

WATER PERMIT NO. 8988-3

Name of Applicant: **B.D.M. Rural Water System, Inc.**

Address: **PO Box 49, Britton SD 57430** Phone: **605-448-5417**

Amount of Water Claimed: **1,300 AF** Total Acres: **N/A**

Source of Water Supply: **Groundwater**

Water to be used for: **RWS** County: **Marshall**

Type of Waste Disposal System:

Location: **Approx. 5 miles northeast of Britton**

PRIORITY Date Received: **10-02-25**

Application/License Fee: **\$1,850.00**

Corrected Application Received: **10-06-25**

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

Remarks: **5 wells, additional 3.47 cfs/ 1,300 AF**

Diversion Point: **E 1/2 NE 1/4 NE 1/4 Sec 9-
T127N-R57W**

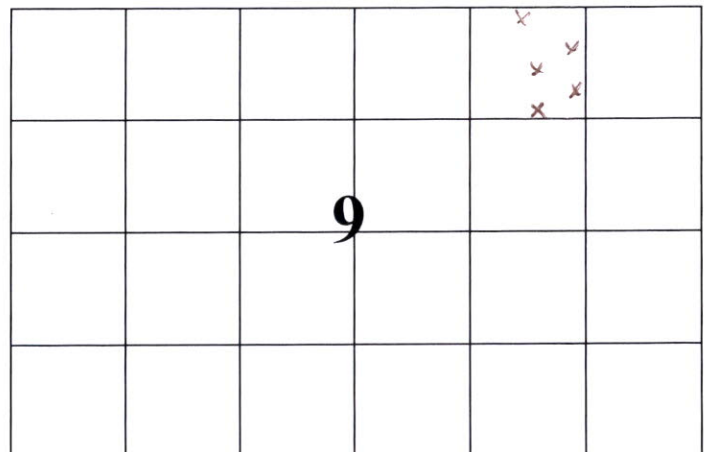
Land to be Irrigated: **N/A**

Depth of Well: **300**

Well Driller: **Steffl Drilling/Thein Well**

Remarks:

Type of Map: **aerial**



Reviewed and the Number Assigned on: **10-14-25**

By: **Rachel Rodriguez**

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 8988-3**

Date of first receipt of application October 2, 2025.

Date of receipt of corrected application October 14, 2025.

The Acting Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8988-3 to B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, 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. 8988-3 authorizes an additional 1,300 acre-feet of water annually and increases the maximum diversion rate by an additional 3.47 cubic feet of water per second (cfs), to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3. Water Right No. 4908-3 and Permit Nos. 6371-3 and 8533-3, all together, authorize a combined total appropriation of up to 2,624 acre-feet annually, at a maximum diversion rate of 5.0 cfs, from a total of 13 wells. This permit will obtain the additional water from five of the thirteen existing wells (Wells 9 through 13), all completed into the Middle James: Columbia Aquifer (approximately 300 feet deep) located in the E 1/2 NE 1/4 NE 1/4 Section 9-T127N-R57W. This Permit, Water Right No. 4908-3, and Permit Nos. 6371-3 & 8533-3, all combined, will authorize a total appropriation of up to 3,924 acre-feet annually, at a maximum diversion rate of 8.47 cfs. This site is located approximately five miles northeast of Britton SD.
2. The water appropriated shall be used for the purpose of rural water system use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 8988-3 is January 5, 2026.
5. The date from which applicant may claim right is October 2, 2025.
6. One-fifth of the construction is to be completed on or before July 5, 2028.
7. All construction is to be completed on or before January 5, 2031.
8. Water is to be put to beneficial use on or before January 5, 2035.
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 wells approved under this Permit are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit must control 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 Permit holder must report to the Chief Engineer annually the amount of water withdrawn from the Middle James: Columbia Aquifer.
3. This Permit, Water Right No. 4908-3, and Permit Nos. 6371-3 and 8533-3, all combined, authorize a total appropriation of up to 3,924 acre-feet annually.

WATER MANAGEMENT BOARD

By: Adam Mathiowetz
Adam Mathiowetz, PE
Acting Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

07/13/2026



FORM 2: Application for uses other than irrigation
(type or print)

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8988-3</u> Hydrologic Unit <u>1016 0003</u>
	Basin <u>James</u>
	Newspaper <u>Britton Journal / Sisseton Courier</u>
	<u>American News / Webster Reporter & Farmer</u> (office use only)

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Application for Permit to Appropriate Water in South Dakota

Check use(s) of water:

☐ Municipal	☐ Water Distribution System	☐ Recreational	☐ Institutional
☒ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal
☐ Domestic (over 18 gpm)	☐ Industrial	☐ Other _____	

Type of Application:
(check one)

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

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

1. Name to Appear on Water Permit B.D.M. Rural Water System, Inc.

Mailing Address P.O. Box 49 Britton SD 57430
(Address) (City) (State) (Zip Code)

Phone 605-448-5417 Mobile _____ Email RodneyK@BDMRuralWater.Com

2. Amount of water claimed 3.47 *CFS or _____ **GPM and 1300 ***AF or _____ Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use)

3. Source of water supply Middle James: Columbia Aquifer

4. Location of point of diversion 5 Wells in E1/2, NE1/4, NE1/4 Section 9-T127N-57W County Marshall

(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☐ No

If "Yes," where will water be used? _____

(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Brown, Day, Marshall and Roberts

6. Annual period during which water is to be used January 1 through December 31st

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

See Attached

Wells 2 & 6 - observation wells

I, Rodney Kappes General Manager, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

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Form 2A
(Complete applicable portions only)

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable)

☐ Drilling new well(s) ☒ Using existing well(s)

a) If new wells, how many _____ Have test holes been drilled? ☐ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many 5 Provide copy of log(s), if available. Drilled by Steffl Drilling, Their Well

For either existing or proposed wells:

c) Well Depth (required) ~300F Depth to Top of Water Bearing Material ~258 Depth to Water from Surface ~167

d) Distance to nearest domestic well on applicant's property N/A Property owned by others ~.6 Miles

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 (e.g. 3 to 1 is a typical slope)

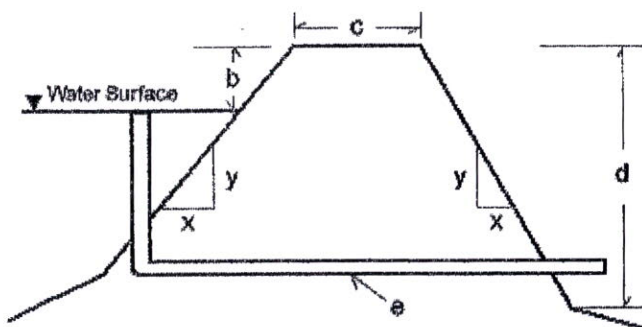
Upstream _____

Downstream _____

h) Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



BDM New WTP E1/2NE1/4NE1/4 9-127-57

127-57-03

2025 - Hagen, Jim & Kathy

WTP

Pleasant Hill

428th Ave

Aldentaler, Glen

#9 Well

107th St

#12 Well

#10 Well

#13 Well

#11 Well

107th St

428th Ave

Google Earth

Image © 2024 Airbus

2000 ft



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BDM New WTP E1/2NE1/4NE1/4E9-127-57

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Well No. 9 - BDM

2134 - Aldentaler, Glen

107th St

Well No. 12 - BDM

Well No. 10 - BDM

Well No. 13 - BDM

Well No. 11 - BDM

Google Earth

Image © 2024 Airbus

428th Ave

N

800 ft

Rod Kappes

From:
Sent:
To:
Cc:
Subject:

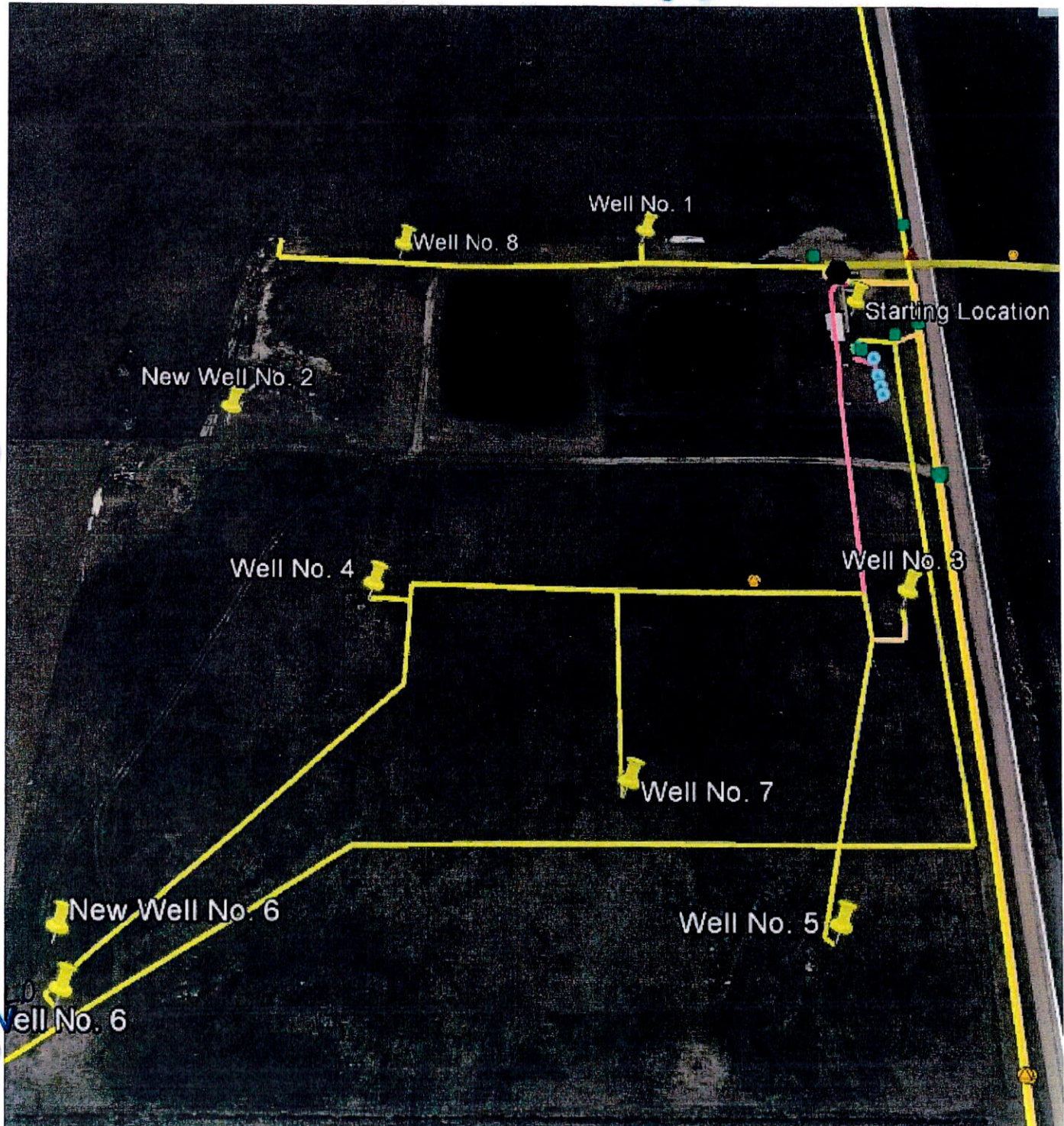
Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Friday, April 24, 2020 9:58 AM
Rod Kappes; Darin Roehr
Gregory Hansen
BDM Wells

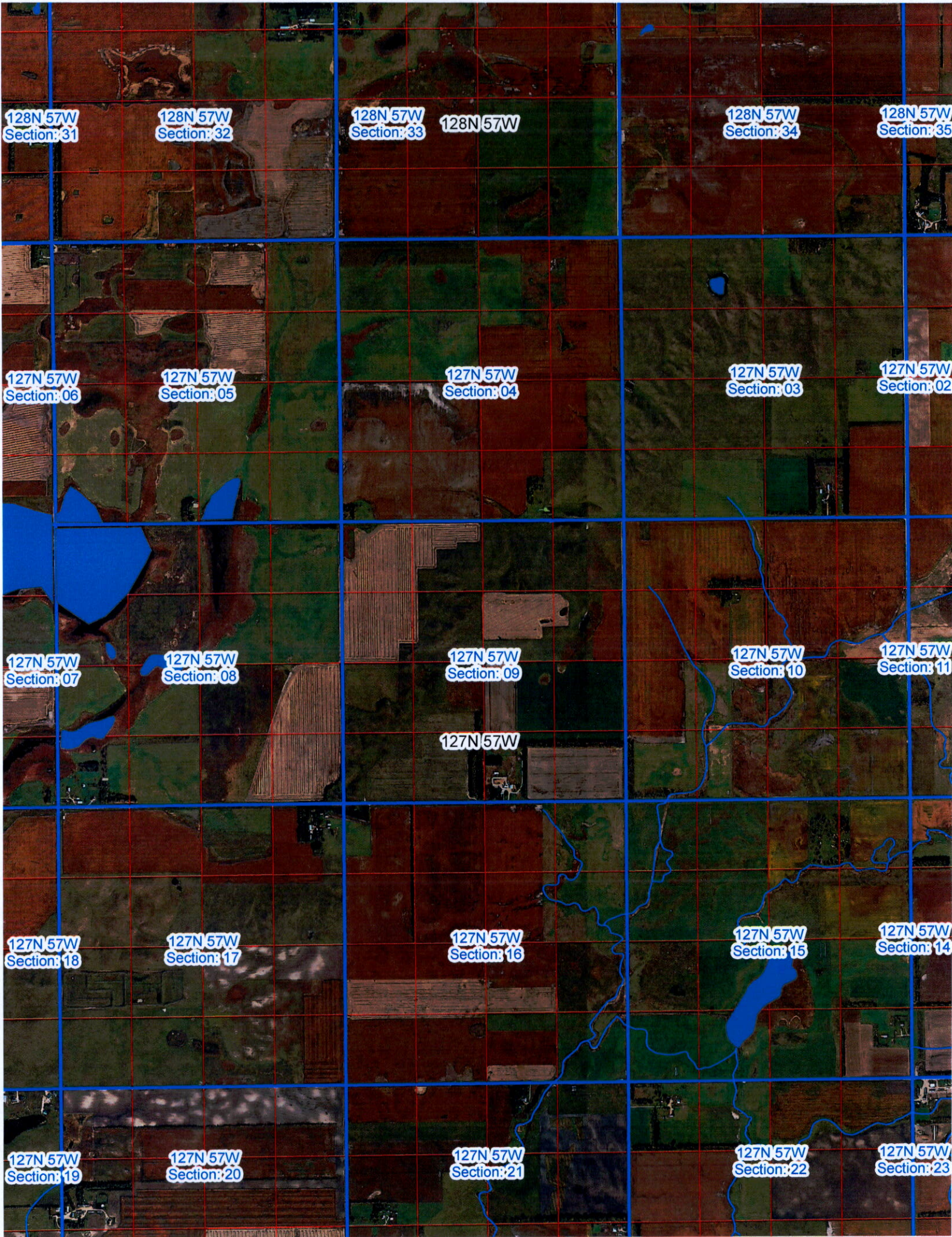
RECEIVED

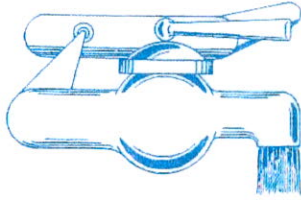
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OLD WTP Existing 8 Wells







**BROWN
DAY
MARSHALL**

Rural Water System, Inc.

P.O. Box 49
705 7th Street
Britton, South Dakota 57430
Phone 605-448-5417

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**Supplemental Statement in Support of Water Permit Application
Submitted by B.D.M. Rural Water System, Inc.**

B.D.M. Rural Water System, Inc. (BDM) is in the process of building a new water treatment plant due to having no redundancy and water demand at times of the year that exceed the current design capacity of the existing water treatment plant. To allow both plants to run at maximum capacity during high demand periods and to provide continued service to our communities, farmers, ranchers, and agribusinesses, BDM is making a request to increase our permitted capacity from 5.00 cubic feet per second (cfs) to 8.47 cfs, an increase of 3.47 cfs, and to increase our total acre-feet allocation from 2,624 acre-feet to 3,924 acre-feet, an increase of 1,300 acre-feet.

Five new wells were drilled for the new treatment plant. The well analysis is provided with this permit application. As discussed at our preliminary meeting with your staff, BDM intends to operate these wells on average at a capacity of 375 gallons per minute (gpm) per well (4 wells will be operating at full treatment plant capacity). In the initial test analysis, the wells were pumped at much higher rates (450 to over 800 gpm). The analysis shows fairly quick static level recovery within the wells. Approval of this permit is vital to meeting long-term demand and supporting the future of northern South Dakota.

In the past, BDM had to turn down service requests due to limited treatment capacity, permitting constraints, and lack of redundancy. Being able to provide water to users that consume the same amount of water during the winter months will provide significant financial stability to BDM.

BDM has completed a 40-year analysis of future demand, which highlights the importance of securing a supply that can meet at least the next 20 years of projected growth, and likely even further into the future. Agribusinesses will be especially critical to the region's economy over the coming decades, making a reliable water supply essential for BDM's continued sustainability. This effort also aligns with the Water Investment in Northern South Dakota (WINS) project, which will provide BDM with an additional source of water from the Missouri River once completed.

9/17/2025						
		1 cfs = 448.8 gpm		1 Ac Ft = 325851.4512 gal		
		448.8		325,851.5		
PERMIT #	CFS	GPM	ACRE-FT	GALLONS		
4908-3	1.00	448.8	724	235,916,451		
6371-3	2.89	1,297.0	1,300	423,606,887		
SUB TOTALS		1,745.8		659,523,337		
8533-3	1.11	498.2	600	195,510,871		
NEW TOTALS	5.00	2,244	2,624	855,034,208		
		For 2021 Pumped & Sold		524,013,313		
		Backwash		6,580,913		
		Total Reported for 2021		530,594,226		
		Reported less permitted		324,439,982		
		(Available)	(Only 37% Left)			
Old WTP 4 wells at 475 GPM Avg	4.68	2100 GPM	44%	480,359,437		
New WTP	3.79	1700 GPM	42%	374,674,771		
				855,034,208	2,342,559	GPD W/O Backwash
Needed	8.47					
Current Permits	5.00					
Requested CFS & Ac Ft	3.47	@ 51%	423,606,887	1300 Ac Ft	1,160,567	GPD W/O Backwash
					3,503,126	GPD W/O Backwash
Current Average Demand (Peak is 2,100,000 GPD)				1,500,000 GPD		
40 Yr Projected additional demand				4,100,000 GPD		
Total Need projected in 40 Years				5,600,000 GPD		
Difference to be provided by WINS plus additional growth						

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Rodriguez, Rachel

From: Dewell, Amanda
Sent: Thursday, October 2, 2025 1:06 PM
To: Rodriguez, Rachel
Subject: FW: [EXT] Water Permit Application
Attachments: Well No. 13 Data for Water Permit - BDM; Well No. 12 Data - Water Permit - BDM; Well No. 11 Data for Water Permit; FW: Well No. 10 Data for Water Permit; Well No. 9 Information for Well Permit; bdmruralwater_20251002_100428.pdf; bdmruralwater_20251002_100734.pdf

Lots and Lots of supplemental info w/ this application. I also just included you on my email back regarding fees.
Thanks!

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Thursday, October 2, 2025 10:20 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Cc: Brian Bergantine <Brian.Bergantine@AE2S.com>
Subject: Re: [EXT] Water Permit Application

Good Morning Amanda,

I attached the application with narrative, location of the wells and the new well data. If you need additional information, please let us know. I calculated the fee to be \$2,850.00, is that correct?

Thank You

Rodney Kappes

General Manager
B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



From: Dewell, Amanda <Amanda.Dewell@state.sd.us>

Sent: Thursday, September 25, 2025 1:31 PM

To: Rod Kappes <rodneyk@bdmruralwater.com>

Subject: Water Permit Application

You don't often get email from amanda.dewell@state.sd.us. [Learn why this is important](#)

Rodney, great talking to you. As discussed, please find attached a blank application. Feel free to respond to this email with your application and supplemental information and I will confirm its receipt. Fees in the amount of \$1850 can be paid by mailing a check (payable to SD Water Rights) to: DANR-Water Rights, 523 E Capitol Ave, Pierre SD 57501, or by calling our Fiscal Office (605) 773-5559.

Thanks!

Amanda Dewell

DANR - Water Rights Program

Permitting Administrator

Main Phone: 605 773-3352

Website: danr.sd.gov



Rodriguez, Rachel

From: Dewell, Amanda
Sent: Thursday, October 2, 2025 1:05 PM
To: Rod Kappes
Cc: Brian Bergantine; Rodriguez, Rachel
Subject: RE: [EXT] Water Permit Application

Rod,

I've received your application and all supplemental attachments. I've sent them on to our Program Assistant, Rachel who will receipt them in and get the process started once fees are received. For 1300 ac-ft, I'm coming up with a total of \$1850.00 (see breakdown below). Payment may be made in the form of a check (payable to SD Water Rights), mailed to: DANR-Water Rights, 523, E Capitol Ave, Pierre SD 57501, or by calling our Fiscal Office and paying over the phone (605) 773-5559.

1 st 120 ac-ft:	\$500
2 nd 120	\$250
3 rd 120	\$100
4 th 120	\$100
5 th 120	\$100
6 th 120	\$100
7 th 120	\$100
8 th 120	\$100
9 th 120	\$100
10 th 120	\$100
Final 100	\$100
Lic/insp	\$200
TOTAL:	\$1850

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Thursday, October 2, 2025 10:20 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Cc: Brian Bergantine <Brian.Bergantine@AE2S.com>
Subject: Re: [EXT] Water Permit Application

Good Morning Amanda,

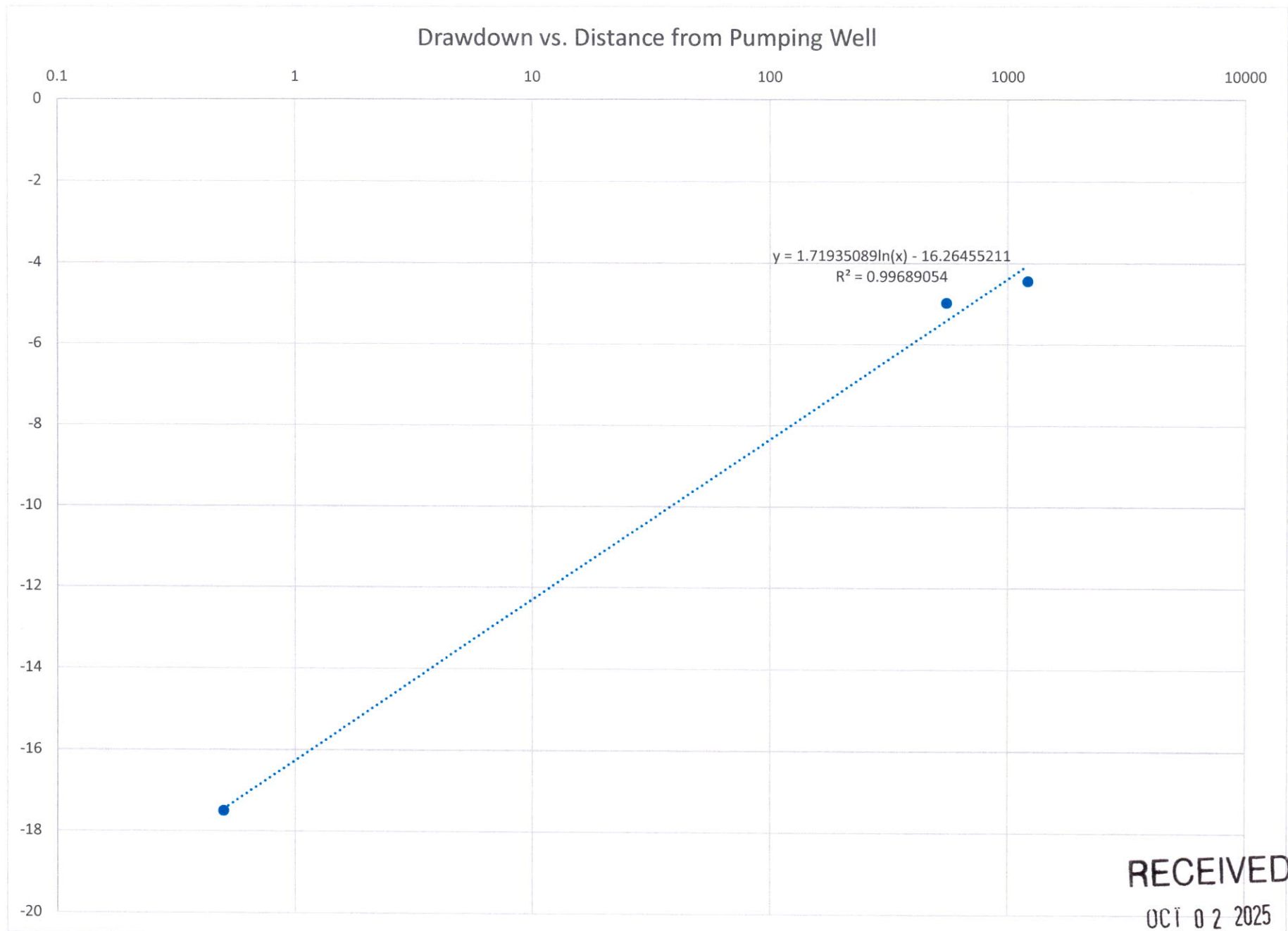
I attached the application with narrative, location of the wells and the new well data. If you need additional information, please let us know. I calculated the fee to be \$2,850.00, is that correct?

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<i>Formation</i>	<i>From</i>	<i>To</i>
Top soil	0	2
Clay brown	2	6
Gravel coarse	6	10
Clay brown	10	12
Gravel	12	17
Clay brown	17	19
Sand dirty	19	21
Clay brown silty	21	29
Sand	29	35
Clay brown	35	38
Sand med	38	71
Sand gray w/ coal	71	107
Clay gray soft	107	111
Clay blue w/ a few sand layers	111	119
Clay gray	119	120
Sand gray w/ a few clay layers and coal	120	137
Clay gray	137	157
Clay gray w/ gravel layers	157	165
Clay blue	165	177
Clay blue pebbly	177	191
Clay blue	191	198
Clay blue pebbly	198	208
Clay gray w/ thin gravel layers	208	256
Clay gray sandy w/ sand layers	256	267
Sand med	267	271
Gravel med and sand	271	295
Clay	295	



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Rodriguez, Rachel

From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 3:48 PM
To: Rod Kappes
Subject: Well No. 9 Information for Well Permit
Attachments: Water Quality Well No. 9.pdf; BDM Production Well Summary - Thein Well- Using Ground Elevation.pdf; BDM Well 9 Completion Report.pdf; BDM Production Well Summary - Thein Well- Using Ground Elevation.xlsx

Here is the data for Well No. 9. I will be sending each of the wells individually to you.

Bergie



Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT

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AE2S is an Equal Opportunity / Affirmative Action Employer

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Dewell, Amanda

From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Monday, October 20, 2025 11:59 AM
To: Dewell, Amanda
Subject: Re: [EXT] Well No. 9 Information for Well Permit

Good Morning Amanda,

Yes the 8.47 cfs covers both the existing plant and well field (wells 1-8) and the new water treatment plant and well field (wells 9-13). If you have any other questions, please let me know.

Thank You

Rodney Kappes

General Manager
B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



RURAL WATER SYSTEM
605.448.5417
www.bdmruralwater.com

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Monday, October 20, 2025 11:14 AM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Subject: RE: Well No. 9 Information for Well Permit

Rod,

is BDM still using Wells 1-8? It is my understanding that the increased diversion rates are only being developed from Wells 9-13 but I wasn't sure if Wells 1-8 were contributing to the total 8.47 cfs desired? We're putting together the draft public notice for your application, and I want to make sure it isn't a misrepresentation of the project.

Thanks!

Amanda Dewell

DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Wednesday, October 8, 2025 2:50 PM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Re: [EXT] Well No. 9 Information for Well Permit

Thanks Amanda

Rodney Kappes

General Manager
B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Wednesday, October 8, 2025 1:24 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>; Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: RE: Well No. 9 Information for Well Permit

Rod, Rachel is out of the office the remainder of the week for a family emergency. Unfortunately, she didn't make any notes on the file as to what her questions were so we will have to wait for her return to address them. We appreciate your patience, talk soon!

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Wednesday, October 8, 2025 12:48 PM
To: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Cc: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Re: [EXT] Well No. 9 Information for Well Permit

Good Afternoon Rachel,

I was wondering if you still had questions that I could answer. I will be in the office all afternoon today. My phone number is listed below.

Thank You

Rodney Kappes

General Manager
B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Friday, October 3, 2025 3:17 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Subject: RE: Well No. 9 Information for Well Permit

I called and my teams phone is still not working. There seems to be a Bluetooth issue. Since I am leaving the office at 3:30pm today, I will troubleshoot the issue and give you a call on Monday, the 6th. I apologize for the delay.

Thank you,

Rachel Rodriguez
DANR | Program Assistant

Rachel.Rodriguez@state.sd.us



From: Rodriguez, Rachel
Sent: Friday, October 3, 2025 1:48 PM
To: 'Rod Kappes' <rodneyk@bdmruralwater.com>
Subject: RE: [EXT] Well No. 9 Information for Well Permit

Hello Rod,

These darn teams phones are quirky, I just tried to call and got an error about a virtual receptionist. I'll charge my headphones and reboot my computer and hopefully that will restore it. I'll try to call you in about 1 hour.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Friday, October 3, 2025 1:20 PM
To: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: Re: [EXT] Well No. 9 Information for Well Permit

Hi Rachel,

I keep getting a message that says "we cannot connect your call"

Can you give me a call at 605-448-5417?

Thank You

Rodney Kappes
General Manager
B.D.M Rural Water System, Inc.

707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



RURAL WATER SYSTEM
605.448.5417
www.bdmruralwater.com

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Friday, October 3, 2025 12:09 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Subject: RE: Well No. 9 Information for Well Permit

Sure, it's 605-773-3352.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Friday, October 3, 2025 11:49 AM
To: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: Re: [EXT] Well No. 9 Information for Well Permit

Good Morning Rachel,

Do you have a phone number that I can call you to discuss your questions?

Thank You

Rodney Kappes
General Manager

B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



RURAL WATER SYSTEM
605.448.5417
www.bdmruralwater.com

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Friday, October 3, 2025 8:24 AM
To: Brian Bergantine <Brian.Bergantine@AE2S.com>; Rod Kappes <rodneyk@bdmruralwater.com>
Subject: RE: Well No. 9 Information for Well Permit

Good morning,

I'm looking over the BDM Production Well Summary and I see data for 12, 6, and 2 but not well 9. Also, page 15 is a graph of "New 12 Production Well". Please advise.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 3:48 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Subject: Well No. 9 Information for Well Permit

Here is the data for Well No. 9. I will be sending each of the wells individually to you.

Bergie



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Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT

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Well #9

Account #: 19705
Workorder: BDM New Well (28095)

Client: Thein Well Company

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Zack Thein
Thein Well Company
PO Box 778
Spicer, MN 56288-0778

Certificate of Analysis**Approval**

All data reported has been reviewed and approved by:

Stacy Zander, Bismarck Assistant Lab Manager Bismarck, ND

Dave Smahel, Inorganic Chemistry/Feed Lab Manager New Ulm, MN

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:

MN LAB # 027-015-125 ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:

MN LAB # 038-999-267 ND W/DW # ND-016 SD SDWA

Subcontracted Analyses

Analyzed By	Company	Address	Phone	Certification
SUBA	Eurofins Eaton Analytical	110 S. Hill St, South Bend. IN 46617	574-233-4777	

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Account #: 19705

Client: Thein Well Company

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Workorder Summary

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Analysis Results Comments

28095001 (BDM New Well)

Sample analyzed beyond holding time.(Dissolved Oxygen)

Sample analyzed beyond holding time.(pH)

28095001 (BDM New Well)

Iron in drinking water is a very common problem in many areas. High iron content is more common in deep wells than in shallow or sand point type wells. In the aquifer (water bearing layer of the earth), iron is usually present in the reduced form because of the absence of oxygen. When the iron is present in the reduced form, it is soluble in water and is not visible.

When this reduced iron comes in contact with oxygen (at the surfaces of a well, in a toilet bowl, as water drips from a leaky faucet, or because of the addition of chlorine bleach to the water which releases oxygen), it oxidizes to the visible reddish compound and settles out as rust-like material. This oxidized iron "rust" can discolor bathroom fixtures, laundry, etc. Many people find the metallic taste of high iron water to be objectionable. No clear evidence of harmful effects caused by high iron water is presently available.(Iron)

28095001 (BDM New Well)

Some individuals can taste unpleasant sulfate concentrations as low as 200 mg/L, although the threshold for most people is 300-400 mg/L. Concentrations of sulfate over 960 mg/L is believed to make water toxic to plants and therefore, unsuitable for irrigation. Sulfates are found in water supplies combined with calcium and magnesium in the form of salts. These salts, commonly called epsom salts, can cause diarrhea in humans and livestock (scours). This problem generally occurs with sulfate concentrations above 500 mg/L, although some reports indicate young pigs are susceptible to scouring when consuming water containing sulfates in the 250-500 mg/L range.

Other than diarrhea, no health problems have been associated with high sulfate concentrations. As humans and animals drink water containing high sulfate concentrations, they usually build a tolerance with resulting decrease in diarrhea or scouring. Certain areas of the country have groundwater which is naturally high in sulfate concentrations.(Sulfate)

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Page 2 of 20

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Account #: 19705**Client:** Their Well Company**Analytical Results**

Lab ID: 28095001
Sample ID: BDM New Well
Temp @ Receipt (C): 9.9

Date Collected: 09/12/2023 12:30
Date Received: 09/14/2023 09:03

Matrix: Potable Water
Collector: BL

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Parameter	Results	Units	MCL	SMCL	Prepared	Analyzed	By	Qual
Method: Calculated								
Langlier Index	0.43				10/04/2023 15:54	10/04/2023 15:54	CALC	
Method: SM2340B-2011								
Hardness - Total	138	mg/L as CaCO ₃			10/04/2023 15:54	10/04/2023 15:54	CALC	
Method: Contracted Result								
Radon	See Attached				10/04/2023 15:57	10/04/2023 15:57	SUBA	
Method: ASTM D516-16								
Sulfate	291	mg/L		250	09/21/2023 08:56	09/21/2023 08:56	LS	*
Method: EPA 200.7								
Barium	0.017	mg/L	2		09/27/2023 09:42	09/27/2023 11:46	RMV	
Calcium	32.1	mg/L			09/27/2023 09:42	09/27/2023 11:46	RMV	
Chromium	<0.01	mg/L	0.1		09/27/2023 09:42	09/27/2023 11:46	RMV	
Copper	<0.005	mg/L	1.3	1	09/27/2023 09:42	09/27/2023 11:46	RMV	
Iron	0.916	mg/L		0.3	09/27/2023 09:42	09/27/2023 11:46	RMV	*
Potassium	10.5	mg/L			09/27/2023 09:42	09/27/2023 11:46	RMV	
Magnesium	14.0	mg/L			09/27/2023 09:42	09/27/2023 11:46	RMV	
Manganese	0.075	mg/L		0.05	09/27/2023 09:42	09/27/2023 11:46	RMV	
Sodium	298	mg/L			09/27/2023 09:42	09/27/2023 11:46	RMV	
Nickel	<0.01	mg/L			09/27/2023 09:42	09/27/2023 11:46	RMV	

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**Account #:** 19705**Client:** Thein Well Company**Analytical Results**

Lab ID: 28095001
Sample ID: BDM New Well
Temp @ Receipt (C): 9.9

Date Collected: 09/12/2023 12:30
Date Received: 09/14/2023 09:03

Matrix: Potable Water
Collector: BL

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Parameter	Results	Units	MCL	SMCL	Prepared	Analyzed	By	Qual
Method: EPA 200.8								
Arsenic	1.35	ug/L	10		09/26/2023 16:15	09/26/2023 17:39	KAM	
Selenium	0.79	ug/L	50		09/26/2023 16:15	09/26/2023 17:39	KAM	
Cadmium	<0.1	ug/L	5		09/26/2023 16:15	09/26/2023 17:39	KAM	
Antimony	<0.5	ug/L	6		09/26/2023 16:15	09/26/2023 17:39	KAM	
Mercury	<0.1	ug/L	2		09/26/2023 16:15	09/26/2023 17:39	KAM	
Thallium	<0.1	ug/L	2		09/26/2023 16:15	09/26/2023 17:39	KAM	
Lead	<0.5	ug/L	15		09/26/2023 16:15	09/26/2023 17:39	KAM	
Beryllium	<0.05	ug/L	4		09/26/2023 16:15	09/26/2023 18:49	KAM	
Method: EPA 300.0								
Fluoride	0.312	mg/L	4	2	09/18/2023 19:01	09/18/2023 19:01	MDH	
Method: EPA 335.4								
Cyanide	<0.005	mg/L	0.2		09/18/2023 08:00	09/18/2023 12:23	KM	
Method: EPA 350.1								
Ammonia as N	2.95	mg/L			09/20/2023 10:26	09/20/2023 10:26	MRH	
Method: EPA 353.2								
Nitrate + Nitrite as N	<0.05	mg/L	10		09/15/2023 13:05	09/15/2023 13:05	KM	
Method: SM 5310C-2014								
Total Organic Carbon	2.7	mg/L			09/15/2023 12:54	09/15/2023 12:54	NS	

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Account #: 19705**Client:** Thein Well Company**Analytical Results**

Lab ID: 28095001
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Temp @ Receipt (C): 9.9

Date Collected: 09/12/2023 12:30
Date Received: 09/14/2023 09:03

Matrix: Potable Water
Collector: BL

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Parameter	Results	Units	MCL	SMCL	Prepared	Analyzed	By	Qual
Method: SM2320 B-2011								
Alkalinity, Total	419	mg/L as CaCO ₃			09/14/2023 19:42	09/14/2023 19:42	KM	
Bicarbonate	419	mg/L as CaCO ₃			09/14/2023 19:42	09/14/2023 19:42	KM	
Carbonate	<20	mg/L as CaCO ₃			09/14/2023 19:42	09/14/2023 19:42	KM	
Method: SM2510 B-2011 EC								
Specific Conductance	1434	umhos/cm			09/14/2023 19:42	09/14/2023 19:42	KM	
Method: SM2540C-2011								
Total Dissolved Solids	898.6	mg/L		500	09/19/2023 09:54	09/19/2023 09:54	CCC	
Method: SM4500 H+ B-2011								
pH	7.80	units	6.5-8.5 units		09/14/2023 11:59	09/14/2023 12:35	HMO	*
Method: SM4500 O G-2001								
Dissolved Oxygen	6.26	mg/L			09/14/2023 11:59	09/14/2023 12:18	HMO	*
Method: SM4500-Cl-E 2011								
Chloride	23.1	mg/L			09/19/2023 12:39	09/19/2023 12:39	KM	
Method: SM4500S2 F-2011								
Hydrogen Sulfide	<1.00	mg/L			09/15/2023 08:55	09/15/2023 08:55	RMB	

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Page 5 of 20



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BDM 2022 New WTP
Improvements

33 21 13
8

Public Water Supply Wells

3.05 WATER QUALITY DATA

- A. Collect and test samples of the water from each production well (one (1) total).
Test for the parameters indicated below:

1. GENERAL CHEMISTRY
2. pH ✓
3. Conductivity ✓
4. Total Dissolved Solids ✓
5. Iron (Separate Sample - Acidized for Preservation) ✓
6. Manganese (Separate Sample - Acidized for Preservation) ✓
7. Calcium ✓
8. Magnesium ✓
9. Total Hardness ✓
10. Potassium ✓
11. Sodium ✓
12. Chloride ✓
13. Sulfate ✓
14. Total Alkalinity ✓
15. Bicarbonate ✓
16. Carbonate ✓
17. Fluoride ✓
18. Percent Sodium ✓
19. Nitrate Nitrogen as (N) ✓
20. Arsenic ✓
21. Ammonia ✓
22. Total Organic Carbon (TOC) ✓
23. Antimony ✓
24. Barium ✓
25. Beryllium ✓
26. Cadmium ✓
27. Chromium (Total) ✓
28. Copper ✓
29. Cyanide ✓
30. Lead ✓
31. Mercury ✓
32. Nickel ✓
33. Selenium ✓
34. Thallium ✓
35. Dissolved Gases
36. Carbon Dioxide ✓
37. Hydrogen Sulfide ✓
38. Dissolved Oxygen ✓
39. Radon ✓

- B. Contractor shall coordinate water sampling with test pumping and Engineer.

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Page 7 of 20

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Sample Condition Checklist

Date: 14 Sept 23 Time: 0903 ☒ AM ☐ PM By: CM
Account Name: Their Well Account #: 019705
Bill of Lading #: 23-23879 Cooler #: 23-23879
Temp: 9.9 °C ROI ☐ Ambient ☐ Tracking #: R2304Y122295-05
TM#: 938 Ice Crystals Present In Sample ☐ Other: Ice Melted
MVTL Courier: _____
MVTL Route: _____ Walk-In ☐ UPS Air ☐ FedEx Air ☐ Speedee ☐
UPS Ground ☐ FedEx Ground ☐
Containers Supplied by MVTL: Yes ☒ No ☐ Designate customer supplied containers as "Other" in container size column

Containers Supplied by MVTL:																		
Comments:																		
Containers Size (mL)																		
Container Type																		
Preservation																		
pH																		
Number																		
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
	(100) (120) (125) (250) (290) (500) (1000) Other	(G)	(P)	(AG)	(AP)	NaHSO ₄	Na ₂ O ₃ S ₂	NONE	HNO ₃	H ₂ SO ₄	NaOH	HCl	SUB*	<2	>9	>12	N/A	Add
DO NOT OPEN THE PLASTIC BAGS HOLDING THE SAMPLE BOTTLES!!																		
Low Level Mercury Kit																		
4 oz Jar																		
2 oz Jar																		
Vials Individual Set of 2 Set of 3																		
Vials Individual Set of 2 Set of 3																		
Trip Blank Individual Set of 2 Set of 3																		
Moisture Vial																		
Manure Bottle																		

*ANY CONTAINER SENT TO A SUBCONTRACT LABORATORY WILL NOT BE CHECKED FOR PRESERVATION!

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Page 8 of 20



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Account #: 19705

Client: Thein Well Company



Environment Testing

1
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ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Rieger
Minnesota Valley Testing Laboratories
1126 North Front Street
New Ulm, Minnesota 56073

Generated 9/22/2023 9:18:28 AM

JOB DESCRIPTION

WO#28095

JOB NUMBER

810-77822-1

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

Page 1 of 12



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Account #: 19705

Client: Their Well Company

Eurofins Eaton Analytical South Bend

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization

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9/22/2023 9:18:28 AM

Authorized for release by
Traci Chlebowski, Project Manager
Traci.Chlebowski@et.eurofinsus.com
(574)233-4777

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9/22/2023

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Page 10 of 20



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Account #: 19705

Client: Thein Well Company

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Laboratory Job ID: 810-77822-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Lab Chronicle	7
Certification Summary	8
Method Summary	9
Sample Summary	10
Chain of Custody	11
Receipt Checklists	12



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Account #: 19705

Client: Their Well Company

Definitions/Glossary

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Page 4 of 12

9/22/2023

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Report Date: Wednesday, October 4, 2023 4:29:57 PM

Page 12 of 20



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Member
ACIL

Account #: 19705

Client: Their Well Company

Case Narrative

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Job ID: 810-77822-1

Laboratory: Eurofins Eaton Analytical South Bend

Narrative

Job Narrative 810-77822-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/15/2023 10:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Account #: 19705

Client: Thein Well Company

Client Sample Results

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Client Sample ID: 28095001 - BDM Well

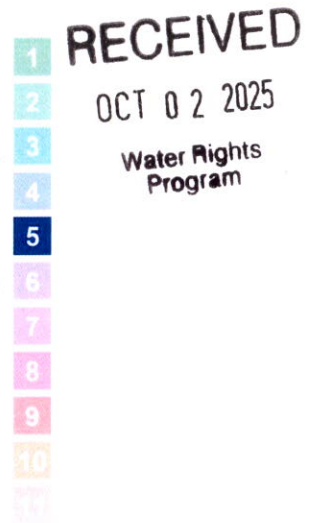
Lab Sample ID: 810-77822-1

Date Collected: 09/12/23 12:30

Matrix: Drinking Water

Date Received: 09/15/23 10:15

Method: SM7500_Rn_B - Radon									
Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radon 222	157		17.1		11.7	pCi/L	09/15/23 14:30	09/15/23 21:57	1



Eurofins Eaton Analytical South Bend

Page 6 of 12

9/22/2023

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Page 14 of 20



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Account #: 19705

Client: Thein Well Company

Lab Chronicle

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Client Sample ID: 28095001 - BDM Well

Lab Sample ID: 810-77822-1

Date Collected: 09/12/23 12:30

Matrix: Drinking Water

Date Received: 09/15/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RAD Prep			74039	SM	EA SB	09/15/23 14:30
Total/NA	Analysis	SM7500_Rn_B		1	74310	SM	EA SB	09/15/23 21:57 - 09/15/23 21:57

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Page 7 of 12

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Page 15 of 20



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Account #: 19705

Client: Thein Well Company

Accreditation/Certification Summary

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	1989807	12-31-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
SM7500_Rn_B	RAD Prep	Drinking Water	Radon 222



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Page 8 of 12

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Page 16 of 20



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Account #: 19705

Client: Thein Well Company

Method Summary

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Method	Method Description	Protocol	Laboratory
SM7500_Rn_B	Radon	SM	EA SB
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Page 9 of 12

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Page 17 of 20



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Account #: 19705

Client: Thein Well Company

Sample Summary

Client: Minnesota Valley Testing Laboratories
Project/Site: WO#28095

Job ID: 810-77822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-77822-1	28095001 - BDM Well	Drinking Water	09/12/23 12:30	09/15/23 10:15



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Page 19 of 20



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Account #: 19705

Client: Thein Well Company

Login Sample Receipt Checklist

Client: Minnesota Valley Testing Laboratories

Job Number: 810-77822-1

SDG Number:

Login Number: 77822

List Number: 1

Creator: Spurgeon, Sheri

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers



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BDM Production
Well Summary

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Data file for DataLogger.

COMPANY : Thein Well Co.

COMP.STATUS: Do

DATE : 9/6/23

TIME : 10:45

FILENAME : BDM New 12" Production Well

CREATED BY : ZT

BEGINNING OF DATA

Date/time	Pressure[ftH2O]	Temperatu	GPM	Water Lev	Notes
9/6/2023 10:45	119.8357	52.544	0	1241.336	Installed Logger
9/7/2023 6:30	119.7534	50.132	0	1241.253	
9/7/2023 6:45	119.8004	50.108	0	1241.3	
9/7/2023 6:46	119.8357	50.108	0	1241.336	
9/7/2023 6:47	119.8357	50.108	0	1241.336	
9/7/2023 6:48	119.8827	50.12	0	1241.383	
9/7/2023 6:49	119.8592	50.12	0	1241.359	
9/7/2023 6:50	119.8592	50.12	0	1241.359	
9/7/2023 6:51	119.8592	50.12	0	1241.359	
9/7/2023 6:52	119.8827	50.12	0	1241.383	
9/7/2023 6:53	119.8592	50.132	0	1241.359	
9/7/2023 6:54	119.8592	50.132	0	1241.359	
9/7/2023 6:55	119.8827	50.132	0	1241.383	
9/7/2023 6:56	119.8827	50.132	0	1241.383	
9/7/2023 6:57	119.8827	50.132	0	1241.383	
9/7/2023 6:58	119.8827	50.132	0	1241.383	
9/7/2023 6:59	119.8827	50.12	0	1241.383	
9/7/2023 7:00	112.0412	50.12	450	1233.541	Start of Test
9/7/2023 7:01	109.2432	50.18	450	1230.743	
9/7/2023 7:02	108.9493	50.156	450	1230.449	
9/7/2023 7:03	108.4438	50.108	450	1229.944	
9/7/2023 7:04	108.5731	50.072	450	1230.073	
9/7/2023 7:05	108.3733	50.036	450	1229.873	
9/7/2023 7:06	107.8795	50	450	1229.38	
9/7/2023 7:07	107.6796	49.958	450	1229.18	
9/7/2023 7:08	107.9383	49.922	450	1229.438	
9/7/2023 7:09	107.6208	49.88	450	1229.121	
9/7/2023 7:10	107.6796	49.856	450	1229.18	
9/7/2023 7:11	107.6091	49.82	450	1229.109	
9/7/2023 7:12	107.2094	49.796	450	1228.709	
9/7/2023 7:13	107.5621	49.766	450	1229.062	
9/7/2023 7:14	107.421	49.742	450	1228.921	
9/7/2023 7:15	107.1741	49.718	450	1228.674	
9/7/2023 7:16	107.3504	49.694	450	1228.85	
9/7/2023 7:17	107.2682	49.682	450	1228.768	
9/7/2023 7:18	107.1153	49.652	450	1228.615	
9/7/2023 7:19	106.986	49.64	450	1228.486	
9/7/2023 7:20	107.2446	49.628	450	1228.745	
9/7/2023 7:21	107.1976	49.616	450	1228.698	
9/7/2023 7:22	107.2564	49.604	450	1228.756	
9/7/2023 7:23	106.8332	49.58	450	1228.333	
9/7/2023 7:24	106.892	49.568	450	1228.392	
9/7/2023 7:25	106.939	49.55	450	1228.439	
9/7/2023 7:26	106.9037	49.55	450	1228.404	
9/7/2023 7:27	106.9272	49.538	450	1228.427	

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9/7/2023 7:28	106.7861	49.526	450	1228.286	-13.0496
9/7/2023 7:29	107.033	49.514	450	1228.533	-12.8027
9/7/2023 7:30	106.939	49.514	450	1228.439	-12.8967
9/7/2023 7:31	106.7861	49.502	450	1228.286	-13.0496
9/7/2023 7:32	107.0448	49.49	450	1228.545	-12.7909
9/7/2023 7:33	107.0683	49.478	450	1228.568	-12.7674
9/7/2023 7:34	107.1741	49.466	450	1228.674	-12.6616
9/7/2023 7:35	107.0801	49.466	450	1228.58	-12.7556
9/7/2023 7:36	107.1153	49.466	450	1228.615	-12.7204
9/7/2023 7:37	107.1271	49.454	450	1228.627	-12.7086
9/7/2023 7:38	107.1859	49.454	450	1228.686	-12.6498
9/7/2023 7:39	107.0213	49.454	450	1228.521	-12.8144
9/7/2023 7:40	107.0213	49.436	450	1228.521	-12.8144
9/7/2023 7:41	106.9625	49.436	450	1228.463	-12.8732
9/7/2023 7:42	107.0565	49.436	450	1228.557	-12.7792
9/7/2023 7:43	106.9507	49.424	450	1228.451	-12.885
9/7/2023 7:44	107.2094	49.424	440	1228.709 Adjust Valve	-12.6263
9/7/2023 7:45	106.9742	49.412	460	1228.474	-12.8615
9/7/2023 7:46	106.9037	49.412	460	1228.404	-12.932
9/7/2023 7:47	107.0095	49.4	460	1228.51	-12.8262
9/7/2023 7:48	106.8449	49.4	460	1228.345	-12.9908
9/7/2023 7:49	106.7861	49.388	460	1228.286	-13.0496
9/7/2023 7:50	106.8802	49.388	460	1228.38	-12.9555
9/7/2023 7:51	106.9742	49.388	460	1228.474	-12.8615
9/7/2023 7:52	106.8802	49.388	460	1228.38	-12.9555
9/7/2023 7:53	106.8802	49.388	460	1228.38	-12.9555
9/7/2023 7:54	106.939	49.376	460	1228.439	-12.8967
9/7/2023 7:55	106.7979	49.376	460	1228.298	-13.0378
9/7/2023 7:56	106.8332	49.376	460	1228.333	-13.0025
9/7/2023 7:57	106.939	49.376	460	1228.439	-12.8967
9/7/2023 7:58	106.6803	49.364	460	1228.18	-13.1554
9/7/2023 7:59	106.9037	49.376	460	1228.404	-12.932
9/7/2023 8:00	106.2454	49.364	460	1227.745	-13.5903
9/7/2023 8:30	105.6458	49.334	460	1227.146	-14.1899
9/7/2023 9:00	105.587	49.31	460	1227.087	-14.2487
9/7/2023 9:30	105.5165	49.286	460	1227.017	-14.3192
9/7/2023 10:00	105.1873	49.286	460	1226.687	-14.6484
9/7/2023 10:30	105.3636	49.274	460	1226.864	-14.4721
9/7/2023 11:00	105.3284	49.274	460	1226.828	-14.5073
9/7/2023 11:30	104.9286	49.274	460	1226.429	-14.9071
9/7/2023 12:00	104.5642	49.274	460	1226.064	-15.2715
9/7/2023 13:00	104.1645	49.274	460	1225.665	-15.6712
9/7/2023 14:00	104.2115	49.25	460	1225.712	-15.6242
9/7/2023 15:00	103.5296	49.238	460	1225.03	-16.3061
9/7/2023 16:00	103.6119	49.25	460	1225.112	-16.2238
9/7/2023 17:00	103.1887	49.238	460	1224.689	-16.647
9/7/2023 18:00	103.1534	49.238	460	1224.653	-16.6823
9/7/2023 19:00	102.7655	49.238	460	1224.266	-17.0702
9/7/2023 20:00	102.8595	49.238	460	1224.36	-16.9762
9/7/2023 21:00	102.789	49.238	460	1224.289	-17.0467
9/7/2023 22:00	102.5891	49.22	460	1224.089	-17.2466
9/7/2023 23:00	102.5303	49.22	460	1224.03	-17.3054
9/8/2023 0:00	102.5656	49.208	460	1224.066	-17.2701
9/8/2023 1:00	102.2952	49.208	460	1223.795	-17.5405
9/8/2023 2:00	102.3893	49.208	460	1223.889	-17.4464
9/8/2023 3:00	102.3305	49.196	460	1223.831	-17.5052

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9/8/2023 4:00	102.5656	49.196	460	1224.066	Water Rights Program	-17.2701
9/8/2023 5:00	102.4245	49.196	460	1223.925		-17.4112
9/8/2023 6:00	102.6126	49.184	460	1224.113		-17.2231
9/8/2023 7:00	102.6126	49.184	460	1224.113		-17.2231
9/8/2023 8:00	102.5186	49.184	460	1224.019		-17.3171
9/8/2023 8:01	117.2258	49.148	0	1238.726 Pump OFF		-2.6099
9/8/2023 8:02	114.0398	49.136	0	1235.54 Recovery		-5.7959
9/8/2023 8:03	114.2749	49.148	0	1235.775 Recovery		-5.5608
9/8/2023 8:04	114.4043	49.172	0	1235.904 Recovery		-5.4314
9/8/2023 8:05	114.5688	49.25	0	1236.069 Recovery		-5.2669
9/8/2023 8:06	114.7922	49.322	0	1236.292 Recovery		-5.0435
9/8/2023 8:07	114.8863	49.466	0	1236.386 Recovery		-4.9494
9/8/2023 8:08	114.9686	49.514	0	1236.469 Recovery		-4.8671
9/8/2023 8:09	115.0391	49.538	0	1236.539 Recovery		-4.7966
9/8/2023 8:10	115.1331	49.58	0	1236.633 Recovery		-4.7026
9/8/2023 8:11	115.2037	49.616	0	1236.704 Recovery		-4.632
9/8/2023 8:12	115.2742	49.664	0	1236.774 Recovery		-4.5615
9/8/2023 8:13	115.333	49.742	0	1236.833 Recovery		-4.5027
9/8/2023 8:14	115.4153	49.82	0	1236.915 Recovery		-4.4204
9/8/2023 8:15	115.4506	49.91	0	1236.951 Recovery		-4.3851
9/8/2023 8:16	115.4858	50.024	0	1236.986 Recovery		-4.3499
9/8/2023 8:17	115.5329	50.12	0	1237.033 Recovery		-4.3028
9/8/2023 8:18	115.5681	50.192	0	1237.068 Recovery		-4.2676
9/8/2023 8:19	115.6034	50.216	0	1237.103 Recovery		-4.2323
9/8/2023 8:20	115.6387	50.216	0	1237.139 Recovery		-4.197
9/8/2023 8:21	115.6622	50.24	0	1237.162 Recovery		-4.1735
9/8/2023 8:22	115.6975	50.252	0	1237.198 Recovery		-4.1382
9/8/2023 8:23	115.7327	50.24	0	1237.233 Recovery		-4.103
9/8/2023 8:24	115.8033	50.252	0	1237.303 Recovery		-4.0324
9/8/2023 8:25	115.8385	50.276	0	1237.339 Recovery		-3.9972
9/8/2023 8:26	115.8385	50.3	0	1237.339 Recovery		-3.9972
9/8/2023 8:27	115.862	50.324	0	1237.362 Recovery		-3.9737
9/8/2023 8:28	115.8973	50.36	0	1237.397 Recovery		-3.9384
9/8/2023 8:29	115.9326	50.42	0	1237.433 Recovery		-3.9031
9/8/2023 8:30	115.9326	50.42	0	1237.433 Recovery		-3.9031
9/8/2023 8:31	115.9796	50.408	0	1237.48 Recovery		-3.8561
9/8/2023 8:32	115.9796	50.408	0	1237.48 Recovery		-3.8561
9/8/2023 8:33	116.0501	50.396	0	1237.55 Recovery		-3.7856
9/8/2023 8:34	116.0149	50.372	0	1237.515 Recovery		-3.8208
9/8/2023 8:35	116.0501	50.372	0	1237.55 Recovery		-3.7856
9/8/2023 8:36	116.0854	50.372	0	1237.585 Recovery		-3.7503
9/8/2023 8:37	116.0972	50.36	0	1237.597 Recovery		-3.7385
9/8/2023 8:38	116.1324	50.336	0	1237.632 Recovery		-3.7033
9/8/2023 8:39	116.1677	50.36	0	1237.668 Recovery		-3.668
9/8/2023 8:40	116.1559	50.384	0	1237.656 Recovery		-3.6798
9/8/2023 8:41	116.2147	50.384	0	1237.715 Recovery		-3.621
9/8/2023 8:42	116.25	50.396	0	1237.75 Recovery		-3.5857
9/8/2023 8:43	116.203	50.42	0	1237.703 Recovery		-3.6327
9/8/2023 8:44	116.25	50.432	0	1237.75 Recovery		-3.5857
9/8/2023 8:45	116.25	50.432	0	1237.75 Recovery		-3.5857
9/8/2023 8:46	116.2618	50.444	0	1237.762 Recovery		-3.5739
9/8/2023 8:47	116.2853	50.456	0	1237.785 Recovery		-3.5504
9/8/2023 8:48	116.2853	50.456	0	1237.785 Recovery		-3.5504
9/8/2023 8:49	116.3441	50.468	0	1237.844 Recovery		-3.4916
9/8/2023 8:50	116.3793	50.468	0	1237.879 Recovery		-3.4564
9/8/2023 8:51	116.3441	50.492	0	1237.844 Recovery		-3.4916

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Program

9/8/2023 8:52	116.3793	50.504	0	1237.879 Recovery	-3.4564
9/8/2023 8:53	116.3793	50.504	0	1237.879 Recovery	-3.4564
9/8/2023 8:54	116.4146	50.516	0	1237.915 Recovery	-3.4211
9/8/2023 8:55	116.4146	50.504	0	1237.915 Recovery	-3.4211
9/8/2023 8:56	116.4499	50.48	0	1237.95 Recovery	-3.3858
9/8/2023 8:57	116.4499	50.468	0	1237.95 Recovery	-3.3858
9/8/2023 8:58	116.4146	50.456	0	1237.915 Recovery	-3.4211
9/8/2023 8:59	116.4499	50.456	0	1237.95 Recovery	-3.3858
9/8/2023 9:00	116.4969	50.444	0	1237.997 Recovery	-3.3388
9/8/2023 9:30	116.8025	50.252	0	1238.303 Recovery	-3.0332
9/8/2023 10:00	117.0494	50.204	0	1238.549 Recovery	-2.7863
9/8/2023 10:30	117.3316	50.156	0	1238.832 Recovery	-2.5041
9/8/2023 11:00	117.4962	50.12	0	1238.996 Recovery	-2.3395
9/8/2023 11:30	117.6137	50.108	0	1239.114 Recovery	-2.222
9/8/2023 12:00	117.6843	50.072	0	1239.184 Recovery	-2.1514
9/8/2023 13:00	117.8136	50.036	0	1239.314 Recovery	-2.0221
9/8/2023 14:00	117.9429	50	0	1239.443 Recovery	-1.8928
9/8/2023 15:00	118.0487	49.946	0	1239.549 Recovery	-1.787
9/8/2023 16:00	118.0252	49.88	0	1239.525 Recovery	-1.8105
9/8/2023 17:00	118.178	49.856	0	1239.678 Recovery	-1.6577
9/8/2023 18:00	118.3544	49.832	0	1239.854 Recovery	-1.4813
9/8/2023 19:00	118.4484	49.784	0	1239.948 Recovery	-1.3873
9/8/2023 20:00	118.3779	49.82	0	1239.878 Recovery	-1.4578
9/8/2023 21:00	118.4602	49.766	0	1239.96 Recovery	-1.3755
9/8/2023 22:00	118.5542	49.742	0	1240.054 Recovery	-1.2815
9/8/2023 23:00	118.5072	49.73	0	1240.007 Recovery	-1.3285
9/9/2023 0:00	118.5425	49.73	0	1240.043 Recovery	-1.2932
9/9/2023 1:00	118.7306	49.682	0	1240.231 Recovery	-1.1051
9/9/2023 2:00	118.8717	49.652	0	1240.372 Recovery	-0.964
9/9/2023 3:00	119.0363	49.652	0	1240.536 Recovery	-0.7994
9/9/2023 4:00	119.1891	49.64	0	1240.689 Recovery	-0.6466
9/9/2023 5:00	119.3889	49.616	0	1240.889 Recovery	-0.4468
9/9/2023 6:00	119.4948	49.616	0	1240.995 Recovery	-0.3409
9/9/2023 7:00	119.5888	49.604	0	1241.089 Recovery	-0.2469
9/9/2023 8:00	119.577	49.592	0	1241.077 Recovery	-0.2587
9/9/2023 9:00	119.6946	49.568	0	1241.195 Recovery	-0.1411
9/9/2023 10:00	119.8239	49.568	0	1241.324 Recovery	-0.0118
9/9/2023 11:00	119.7887	49.568	0	1241.289 Recovery	-0.047
9/9/2023 12:00	119.7887	49.58	0	1241.289 Recovery	-0.047
9/9/2023 13:00	119.8004	49.592	0	1241.3 Recovery	-0.0353
9/9/2023 14:00	119.8592	49.568	0	1241.359 Recovery	0.0235
9/9/2023 15:00	119.7887	49.55	0	1241.289 Recovery	-0.047
9/9/2023 16:00	119.7534	49.55	0	1241.253 Recovery	-0.0823
9/9/2023 17:00	119.6593	49.55	0	1241.159 Recovery	-0.1764
9/9/2023 18:00	119.7887	49.55	0	1241.289 Recovery	-0.047
9/9/2023 19:00	119.7887	49.538	0	1241.289 Recovery	-0.047
9/9/2023 20:00	119.7534	49.514	0	1241.253 Recovery	-0.0823
9/9/2023 21:00	119.7534	49.514	0	1241.253 Recovery	-0.0823
9/9/2023 22:00	119.7887	49.502	0	1241.289 Recovery	-0.047
9/9/2023 23:00	119.7181	49.502	0	1241.218 Recovery	-0.1176
9/10/2023 0:00	119.871	49.466	0	1241.371 Recovery	0.0353
9/10/2023 1:00	119.9062	49.466	0	1241.406 Recovery	0.0705
9/10/2023 2:00	119.9415	49.49	0	1241.442 Recovery	0.1058
9/10/2023 3:00	120.1178	49.478	0	1241.618 Recovery	0.2821
9/10/2023 4:00	120.2236	49.478	0	1241.724 Recovery	0.3879
9/10/2023 5:00	120.2001	49.49	0	1241.7 Recovery	0.3644

9/10/2023 6:00	120.3059	49.466	0	1241.806 Recovery	0.4702
9/10/2023 7:00	120.4823	49.454	0	1241.982 Recovery	0.6466
9/10/2023 8:00	120.5411	49.424	0	1242.041 Recovery	0.7054
9/10/2023 9:00	120.5176	49.436	0	1242.018 Recovery	0.6819
9/11/2023 9:00	120.4705	49.388	0	1241.971 Recovery	0.6348
9/12/2023 9:00	108.4438	49.322	0	1241.171 Recovery	-0.1646
9/12/2023 14:28	119.6711	50.036	0	1241.171 Removed	-0.1646

END OF DATA FILE OF DATALOGGER FOR WINDOWS

Logger

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Data file for DataLogger.

COMPANY : Thein Well Co.

COMP.STATUS: Do

DATE : 9/6/23

TIME : 10:45

FILENAME : BDM 6" well

CREATED BY : ZT

===== BEGINNING OF DATA =====

[Logger settings]

Date/time	Pressure[ft	Temperature[°F]	Water Level	Notes	
9/6/2023 10:45	120.9996	49.046	1237.5	Installed	1237.5
9/7/2023 6:30	121.1642	49.046	1237.664	Logger	0.1646
9/7/2023 6:45	121.1877	49.058	1237.688	OFF	0.1881
9/7/2023 7:00	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:01	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:02	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:03	121.2464	49.058	1237.746	Production Well Test pumping	0.2468
9/7/2023 7:04	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:05	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:06	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:07	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:08	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:09	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:10	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:11	121.2112	49.058	1237.711	Production Well Test pumping	0.2116
9/7/2023 7:12	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:13	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:14	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:15	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:16	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:17	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:18	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:19	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:20	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:21	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:22	121.1877	49.058	1237.688	Production Well Test pumping	0.1881
9/7/2023 7:23	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:24	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:25	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:26	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:27	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:28	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:29	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:30	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:31	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:32	121.1642	49.058	1237.664	Production Well Test pumping	0.1646
9/7/2023 7:33	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:34	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:35	121.1054	49.046	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:36	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:37	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:38	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:39	121.1289	49.058	1237.629	Production Well Test pumping	0.1293
9/7/2023 7:40	121.1054	49.058	1237.605	Production Well Test pumping	0.1058

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9/7/2023 7:41	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:42	121.0819	49.058	1237.582	Production Well Test pumping	0.0823
9/7/2023 7:43	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:44	121.1054	49.046	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:45	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:46	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:47	121.0819	49.058	1237.582	Production Well Test pumping	0.0823
9/7/2023 7:48	121.1054	49.058	1237.605	Production Well Test pumping	0.1058
9/7/2023 7:49	121.0819	49.058	1237.582	Production Well Test pumping	0.0823
9/7/2023 7:50	121.0466	49.058	1237.547	Production Well Test pumping	0.047
9/7/2023 7:51	121.0466	49.058	1237.547	Production Well Test pumping	0.047
9/7/2023 7:52	121.0466	49.058	1237.547	Production Well Test pumping	0.047
9/7/2023 7:53	121.0466	49.046	1237.547	Production Well Test pumping	0.047
9/7/2023 7:54	121.0466	49.046	1237.547	Production Well Test pumping	0.047
9/7/2023 7:55	121.0231	49.058	1237.523	Production Well Test pumping	0.0235
9/7/2023 7:56	121.0466	49.058	1237.547	Production Well Test pumping	0.047
9/7/2023 7:57	121.0231	49.058	1237.523	Production Well Test pumping	0.0235
9/7/2023 7:58	121.0466	49.058	1237.547	Production Well Test pumping	0.047
9/7/2023 7:59	121.0231	49.058	1237.523	Production Well Test pumping	0.0235
9/7/2023 8:00	121.0231	49.046	1237.523	Production Well Test pumping	0.0235
9/7/2023 8:30	120.8585	49.046	1237.359	Production Well Test pumping	-0.1411
9/7/2023 9:00	120.7174	49.058	1237.217	Production Well Test pumping	-0.2822
9/7/2023 9:30	120.5881	49.058	1237.088	Production Well Test pumping	-0.4115
9/7/2023 10:00	120.447	49.046	1236.947	Production Well Test pumping	-0.5526
9/7/2023 10:30	120.3412	49.046	1236.841	Production Well Test pumping	-0.6584
9/7/2023 11:00	120.2236	49.058	1236.724	Production Well Test pumping	-0.776
9/7/2023 11:30	120.0591	49.058	1236.559	Production Well Test pumping	-0.9405
9/7/2023 12:00	119.9532	49.046	1236.453	Production Well Test pumping	-1.0464
9/7/2023 13:00	119.6241	49.046	1236.124	Production Well Test pumping	-1.3755
9/7/2023 14:00	119.3537	49.058	1235.854	Production Well Test pumping	-1.6459
9/7/2023 15:00	119.048	49.046	1235.548	Production Well Test pumping	-1.9516
9/7/2023 16:00	118.7423	49.058	1235.242	Production Well Test pumping	-2.2573
9/7/2023 17:00	118.4955	49.058	1234.996	Production Well Test pumping	-2.5041
9/7/2023 18:00	118.2251	49.058	1234.725	Production Well Test pumping	-2.7745
9/7/2023 19:00	118.0017	49.058	1234.502	Production Well Test pumping	-2.9979
9/7/2023 20:00	117.7901	49.058	1234.29	Production Well Test pumping	-3.2095
9/7/2023 21:00	117.5667	49.058	1234.067	Production Well Test pumping	-3.4329
9/7/2023 22:00	117.3786	49.058	1233.879	Production Well Test pumping	-3.621
9/7/2023 23:00	117.261	49.058	1233.761	Production Well Test pumping	-3.7386
9/8/2023 0:00	117.1317	49.058	1233.632	Production Well Test pumping	-3.8679
9/8/2023 1:00	117.0142	49.058	1233.514	Production Well Test pumping	-3.9854
9/8/2023 2:00	116.9084	49.058	1233.408	Production Well Test pumping	-4.0912
9/8/2023 3:00	116.8025	49.058	1233.303	Production Well Test pumping	-4.1971
9/8/2023 4:00	116.7203	49.058	1233.22	Production Well Test pumping	-4.2793
9/8/2023 5:00	116.6615	49.058	1233.162	Production Well Test pumping	-4.3381
9/8/2023 6:00	116.6615	49.058	1233.162	Production Well Test pumping	-4.3381
9/8/2023 7:00	116.638	49.058	1233.138	Production Well Test pumping	-4.3616
9/8/2023 8:00	116.5557	49.058	1233.056	Production Well OFF	-4.4439
9/8/2023 8:01	116.5792	49.058	1233.079	Production Well OFF	-4.4204
9/8/2023 8:02	116.5792	49.058	1233.079	Production Well OFF	-4.4204
9/8/2023 8:03	116.6027	49.058	1233.103	Production Well OFF	-4.3969
9/8/2023 8:04	116.6027	49.058	1233.103	Production Well OFF	-4.3969
9/8/2023 8:05	116.6027	49.058	1233.103	Production Well OFF	-4.3969
9/8/2023 8:06	116.6027	49.058	1233.103	Production Well OFF	-4.3969
9/8/2023 8:07	116.6027	49.058	1233.103	Production Well OFF	-4.3969
9/8/2023 8:08	116.6027	49.058	1233.103	Production Well OFF	-4.3969

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Oct 02 2025

Water Rights
Program

9/8/2023 8:09	116.6027	49.058	1233.103 Production Well OFF	-4.3969
9/8/2023 8:10	116.638	49.058	1233.138 Production Well OFF	-4.3616
9/8/2023 8:11	116.638	49.058	1233.138 Production Well OFF	-4.3616
9/8/2023 8:12	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:13	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:14	116.638	49.058	1233.138 Production Well OFF	-4.3616
9/8/2023 8:15	116.638	49.058	1233.138 Production Well OFF	-4.3616
9/8/2023 8:16	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:17	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:18	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:19	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:20	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:21	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:22	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:23	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:24	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:25	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:26	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:27	116.6615	49.058	1233.162 Production Well OFF	-4.3381
9/8/2023 8:28	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:29	116.685	49.058	1233.185 Production Well OFF	-4.3146
9/8/2023 8:30	116.7203	49.058	1233.22 Production Well OFF	-4.2793
9/8/2023 8:31	116.7203	49.058	1233.22 Production Well OFF	-4.2793
9/8/2023 8:32	116.7203	49.058	1233.22 Production Well OFF	-4.2793
9/8/2023 8:33	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:34	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:35	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:36	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:37	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:38	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:39	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:40	116.7438	49.058	1233.244 Production Well OFF	-4.2558
9/8/2023 8:41	116.7673	49.058	1233.267 Production Well OFF	-4.2323
9/8/2023 8:42	116.7673	49.058	1233.267 Production Well OFF	-4.2323
9/8/2023 8:43	116.7673	49.058	1233.267 Production Well OFF	-4.2323
9/8/2023 8:44	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:45	116.7673	49.058	1233.267 Production Well OFF	-4.2323
9/8/2023 8:46	116.7673	49.058	1233.267 Production Well OFF	-4.2323
9/8/2023 8:47	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:48	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:49	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:50	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:51	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:52	116.8261	49.058	1233.326 Production Well OFF	-4.1735
9/8/2023 8:53	116.8025	49.058	1233.303 Production Well OFF	-4.1971
9/8/2023 8:54	116.8261	49.058	1233.326 Production Well OFF	-4.1735
9/8/2023 8:55	116.8496	49.058	1233.35 Production Well OFF	-4.15
9/8/2023 8:56	116.8496	49.058	1233.35 Production Well OFF	-4.15
9/8/2023 8:57	116.8496	49.058	1233.35 Production Well OFF	-4.15
9/8/2023 8:58	116.8848	49.058	1233.385 Production Well OFF	-4.1148
9/8/2023 8:59	116.9084	49.058	1233.408 Production Well OFF	-4.0912
9/8/2023 9:00	116.8848	49.058	1233.385 Production Well OFF	-4.1148
9/8/2023 9:30	117.0142	49.058	1233.514 Production Well OFF	-3.9854
9/8/2023 10:00	117.1788	49.058	1233.679 Production Well OFF	-3.8208
9/8/2023 10:30	117.3786	49.058	1233.879 Production Well OFF	-3.621
9/8/2023 11:00	117.5432	49.058	1234.043 Production Well OFF	-3.4564

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OCT 02 2025

Water Rights
Program

9/8/2023 11:30	117.7078	49.058	1234.208 Production Well OFF	-3.2918
9/8/2023 12:00	117.8724	49.058	1234.372 Production Well OFF	-3.1272
9/8/2023 13:00	118.1193	49.058	1234.619 Production Well OFF	-2.8803
9/8/2023 14:00	118.3661	49.058	1234.866 Production Well OFF	-2.6335
9/8/2023 15:00	118.5542	49.058	1235.054 Production Well OFF	-2.4454
9/8/2023 16:00	118.7423	49.058	1235.242 Production Well OFF	-2.2573
9/8/2023 17:00	118.9069	49.058	1235.407 Production Well OFF	-2.0927
9/8/2023 18:00	119.0715	49.058	1235.572 Production Well OFF	-1.9281
9/8/2023 19:00	119.2361	49.058	1235.736 Production Well OFF	-1.7635
9/8/2023 20:00	119.4007	49.058	1235.901 Production Well OFF	-1.5989
9/8/2023 21:00	119.5418	49.058	1236.042 Production Well OFF	-1.4578
9/8/2023 22:00	119.6476	49.058	1236.148 Production Well OFF	-1.352
9/8/2023 23:00	119.7299	49.058	1236.23 Production Well OFF	-1.2697
9/9/2023 0:00	119.8122	49.058	1236.312 Production Well OFF	-1.1874
9/9/2023 1:00	119.9532	49.058	1236.453 Production Well OFF	-1.0464
9/9/2023 2:00	120.0355	49.058	1236.536 Production Well OFF	-0.9641
9/9/2023 3:00	120.1413	49.058	1236.641 Production Well OFF	-0.8583
9/9/2023 4:00	120.2824	49.058	1236.782 Production Well OFF	-0.7172
9/9/2023 5:00	120.447	49.058	1236.947 Production Well OFF	-0.5526
9/9/2023 6:00	120.5528	49.058	1237.053 Production Well OFF	-0.4468
9/9/2023 7:00	120.6704	49.058	1237.17 Production Well OFF	-0.3292
9/9/2023 8:00	120.7762	49.058	1237.276 Production Well OFF	-0.2234
9/9/2023 9:00	120.9173	49.058	1237.417 Production Well OFF	-0.0823
9/9/2023 10:00	121.0231	49.058	1237.523 Production Well OFF	0.0235
9/9/2023 11:00	121.1054	49.058	1237.605 Production Well OFF	0.1058
9/9/2023 12:00	121.1642	49.058	1237.664 Production Well OFF	0.1646
9/9/2023 13:00	121.2112	49.058	1237.711 Production Well OFF	0.2116
9/9/2023 14:00	121.2935	49.058	1237.794 Production Well OFF	0.2939
9/9/2023 15:00	121.3523	49.058	1237.852 Production Well OFF	0.3527
9/9/2023 16:00	121.3758	49.058	1237.876 Production Well OFF	0.3762
9/9/2023 17:00	121.3758	49.058	1237.876 Production Well OFF	0.3762
9/9/2023 18:00	121.411	49.058	1237.911 Production Well OFF	0.4114
9/9/2023 19:00	121.4345	49.058	1237.935 Production Well OFF	0.4349
9/9/2023 20:00	121.4933	49.058	1237.993 Production Well OFF	0.4937
9/9/2023 21:00	121.4581	49.058	1237.958 Production Well OFF	0.4585
9/9/2023 22:00	121.5168	49.058	1238.017 Production Well OFF	0.5172
9/9/2023 23:00	121.4933	49.058	1237.993 Production Well OFF	0.4937
9/10/2023 0:00	121.5404	49.058	1238.04 Production Well OFF	0.5408
9/10/2023 1:00	121.5756	49.058	1238.076 Production Well OFF	0.576
9/10/2023 2:00	121.5991	49.058	1238.099 Production Well OFF	0.5995
9/10/2023 3:00	121.6814	49.058	1238.181 Production Well OFF	0.6818
9/10/2023 4:00	121.7402	49.058	1238.24 Production Well OFF	0.7406
9/10/2023 5:00	121.7872	49.058	1238.287 Production Well OFF	0.7876
9/10/2023 6:00	121.8225	49.058	1238.323 Production Well OFF	0.8229
9/10/2023 7:00	121.9048	49.058	1238.405 Production Well OFF	0.9052
9/10/2023 8:00	121.9871	49.058	1238.487 Production Well OFF	0.9875
9/10/2023 9:00	122.0106	49.058	1238.511 Production Well OFF	1.011
9/11/2023 9:00	122.0694	49.07	1238.569 Production Well OFF	1.0698
9/12/2023 9:00	121.9871	49.058	1238.487 Production Well OFF	0.9875
9/13/2023 7:21	121.8225	49.07	1238.323 Removed	0.8229
END OF DATA FILE OF DATALOGGER FOR WINDOWS			Logger	-4.4439

Data file for DataLogger.

COMPANY : Thein Well Co.

COMP.STATUS: Do

DATE : 9/6/23

TIME : 10:45

FILENAME : BDM 2" Well

CREATED BY : ZT

===== BEGINNING OF DATA =====

[Logger settings]

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OCT 02 2025

Water Rights
Program

Date/time	Pressure[ftH2O]	Temperature[°F]	Water Level Notes		
9/6/2023 10:45	125.564	49.082	1251.064 Installed	166.936	1251.064
9/7/2023 6:30	125.4005	49.058	1250.901 Logger	167.0995	-0.1635
9/7/2023 6:45	125.4383	49.058	1250.938 OFF	167.0617	-0.1257
9/7/2023 7:00	125.4949	49.07	1250.995 Production Well Test pumping	167.0051	-0.0691
9/7/2023 7:01	125.4949	49.07	1250.995 Production Well Test pumping	167.0051	-0.0691
9/7/2023 7:02	125.476	49.07	1250.976 Production Well Test pumping	167.024	-0.088
9/7/2023 7:03	125.4571	49.07	1250.957 Production Well Test pumping	167.0429	-0.1069
9/7/2023 7:04	125.4194	49.07	1250.919 Production Well Test pumping	167.0806	-0.1446
9/7/2023 7:05	125.3817	49.07	1250.882 Production Well Test pumping	167.1183	-0.1823
9/7/2023 7:06	125.3251	49.07	1250.825 Production Well Test pumping	167.1749	-0.2389
9/7/2023 7:07	125.2873	49.07	1250.787 Production Well Test pumping	167.2127	-0.2767
9/7/2023 7:08	125.2496	49.07	1250.75 Production Well Test pumping	167.2504	-0.3144
9/7/2023 7:09	125.2119	49.07	1250.712 Production Well Test pumping	167.2881	-0.3521
9/7/2023 7:10	125.1742	49.07	1250.674 Production Well Test pumping	167.3258	-0.3898
9/7/2023 7:11	125.1427	49.07	1250.643 Production Well Test pumping	167.3573	-0.4213
9/7/2023 7:12	125.0861	49.07	1250.586 Production Well Test pumping	167.4139	-0.4779
9/7/2023 7:13	125.0673	49.07	1250.567 Production Well Test pumping	167.4327	-0.4967
9/7/2023 7:14	125.0295	49.07	1250.53 Production Well Test pumping	167.4705	-0.5345
9/7/2023 7:15	125.0107	49.07	1250.511 Production Well Test pumping	167.4893	-0.5533
9/7/2023 7:16	124.9729	49.07	1250.473 Production Well Test pumping	167.5271	-0.5911
9/7/2023 7:17	124.9352	49.07	1250.435 Production Well Test pumping	167.5648	-0.6288
9/7/2023 7:18	124.9163	49.07	1250.416 Production Well Test pumping	167.5837	-0.6477
9/7/2023 7:19	124.8786	49.07	1250.379 Production Well Test pumping	167.6214	-0.6854
9/7/2023 7:20	124.8597	49.07	1250.36 Production Well Test pumping	167.6403	-0.7043
9/7/2023 7:21	124.8409	49.07	1250.341 Production Well Test pumping	167.6591	-0.7231
9/7/2023 7:22	124.8031	49.07	1250.303 Production Well Test pumping	167.6969	-0.7609
9/7/2023 7:23	124.7843	49.07	1250.284 Production Well Test pumping	167.7157	-0.7797
9/7/2023 7:24	124.7717	49.07	1250.272 Production Well Test pumping	167.7283	-0.7923
9/7/2023 7:25	124.734	49.07	1250.234 Production Well Test pumping	167.766	-0.83
9/7/2023 7:26	124.7151	49.07	1250.215 Production Well Test pumping	167.7849	-0.8489
9/7/2023 7:27	124.7151	49.07	1250.215 Production Well Test pumping	167.7849	-0.8489
9/7/2023 7:28	124.6774	49.07	1250.177 Production Well Test pumping	167.8226	-0.8866
9/7/2023 7:29	124.6585	49.07	1250.159 Production Well Test pumping	167.8415	-0.9055
9/7/2023 7:30	124.6585	49.07	1250.159 Production Well Test pumping	167.8415	-0.9055
9/7/2023 7:31	124.6585	49.07	1250.159 Production Well Test pumping	167.8415	-0.9055
9/7/2023 7:32	124.6208	49.07	1250.121 Production Well Test pumping	167.8792	-0.9432
9/7/2023 7:33	124.6019	49.07	1250.102 Production Well Test pumping	167.8981	-0.9621
9/7/2023 7:34	124.5642	49.082	1250.064 Production Well Test pumping	167.9358	-0.9998
9/7/2023 7:35	124.5453	49.082	1250.045 Production Well Test pumping	167.9547	-1.0187
9/7/2023 7:36	124.5453	49.082	1250.045 Production Well Test pumping	167.9547	-1.0187
9/7/2023 7:37	124.5265	49.082	1250.027 Production Well Test pumping	167.9735	-1.0375
9/7/2023 7:38	124.5076	49.082	1250.008 Production Well Test pumping	167.9924	-1.0564
9/7/2023 7:39	124.4887	49.082	1249.989 Production Well Test pumping	168.0113	-1.0753
9/7/2023 7:40	124.4887	49.082	1249.989 Production Well Test pumping	168.0113	-1.0753
9/7/2023 7:41	124.4699	49.082	1249.97 Production Well Test pumping	168.0301	-1.0941
9/7/2023 7:42	124.4699	49.082	1249.97 Production Well Test pumping	168.0301	-1.0941
9/7/2023 7:43	124.4321	49.082	1249.932 Production Well Test pumping	168.0679	-1.1319
9/7/2023 7:44	124.4321	49.082	1249.932 Production Well Test pumping	168.0679	-1.1319
9/7/2023 7:45	124.4133	49.082	1249.913 Production Well Test pumping	168.0867	-1.1507
9/7/2023 7:46	124.4133	49.082	1249.913 Production Well Test pumping	168.0867	-1.1507
9/7/2023 7:47	124.4007	49.082	1249.901 Production Well Test pumping	168.0993	-1.1633
9/7/2023 7:48	124.3818	49.082	1249.882 Production Well Test pumping	168.1182	-1.1822

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OCT 02 2025

Water Rights Program

9/7/2023 7:49	124.363	49.082	1249.863	Production Well Test pumping	168.137	-1.201
9/7/2023 7:50	124.363	49.082	1249.863	Production Well Test pumping	168.137	-1.201
9/7/2023 7:51	124.3441	49.082	1249.844	Production Well Test pumping	168.1559	-1.2199
9/7/2023 7:52	124.3252	49.082	1249.825	Production Well Test pumping	168.1748	-1.2388
9/7/2023 7:53	124.3064	49.082	1249.806	Production Well Test pumping	168.1936	-1.2576
9/7/2023 7:54	124.3064	49.082	1249.806	Production Well Test pumping	168.1936	-1.2576
9/7/2023 7:55	124.2875	49.082	1249.788	Production Well Test pumping	168.2125	-1.2765
9/7/2023 7:56	124.2875	49.082	1249.788	Production Well Test pumping	168.2125	-1.2765
9/7/2023 7:57	124.2686	49.082	1249.769	Production Well Test pumping	168.2314	-1.2954
9/7/2023 7:58	124.2686	49.082	1249.769	Production Well Test pumping	168.2314	-1.2954
9/7/2023 7:59	124.2498	49.082	1249.75	Production Well Test pumping	168.2502	-1.3142
9/7/2023 8:00	124.2309	49.082	1249.731	Production Well Test pumping	168.2691	-1.3331
9/7/2023 8:30	123.9354	49.07	1249.435	Production Well Test pumping	168.5646	-1.6286
9/7/2023 9:00	123.709	49.07	1249.209	Production Well Test pumping	168.791	-1.855
9/7/2023 9:30	123.5455	49.07	1249.046	Production Well Test pumping	168.9545	-2.0185
9/7/2023 10:00	123.4134	49.082	1248.913	Production Well Test pumping	169.0866	-2.1506
9/7/2023 10:30	123.3003	49.07	1248.8	Production Well Test pumping	169.1997	-2.2637
9/7/2023 11:00	123.1745	49.07	1248.675	Production Well Test pumping	169.3255	-2.3895
9/7/2023 11:30	123.0047	49.082	1248.505	Production Well Test pumping	169.4953	-2.5593
9/7/2023 12:00	122.8223	49.07	1248.322	Production Well Test pumping	169.6777	-2.7417
9/7/2023 13:00	122.4891	49.082	1247.989	Production Well Test pumping	170.0109	-3.0749
9/7/2023 14:00	122.1684	49.07	1247.668	Production Well Test pumping	170.3316	-3.3956
9/7/2023 15:00	121.9105	49.082	1247.411	Production Well Test pumping	170.5895	-3.6535
9/7/2023 16:00	121.615	49.07	1247.115	Production Well Test pumping	170.885	-3.949
9/7/2023 17:00	121.3698	49.07	1246.87	Production Well Test pumping	171.1302	-4.1942
9/7/2023 18:00	121.2628	49.07	1246.763	Production Well Test pumping	171.2372	-4.3012
9/7/2023 19:00	121.0553	49.082	1246.555	Production Well Test pumping	171.4447	-4.5087
9/7/2023 20:00	120.9107	49.094	1246.411	Production Well Test pumping	171.5893	-4.6533
9/7/2023 21:00	120.8352	49.07	1246.335	Production Well Test pumping	171.6648	-4.7288
9/7/2023 22:00	120.7598	49.094	1246.26	Production Well Test pumping	171.7402	-4.8042
9/7/2023 23:00	120.7221	49.082	1246.222	Production Well Test pumping	171.7779	-4.8419
9/8/2023 0:00	120.7032	49.082	1246.203	Production Well Test pumping	171.7968	-4.8608
9/8/2023 1:00	120.6089	49.082	1246.109	Production Well Test pumping	171.8911	-4.9551
9/8/2023 2:00	120.6089	49.082	1246.109	Production Well Test pumping	171.8911	-4.9551
9/8/2023 3:00	120.59	49.094	1246.09	Production Well Test pumping	171.91	-4.974
9/8/2023 4:00	120.6466	49.094	1246.147	Production Well Test pumping	171.8534	-4.9174
9/8/2023 5:00	120.6843	49.094	1246.184	Production Well Test pumping	171.8157	-4.8797
9/8/2023 6:00	120.7221	49.094	1246.222	Production Well Test pumping	171.7779	-4.8419
9/8/2023 7:00	120.7598	49.082	1246.26	Production Well Test pumping	171.7402	-4.8042
9/8/2023 8:00	120.7598	49.082	1246.26	Production Well Test pumping	171.7402	-4.8042
9/8/2023 8:01	120.7598	49.082	1246.26	Production Well Off	171.7402	-4.8042
9/8/2023 8:02	120.7787	49.082	1246.279	Production Well Off	171.7213	-4.7853
9/8/2023 8:03	120.7787	49.082	1246.279	Production Well Off	171.7213	-4.7853
9/8/2023 8:04	120.8352	49.082	1246.335	Production Well Off	171.6648	-4.7288
9/8/2023 8:05	120.873	49.082	1246.373	Production Well Off	171.627	-4.691
9/8/2023 8:06	120.9107	49.082	1246.411	Production Well Off	171.5893	-4.6533
9/8/2023 8:07	120.9484	49.082	1246.448	Production Well Off	171.5516	-4.6156
9/8/2023 8:08	120.9987	49.094	1246.499	Production Well Off	171.5013	-4.5653
9/8/2023 8:09	121.0553	49.094	1246.555	Production Well Off	171.4447	-4.5087
9/8/2023 8:10	121.0931	49.094	1246.593	Production Well Off	171.4069	-4.4709
9/8/2023 8:11	121.1308	49.094	1246.631	Production Well Off	171.3692	-4.4332
9/8/2023 8:12	121.1497	49.094	1246.65	Production Well Off	171.3503	-4.4143
9/8/2023 8:13	121.2063	49.094	1246.706	Production Well Off	171.2937	-4.3577
9/8/2023 8:14	121.244	49.082	1246.744	Production Well Off	171.256	-4.32
9/8/2023 8:15	121.2628	49.094	1246.763	Production Well Off	171.2372	-4.3012
9/8/2023 8:16	121.3006	49.082	1246.801	Production Well Off	171.1994	-4.2634
9/8/2023 8:17	121.3383	49.082	1246.838	Production Well Off	171.1617	-4.2257
9/8/2023 8:18	121.3572	49.082	1246.857	Production Well Off	171.1428	-4.2068
9/8/2023 8:19	121.3886	49.082	1246.889	Production Well Off	171.1114	-4.1754
9/8/2023 8:20	121.4075	49.082	1246.908	Production Well Off	171.0925	-4.1565
9/8/2023 8:21	121.4263	49.082	1246.926	Production Well Off	171.0737	-4.1377
9/8/2023 8:22	121.4641	49.082	1246.964	Production Well Off	171.0359	-4.0999
9/8/2023 8:23	121.4829	49.082	1246.983	Production Well Off	171.0171	-4.0811
9/8/2023 8:24	121.5207	49.082	1247.021	Production Well Off	170.9793	-4.0433

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OCT 02 2025

Water Rights
Program

9/8/2023 8:25	121.5395	49.082	1247.04	Production Well Off	170.9605	-4.0245
9/8/2023 8:26	121.5773	49.082	1247.077	Production Well Off	170.9227	-3.9867
9/8/2023 8:27	121.5961	49.082	1247.096	Production Well Off	170.9039	-3.9679
9/8/2023 8:28	121.615	49.082	1247.115	Production Well Off	170.885	-3.949
9/8/2023 8:29	121.6339	49.082	1247.134	Production Well Off	170.8661	-3.9301
9/8/2023 8:30	121.6527	49.082	1247.153	Production Well Off	170.8473	-3.9113
9/8/2023 8:31	121.6905	49.082	1247.191	Production Well Off	170.8095	-3.8735
9/8/2023 8:32	121.7093	49.082	1247.209	Production Well Off	170.7907	-3.8547
9/8/2023 8:33	121.7282	49.082	1247.228	Production Well Off	170.7718	-3.8358
9/8/2023 8:34	121.7408	49.082	1247.241	Production Well Off	170.7592	-3.8232
9/8/2023 8:35	121.7596	49.082	1247.26	Production Well Off	170.7404	-3.8044
9/8/2023 8:36	121.7785	49.082	1247.279	Production Well Off	170.7215	-3.7855
9/8/2023 8:37	121.7974	49.082	1247.297	Production Well Off	170.7026	-3.7666
9/8/2023 8:38	121.8162	49.082	1247.316	Production Well Off	170.6838	-3.7478
9/8/2023 8:39	121.8351	49.082	1247.335	Production Well Off	170.6649	-3.7289
9/8/2023 8:40	121.8351	49.082	1247.335	Production Well Off	170.6649	-3.7289
9/8/2023 8:41	121.8728	49.082	1247.373	Production Well Off	170.6272	-3.6912
9/8/2023 8:42	121.8917	49.082	1247.392	Production Well Off	170.6083	-3.6723
9/8/2023 8:43	121.9105	49.082	1247.411	Production Well Off	170.5895	-3.6535
9/8/2023 8:44	121.9294	49.082	1247.429	Production Well Off	170.5706	-3.6346
9/8/2023 8:45	121.9294	49.082	1247.429	Production Well Off	170.5706	-3.6346
9/8/2023 8:46	121.9483	49.082	1247.448	Production Well Off	170.5517	-3.6157
9/8/2023 8:47	121.986	49.082	1247.486	Production Well Off	170.514	-3.578
9/8/2023 8:48	121.986	49.082	1247.486	Production Well Off	170.514	-3.578
9/8/2023 8:49	122.0049	49.082	1247.505	Production Well Off	170.4951	-3.5591
9/8/2023 8:50	122.0237	49.082	1247.524	Production Well Off	170.4763	-3.5403
9/8/2023 8:51	122.0237	49.082	1247.524	Production Well Off	170.4763	-3.5403
9/8/2023 8:52	122.0426	49.082	1247.543	Production Well Off	170.4574	-3.5214
9/8/2023 8:53	122.0803	49.082	1247.58	Production Well Off	170.4197	-3.4837
9/8/2023 8:54	122.0992	49.082	1247.599	Production Well Off	170.4008	-3.4648
9/8/2023 8:55	122.1181	49.082	1247.618	Production Well Off	170.3819	-3.4459
9/8/2023 8:56	122.0992	49.082	1247.599	Production Well Off	170.4008	-3.4648
9/8/2023 8:57	122.1306	49.082	1247.631	Production Well Off	170.3694	-3.4334
9/8/2023 8:58	122.1181	49.082	1247.618	Production Well Off	170.3819	-3.4459
9/8/2023 8:59	122.1306	49.082	1247.631	Production Well Off	170.3694	-3.4334
9/8/2023 9:00	122.1684	49.082	1247.668	Production Well Off	170.3316	-3.3956
9/8/2023 9:30	122.4891	49.094	1247.989	Production Well Off	170.0109	-3.0749
9/8/2023 10:00	122.7469	49.094	1248.247	Production Well Off	169.7531	-2.8171
9/8/2023 10:30	122.967	49.094	1248.467	Production Well Off	169.533	-2.597
9/8/2023 11:00	123.1368	49.094	1248.637	Production Well Off	169.3632	-2.4272
9/8/2023 11:30	123.2625	49.082	1248.763	Production Well Off	169.2375	-2.3015
9/8/2023 12:00	123.3568	49.082	1248.857	Production Well Off	169.1432	-2.2072
9/8/2023 13:00	123.4889	49.094	1248.989	Production Well Off	169.0111	-2.0751
9/8/2023 14:00	123.6524	49.082	1249.152	Production Well Off	168.8476	-1.9116
9/8/2023 15:00	123.709	49.082	1249.209	Production Well Off	168.791	-1.855
9/8/2023 16:00	123.7467	49.094	1249.247	Production Well Off	168.7533	-1.8173
9/8/2023 17:00	123.8222	49.082	1249.322	Production Well Off	168.6778	-1.7418
9/8/2023 18:00	124.0108	49.082	1249.511	Production Well Off	168.4892	-1.5532
9/8/2023 19:00	124.0989	49.094	1249.599	Production Well Off	168.4011	-1.4651
9/8/2023 20:00	124.1177	49.094	1249.618	Production Well Off	168.3823	-1.4463
9/8/2023 21:00	124.1366	49.082	1249.637	Production Well Off	168.3634	-1.4274
9/8/2023 22:00	124.2875	49.094	1249.788	Production Well Off	168.2125	-1.2765
9/8/2023 23:00	124.2875	49.082	1249.788	Production Well Off	168.2125	-1.2765
9/9/2023 0:00	124.2875	49.082	1249.788	Production Well Off	168.2125	-1.2765
9/9/2023 1:00	124.4133	49.094	1249.913	Production Well Off	168.0867	-1.1507
9/9/2023 2:00	124.5453	49.082	1250.045	Production Well Off	167.9547	-1.0187
9/9/2023 3:00	124.6397	49.082	1250.14	Production Well Off	167.8603	-0.9243
9/9/2023 4:00	124.8031	49.094	1250.303	Production Well Off	167.6969	-0.7609
9/9/2023 5:00	124.9729	49.082	1250.473	Production Well Off	167.5271	-0.5911
9/9/2023 6:00	125.0861	49.082	1250.586	Production Well Off	167.4139	-0.4779
9/9/2023 7:00	125.2119	49.094	1250.712	Production Well Off	167.2881	-0.3521
9/9/2023 8:00	125.2308	49.082	1250.731	Production Well Off	167.2692	-0.3332
9/9/2023 9:00	125.3062	49.106	1250.806	Production Well Off	167.1938	-0.2578
9/9/2023 10:00	125.4383	49.082	1250.938	Production Well Off	167.0617	-0.1257

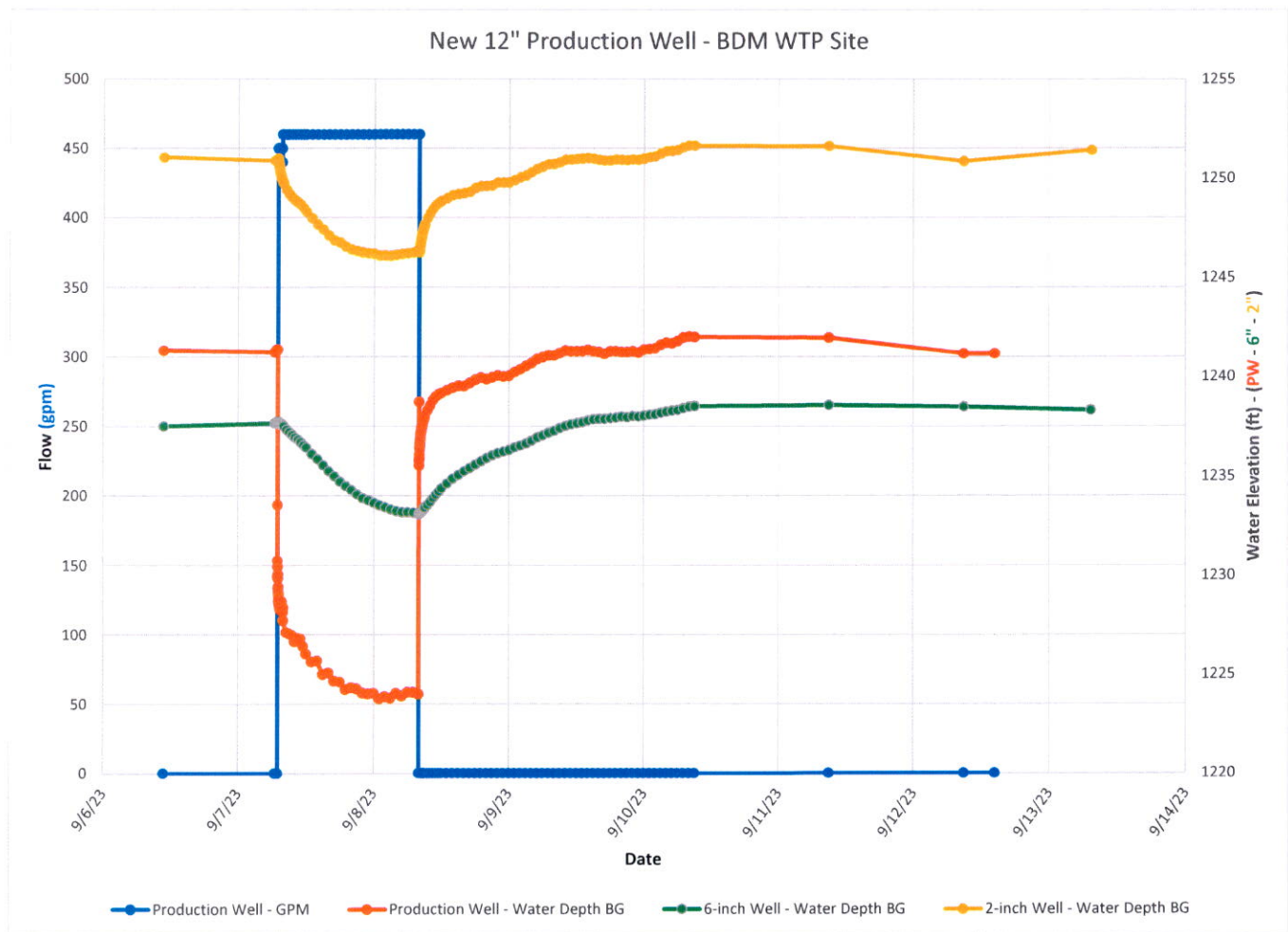
9/9/2023 11:00	125.4571	49.094	1250.957 Production Well Off	167.0429	-0.1069
9/9/2023 12:00	125.476	49.082	1250.976 Production Well Off	167.024	-0.088
9/9/2023 13:00	125.4949	49.094	1250.995 Production Well Off	167.0051	-0.0691
9/9/2023 14:00	125.5326	49.082	1251.033 Production Well Off	166.9674	-0.0314
9/9/2023 15:00	125.4949	49.106	1250.995 Production Well Off	167.0051	-0.0691
9/9/2023 16:00	125.4383	49.094	1250.938 Production Well Off	167.0617	-0.1257
9/9/2023 17:00	125.4005	49.094	1250.901 Production Well Off	167.0995	-0.1635
9/9/2023 18:00	125.4005	49.094	1250.901 Production Well Off	167.0995	-0.1635
9/9/2023 19:00	125.4571	49.106	1250.957 Production Well Off	167.0429	-0.1069
9/9/2023 20:00	125.4383	49.082	1250.938 Production Well Off	167.0617	-0.1257
9/9/2023 21:00	125.4194	49.094	1250.919 Production Well Off	167.0806	-0.1446
9/9/2023 22:00	125.4571	49.094	1250.957 Production Well Off	167.0429	-0.1069
9/9/2023 23:00	125.4383	49.082	1250.938 Production Well Off	167.0617	-0.1257
9/10/2023 0:00	125.4949	49.094	1250.995 Production Well Off	167.0051	-0.0691
9/10/2023 1:00	125.564	49.082	1251.064 Production Well Off	166.936	0
9/10/2023 2:00	125.6018	49.094	1251.102 Production Well Off	166.8982	0.0378
9/10/2023 3:00	125.7338	49.082	1251.234 Production Well Off	166.7662	0.1698
9/10/2023 4:00	125.8659	49.082	1251.366 Production Well Off	166.6341	0.3019
9/10/2023 5:00	125.8847	49.094	1251.385 Production Well Off	166.6153	0.3207
9/10/2023 6:00	125.9225	49.094	1251.423 Production Well Off	166.5775	0.3585
9/10/2023 7:00	126.0482	49.082	1251.548 Production Well Off	166.4518	0.4842
9/10/2023 8:00	126.1426	49.094	1251.643 Production Well Off	166.3574	0.5786
9/10/2023 9:00	126.1426	49.082	1251.643 Production Well Off	166.3574	0.5786
9/11/2023 9:00	126.1237	49.094	1251.624 Production Well Off	166.3763	0.5597
9/12/2023 9:00	125.3628	49.094	1250.863 Production Well Off	167.1372	-0.2012
9/13/2023 7:32	125.9225	49.082	1251.423 Removed	166.5775	0.3585
END OF DATA FILE OF DATALOGGER FOR WINDOWS			Logger		
					-4.974

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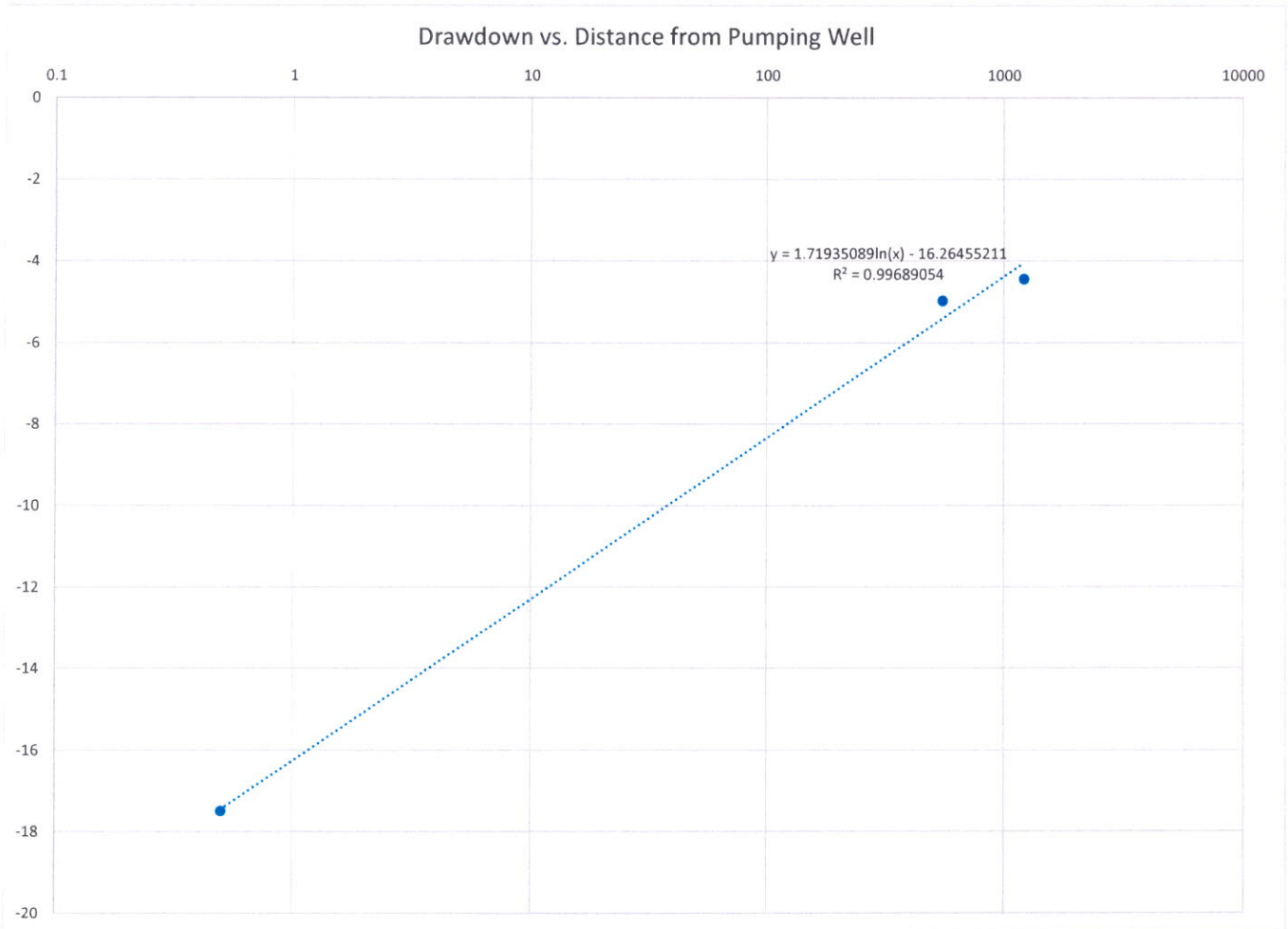
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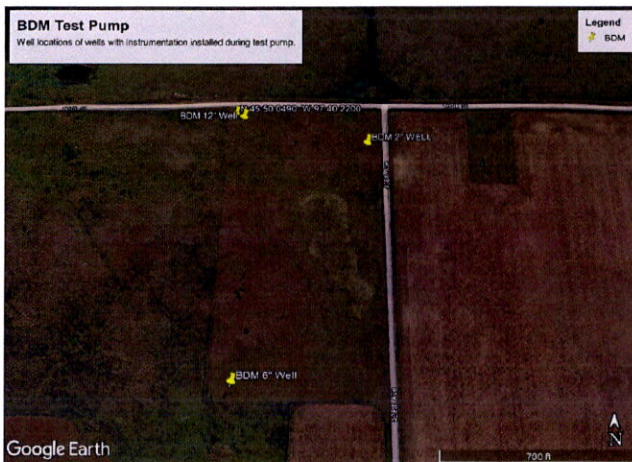
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12" Well - 1424'
2" Well - 1418'
6" Well - 1399'

	Distance	depth
BDM Well	0.5	-17.5
2" Well	55.3	-4.374
6" Well	1216	-4.44

$y = 1.7194 \ln(x) - 16.265$
1.71935089 -4.05145
16.26455211



Rodriguez, Rachel

From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 4:04 PM
To: Rod Kappes
Subject: FW: Well No. 10 Data for Water Permit
Attachments: BDM #10 Test Pump Manual.pdf; BDM WLP10 Well Alignment.pdf; Sieve Analysis - BDM Rural Water Systems TH 10 1-16-24 r1.pdf; Well 10 Drawdown and Specific Capacity Test Results.pdf

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 **Brian R. Bergantine, PE**
Project Quality Director
Mobile: (701) 866-0620

From: Brian R. Bergantine
Sent: Wednesday, September 24, 2025 3:56 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Subject: Well No. 10 Data for Water Permit



Top 5 Best Firm
To Work For



Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT



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Water Rights
Program

(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com

Owner: BDM – Britton SD
Tested by: Brandon S & Adam P
Date: 04/02/2024

Unique Well# : New Well #10
GPS: 45 49 56.90N 97 40 13.30W
Totalizer: Start: 18649400 Stop: 18725700

Well Information:

Length of Casing: 267'
Length of Screen: 26'
Total Well Depth: 293'
Static Water Level: 179.70'
Pump Capacity: _____

Motor HP 60 Voltage 460
Motor MFG: Franklin Electric
Pump Model & MFG: Franklin Electric 700
GPM _____ PWL _____ HRS _____

TIME	GPM	PWL	COMMENTS
4/02/24			
11:15am	300		Start test pump / Totalizer 18649400
11:16am	300	194.29'	
11:17am	300	194.87'	
11:18am	300	195.50'	
11:19am	300	193.45'	
11:20am	300	194.00'	
11:21am	300	194.86'	
11:22am	300	195.32'	
11:23am	300	196.01'	
11:24am	300	195.07'	
11:25am	300	195.64'	
11:26am	300	194.57	
11:27am	300	196.03'	
11:28am	300	196.30'	
11:29am	300	196.81'	
11:30am	300	195.31'	
11:31am	300	196.81'	
11:32am	300	195.04'	
11:33am	300	197.45'	Adjusting gpm / Totalizer 18654800
11:34am		197.91'	
11:35am	450	197.96'	Sand not measurable
11:36am	450	198.54'	
11:37am	450	198.44'	
11:38am	450	198.68'	
11:39am	450	198.46'	
11:40am	450	198.72'	
11:41am	450	198.56'	

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

OCT 02 2025

Water Rights
Program
 (320) 235-8484
 2295 66th Ave NE
 Willmar, MN 56201-9246
 steffl@waterwelldrilling.com

Page 2

TIME	GPM	PWL	COMMENTS
11:42am	451	198.76'	
11:43am	451	198.80'	Totalizer 18659500
11:44am	451	198.58'	
11:45am	451	197.96'	
11:46am	451	198.59'	Clean out Rossum / Sand not measurable
11:47am	451	198.83'	
11:48am	451	198.63'	
11:49am	451	198.37'	
11:50am	451	198.21'	
11:51am	451	198.78'	Sand not measurable
11:52am	451	199.31'	
11:53am	451	198.66'	
11:54am	451	198.60'	
11:55am	451	198.31'	
11:56am	451	198.27'	
11:57am	451	198.20'	
11:58am	451	198.61'	
11:59am	451	198.59'	
12:00pm	451	198.86'	
12:03pm	451	198.42'	
12:08pm	451	198.56'	Sand not measurable
12:10pm	540	198.27'	Adjusted flow / Totalizer 18671500
12:11pm	540	201.43'	Sand not measurable
12:12pm	540	201.06'	
12:13pm	540	201.01'	
12:14pm	540	201.02'	
12:15pm	540	201.74'	
12:16pm	540	202.31'	
12:17pm	540	201.65'	
12:18pm	540	201.56'	
12:19pm	540	201.59'	
12:20pm	540	201.68'	
12:21pm	540	201.26'	
12:22pm	540	201.84'	
12:23pm	540	201.92'	Sand not measurable

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

Page 3

TIME	GPM	PWL	COMMENTS
12:24pm	540	202.01'	Cleaned out Rossum / Sand not measurable
12:25pm	540	201.98'	
12:26pm	540	201.94'	
12:27pm	540	202.11'	
12:28pm	540	202.02'	
12:29pm	540	202.51'	
12:30pm	540	202.43'	
12:31pm		202.37'	
12:32pm	685	202.41'	
12:33pm	685	206.32'	Adjusted flow / Totalizer 18683500
12:34pm	685	207.66'	
12:35pm	685	207.30'	
12:36pm	685	207.15'	
12:37pm	685	207.29'	
12:38pm	685	207.38'	
12:39pm	685	207.44'	
12:40pm	685	207.26'	
12:41pm	685	206.98'	
12:42pm	685	207.81'	
12:43pm	685	207.32'	
12:44pm	685	207.71'	Sand not measurable
12:45pm	685	207.56'	
12:46pm	685	207.30'	
12:47pm	685	207.41'	
12:48pm	685	207.76'	
12:49pm	685	207.65'	
12:50pm	685	207.30'	
12:51pm	685	207.65'	
12:52pm	685	207.81'	Sand not measurable / Totalizer 18697200
12:53pm	685	207.26'	
12:54pm	685	207.96'	
12:55pm	685	207.84'	
12:56pm	685	207.71'	
12:57pm	685	207.41'	
12:58pm	685	207.34'	

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

Page 4

TIME	GPM	PWL	COMMENTS
13:05pm	693	209.01'	Totalizer 18704600
13:06pm	693	209.15'	
13:07pm	693	209.31'	Sand not measurable
13:08pm	693	208.94'	
13:09pm	693	209.33'	
13:10pm	693	209.52'	
13:11pm	693	209.11'	
13:12pm	693	209.19'	
13:13pm	693	209.44'	
13:14pm	693	209.19'	
13:15pm	693	209.26'	
13:16pm	693	209.43'	
13:17pm	693	209.12'	Sand not measurable
13:18pm	693	209.07'	
13:19pm	693	209.53'	
13:20pm	693	209.47'	
13:21pm	693	209.08'	
13:22pm	693	209.51'	
13:23pm	693	209.32'	
13:24pm	693	209.77'	
13:25pm	693	209.82'	
13:26pm	693	209.36'	
13:27pm	693	209.51'	
13:28pm	693	209.25'	
13:29pm	693	209.86'	
13:30pm	693	209.37'	
13:31pm	693	209.52'	Sand not measurable
13:32pm	693	209.69'	Stop test pump / Totalizer 18725400

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

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JOB: BDM Britton SD

WELL ALIGNMENT
DATE: 3/19/24

WELL NO.: WLP 10

DEPTH IN FEET	CASING MEAS.	DIRECTION OF MEASUREMENT		CASING MEAS.	DIRECTION OF MEASUREMENT	
		AMT OF DRIFT	CAS'G DRIFT INCHES		AMT OF DRIFT	CAS'G DRIFT INCHES
0	12	0	0	12	0	0
10	12	0	0	12	0	0
20	12	0	0	12	1/32	0.09375
30	12	1/32	0.125	12	0	0
40	12	1/32	0.15625	12	1/16	0.3125
50	12	1/16	0.375	12	3/16	1.125
60	12	1/32	0.21875	12	3/16	1.3125
70	12	1/16	0.5	12	1/4	2
80	12	3/32	0.84375	12	1/4	2.25
90	12	3/32	0.9375	12	5/16	3.125
100	12	1/8	1.375	12	5/16	3.4375
110	12	1/8	1.5	12	5/16	3.75
120	12	3/32	1.21875	12	3/8	4.875
130	12	1/8	1.75	12	3/8	5.25
140	12	1/8	1.875	12	5/16	4.6875
150	12	3/16	3	12	3/8	6
160	12	3/16	3.1875	12	5/16	5.3125
170	12	1/4	4.5	12	3/8	6.75
180	12	1/4	4.75	12	5/16	5.9375
190	12	1/4	5	12	5/16	6.25
200	12	1/4	5.25	12	3/8	7.875
210	12	3/16	4.125	12	3/8	8.25
220	12	1/4	5.75	12	3/8	8.625
230	12	5/16	7.5	12	3/8	9
240	12	5/16	7.8125	12	5/16	7.8125
250	12	1/4	6.5	12	5/16	8.125
260	12	5/16	8.4375	12	5/16	8.4375
270	12		0	12		0
280	12		0	12		0
290	12		0	12		0
300	12		0	12		0
310	12		0	12		0
320	12		0	12		0
330	12		0	12		0

WELL ALIGNMENT
WORKSHEET

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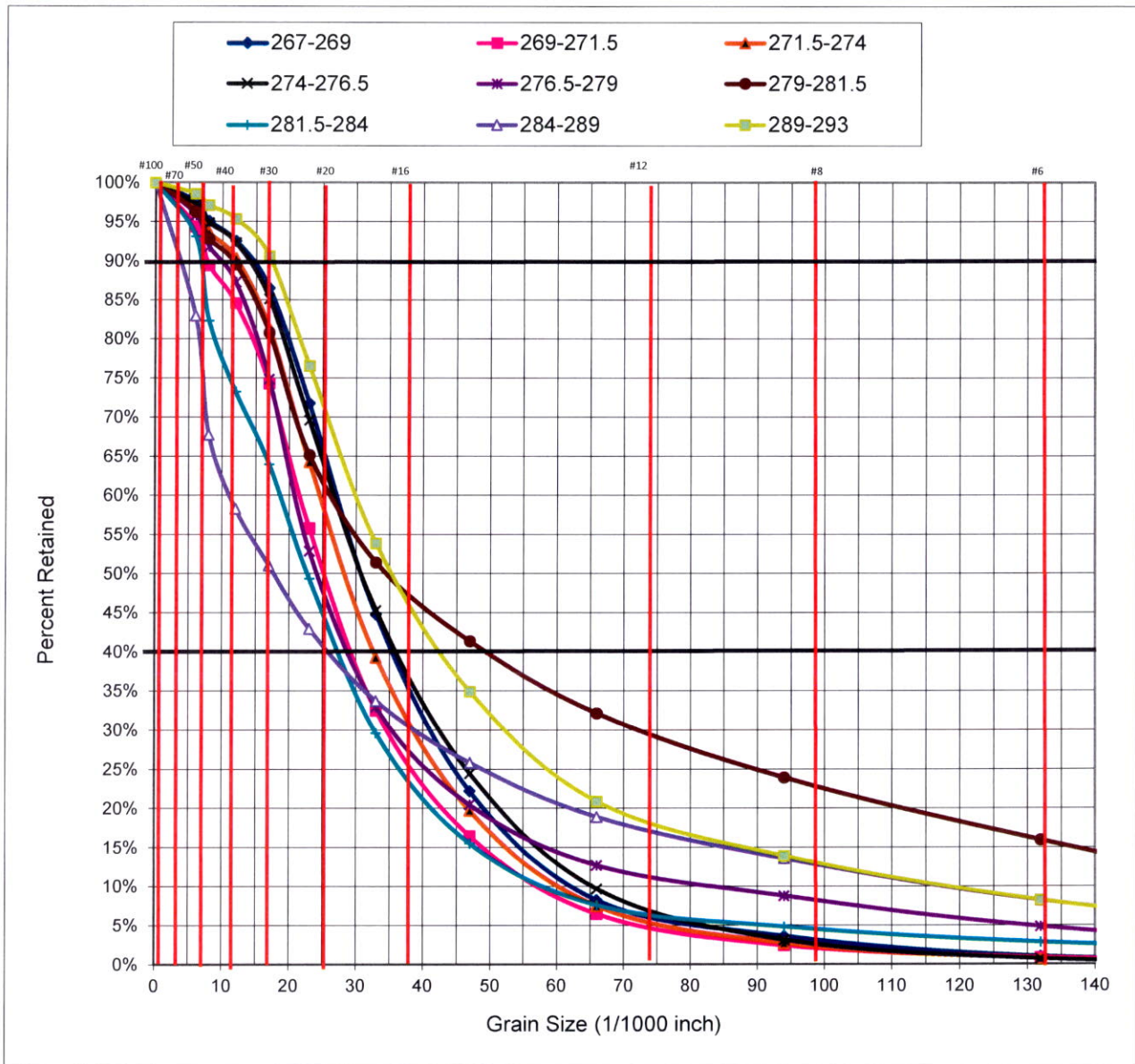
OCT 02 2025

Johnson Screens
651-636-3900



Water Rights
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SAND ANALYSIS



Job Name BDM RWS TH 10
Location Britton, SD
Driller Steffi Drilling

Sample ID 1/16/2024
Analyzed by: Duvall, Steven
Date: 1/16/2024

Casing ϕ 12 in
Screen ϕ 12 in

Desired Yield TBD
SWL (ft)

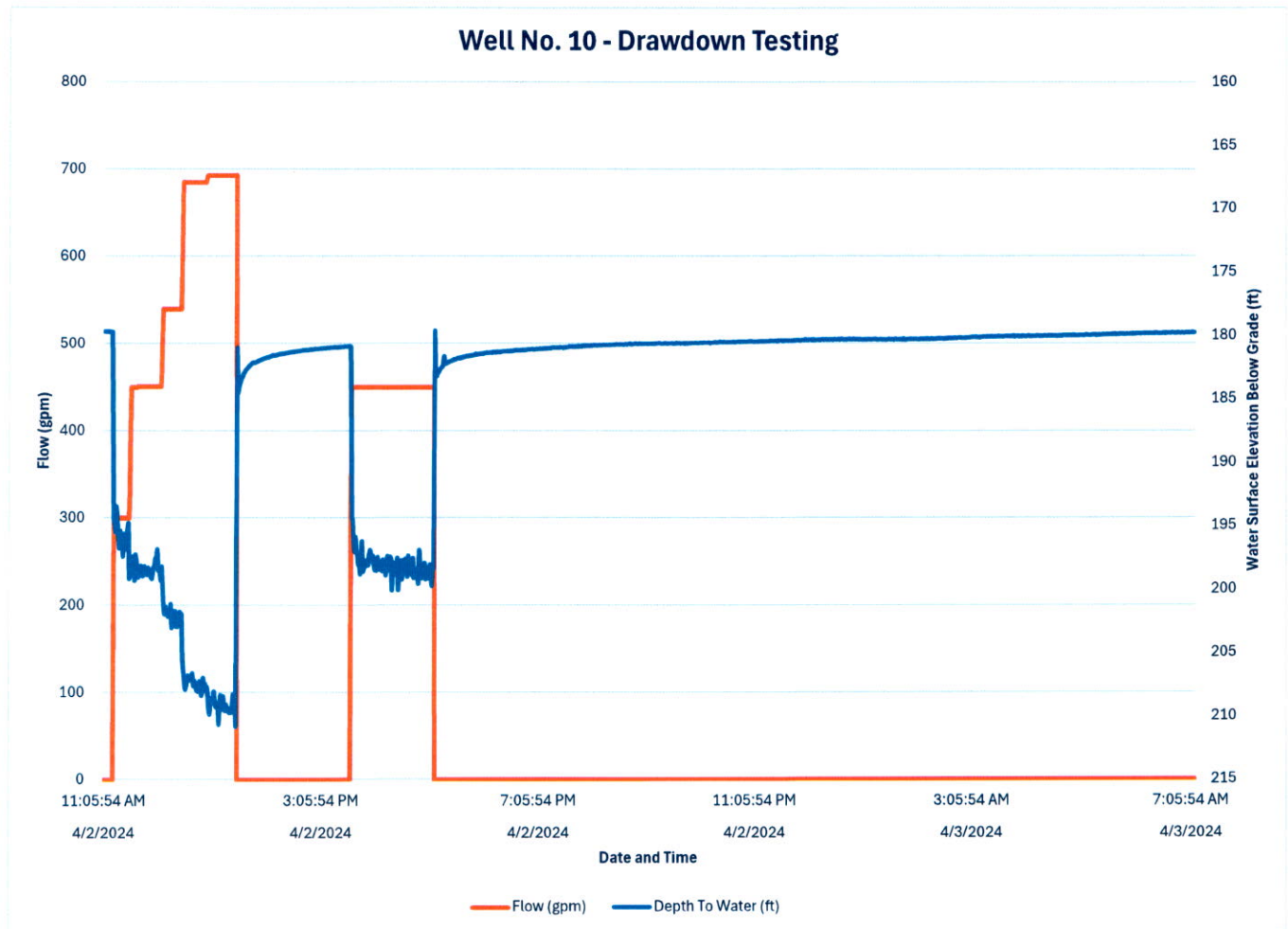
Recommended Slot Size: 30 slot (0.030") screen from 267' to 293' bgs.
Recommended Gravel Pack: Red Flint #30

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

Prepared by: adm_jryl

Send Samples to 1950 Old Highway 8, New Brighton, MN 55112

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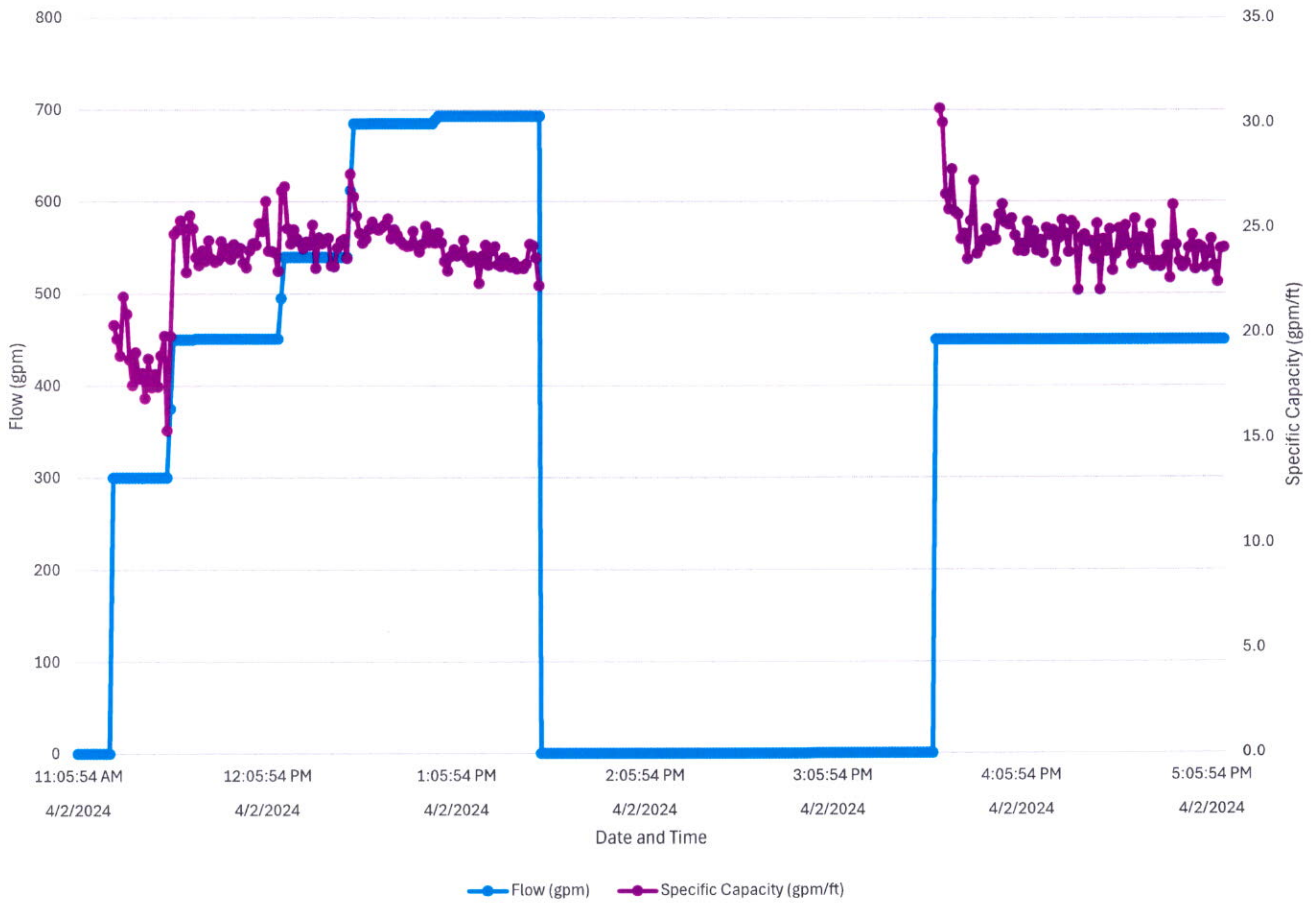


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Well No. 10 - Specific Capacity



Rodriguez, Rachel

From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 3:59 PM
To: Rod Kappes
Subject: Well No. 11 Data for Water Permit
Attachments: BDM #11 Test Pump Manual 2024 05 15.pdf; BDM WLP11 Well Alignment.pdf; Sieve Analysis - BDM Rural Water Systems TH 11- Britton SD 1-15-24 r1.pdf; Well 11 Drawdown and Specific Capacity Test Results.pdf

Here is the Well No. 11 data for BDM.

Bergie

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Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT

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(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com

Owner: BDM – Britton SD

Tested by: Brandon S & Adam P

Date: 5/15/2024

Well Information:

Length of Casing: 243'

Length of Screen: 26'

Total Well Depth: 269'

Static Water Level: 154.64'

Pump Capacity: _____

Unique Well# : New Well #11

GPS: 45 49 51.10N 97 40 13.20W

Totalizer: Start: 19192000 Stop: 19239300

Motor HP 60 Voltage 460

Motor MFG: Franklin Electric

Pump Model & MFG: Franklin Electric 700

GPM _____ PWL _____ HRS _____

TIME	GPM	PWL	COMMENTS
5/06/24			
10:25am		154.64'	Start pumping / Totalizer 19192000
10:27am	430	171.01'	No sand present
10:28am	430	171.21'	
10:29am	430	171.37'	
10:30am	430	172.10'	Totalizer 19194200
10:31am	430	171.69'	No sand present
10:32am	430	172.07'	
10:33am	430	172.25'	
10:35am	430	172.43'	Totalizer 19196300
10:37am	430	172.49'	
10:38am	430	172.69'	
10:39am	430	172.24'	
10:40am	433	172.47'	Totalizer 19198500
10:44am	433	172.76'	
10:45am	435	172.72'	Totalizer 19200700
10:50am	550	178.65'	Increase flow rate / Totalizer 19202800
10:51am	550	178.93'	No sand present
10:52am	550	179.27'	
10:53am	550	179.34'	
10:54am	550	179.42'	
10:55am	570	179.64'	Totalizer 19205800
10:56am	570	179.56'	No sand present
10:57am	570	179.77'	
10:58am	570	179.63'	
10:59am	570	179.79'	
11:00am	570	179.80'	Totalizer 19208500
11:02am	570	179.60'	No sand present

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.



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Water Rights Program

(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com

Page 2

[illegible]

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

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Water Rights
Program

JOB: BDM Britton SD

WELL ALIGNMENT
DATE:

WELL NO.: WLP 11

DEPTH IN FEET	CASING MEAS.	DIRECTION OF MEASUREMENT		CASING MEAS.	DIRECTION OF MEASUREMENT	
		AMT OF DRIFT	CAS'G DRIFT INCHES		AMT OF DRIFT	CAS'G DRIFT INCHES
0	12	0	0	12	0	0
10	12	0	0	12	0	0
20	12	0	0	12	0	0
30	12	0	0	12	1/32	0.125
40	12	1/32	0.15625	12	1/32	0.15625
50	12	1/32	0.1875	12	1/32	0.1875
60	12	1/32	0.21875	12	1/32	0.21875
70	12	1/32	0.25	12	0	0
80	12	1/16	0.5625	12	1/32	0.28125
90	12	1/16	0.625	12	1/32	0.3125
100	12	1/8	1.375	12	1/16	0.6875
110	12	1/8	1.5	12	1/16	0.75
120	12	1/16	0.8125	12	1/16	0.8125
130	12	1/8	1.75	12	3/32	1.3125
140	12	3/16	2.8125	12	3/32	1.40625
150	12	1/8	2	12	1/8	2
160	12	3/16	3.1875	12	3/16	3.1875
170	12	3/16	3.375	12	3/16	3.375
180	12	1/4	4.75	12	3/16	3.5625
190	12	1/4	5	12	3/16	3.75
200	12	1/4	5.25	12	3/16	3.9375
210	12	1/4	5.5	12	3/16	4.125
220	12	1/4	5.75	12	3/16	4.3125
230	12	1/4	6	12	1/4	6
240	12	1/4	6.25	12	1/4	6.25
250	12		0	12		0
260	12		0	12		0
270	12		0	12		0
280	12		0	12		0
290	12		0	12		0
300	12		0	12		0
310	12		0	12		0
320	12		0	12		0
330	12		0	12		0

WELL ALIGNMENT
WORKSHEET

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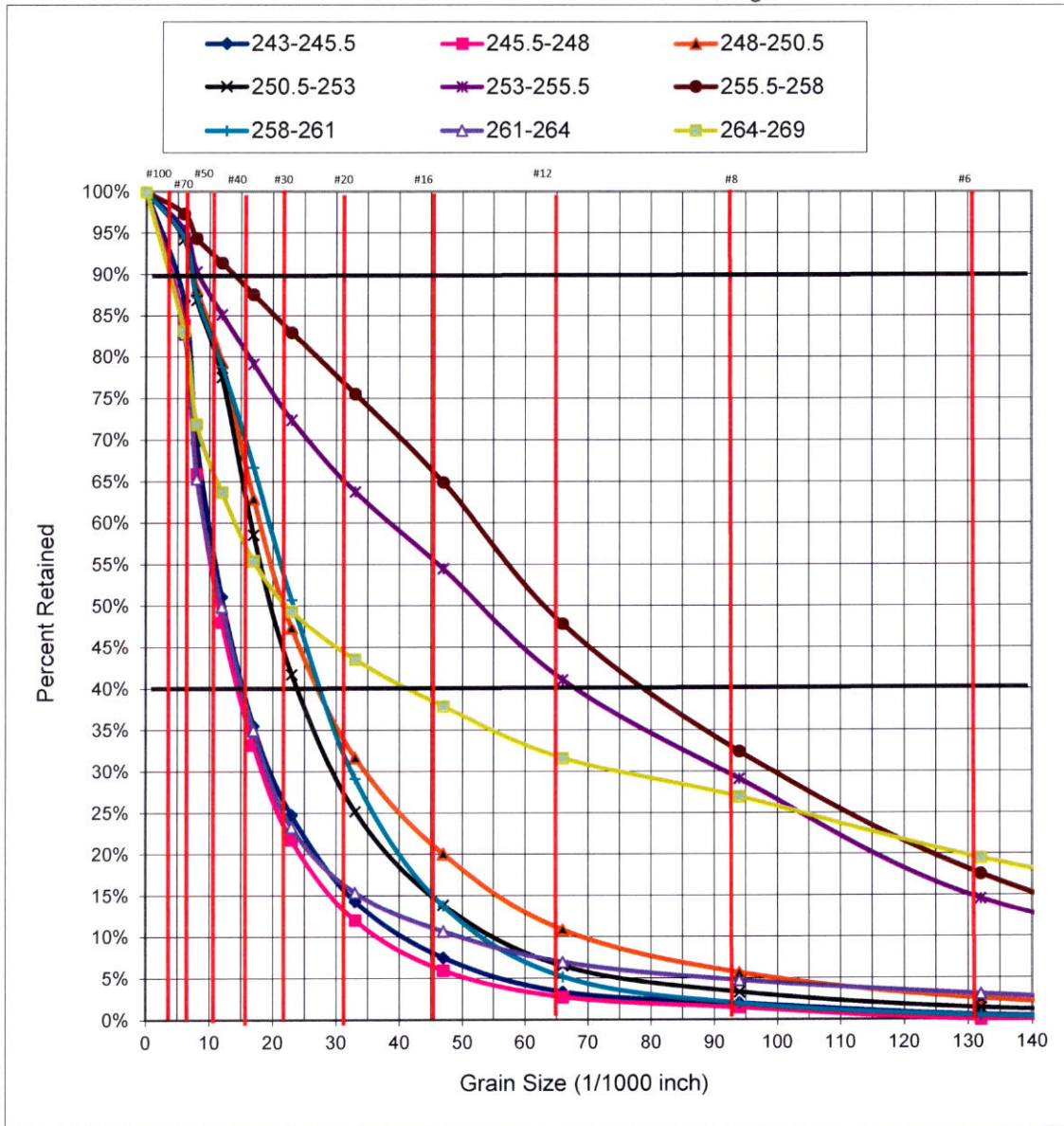
Johnson Screens
651-636-3900



Johnson
Screens

Water Rights
Program

SAND ANALYSIS



Job Name BDM RWS - TH 11
Location Britton SD
Driller Steffl Drilling

Sample ID 1/15/2024
Analyzed by: Duvall, Steven
Date: 1/15/2024

Casing ϕ 12 in
Screen ϕ 12 in

Desired Yield TBD
SWL (ft)

Recommended Slot Size: 30 slot (0.030") screen from 243' to 269' bgs.
Recommended Gravel Pack: Red Flint #30

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

Prepared by: adm_jryl

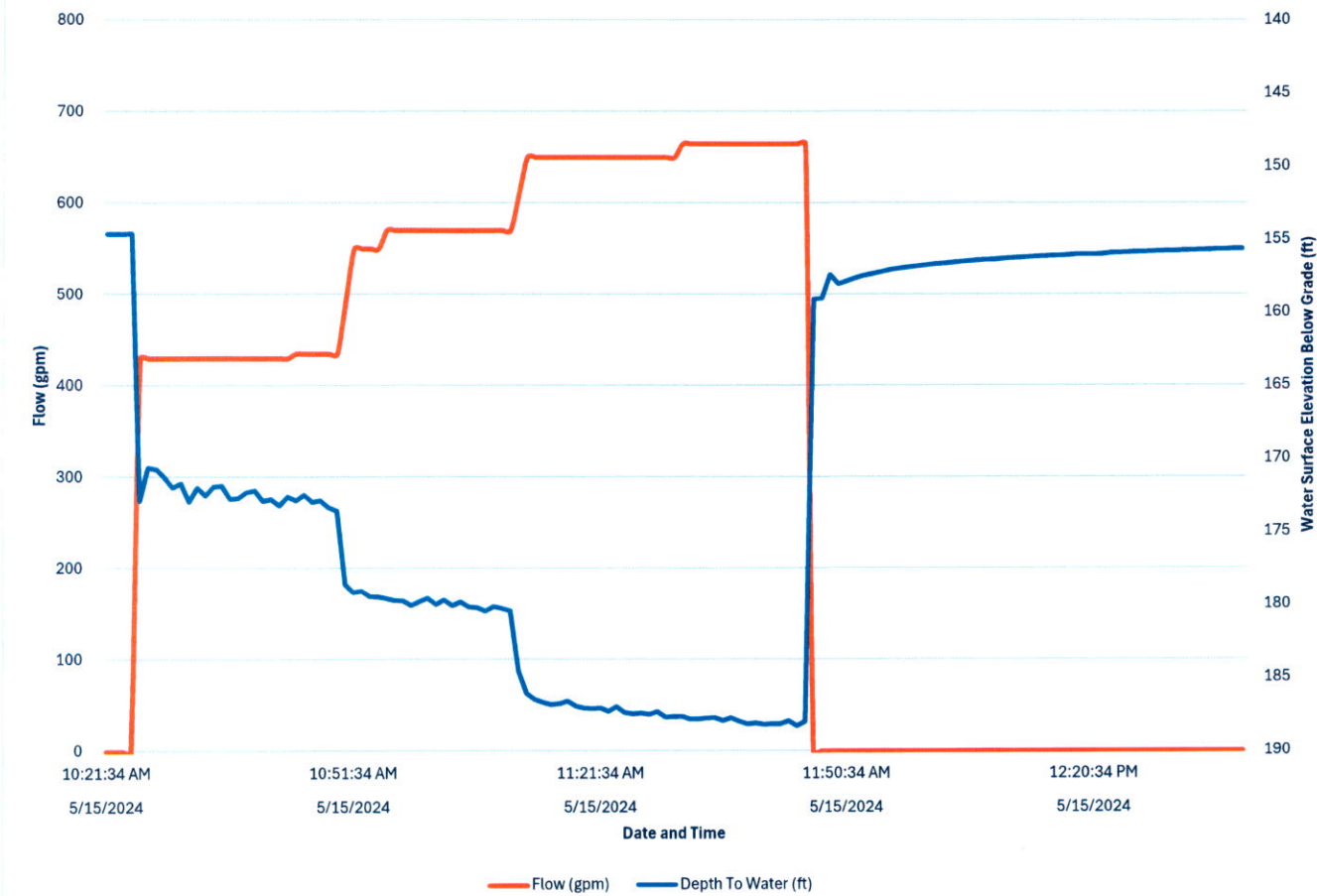
Send Samples to 1950 Old Highway 8, New Brighton, MN 55112

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Program

Well No. 11 - Drawdown Testing

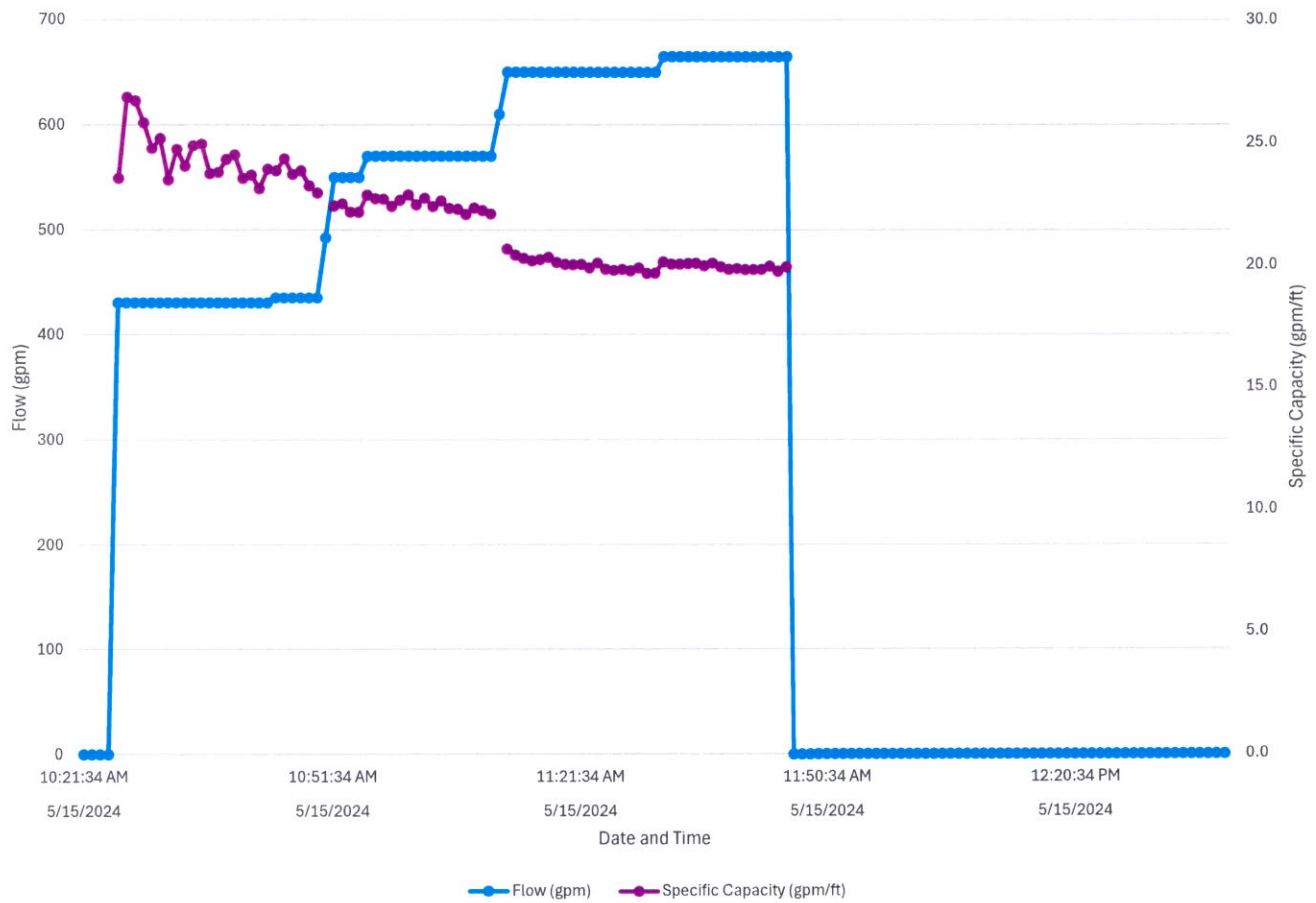


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Program

Well No. 11 - Specific Capacity



Rodriguez, Rachel

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From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 4:00 PM
To: Rod Kappes
Subject: Well No. 12 Data - Water Permit - BDM
Attachments: BDM #12 Test Pump Manual.pdf; BDM WLP12 Well Alignment.pdf; Sieve Analysis - BDM Rural Water Systems TH 12- Britton SD 1-15-24 r1.pdf; Well 12 Drawdown and Specific Capacity Test Results.pdf

OCT 02 2025

Water Rights
Program

Here is the data from Well No. 12.

Bergie



Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT

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Water Rights
Program(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com**Owner:** BDM – Britton SD
Tested by: Brandon S & Adam P
Date: 5/07/2024**Unique Well# :** New Well #12
GPS: 45 49 59.80N 97 40 05.20W
Totalizer: Start: 18897100 Stop: 18950500**Well Information:**Length of Casing: 255'Motor HP 60 Voltage 460Length of Screen: 17'Motor MFG: Franklin ElectricTotal Well Depth: 272'Pump Model & MFG: Franklin Electric 700Static Water Level: 161.84'GPM PWL HRS Pump Capacity:

TIME	GPM	PWL	COMMENTS
5/07/24			
3:10pm		184.56'	Start pumping / Totalizer 18897100
3:11pm		184.43'	
3:12pm		184.54'	
3:13pm	440	183.39'	Adjusted flow
3:14pm	440	183.62'	No sand present
3:15pm	440	184.32'	
3:16pm	440	183.42'	
3:17pm	440	184.19'	
3:18pm	440	184.10'	
3:19pm	440	184.09'	
3:20pm	440	184.56'	
3:21pm	440	184.31'	
3:22pm	440	184.39'	
3:23pm	440	184.87'	
3:24pm	440	184.67'	No sand present
3:25pm	440	184.42'	Totalizer 18903700
3:26pm	440	184.56'	
3:27pm	440	184.27'	
3:28pm	440	184.32'	
3:29pm	440	184.47'	
3:30pm	575	184.69'	Increased flow rate / Totalizer 18905900
3:31pm	575	190.12'	
3:32pm	575	190.33'	No sand present
3:33pm	575	190.81'	
3:34pm	575	190.60'	
3:35pm	575	190.21'	
3:36pm	575	190.82'	

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

Page 2

TIME	GPM	PWL	COMMENTS
3:37pm	575	191.05'	
3:38pm	575	191.57'	
3:39pm	575	191.18'	
3:40pm	575	191.13'	Totalizer 18911600
3:41pm	575	191.43'	
3:42pm	575	191.68'	No sand present
3:43pm	575	191.37'	
3:44pm	575	191.66'	
3:45pm	575	191.54'	
3:46pm	575	191.41'	
3:47pm	575	191.50'	
3:48pm	575	191.37'	
3:49pm	575	191.49'	
3:50pm	753	191.53'	Increase flow rate / Totalizer 18917400
3:51pm	753	200.87'	
3:52pm	753	203.89'	No sand present
3:53pm	753	203.93'	
3:54pm	753	204.31'	
3:55pm	753	203.88'	
3:56pm	753	204.23'	
3:57pm	753	204.39'	
3:58pm	753	204.33'	
3:59pm	753	204.46'	
4:00pm	753	204.25'	
4:01pm	753	204.79'	
4:02pm	753	204.58'	
4:03pm	753	204.75'	Totalizer 18927200
4:04pm	753	204.77'	
4:05pm	753	204.86'	No sand present
4:06pm	753	204.95'	
4:07pm	753	205.01'	
4:08pm	753	205.04'	
4:09pm	753	205.15'	
4:10pm	753	205.39'	
4:11pm	753	205.31'	

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

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Page 3

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

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Water Rights
Program

JOB: BDM Britton SD

WELL ALIGNMENT
DATE:

WELL NO.: WLP 12

DEPTH IN FEET	CASING MEAS.	DIRECTION OF MEASUREMENT		CASING MEAS.	DIRECTION OF MEASUREMENT	
		AMT OF DRIFT	CAS'G DRIFT INCHES		AMT OF DRIFT	CAS'G DRIFT INCHES
0	12	0	0	12	0	0
10	12	0	0	12	1/32	0.0625
20	12	0	0	12	0	0
30	12	0	0	12	1/32	0.125
40	12	1/32	0.15625	12	1/32	0.15625
50	12	1/32	0.1875	12	1/32	0.1875
60	12	1/32	0.21875	12	1/32	0.21875
70	12	1/32	0.25	12	0	0
80	12	1/16	0.5625	12	1/32	0.28125
90	12	1/16	0.625	12	1/32	0.3125
100	12	1/8	1.375	12	1/16	0.6875
110	12	1/8	1.5	12	3/32	1.125
120	12	1/16	0.8125	12	1/16	0.8125
130	12	1/8	1.75	12	3/32	1.3125
140	12	3/16	2.8125	12	1/8	1.875
150	12	1/4	4	12	1/8	2
160	12	3/16	3.1875	12	3/16	3.1875
170	12	3/16	3.375	12	3/16	3.375
180	12	1/4	4.75	12	3/16	3.5625
190	12	1/4	5	12	3/16	3.75
200	12	1/4	5.25	12	3/16	3.9375
210	12	1/4	5.5	12	3/16	4.125
220	12	1/4	5.75	12	1/4	5.75
230	12	1/4	6	12	5/16	7.5
240	12	3/16	4.6875	12	5/16	7.8125
250	12	3/16	4.875	12	5/16	8.125
260	12		0	12		0
270	12		0	12		0
280	12		0	12		0
290	12		0	12		0
300	12		0	12		0
310	12		0	12		0
320	12		0	12		0
330	12		0	12		0

WELL ALIGNMENT
WORKSHEET

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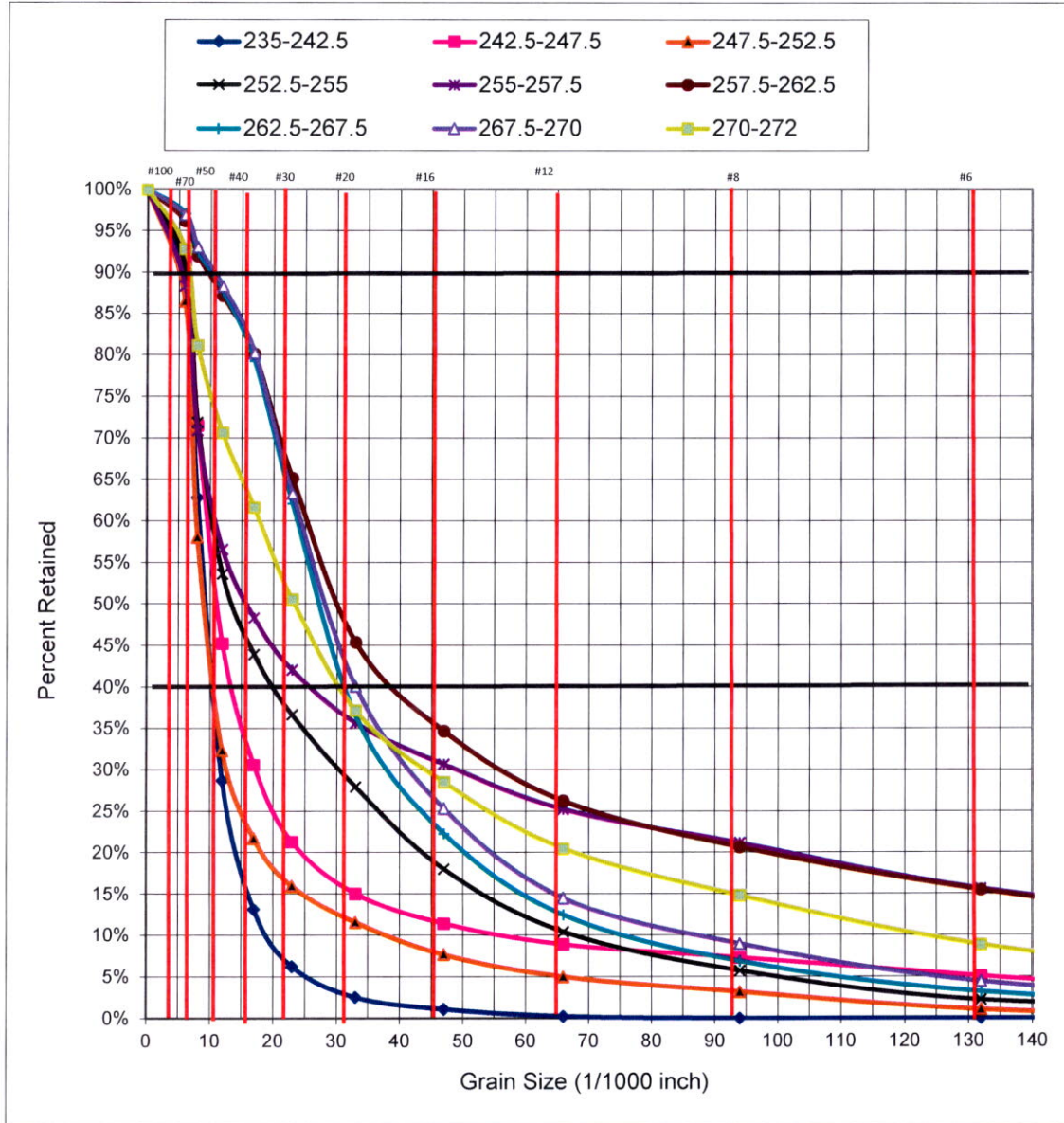
Water Rights
Program

Johnson Screens
651-636-3900



Johnson
Screens

SAND ANALYSIS



Job Name BDM RWS TH 12
Location Britton SD
Driller Steffi Drilling

Sample ID 1/15/2024
Analyzed by: Duvall, Steven
Date: 1/18/2024

Casing ϕ 12 in
Screen ϕ 12 in

Desired Yield TBD
SWL (ft)

Recommended Slot Size: 30 slot (0.030") screen from 255' to 272' bgs.
Recommended Gravel Pack: Red Flint #30

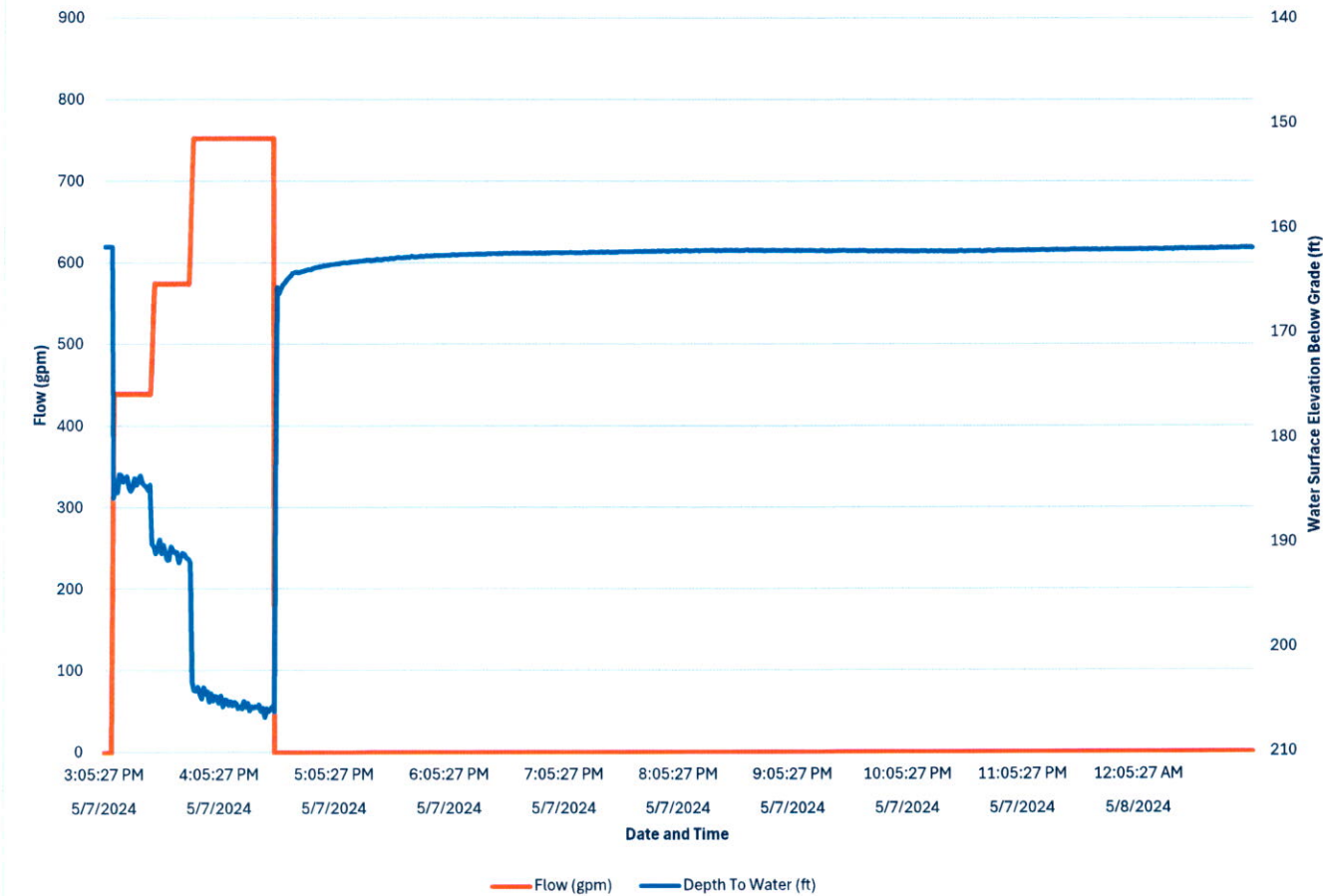
Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

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Water Rights
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Well No. 12 - Drawdown Testing

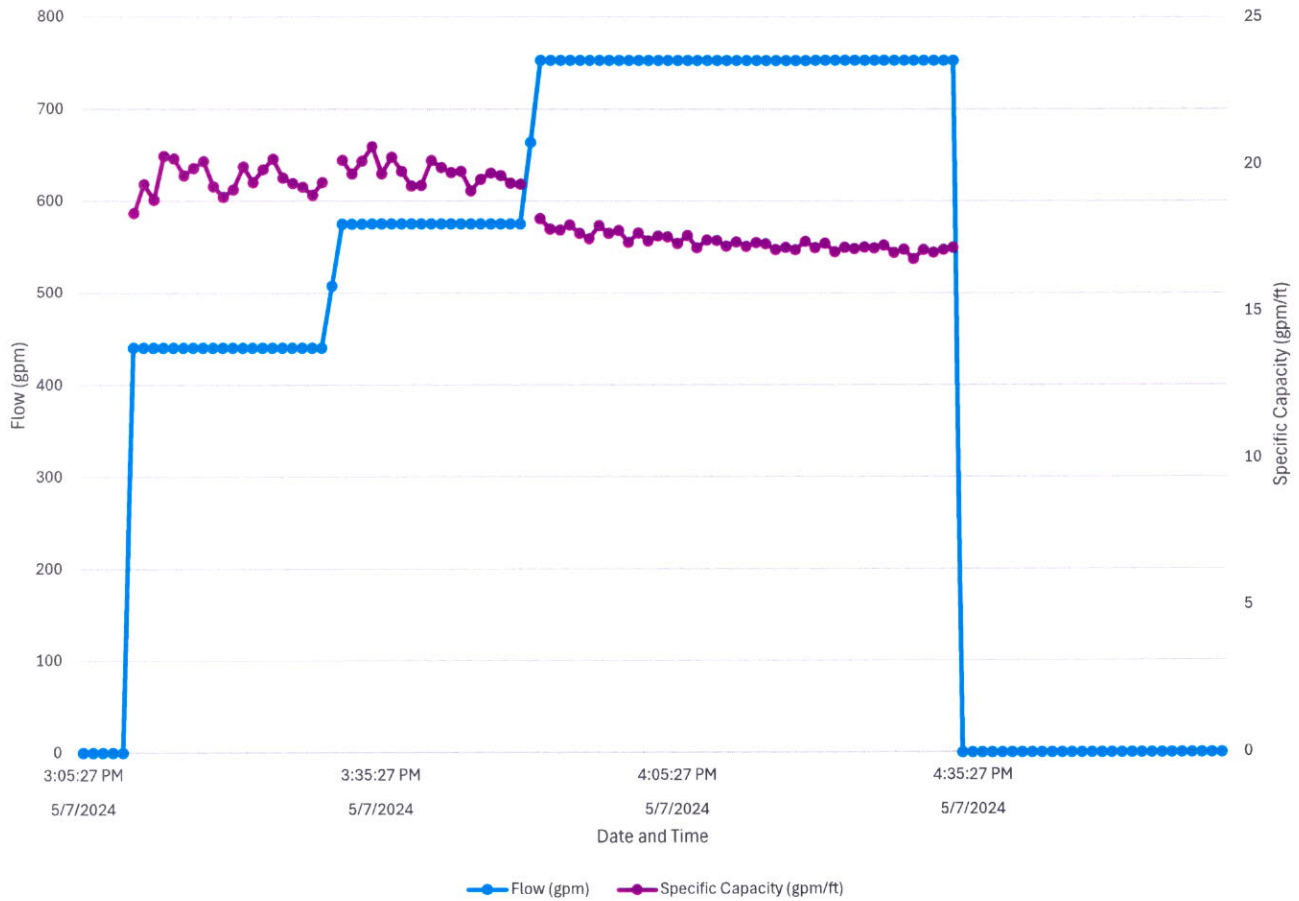


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Program

Well No. 12 - Specific Capacity



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Well No. 12 - Drawdown Testing (shorten recovery)



From: Brian R. Bergantine <Brian.Bergantine@AE2S.com>
Sent: Wednesday, September 24, 2025 4:03 PM
To: Rod Kappes
Subject: Well No. 13 Data for Water Permit - BDM
Attachments: BDM #13 Test Pump Manual.pdf; BDM WLP13 Well Alignment.pdf; Sieve Analysis - BDM Rural Water Systems TH 13 1-16-24 r1.pdf; Well 13 Drawdown and Specific Capacity Test Results.pdf

Here is the data from Well No. 13 for the Water Permit.



**Top 5 Best Firm
To Work For**



Brian R. Bergantine, PE

Project Quality Director

Mobile: (701) 866-0620

Email: Brian.Bergantine@AE2S.com

Address: 4170 28th Ave S

Fargo, ND 58104

Office Phone: (701) 364-9111

Licenses: ND, MN, SD, IL, UT

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**Water Rights
Program**

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Water Rights
Program(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com**Owner:** BDM – Britton SD
Tested by: Brandon S & Adam P
Date: 5/07/2024**Unique Well# :** New Well #13
GPS: 45 49 54.00N 97 40 05.20W
Totalizer: Start: 18852700 Stop: 18896500**Well Information:**Length of Casing: 253'Length of Screen: 16'Total Well Depth: 269'Static Water Level: 158.00'

Pump Capacity: _____

Motor HP 60 Voltage 460Motor MFG: Franklin ElectricPump Model & MFG: Franklin Electric 700

GPM _____ PWL _____ HRS _____

TIME	GPM	PWL	COMMENTS
5/07/24			
7:53am			Start test pump / Totalizer 18852700
7:58am			Adjusting flow
8:00am	465	169.83'	No sand present / Totalizer 18855000
8:01am	465	170.00'	
8:02am	465	170.20'	
8:03am	465	170.27'	
8:04am	465	170.47'	
8:05am	465	170.30'	No sand present / Totalizer 18857400
8:08am	465	170.52'	
8:09am	465	170.64'	
8:10am	465	170.80'	No sand present
8:11am			Totalizer 18860200
8:12am	465	170.74'	
8:13am	465	170.80'	
8:14am	465	170.74'	
8:15am	465	170.91'	Totalizer 18862300
8:16am	465	170.97'	No sand present
8:17am	465	171.13'	
8:18am	465	170.93'	
8:19am	465	171.10'	
8:20am	465	171.03'	Totalizer 18864300 / Adjust flow
8:21am	529	173.35'	No sand present / Totalizer 18864700
8:22am	529	174.50'	
8:23am	529	174.62'	
8:24am	529	174.59'	
8:25am	529	174.62'	
8:26am	529	174.57'	Totalizer 18867800

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.



OCT 02 2025

Water Rights Program

(320) 235-8484
2295 66th Ave NE
Willmar, MN 56201-9246
steffl@waterwelldrilling.com

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The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or capacity or both could change the outcome of these results.

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Water Rights
Program

JOB: BDM Britton SD

WELL ALIGNMENT
DATE:

WELL NO.: WLP 13

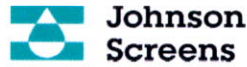
DEPTH IN FEET	CASING MEAS.	DIRECTION OF MEASUREMENT		CASING MEAS.	DIRECTION OF MEASUREMENT	
		AMT OF DRIFT	CAS'G DRIFT INCHES		AMT OF DRIFT	CAS'G DRIFT INCHES
0	12	0	0	12	0	0
10	12	0	0	12	0	0
20	12	0	0	12	1/32	0.09375
30	12	1/32	0.125	12	0	0
40	12	1/32	0.15625	12	1/16	0.3125
50	12	1/16	0.375	12	3/16	1.125
60	12	1/32	0.21875	12	3/16	1.3125
70	12	1/16	0.5	12	1/4	2
80	12	3/32	0.84375	12	1/4	2.25
90	12	3/32	0.9375	12	5/16	3.125
100	12	1/8	1.375	12	5/16	3.4375
110	12	1/8	1.5	12	5/16	3.75
120	12	3/32	1.21875	12	3/8	4.875
130	12	1/8	1.75	12	3/8	5.25
140	12	1/8	1.875	12	5/16	4.6875
150	12	3/16	3	12	3/8	6
160	12	3/16	3.1875	12	5/16	5.3125
170	12	1/4	4.5	12	3/8	6.75
180	12	1/4	4.75	12	5/16	5.9375
190	12	1/4	5	12	5/16	6.25
200	12	1/4	5.25	12	3/8	7.875
210	12	3/16	4.125	12	3/8	8.25
220	12	1/4	5.75	12	3/8	8.625
230	12	5/16	7.5	12	3/8	9
240	12	5/16	7.8125	12	5/16	7.8125
250	12	1/4	6.5	12	5/16	8.125
260	12		0	12		0
270	12		0	12		0
280	12		0	12		0
290	12		0	12		0
300	12		0	12		0
310	12		0	12		0
320	12		0	12		0
330	12		0	12		0

WELL ALIGNMENT
WORKSHEET

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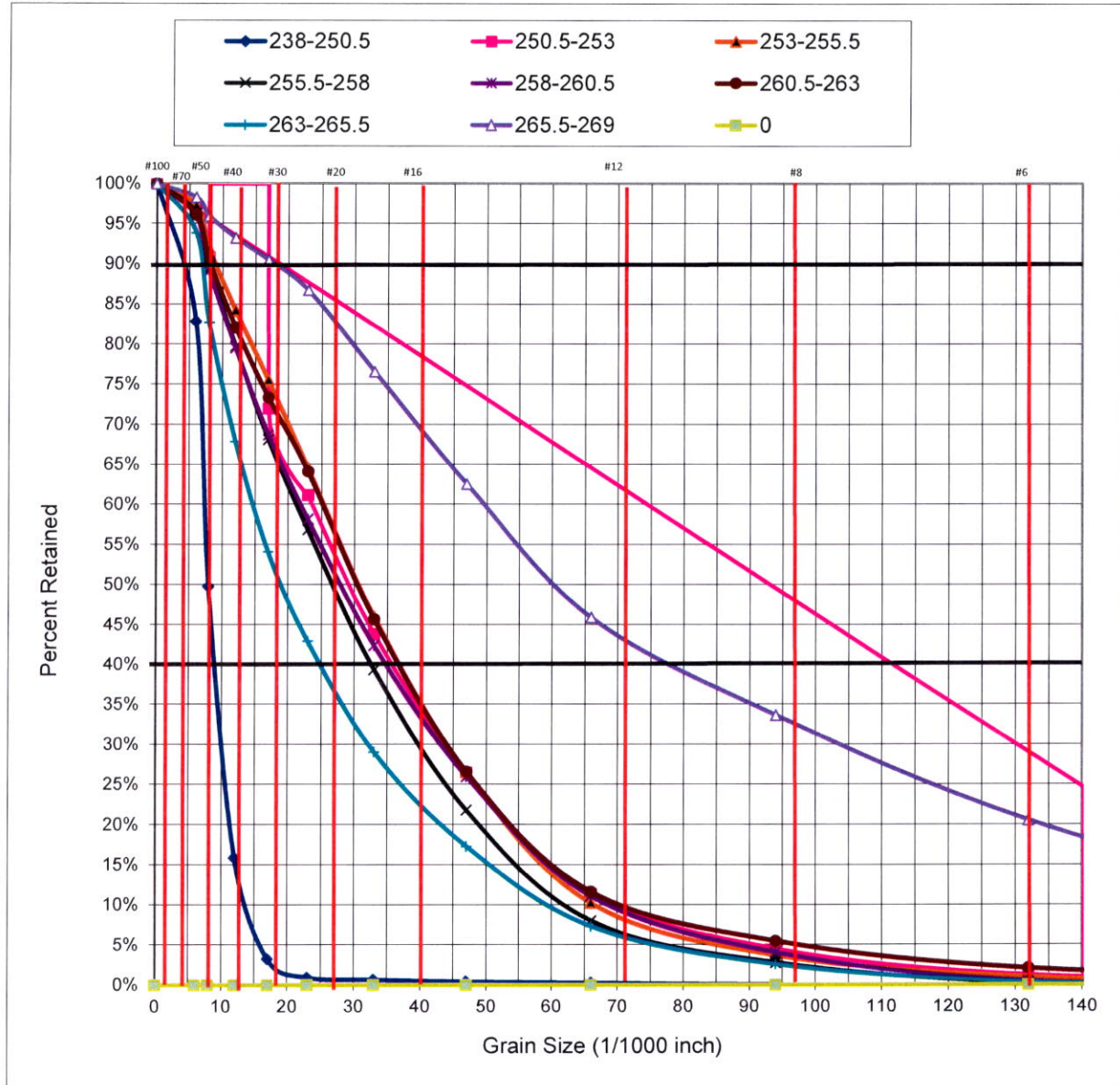
OCT 02 2025

Johnson Screens
651-636-3900



Water Rights
Program

SAND ANALYSIS



Job Name BDM RWS TH 13
Location Britton, SD
Driller Steffl Drilling

Sample ID 1/16/2024
Analyzed by: Duvall, Steven
Date: 1/16/2024

Casing ϕ 12 in
Screen ϕ 12 in

Desired Yield TBD
SWL (ft)

Recommended Slot Size: 40 slot (0.040") screen from 253' to 269' bgs.
Recommended Gravel Pack: Red Flint #40

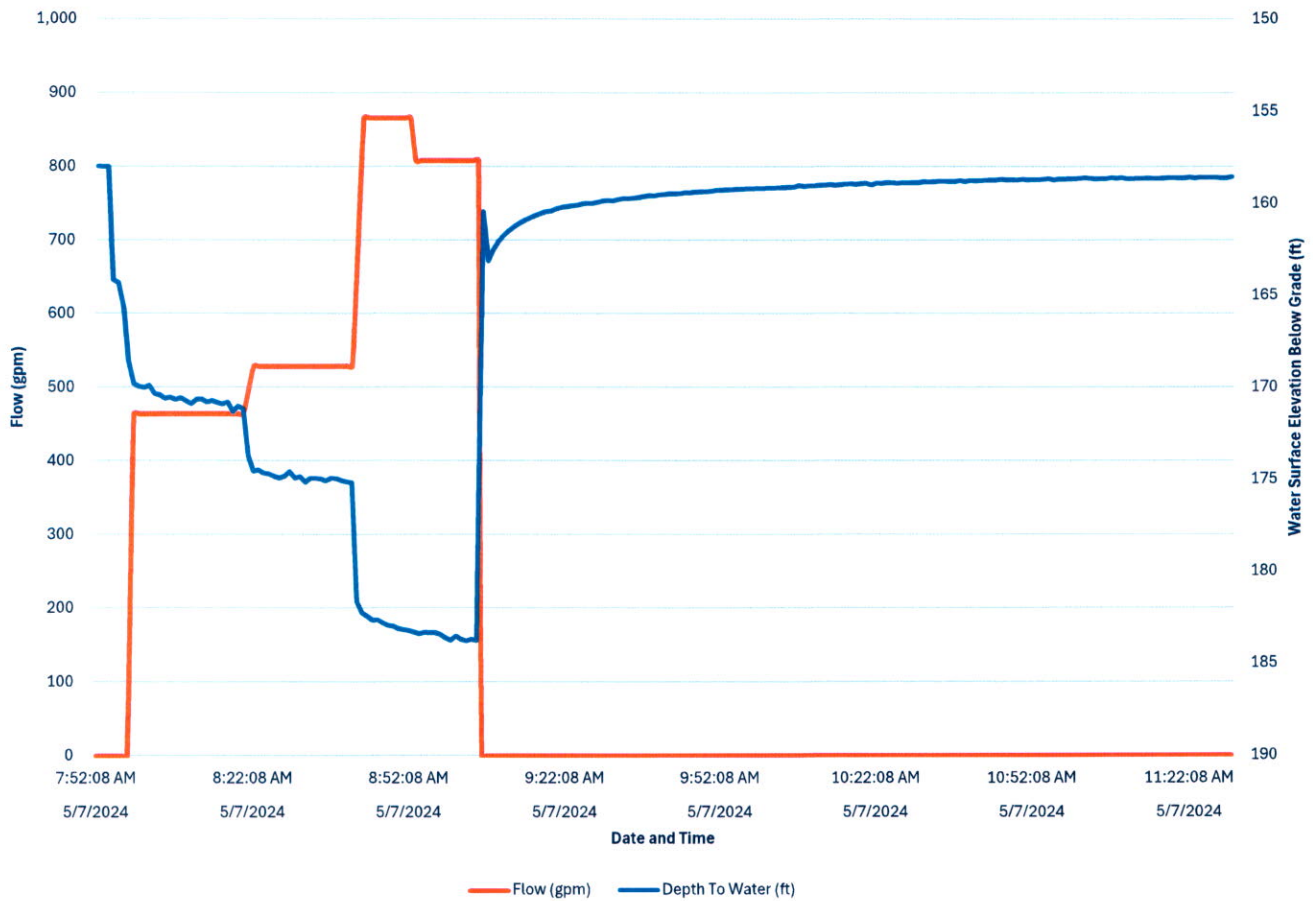
Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

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Water Rights
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Well No. 13 - Drawdown Testing

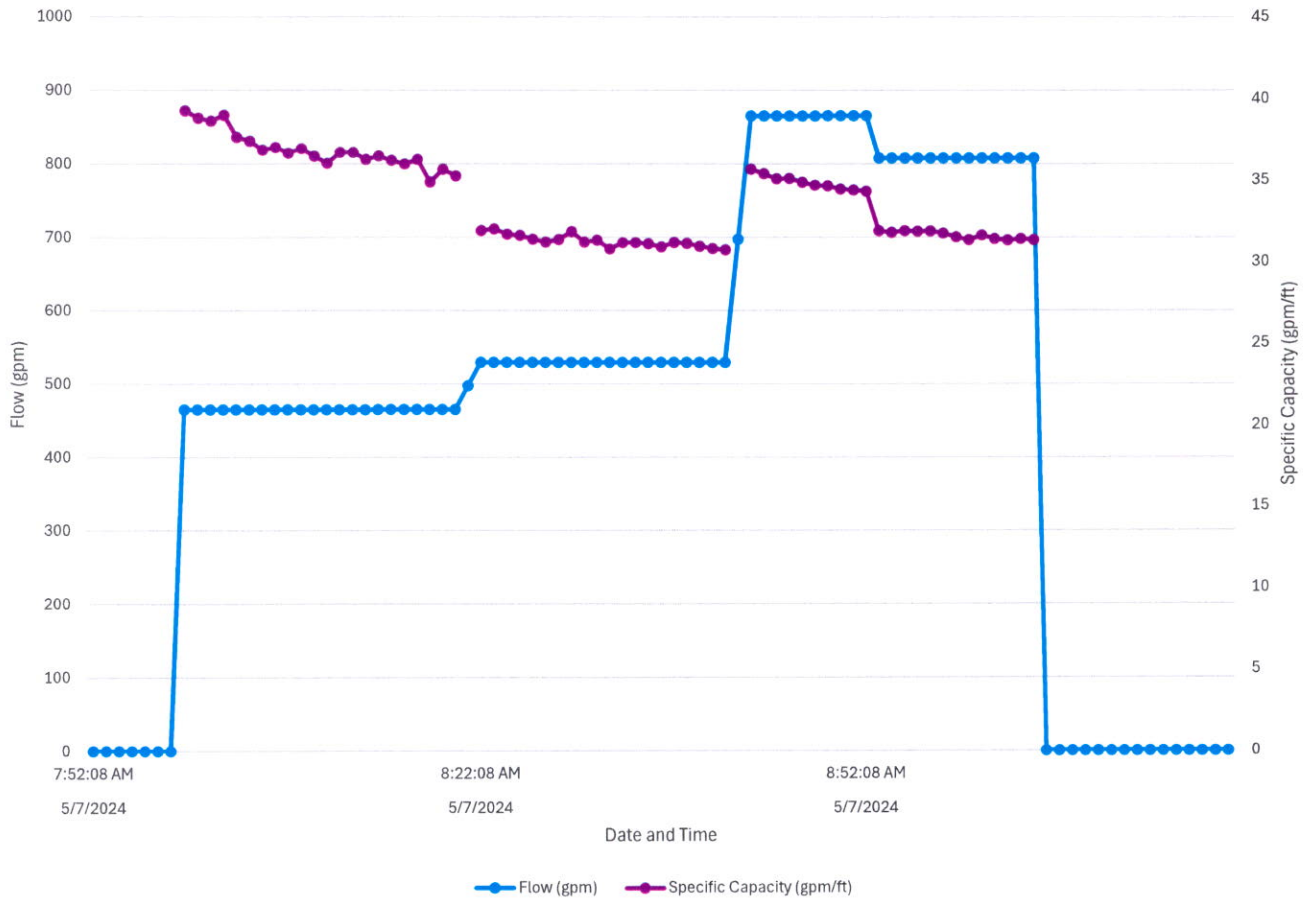


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Water Rights
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Well No. 13 - Specific Capacity



RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date October 14th, 2025

RECEIVED OF B.D.M. Rural Water System Inc PO Box 49 Britton SD 57430

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	\$ <u>1650.00</u>
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>200.00</u>
Fee for Filing Transfer Form _____	\$ _____
Fee for _____	\$ _____
Fee for Issuing New Well Driller's License No. _____	\$ _____
Fee for Renewal of Well Driller's License No. _____	\$ _____
Fee for Issuing Well Pump Installer's License No. _____	\$ _____
Fee for Renewal of Well Pump Installer's License No. _____	\$ _____
(Any Other Work Provided by Law) TOTAL	\$ <u>1850.00</u>

By Mark Mayer
Chief Engineer

Duvall, Ron

From: Duvall, Ron
Sent: Friday, February 13, 2026 11:01 AM
To: Duvall, Ron
Subject: FW: Voice Mail (1 minute and 1 second)
Attachments: audio.mp3

From: BDM RURAL WATER (External) <noreply@skype.voicemail.microsoft.com>
Sent: Thursday, February 12, 2026 11:05 AM
To: McIntire, Mark <Mark.McIntire@state.sd.us>
Subject: Voice Mail (1 minute and 1 second)

hey mark this is tom jones calling from BDM real water up in britain hope your day is going well umm new to this whole umm the way this thing works this is obviously i just started january 1st so i apologize if i'm getting antsy or or or doing or stepping out at all but just following up to see if there's anything else that we need to be doing on the water permit side of things i think that everything had gone through we talked to and it was just awaiting a signature or so but again just wanting to it's a big it's obviously a big thing for us and we just want to make sure that there's nothing that's held up or any problems or anything so reaching but if you could give me a call back at 605-448-8335 again tom jones with BDM water 605-448-8335 thank you very much and we'll talk to you soon have a great day bye bye

You received a voice mail from [BDM RURAL WATER](#).

Thank you for using Transcription! If you don't see a transcript above, it's because the audio quality was not clear enough to transcribe.

[Set Up Voice Mail](#)



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and NATURAL RESOURCES**

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PIERRE SD 57501-3182
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**RECOMMENDATION OF ACTING CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8988-3, B.D.M. Rural Water System, Inc.**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the acting Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Water Permit Application No. 8988-3, B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430.

The acting Chief Engineer is recommending APPROVAL of Application No. 8988-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board with the following qualifications:

1. The wells approved under this Permit are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit must control 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 Permit holder must report to the Chief Engineer annually the amount of water withdrawn from the Middle James: Columbia Aquifer.
3. This Permit, Water Right No. 4908-3, and Permit Nos. 6371-3 and 8533-3, all combined, authorize a total appropriation of up to 3,924 acre-feet annually.

See report on application for additional information.

for

Mark Mayer, PE
Director of Office of Water
December 11, 2025

Report to the Chief Engineer
On Water Permit Application No. 8988-3
B.D.M. Rural Water System

December 11th, 2025

Water Permit Application No. 8988-3 proposes to appropriate an additional 1,300 acre-feet of water annually, and increase the maximum diversion rate by an additional 3.47 cubic feet of water per second (cfs), to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3. Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3, all together, authorize a combined total appropriation of up to 2,624 acre-feet, at a maximum diversion rate of 5.0 cfs, from a total of 13 wells. This application proposes to obtain the additional water from five of the thirteen existing wells (Wells 9 through 13), all completed into the Middle James: Columbia aquifer (300 feet deep) located in the E ½ NE ¼ NE ¼ Section 9-T127N-R57W. This application, if approved, Water Right No. 4908-3, and Permit Nos. 6371-3 and 8533-3, all combined, will authorize a total appropriation of up to 3,924 acre-feet annually, at a maximum diversion rate of 8.47 cfs. This site is located approximately five miles northeast of Britton, SD in Marshall County.

AQUIFER: Middle James: Columbia (MJ:C)

HYDROGEOLOGY:

The Columbia management unit of the Middle James aquifer is a deposit of glacial outwash composed of sorted gravel, sand, and silt (Koch and Bradford, 1976). In South Dakota, it underlies approximately 315,900 acres of Brown and Marshall Counties (Figure 1) with an estimated 1,376,000 acre-feet of recoverable water in storage (Hedges and others, 1982). It should be noted that the Middle James aquifer does extend into North Dakota (North Dakota, 2024). However, the portion of the Middle James aquifer that extends into North Dakota will not contribute to determining the hydrological budget of the Middle James: Columbia aquifer in South Dakota. The aquifer is primarily under confined or artesian conditions (Koch, 1975). It is hydrologically connected to the Deep James and Elm aquifers (Koch and Bradford, 1976) and possibly the Niobrara Formation in Marshall County (Koch, 1975).

A water well completion report was submitted with this application (Water Rights, 2025d). The applicant intends to use this well as one of the wells to supply water under this application, if approved. The well is located in Section 9-T127N-R57W and was completed on September 13, 2023 (Water Rights, 2025d). The top of aquifer materials is 267 feet below ground surface, the static water level is 183 feet below ground surface, with a total saturated aquifer thickness of 28 feet (Water Rights, 2025d). Based on the data from the submitted well completion report and other nearby well completion reports, the aquifer for this application is under confined conditions at the well sites for this application and the surrounding area (Water Rights, 2025c & Water Rights, 2025d).

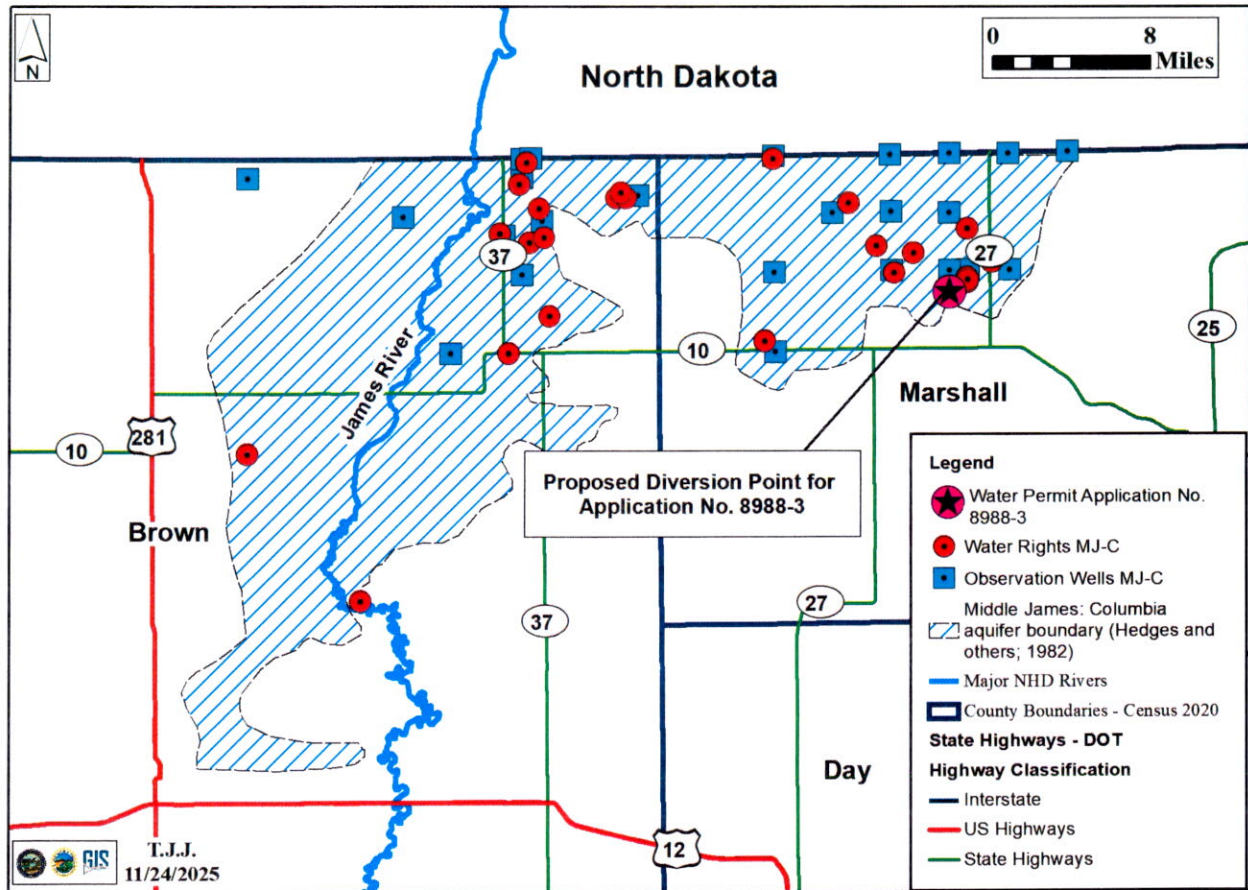


Figure 1. Map of the approximate Middle James: Columbia aquifer boundary (modified from: Hedges and others (1982)), the location of the existing diversion points for Water Permit Application No. 8988-3, and Middle James: Columbia aquifer observation wells and water rights/permits (Water Rights, 2025a and 2025b).

South Dakota Codified Law (SDCL) 46-2A-9

Pursuant to SDCL 46-2A-9,

“A permit to appropriate water may be issued only if there is a reasonable probability that unappropriated water is available for the applicant’s proposed use, the proposed diversion can be developed without unlawful impairment of existing domestic water uses and water rights, the proposed use is a beneficial use, and the permit is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board as defined by SDCL 46-2-9 and 46-2-11.”

This report will address the availability of unappropriated water and the potential for unlawful impairment of existing domestic uses and water rights within the Middle James: Columbia aquifer.

WATER AVAILABILITY:

Water Permit Application No. 8988-3 proposes to appropriate water from the Middle James: Columbia aquifer. The probability of unappropriated water being available from the aquifer can be evaluated by considering SDCL 46-6-3.1,

“No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source. An application may be approved, however, for withdrawals of groundwater from any groundwater formation older than or stratigraphically lower than the greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems.”

The applicant’s proposed use is for a water distribution system as defined by SDCL 46-1-6(17). However, the Middle James: Columbia aquifer is not older than or stratigraphically lower than the Greenhorn Formation. Therefore, the average annual recharge and average annual withdrawal rates to and from the Middle James: Columbia aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Middle James: Columbia aquifer is received primarily through infiltration of precipitation through overlying materials and inflow from adjacent hydrologically connected glacial aquifers (Koch and Bradford, 1976). Hedges and others (1985) estimated a recharge rate to range between 0.15 to 0.60 inches per year (in/yr) for confined aquifers should be used by management and development programs when no specific recharge rate is available. Using an areal extent of 315,900 acres estimated by Hedges and others (1985), the estimated recharge rate to the Middle James: Columbia aquifer ranges between 3,950 to 15,800 acre-feet per year for the South Dakota portion of the aquifer.

Discharge

Discharge from the Middle James: Columbia aquifer primarily occurs through well withdrawals and subsurface outflow to other glacial aquifers and sediments (Koch and Bradford, 1976). Currently, there are 26 water rights/permits authorized to appropriate water from the Middle James: Columbia aquifer (Water Rights, 2025c). Also, Water Right No. 5881-3 was previously listed as a Middle James: Columbia aquifer water right but has been determined to have been listed incorrectly in the water rights database and since been changed to the correct aquifer and will not be considered as contributing to the withdrawal from the Middle James: Columbia aquifer (Water Rights, 2025d).

Of the 12 non-irrigation water rights/permits authorized to appropriate water from the Middle James: Columbia aquifer, eight have an estimated annual use for each water right/permit as determined by their limiting diversion rate or annual volume as summarized in Table 1. The

amount of water that can be withdrawn was estimated by assuming the non-irrigation water rights/permits limited by an annual volume will withdraw their entire appropriated volume every year. It is estimated that non-irrigation water rights/permits limited only by a diversion rate will pump at their maximum permitted diversion rate for 60 percent of the time. The 60 percent estimation was established by Water Rights Staff to be a reasonable and safe assumption of average annual withdrawals by non-irrigation appropriations. Historically, the 60 percent estimate has been accepted by the Water Management Board. It should be noted that some of the water permits/rights listed on Table 1 are connected to rural water systems and use rural water rather than their local wells; so, they will not contribute to the annual withdrawal rate. This includes water rights for the City of Hecla and City of Britton which purchase all their water from the Brown Day Marshall (BDM) Rural Water System (Drinking Water, 2025). These Water Rights are exempt from nonuse of water for standby purposed as stated in Administrative Rule of South Dakota (ARSD) 74:02:01:37(2). The estimated average annual withdrawal rate for the Middle James: Columbia aquifer, non-irrigation water rights/permits is 381 acre-feet/year (Table 1) (Water Rights, 2025c).

The remaining four non-irrigation water rights/permits reported their annual use with an average of reported use from 2021 to 2025 shown on Table 2. It should be noted that BDM RWS Inc. reports their total use from all of their water rights/permits (Nos. 4908-3, 6371-3, and 8533-3). The reported average annual withdrawal rate for the Middle James: Columbia aquifer, non-irrigation water rights/permits is 1,619 acre-feet/year (Table 2) (Water Rights, 2025f). This Water Permit Application proposes to appropriate an additional 1,300 acres-feet to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3 (shown on Table 2) (Water Rights, 2025c). Combining the estimated use, reported use, and this application, if approved, the average annual withdrawal rate for the Middle James: Columbia aquifer, non-irrigation water rights/permits is approximately 3,300 acre-feet/year (Table 2 and 1) (Water Rights, 2025f and 2025c).

Table 1. Estimated annual use for non-irrigation water rights/permits authorized to divert water from the Middle James: Columbia aquifer (Water Rights, 2025c)

Permit No.	Name	Status	Uses	Authorized Diversion Rate (cfs)	Authorized Annual Volume (acre-feet)	Estimated Use (acre-feet/year)
1903-3*	CITY OF HECLA	License	MUN	0.300	0	0
3915-3*	CITY OF BRITTON	License	MUN	1.120	0	0
5047-3*	CITY OF HECLA	License	MUN	0.030	0	0
5220-3	SUNSET HUTTERIAN BRETHREN	License	DOM	0.220	0	96
5740-3	WHITE TOWNSHIP	Permit	COM	0.030	0	13
6528-3	LARSON LIVESTOCK INC	Permit	COM	0.333	0	145
6657-3	WESTWOOD HUTTERIAN BRETHREN INC	License	DOM	0.270	0	117
7130-3	SD WHEAT GROWERS	License	COM	0.022	0	10
COM Commercial, DOM Domestic, IND Industrial, MUN Municipal, RWS Rural Water System, *these Water Rights get their water from a separate system rather than local wells.					Total:	381

Table 2. Reported annual use for non-irrigation water rights/permits authorized to divert water from the Middle James: Columbia aquifer (Water Rights, 2025f; Kappes, 2025)

Permit No.	Name	Status	Uses	Authorized Diversion Rate (cfs)	Authorized Annual Volume (acre-feet)	Average Reported Use (acre-feet/year)
4908-3*	BROWN DAY MARSHALL RWS	License	MUN	1.000	N/A	1,551
6371-3*	BROWN DAY MARSHALL RWS	Permit	RWS	2.890	1,300	
8533-3*	BROWN DAY MARSHALL RWS	Permit	RWS	1.110	600	
8392-3	SUNSET HUTTERIAN BRETHREN	Permit	DOM	0.220	78	68
DOM Domestic, MUN Municipal, RWS Rural Water System *BDM RWS Inc. reports the combined total of their Water Rights/Permits					Total:	1,619

Currently, there are 14 irrigation water rights/permits appropriating water from the Middle James: Columbia aquifer (Water Rights, 2025c). Irrigation water rights/permits have been typically required to report their annual usage by submitting an irrigation questionnaire since 1979. The average annual withdrawal rate for the Middle James: Columbia aquifer irrigation water rights/permits that have reported over the period of record (1979 to 2024) is approximately 704 acre-feet per year (Table 3) (Water Rights, 2025a). To reflect the current development of irrigation water rights/permits more accurately, the average annual withdrawal rate for irrigation appropriations from 2015 to 2024 is approximately 421 acre-feet per year (Table 3) (Water Rights, 2025a).

Table 3. Reported historic irrigation use from the Middle James: Columbia aquifer (Water Rights, 2025a)

Year	No. of Permits	Reported Pumpage (acre-feet)
1979	26	1,300
1980	26	1,371
1981	26	1,037
1982	21	1,497
1983	22	1,503
1984	25	1,588
1985	24	1,884
1986	22	715
1987	22	1,423
1988	20	3,121
1989	20	1,798
1990	20	1,814
1991	18	570
1992	23	363
1993	20	94
1994	20	1,139
1995	20	297
1996	20	319
1997	20	385
1998	20	27
1999	19	19
2000	19	7
2001	19	68
2002	19	882
2003	19	736
2004	17	896
2005	17	0
2006	17	521
2007	16	0
2008	16	434
2009	16	0
2010	16	0
2011	14	0
2012	14	982
2013	14	674
2014	14	200
2015	14	720
2016	13	670
2017	13	655
2018	13	297
2019	13	8
2020	13	40
2021	13	558
2022	14	175
2023	14	879
2024	14	209
Minimum	13	0
Maximum	26	3,121
Average (1979-2024)	18	693
Average (2015-2024)	13	421

There are domestic wells completed into the Middle James: Columbia aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2025c). Due to their relatively low diversion rates, withdrawals from domestic wells are not considered to be a significant portion of the hydrologic budget. Additionally, with the development of rural water systems in areas where the Middle James: Columbia aquifer is the uppermost aquifer available; it is likely some domestic users may have transitioned to rural water. Therefore, the quantity of water withdrawn by domestic wells is estimated to be negligible to the hydrologic budget for the Middle James: Columbia aquifer.

Hydrologic Budget Summary

The recharge rate of the Middle James: Columbia aquifer, based on Hedges and others (1985), is estimated range of 3,950 to 13,800 acre-feet per year. The Middle James: Columbia aquifer estimated average annual withdrawal rate is 3,721 acre-feet per year (non-irrigation including this application: 3,300 acre-feet per year, irrigation: 421 acre-feet per year). Historically, the Water Rights Program has used the middle of the recharge rate range as a guideline unless other data suggests the lower or upper limit is more likely. Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Middle James: Columbia aquifer for the proposed appropriation.

OBSERVATION WELL DATA:

ARSD 74:02:05:07 requires that the Water Management Board shall rely upon the record of observation well measurements in addition to other data to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer.

The DANR-Water Rights Program monitors 25 observation wells completed into the Middle James: Columbia aquifer as shown on Figure 1 (Water Rights, 2025b). These observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. The four nearby observation wells to the wells for this application are ML-82C (approximately 0.2 miles north), ML-70H (approximately 1.2 miles north), ML-82B (approximately 1.5 miles northeast), and ML-70J (approximately 7.2 miles northwest) (Water Rights, 2025b). The water level elevations for these observation wells are displayed in Figure 2 (Water Rights, 2025b). The data from closest observation wells (ML-82C, ML-70H, and ML-82B) show a decline in water levels after 2000 until 2015 where the water levels in the aquifer stabilize (Water Rights, 2025b). The decline is likely due to increased pumping from wells surrounding the observation wells, which lead to the observation wells stabilizing at a lower artesian head pressure. The water level for observation well ML-70J was also included in Figure 2 to show that decline from pumping in 2000 to 2015 was relative to those three wells and had less of an impact on the Middle James: Columbia aquifer as a whole, especially further away from the BDM RWS wellfield location.

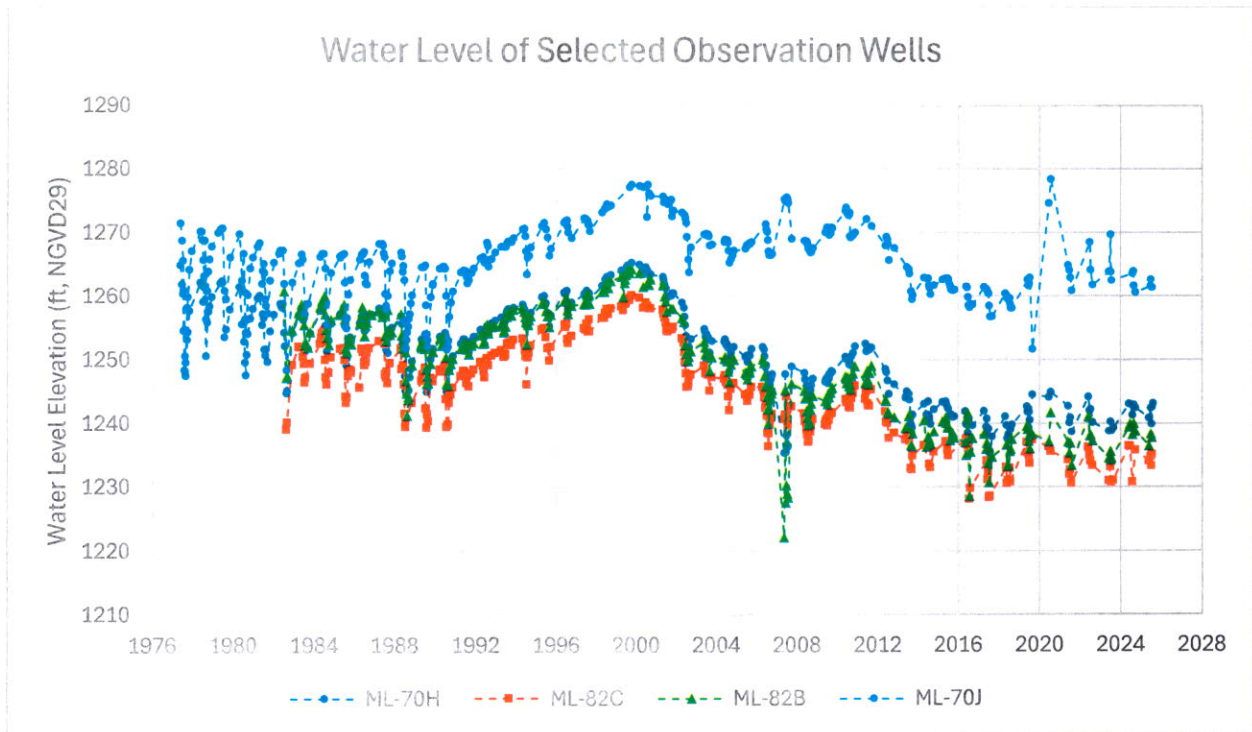


Figure 2. A graph showing the elevation of water levels of observation wells ML-70H, ML-82C, ML-82B, and ML-70J (Water Rights, 2025b)

The water levels for the Middle James: Columbia aquifer observation wells indicate that the aquifer responds well to climatic conditions because water levels are rising during wetter periods (early spring snowmelt and precipitation) and declining to a stable water level during drier periods. There has been a recent decline in water levels due to recent drought conditions. Additionally, the water levels in the observation wells display that the amount of recharge to and natural discharge from the aquifer exceeds pumping with the aquifer water levels returning to pre-pumping conditions between irrigation seasons. The drops in artesian head pressure due to seasonal irrigation pumping is evident in Middle James: Columbia observation wells, as seen in Figure 2. Aquifer recovery indicates that climatic conditions and therefore, the effects of recharge to and natural discharges from the aquifer govern the long-term fluctuations of water levels in the aquifer, rather than the impacts of pumping from the Middle James: Columbia aquifer. By recognizing that both recharge to and natural discharge from an aquifer can be captured for pumping, the observation well water levels demonstrate unappropriated water is available for the proposed appropriation.

POTENTIAL FOR UNLAWFUL IMPAIRMENT OF EXISTING WATER RIGHTS:

Water rights/permits in the general vicinity of the well sites for this application are shown in Figure 3 and summarized in Table 4. The closest water right/permit to the existing diversion points for this application is Water Right No. 3915-3 which is held by the City of Britton. The diversion point for Water Right No. 3915-3 is located approximately 2.6 miles northeast of the existing diversion points for this application (Water Rights, 2025c). The City of Britton is connected to rural water and is assumed to not use their wells regularly. The next nearest water

right is Water Right No. 3335-3 which is held by the Westwood Hutterian Brethren Inc. The diversion point for Water Right No. 3335-3 is located approximately 2.8 miles northwest of the existing diversion points for this application (Water Rights, 2025c). There are domestic wells on file with the DANR-Water Rights Program that are completed into the Middle James: Columbia aquifer, with the closest domestic well on file (not held by the applicant) less than 0.2 miles east of the diversion points based on the legal description provided by the well driller on the well completion report (Water Rights, 2025d). There could potentially be other domestic wells completed into the Middle James: Columbia aquifer near the diversion points that are not on file with the DANR-Water Rights Program.

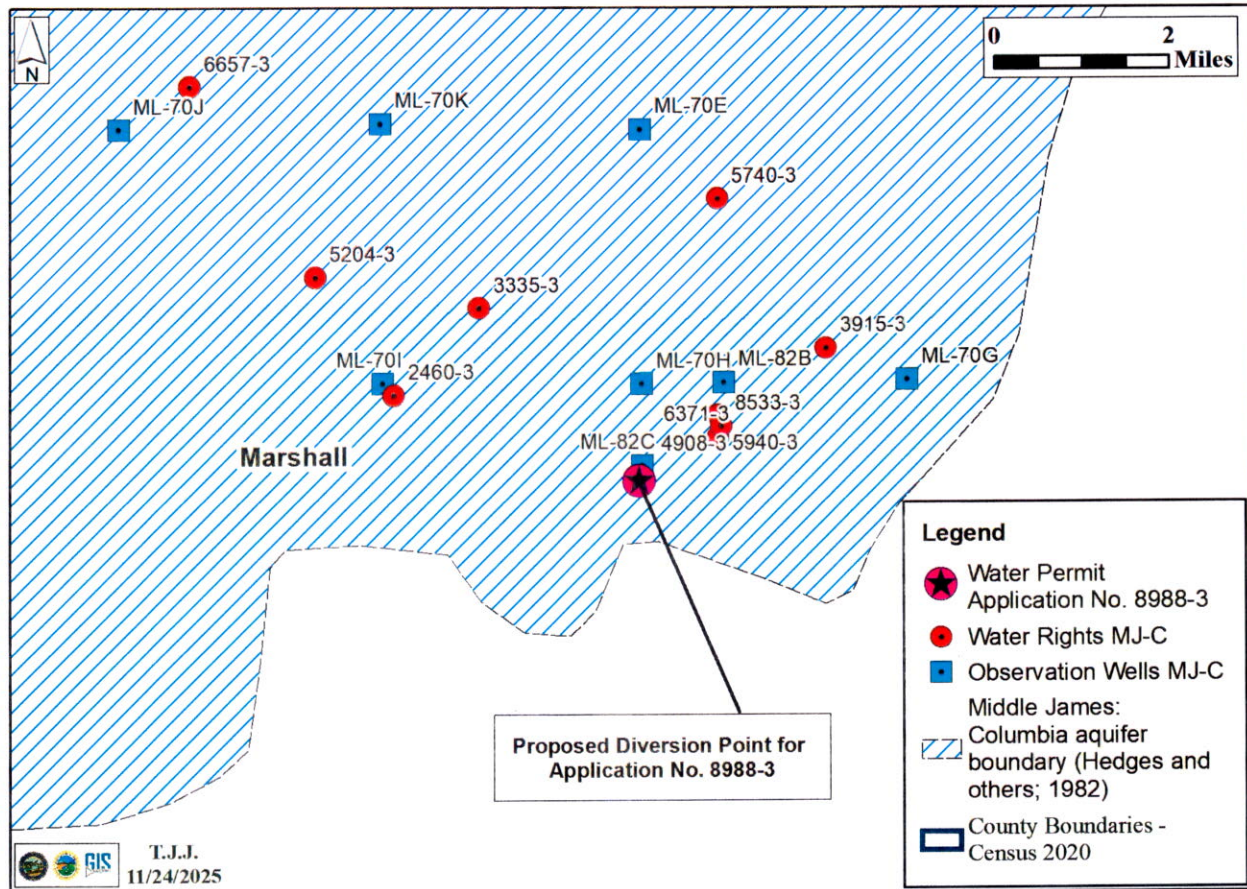


Figure 3. Map of the location of Water Permit Application No. 8988-3 existing diversion points, aquifer observation wells, and water rights/permits within approximately seven miles of the existing diversion points located in Marshall County (Water Rights, 2025b and 2025c).

Table 4. List of water rights/permits within seven miles of the existing diversion points as shown in Figure 3.

Permit	Name/Business	Priority	Status	Use Type	CFS	Acres
2460-3	Ryan Patterson	10/21/1975	License	Irrigation	2.22	225
3335-3	Westwood Hutterian Brethren Inc.	11/17/1976	License	Irrigation	1.78	132
3915-3	City of Britton	04/29/1977	License	Municipal	1.12	0
4908-3	BDM RWS Inc.	06/21/1982	License	Municipal, RWS	1.00	0
5204-3	Arlo Tank	06/28/1988	License	Irrigation	1.66	214
5740-3	White Township	01/19/1993	Permit	Commercial	0.03	0
5940-3	BDM RWS Inc.	05/30/1996	Future Use	RWS	0	0
5940A-3	BDM RWS Inc.	08/01/1996	Future Use	RWS	0	0
6371-3	BDM RWS Inc.	08/01/1996	Permit	RWS	2.89	0
6657-3	Westwood Hutterian Brethren Inc.	08/22/2005	License	Domestic	0.27	0
8533-3	BDM RWS Inc.	07/22/2021	Permit	RWS	1.11	0
RWS: Rural Water System						

Based on the well completion reports and observation wells near the wells for this application, the Middle James: Columbia aquifer is expected to be under confined conditions near the well site. In a confined aquifer, drawdown from a pumping well can extend some distance from the well. The Water Management Board recognizes that putting water to beneficial use requires a certain amount of drawdown to occur. The Board has developed rules to allow water to be placed to maximum beneficial use without the necessity of maintaining artesian head pressure for domestic use. The Water Management Board defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

“A well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner’s needs.”

The Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use during the issuance of Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills. The Board adopted the Findings of Facts and Conclusions of Law that noted the reservation of artesian head pressure for delivery of water would be inconsistent with SDCL 46-1-4 which states, “general welfare requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable...” (Water Rights, 1995). Furthermore, the Water Management Board found if increased cost or decreased production as a result of impacts on artesian head pressure by legitimate users is to be considered as an unlawful impairment, it would also conflict with SDCL 46-1-4 (Water Rights, 1995). With that in mind, some existing well owners may need to install or lower pumps depending on the specific characteristics of the Middle James: Columbia aquifer at their location. However, when considering the statutes (SDCL 46-1-4 and 46-6-6.1), rules (ARSD 74:02:04:20(6) and (7)), the

lack of recent complaints of well interference in Marshall County (Water Rights, 2025e), and the saturated aquifer thickness near the diversion point, any drawdown created from the diversion is not expected to cause an unlawful impairment on existing water right/permit holders or domestic users with adequate wells. Therefore, there is a reasonable probability that any interference from the proposed appropriation will not impose unlawful impairments on existing users with adequate wells.

CONCLUSIONS:

1. Water Permit Application No. 8988-3 proposes to appropriate an additional 1,300 acre-feet of water annually and increase the maximum diversion rate by an additional 3.47 cfs, to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3. This application proposes to obtain the additional water from five of the thirteen existing wells (Wells 9 through 13), all completed into the Middle James: Columbia aquifer (300 feet deep). This application, if approved, Water Right No. 4908-3, and Permit Nos. 6371-3 and 8533-3, all combined, will authorize a total appropriation of up to 3,924 acre-feet annually, at a maximum diversion rate of 8.47 cfs. This site is located approximately five miles northeast of Britton, SD in Marshall County.
2. Based on observation well data and a hydrologic budget analysis, there is a reasonable probability that unappropriated water is available from this portion of the Middle James: Columbia aquifer to supply the proposed appropriation.
3. There is a reasonable probability that the diversion by Water Permit Application No. 8988-3 will not unlawfully impair adequate wells for existing water rights/permits and domestic uses.



Tyler Jensen
Natural Resources Engineer II
SD DANR - Water Rights Program

Reviewed by:



Adam Mathiowetz, PE
Natural Resources Engineer IV
SD DANR - Water Rights Program

References

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- Water Rights. 2025b. Observation Well Data, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2025c. Water Right/Permit Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2025d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2025e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2025f. "1994-2024 Non-Irrigation Summaries by Aquifer", SD DANR-Water Rights Program, Joe Foss Building, Pierre, SD.

Mathiowetz, Adam (DENR)

From: Rod Kappes <rodneyk@bdmruralwater.com>
Sent: Tuesday, November 18, 2025 4:24 PM
To: Jensen, Tyler
Cc: Mathiowetz, Adam (DENR)
Subject: Re: [EXT] Clarification for BDM RWS Inc. Permit Application No. 8988-3

Good Afternoon Tyler,

I have looked at the three permits in total when reporting our draw from the aquifer. If I need to look at that differently, please let me know.

Thank You

Rodney Kappes

General Manager
B.D.M Rural Water System, Inc.
707 7th St
PO Box 49
Britton, SD 57430
(605) 448-5417
Cell (605) 380-8408
RodneyK@BDMRuralWater.com



RURAL WATER SYSTEM

605.448.5417

www.bdmruralwater.com

From: Jensen, Tyler <Tyler.Jensen@state.sd.us>
Sent: Tuesday, November 18, 2025 1:17 PM
To: Rod Kappes <rodneyk@bdmruralwater.com>
Cc: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Subject: Clarification for BDM RWS Inc. Permit Application No. 8988-3

You don't often get email from tyler.jensen@state.sd.us. [Learn why this is important](#)
Rodney,

Good afternoon. As part of the technical review of BDM RWS Inc Permit Application No. 8988-3, we need to evaluate the availability of unappropriated water and want to have it as accurate as possible. I wanted to verify whether the reported water diverted from the Middle James: Columbia aquifer for Non-Irrigation questionnaire includes: pumping from just Water Permits Nos. 6371-3 and 8533-3, or pumping from all of your permits (Water Right No. 4908-3 and Water Permits Nos. 6371-3 and 8533-3).

Thank You,

Tyler Jensen
Natural Resources Engineer II
SD DANR-Water Rights Program
605-223-4632



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

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

December 11, 2025

B.D.M. Rural Water System, Inc.
c/o Rodney Kappes
PO Box 49
Britton SD 57430

Dear Mr. Kappes:

Water Permit Application No. 8988-3 has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the following newspapers:

Marshall County Journal, Britton	605-448-2281
Sisseton Courier, Sisseton	605-698-7642
American News, Aberdeen	See contact information
Reporter & Farmer, Webster	605-345-3356

You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Rachel Rodriguez

Rachel Rodriguez
Water Rights Program
(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.

NOTICE OF APPLICATION NO. 8988-3 to Appropriate Water

Notice is given that B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, has filed an application for a water permit to appropriate an additional 1,300 acre-feet of water annually, and increase the maximum diversion rate by an additional 3.47 cubic feet of water per second (cfs), to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3. Water Right No. 4908-3 and Permit Nos. 6371-3 and 8533-3, all together, authorize a combined total appropriation of up to 2,624 acre-feet, at a maximum diversion rate of 5.0 cfs, from a total of 13 wells. This application proposes to obtain the additional water from five of the thirteen existing wells (Wells 9 through 13), all completed into the Middle James: Columbia Aquifer (approximately 300 feet deep) located in the E 1/2 NE 1/4 NE 1/4 Section 9-T127N-R57W. This application, if approved, Water Right No. 4908-3, and Permit Nos. 6371-3 & 8533-3, all combined, will authorize a total appropriation of up to 3,924 acre-feet annually, at a maximum diversion rate of 8.47 cfs. This site is located approximately five miles northeast of Britton SD.

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 8988-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board. The Acting Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Acting Chief Engineer. A petition opposing the application shall be filed on a form provided by the Acting Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Acting Chief Engineer. The Acting Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Acting Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by January 5, 2026.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by January 5, 2026.

If the applicant does not contest the recommendation of the Acting Chief Engineer and no petition to oppose the application is received, the Acting Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Published once at the total approximate cost of _

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:09 PM
To: news@reporterandfarmer.com
Cc: Duvall, Ron
Subject: B.D.M. RWS - Public Notice
Attachments: 8988-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on December 22, 2025.

B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, 605-448-5417, has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please confirm receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:08 PM
To: aan-legals@aberdeennews.com
Cc: Duvall, Ron
Subject: B.D.M. RWS - Public Notice
Attachments: 8988-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on December 23, 2025.

B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, 605-448-5417, has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please confirm receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:11 PM
To: Duvall, Ron
Subject: FW: B.D.M. RWS - Public Notice
Attachments: 8988-3 public.short_final.docx; FORM8.FRM.doc

I forgot to email you this one to the Sisseton Courier, see below.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:05 PM
To: 'news@sissetoncourier.com' <news@sissetoncourier.com>
Subject: B.D.M. RWS - Public Notice

Attached is a notice to be published on December 23, 2025.

B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, 605-448-5417, has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please confirm receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:12 PM
To: Duvall, Ron
Subject: FW: B.D.M. RWS - Public Notice
Attachments: 8988-3 public.short_final.docx; FORM8.FRM.doc

And this one too for the Marshall County Journal, see below.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 1:02 PM
To: marshallcojournal@gmail.com
Subject: B.D.M. RWS - Public Notice

Attached is a notice to be published on December 24, 2025.

B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, 605-448-5417, has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please confirm receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us

Rodriguez, Rachel

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Thursday, December 11, 2025 2:19 PM
To: Rodriguez, Rachel
Subject: RE: [EXT] 11915809-B.D.M. RWS - Public Notice
Attachments: 11915809.pdf

Hello

Please find your order confirmation and proof of ad attached.

Your ad is set to run in **American News** on **12/23/2025**. The order cost is **\$63.20** which includes an affidavit, that will be mailed to you 7-10 business days after the last day of the ad printing. Please reply by 12/16/2025 5PM with any changes.

All orders are subject to a non-refundable 3.99% service fee. As an incentive for customers, we provide a discount off the order cost equal to the 3.99% service fee if you pay by ACH. Pay by ACH and Save! Final order cost provided at time of payment and via a receipt.

Your notice is scheduled to run per your request and will publish unless you reply to this email requesting changes or to cancel.

Our invoicing is done on a monthly basis.
You will receive an invoice for this ad after the close of the month.

In the future, be on the lookout for access to our online self-serve ad portal in your local publication to conveniently place future legal notices.

Thanks,

*NOTE: We are not legally trained, and it is your responsibility to make sure your AD meets the requirements of your State/Court which includes wording and publication times. Please verify all information is there and that it is correct. If your ad is not compliant with applicable law and needs to be re-published you will be responsible for all additional fees incurred

Nadia Luckett
Public Notice Representative
USA TODAY CO.



844-254-5287
National voice. Local strength. Subscribe TODAY.
#TeamUSATODAY
Tell my boss I rock [HERE!](#)



Order Confirmation

Not an Invoice

Account Number:	549450
Customer Name:	Bdm Rural Water System
Customer Address:	Bdm Rural Water System PO BOX 49 BRITTON SD 57430-0049
Contact Name:	Bdm Rural Water System
Contact Phone:	6054485417
Contact Email:	
PO Number:	

Date:	12/11/2025
Order Number:	11915809
Prepayment Amount:	\$ 0.00

Column Count:	1.0000
Line Count:	194.0000
Height in Inches:	21.3700

Print

Product	#Insertions	Start - End	Category
ABD The American News	1	12/23/2025 - 12/23/2025	Public Notices
ABD aberdeennews.com	1	12/23/2025 - 12/23/2025	Public Notices

As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH. Pay by Cash/Check/ACH and save!

Total Cash Order Confirmation Amount Due	\$63.20
Tax Amount	\$0.00
Service Fee 3.99%	\$2.52
Cash/Check/ACH Discount	-\$2.52
Payment Amount by Cash/Check/ACH	\$63.20
Payment Amount by Credit Card	\$65.72

Order Confirmation Amount	\$63.20
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AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA, County of Marshall.

146 @ .29
42.34

Douglas M. Card of said county, being first duly sworn on oath says that he is publisher of the MARSHALL COUNTY JOURNAL, a weekly newspaper printed and published in the City of Britton, in the County of Marshall, and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly and has been published within said County for fifty-two successive weeks, next prior to the publication of the notice herein mentioned and is printed wholly or in part in an office at said place of publication;

that the B.D.M RWS - Public Notice
Notice of application # 8988-3 to App. Water

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet and is made a part of this affidavit, was published in said newspaper at least once each week for 2 time successive weeks, on the day of each week on which said newspaper was regularly published, to wit:

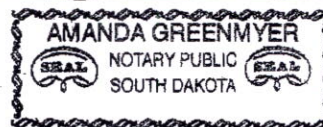
Dec 24th

that the full amount of the fee charged for the publication of said notice inures to the benefit of publisher of said newspaper, that no agreement or understanding for the division thereof has been made with any person, and that no part thereof has been agreed to be paid to any other person whomsoever, and that the fee for the publication thereof

Forty-two and ³⁴/₁₀₀ DOLLARS
D.M.C.

Subscribed and sworn to before me this 21st day of

December A.D. 2025



[Signature] exp 413-27
Notary Public, Marshall County, S.D.

42.34

NOTICE OF APPLICATION
NO. 8988-3 to Appropriate
Water

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 8988-3 because 1) there is

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person

Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be

filed by January 5, 2011. If the applicant tests the recommendation of the Acting Chief Engineer, a petition to oppose the recommendation is received, the Acting Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of hearing will be given to the applicant and any person filing a petition.

Published at an approximate cost of \$ and can be viewed free of charge at www.sdpublicnot.com.

Kevin H. Deutsch of said county, being first duly sworn, on oath says, that he is Editor of THE SISSETON COURIER, a weekly newspaper printed and published in Sisseton, in said county of Roberts, and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bonafide circulation of at least two hundred copies weekly, and has been published within said county for 52 successive weeks next prior to the publication of the notice herein mentioned, and was and is printed wholly or in part in an office maintained at said place of publication; that the Notice of Notice Of Application No. 8988-3 To Appropriate a printed copy of which, taken from the paper in which the same was published, is attached to this sheet, and is made a part of this affidavit, was published in said newspaper at least once in each week for one successive weeks, on the day of each week on which said newspaper was regularly published, to-wit:

Dec. 23, 2025; _____, _____;
_____, _____; _____, _____;
_____, _____; _____, _____;
_____, _____; _____, _____;
_____, _____; _____, _____;

that the full amount of the fee is charged for publication of said Notice insures to the benefit of the publisher of said newspaper; that no agreement or understanding for the division there has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever and that the fees charged for the publication there of are \$43.01

Kevin H. Deutsch
Subscribed and sworn to before me this 23rd day of

December, A.D., 2025

Sylvia Deutsch
Notary Public, Roberts County, South Dakota

My commission expires February 3, 2028



**NOTICE OF APPLICATION
NO. 8988-3 to
Appropriate Water**

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Published once at the total approximate cost of \$43.01 and may be viewed free of charge at www.sdpublicnotices.com.

AFFIDAVIT OF PUBLICATION

County of Day
State of South Dakota,

} ss

Amanda M. Dulitz, of said county and state being duly sworn on oath, says: That the Reporter & Farmer is a legal weekly newspaper of general circulation, and an official newspaper as required by Session Laws of 1893, printed and published in Webster, in said county and state, by the Day County Printing Company and has been such newspaper during the time hereinafter mentioned, that I, Amanda M. Dulitz, the undersigned, am publisher of said newspaper, and have personal knowledge of all facts stated in this affidavit and that the advertisement headed BDM Rural Water Application, a printed copy of which is hereunto attached, was printed and published in the said newspaper one successive and complete issues as follows:

First Publication	Dec. 22, 2025;
Second Publication	;
Third Publication	;
Fourth Publication	;
Fifth Publication	;

That the full amount of fees for publication of the annexed notice is \$56.28 and inures solely to the Reporter & Farmer, published by The Day County Printing Company, that no arrangement or understanding for a division thereof has been made with any other person, and that no part thereof has been agreed to be paid any person whomsoever.

[Signature]

Subscribed and sworn to before me this 22nd day of December, 2025.

[Signature]
LINDA HOBERG Notary Public, Day County, South Dakota
eppres 1-14-26

B.D.M. water system files application for permit

NOTICE OF APPLICATION NO. 8988-3 TO APPROPRIATE WATER

Notice is given that B.D.M. Rural Water System, Inc., PO Box 49, Britton SD 57430, has filed an application for a water permit to appropriate an additional 1,300 acre-feet of water annually and increase the maximum diversion rate by an additional 3.47 cubic feet of water per second (cfs), to what is currently authorized by Water Right No. 4908-3 and Water Permit Nos. 6371-3 and 8533-3. Water Right No. 4908-3 and Permit Nos. 6371-3 and 8533-3, all together, authorize a combined total appropriation of up to 2,624 acre-feet, at a maximum diversion rate of 5.0 cfs, from a total of 13 wells. This application proposes to obtain the additional water from five of the 13 existing wells (Wells 9 through 13), all completed into the Middle James: Columbia Aquifer (approximately 300 feet deep) located in the E 1/2 NE 1/4 NE 1/4 Section 9-T127N-R57W. This application, if approved, Water Right No. 4908-3, and Permit Nos. 6371-3 & 8533-3, all combined, will authorize a total appropriation of up to 3,924 acre-feet annually, at a maximum diversion rate of 8.47 cfs. This site is located approximately five miles northeast of Britton, SD.

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 8988-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board. The Acting Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

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RECEIVED

DEC 29 2025

Water Rights
Program

LOCALiQ

Aberdeen News
Watertown Public Opinion

PO Box 630567 Cincinnati, OH 45263-0567

AFFIDAVIT OF PUBLICATION

Bdm Rural Water System
Bdm Rural Water System
PO BOX 49
BRITTON SD 57430-0049

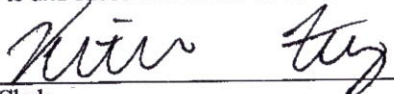
RECEIVED
DEC 29 2025
Water Rights
Program

STATE OF SOUTH DAKOTA, COUNTY OF BROWN

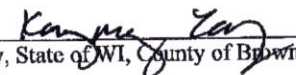
The AMERICAN NEWS is a daily newspaper of general circulation, printed and published in Aberdeen, Brown County, South Dakota, and has been such a newspaper during the times hereinafter mentioned; and personal knowledge of the facts herein state that the notice hereto annexed was Published in said newspapers in the issue dated:

12/23/2025

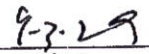
That said newspaper is a legal newspaper published five days or more each week; with a bona fide circulation of more than two hundred copies daily; published in the English language within the said county of Brown for more than one year prior to the first publication of said notice; and printed in whole in an office maintained at the place of publication of said newspaper.
Sworn to and subscribed before on 12/23/2025



Legal Clerk



Notary, State of WI, County of Brown



My commission expires

Publication Cost:	\$63.20	
Tax Amount:	\$0.00	
Payment Cost:	\$63.20	
Order No:	11915809	# of Copies:
Customer No:	549450	1
PO #:		

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance.

KONGMENG YANG
Notary Public
State of Wisconsin

NOTICE OF APPLICATION
NO. 8988-3 to Appropriate
Water

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RECEIVED

DEC 29 2025

Water Rights
Program

defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Acting Chief Engineer. A petition opposing the application shall be filed on a form provided by the Acting Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Acting Chief Engineer. The Acting Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Acting Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by January 5, 2026.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by January 5, 2026.

If the applicant does not contest the recommendation of the Acting Chief Engineer and no petition to oppose the application is received, the Acting Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition. Published once at the total approximate cost of \$63.20

RECEIVED

DEC 29 2025

Water Rights
Program

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Thursday, December 11, 2025 2:39 PM
To: Rod Kappes
Subject: B.D.M. RWS - Public Notice
Attachments: 8988-3 Rec.pdf; 8988-3 Ltr.pdf; 8988-3 PubNotice.pdf; 8988-3 AmericanNews Info.pdf

Good afternoon,

Attached is a copy of the report, acting chief engineer's recommendation, and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is also being mailed to you today.

Let me know if you have questions. Please confirm receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

February 13, 2026

B.D.M. Rural Water System, Inc.
c/o Thomas Jones
PO Box 49
Britton SD 57430

Dear Mr. Jones:

Enclosed is Water Permit No. 8988-3 authorizing construction of the 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,

Adam Mathiowetz, PE
Acting Chief Engineer
Water Rights Program

enclosures



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

**Affidavit of Public Notice
Posting on DANR Website**

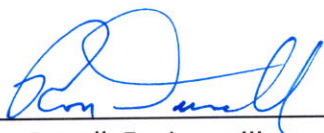
Pursuant to SDCL § 46-2A-4, public notice of the following application was posted on the DANR web site at <https://danr.sd.gov/public>. The posted public notice is the same notice as published in the pertinent newspaper(s) and a copy of the public notice is maintained in the application file. If the application is contested, the posting is moved to the DANR contested case website at <https://danr.sd.gov/public/ContestedCase.aspx> until final action is taken on the application pursuant to SDCL § 46-2A-4.

Application No.: 8988-3

Name of Applicant: B.D.M. Rural Water System, Inc., Rodney Kappes

Date of Posting: 12/22/2025

Date of Removal: 2/13/2026



Ron Duvall, Engineer III

2/13/2026

Date

Subscribed and sworn to before me, a notary public, this 13th day of Feb, 20 26.

Notary Public - South Dakota

My commission expires:

Rachel Rodriguez
My Commission Expires
May 16, 2029

(SEAL)

