33 ft.	
		1500 lbs. Concrete Sand	
		1 used 5" Drag Bit 1 used 7 7/8" Roller Bit	

SOUTH DAKOTA WATER WELL COMPLETION REPORT

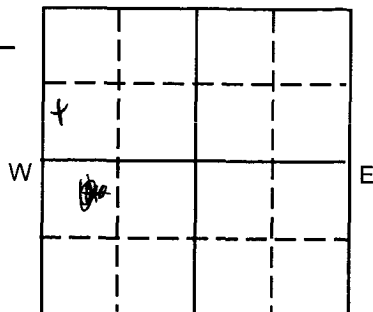
Location NW 1/4 NW 1/4 Sec 10 Twp 109 Rg 61

County

Beadle

North

Please mark well location with an "X"



Well Completion Date

7/30/2003

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 LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	6.00	0.0	99.0	9.75

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
Cement	4		0.0	20.0
Col Clay	3		20.0	47.0

Describe grouting procedure
Line

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 6.00 Inches Length 99.0 FeetMaterial PVCSlot Size .057 Set From 99.0 Feet to 114.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Gravel

Describe packer(s) and location

Gravel Packed from 99-114

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Pellets
☐ No, Why Not?
Lab sample sent to for
water quality analysisWell Owner: Ron Marone

Business Name:

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

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Yellow Clay	0	15
Yellow Sand	15	40
Blue Clay	40	77
Gray Sand	77	90
Gravel	90	100
Coarse White Sand	100	114
Gray Chalk	114	120

STATIC WATER LEVEL 68.0 FEETIf flowing: closed in pressure PSIGPM flow through Inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherReduced 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 GPMFt. After Hrs. pumped GPMIf pump installed, pump rate: GPM

REMARKS

RECEIVED

SEP 29 2003

WATER RIGHTS
PROGRAMThis 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: 9-10-03

REPORT ON WATER PERMIT APPLICATION NO. 6443-3

For Ronald W. Marone

October 21, 2003

Application No. 6443-3 proposes to appropriate 1.93 cfs (866 gpm) from two wells approximately 75 feet deep located in the approximate center of the NE ¼ of section 10 to irrigate 135 acres located in the NE ¼ of section 10; all in T109N R61W in Beadle County.

AQUIFER – FLOYD EAST JAMES (F-EJ)

The Floyd East James is a complex aquifer system which can be either buried or surficial outwash (sand and gravel) and can be under artesian or water table conditions. At this site the aquifer is probably under artesian conditions. The aquifer underlies 146,000 acres and contains an estimated 700,000 acre-feet of recoverable water in storage in Beadle County (Hedges, 1982). 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 in the confined portion of the aquifer to 3.4 inches per year for the unconfined portion of the aquifer (Hedges, 1983). Recharge to the Floyd East James aquifer would range from 3,665 to 41,536 acre-feet per year. Both of these estimates represent extremes with a better estimate probably in the one inch per year range or about 12,200 acre-feet per year.

No test holes were drilled on the proposed acreage. Test well information provided with the application (one half mile to the east of this application) indicates sand and gravel from near the surface to a total depth of about 72 feet below land surface. This test well had a static water level of 33 feet below land surface and was capable of producing 156 gpm using air to develop. Test well will need to be constructed at this site to determine potential well yields. There is sufficient information available to evaluate this permit application.

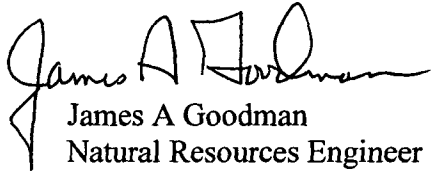
The Water Rights Program monitors an observation well BD-76N which is located about one mile to the east of this application. Water levels for this well show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer does recharge and that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2003).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing water right No. 4248-3 within a one mile radius of this application. Interference is not expected to be a concern. These proposed wells will be about one-half mile from the existing wells and this should be sufficient to minimize any potential impacts. Both this application and the existing right both belong to the applicant.

CONCLUSIONS

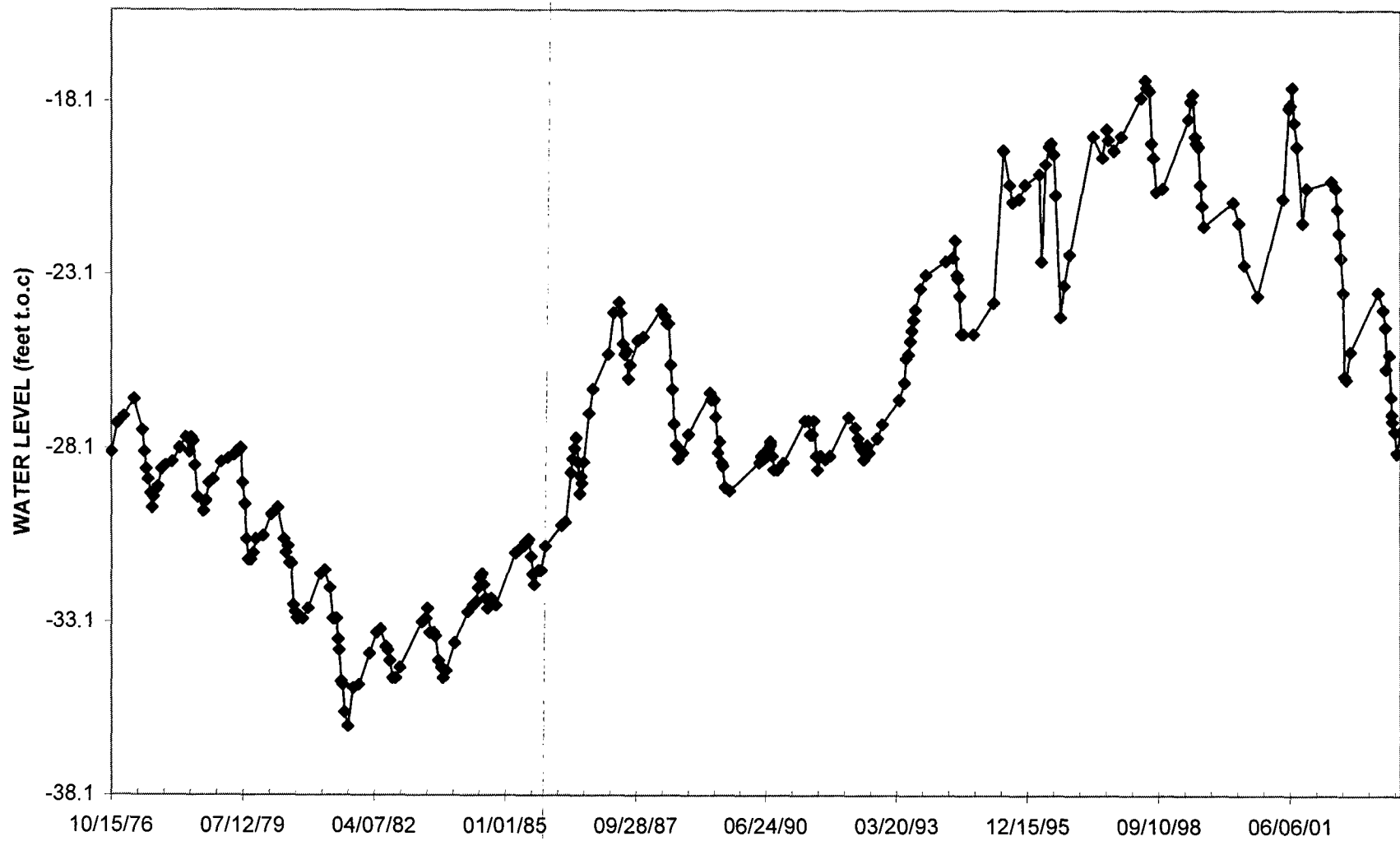
1. Water is available from the Floyd East James aquifer.
2. The aquifer is under confined conditions at this site. Drawdown will result from pumping. Interference is not a concern because of the distance between existing production wells.
3. Without test well drilling it is not possible to estimate well potential at this site. But overall, there is sufficient information available to evaluate this application. It appears that the aquifer underlies this site and the aquifer has proven to be a reliable water source.
4. These wells must be constructed in accordance with SD Well Construction Standards.


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Emmons, P.J., 1988, A Digital Sumlation 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., 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.
- Hedges, L.S., and others, 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, 2003, Unpublished Observation Well Data for Beadle County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

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





**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. 6443-3, 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. 6443-3, Ronald W. Marone, 21536 405th Avenue, Cavour SD 57324.

The Chief Engineer is recommending APPROVAL of Application No. 6443-3 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. 6443-3 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) from the producing formation to the surface 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 30, 2003



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 31, 2003

Plainsman
PO Box 1278
Huron SD 57350-1278

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6443-3 to Appropriate Water to be published twice. Please publish the first notice on November 10, 2003 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 (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 /ks
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

CUT HERE

No. 6443-3

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

Date _____

We are in receipt of your letter of October 31, 2003 enclosing Notice of Hearing to Appropriate Water by Application No. 6443-3 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.

October 31, 2003

Ronald W Marone
21536 405th Ave
Cavour SD 57324

Dear Mr. Marone:

Water Permit Application No. 6443-3 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 /KS

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.

12 887

Instruction to Newspaper - Publish first Notice on November 19, 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6443-3 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 1.93 cubic feet of water per second from two wells (Floyd: East James Aquifer) 75 feet deep located in the approximate center of the NE ¼ Section 10 to irrigate 135 acres located in the NE ¼ Section 10; all in T109N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6443-3 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 December 1, 2003.

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.

PRINTER'S AFFIDAVIT

STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss.

I, Kristie Kahre, 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 (DENR) – Appl 6443-3

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 12th day of November, 2003 and the last publication was on the 19th day of November, 2003. That the full amount of the fee charged for publishing the same Forty Eight 82/100 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.

Kristie Kahre

Subscribed and sworn to before me this 26th day of November, 2003.

Kimberly DeWitt
Notary Public, South Dakota

My term expires November 19, 2009

Legal #418

F.P. 11-12-03
L.P. 11-19-03

NOTICE OF APPLICATION NO. 6443-3 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 1.93 cubic feet of water per second from two wells (Floyd: East James Aquifer) 75 feet deep located in the NE 1/4 Section 10 to irrigate 135 acres located in the NE 1/4 Section 10; all in T109N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6443-3 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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Steven M. Pirner
Secretary
Department of
Environment and Natural
Resources
No. 418 (adv.)

RECEIVED

DEC - 1 2003

WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 29 2003

Ronald W Marone
21536 405th Ave
Cavour SD 57324

Dear Mr. Marone:

Enclosed is Water Permit No. 6443-3 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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 10 Twp 109 Rg 61

County

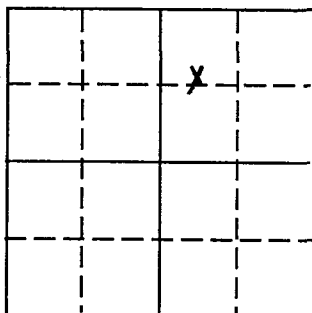
Beadle

North

Please mark well location with an "X"

W

E



Well Completion Date

4/16/2004

1 Mile

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

? ft. from In 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 LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	8.00	0.0	48.0	12.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
Cement	32		0.0	30.0

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 8.00 Inches Length 10.0 FeetMaterial Stainless SteelSlot Size .060 Set From 48.0 Feet to 58.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Gravel

Describe packer(s) and location

Gravel Packed

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 w/ Gravel Streaks & Roc	0	20
Yellow Clay w/ Sand Strk & Rocks	20	28
Blue Clay w/ Sand Strk & Rocks	28	40
Coarse Gray Sand	40	48
Blue Clay	48	49
Gravel w/ Rocks	49	58
Blue Clay	58	60
Blue Clay w/ Sand Strk & Rocks	60	70

STATIC WATER LEVEL 26.0 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: 150+ with air
☐ Bailed 300 gpm with sub
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

This well was drilled under license # 440

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:

9-7-04

RECEIVED
SEP - 9 2004
WATER RIGHTS
PROGRAM

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 10 Twp 109 Rg 61

County

Beadle

North

Please mark well location with an "X"

W

E

Well Completion Date

4/14/2004

1 Mile

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

? ft. from In Pasture (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	8.00 IN	0.0 FT	60.0 FT	12.00 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	<u>30</u>	Lb/gal	0.0 Ft	<u>30</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 8.00 Inches Length 10.0 FeetMaterial Stainless SteelSlot Size .060 Set From 60.0 Feet to 70.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Gravel

Describe packer(s) and location

Gravel Packed

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?

☐ 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 w/ Rocks	0	20
Yellow Clay w/ Gravel Strk & Rocks	20	30
Blue Clay w/ Sand Strk	30	40
Fine Gray Sand	40	50
Coarse Sand & Gravel	50	60
Gravel	60	70
Blue Clay w/ Sand Strk	70	80

STATIC WATER LEVEL 32.0 FEETIf flowing: closed in pressure PSIGPM flow through Inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherReduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: 150 gpm with air
350 gpm with sub
☐ Bailed☐ Other

Pumping Level Below Land Surface

 Ft. After Hrs. pumped GPM Ft. After Hrs. pumped GPMIf pump installed, pump rate: GPM

REMARKS

This well was drilled under license # 440

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:

RECEIVED

SEP - 9 2004

Date: 9-9-04

WATER RIGHTS PROGRAM

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

Date 11-18-2004

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

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

(address)

(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. 6443-3 states that the water use system is to be constructed by _____, and water is to be put to beneficial use by _____
(date) (date)

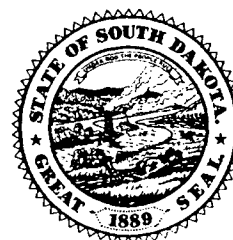
The water use system was completed on 6-1-04
(date)

Applying the water to beneficial use was completed on 6-1-04
(date)

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

Ronald W. Marone
(signature)

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NOV 22 2004
WATER RIGHTS
PROGRAM



Permit No. 6443-3
James 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, **October 3, 2006**, made a thorough examination of the water use system constructed by **Ronald W Marone** of **21536 405th Ave., Cavour, SD 57324** holder of Permit No. **6443-3**, bearing the priority of **September 23, 2003** authorizing the diversion of **1.93** cu. ft. per second of the waters of the **Floyd:East James Aquifer** for **Irrigation** purposes, in **Beadle** County.

Inspection contact & relationship **Ronald Marone (352-5515)**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Pullman Well Drilling Inc.**
- 2) No. of Wells **2**
- 3) Depth(s) **West Well: 70 feet, East Well: 80 feet**
- 4) Well log(s) available **Y**

Casing West Well:

- 1) Diameter **8** inches
- 2) Length **48** feet
- 3) Type **Plastic**

Casing East Well:

- 1) Diameter **8** inches
- 2) Length **60** feet
- 3) Type **Plastic**

Screen West Well:

- 1) Type **Stainless Steel**
- 2) Length **10** feet
- 3) Static water level **26** feet

Screen East Well:

- 1) Type Stainless Steel
- 2) Length 10 feet
- 3) Static water level 32 feet

Pumps:

- 1) Make (2) Goulds submersibles
- 2) Model 300L-20
- 3) Size 20 hp
- 4) Capacity 300 GPM

B. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Zimmatic
- 2) Overall length 1280 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) High or low pressure Low

Chemigation Equipment:

- 1) Does chemigate N

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

West Well: Approximately 1325 feet south and 1715 feet west of the NE corner of Section 10-T109N-R61W (N 44.26479, W -98.140991)

East Well: Approximately 1325 feet south and 1275 feet west of the NE corner of Section 10-T109N-R61W (N 44.26473, W -98.13934)

Report of Examination of Works

Permit No. 6443-3

The works are capable of diverting and conveying to the place of use **1.33** 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:

Section 10-T109N-R61W

NW ¼ NE ¼ - 33.5 acres

NE ¼ NE ¼ - 33.5 acres

SW ¼ NE ¼ - 33.5 acres

SE ¼ NE ¼ - 33.5 acres

comprising a total of **134** acres of land and the license should be issued for **1.33** cfs.

All structures, wells and lands on map **Y**

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



Mike DeFea

Natural Resources Project Engineer

DENR, Water Rights Program

Date report completed: **May 30, 2007**

Ronald Marone
21536 405th Ave.
Cavour, SD 57324
352-5515

Water Permit No. 6443-3



Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
May 30, 2007



0 750 1,500 3,000 Feet



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 01 2007

6443-3

Ronald Marone
21536 405th Ave
Cavour SD 57324

Dear Mr. Marone:

Enclosed is Water License No. 6443-3. 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.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 6443-3, 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,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6443-3

(1) Ronald Marone, 21536 405th Ave, Cavour SD 57324 made Application No. 6443-3, September 23, 2003 for a water permit to divert 1.93 cubic feet of water per second from groundwater (two wells), Beadle County, South Dakota for irrigation purposes. Permit No. 6443-3, with a priority date of September 23, 2003 was approved December 1, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 1, 2008 and for the application to beneficial use of water on or before December 1, 2012.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on November 22, 2004. The *Notice* stated the diversion system was completed on June 1, 2004 and the water placed to beneficial use on June 1, 2004.

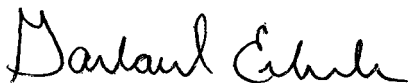
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6443-3 is issued a license, bearing a priority date of September 23, 2003 to appropriate 1.33 cubic feet of water per second from groundwater (two wells) to irrigate 134 acres.

The diversion points are located: West well – approximately 1,325 feet south and 1,715 feet west of the northeast corner Section 10-T109N-R61W (SW ¼ NE ¼) and East well – approximately 1,325 feet south and 1,275 feet west of the northeast corner of Section 10-T109N-R61W (SE ¼ NE ¼). The acres authorized for irrigation are as follows:

Section 10-T109N-R61W	NW ¼ NE ¼	33.5 acres
	NE ¼ NE ¼	33.5 acres
	SW ¼ NE ¼	33.5 acres
	SE ¼ NE ¼	33.5 acres
Total 134 acres		

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6443-3 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. 6443-3 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) from the producing formation to the surface pursuant to Section 74:02:04:28.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

AUG 01 2007

date

