

**WATER PERMIT NO. 8224-3**

Name of Applicant: **Buhler Farms LLC**

Address: **28326 Broadway St, Delmont SD 57330** Phone: **605 661-0988**

Amount of Water Claimed: **1.92 cfs** Total Acres: **135**

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

Water to be used for: **irrigation** County: **Douglas**

Type of Waste Disposal System:

Location: **5 miles west of Delmont**

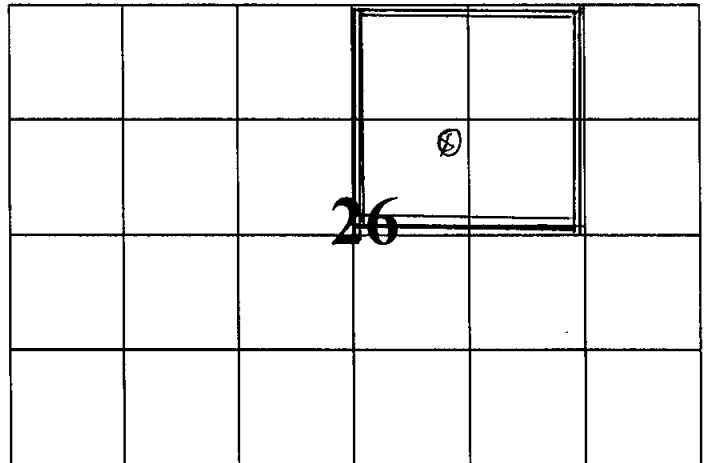
**PRIORITY** Date Received: **5-16-16** Application/License Fee: **\$ 1050**

Corrected Application Received: Period of Annual Use: **June 1 – Sept 30**

Remarks:

Diversion Point: **SW 1/4 NE 1/4 Sec 26-T98N-R63W**

Land to be Irrigated: **NE 1/4 Sec 26-T98N-R63W**



Depth of Well: **219 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **5-16-16**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: \_\_\_\_\_

FORM 2: Application for irrigation in South Dakota  
(type or print)

|                                                                                                         |                                   |                                                      |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------|
| Mail to:<br><br>DENR - Water Rights<br>523 E Capitol Ave<br>Pierre, SD 57501-3182<br>ph. (605) 773-3352 | No. <u>8224-3</u>                 | (office use only)<br>Hydrologic Unit <u>10140101</u> |
|                                                                                                         | Basin <u>Missouri River</u>       |                                                      |
|                                                                                                         | Newspaper <u>Armour Chronicle</u> | <u>605-724-2747</u>                                  |
|                                                                                                         | <u>Daily Republic - Mitchell</u>  | <u>605-996-5514</u>                                  |

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## Application For Permit To Appropriate Water For Irrigation

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

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

1. Name to Appear on Irrigation Permit Buhler Farms LLC

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 28326 Broadway St Delmont S.D 57330  
(Address) (City) (State) (Zip Code)Phone 605-779-5831 Mobile 605-661-0988 Email nyarebecca@yahoo.com2. Amount of water claimed 1.92\*CFS or 868\*\*GPM \*\*\*AF Total Acreage 135  
(\*Cubic Feet per Second) (\*\*Gallons per Minute) (\*\*\*)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply \_\_\_\_\_

4. Location of point of diversion 1 well in NE 1/4 of section 26-98N-63W  
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)  
(SW 1/4 NE 1/4) County Douglas5. County or counties where water will be used Douglas6. Annual period during which water is to be used April 1 - Sept 307. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.  
(Attach sheet if more space is needed)

| Land Description               | Acres      | Land Description | Acres |
|--------------------------------|------------|------------------|-------|
| Section <u>26-98-63 NE 1/4</u> | <u>135</u> |                  |       |
|                                |            |                  |       |
|                                |            |                  |       |
|                                |            |                  |       |

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

We would like to put a pivot on the piece of ground marked with Black out line. Put Pivot as close to center of ground as possible.

I, Nya Coehring, 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.

**SOUTH DAKOTA**  
**WATER PERMIT NO. 8224-3**

Date of first receipt of application May 16, 2016.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8224-3 to Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway St, Delmont SD 57330 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. 8224-3 appropriates 1.92 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (219 feet deep) located in the SW 1/4 NE 1/4 Section 26 for irrigation of 135 acres located in the NE 1/4 Section 26; all in T98N-R63W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: June 1 – September 30.
3. The date from which applicant may claim right is May 16, 2016.
4. The date of approval of Permit No. 8224-3 is August 5, 2016.
5. One-fifth of the construction is to be completed on or before February 16, 2019.
6. All construction is to be completed on or before August 5, 2021.
7. Water is to be put to beneficial use on or before August 5, 2025.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

**QUALIFICATIONS**

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8224-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

**WATER MANAGEMENT BOARD**

By: Jeanne Goodman

Jeanne Goodman, Chief Engineer  
Water Rights Program

Department of Environment and Natural Resources

**SEP 02 2016**

date



**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 1 Have test holes been drilled ☒ Yes ☐ No Drilled by Thein well  
(if yes, please provide copies of logs)b) If existing wells, how many      Provide copy of log(s), if available. Drilled by     

For either Existing or Proposed Wells:

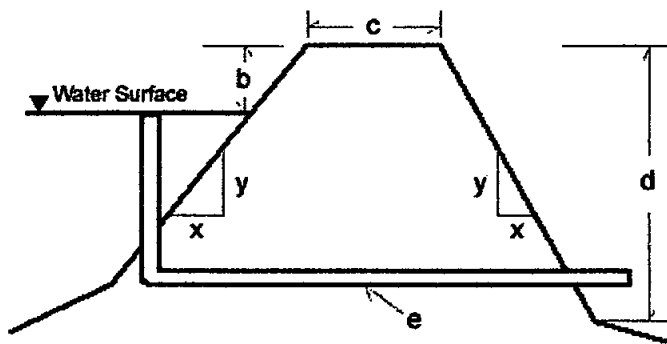
c) Well Depth (required) 219 Depth to Top of Water Bearing Material 170 Depth to Water from Surface     d) Distance to nearest domestic well on applicant's property 3/4 mile Property owned by others Carey Baker**2. Wastewater Disposal System Information**a) Type of System (i.e. septic tank, drain field)     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 &amp; Y Slope (e.g. 3 to 1 is a typical slope)

Upstream     Downstream     h) Surface Area of Impoundment     i) Storage      Acre Feetj) Drainage Area Above Dam      Acres



United States  
Department of  
Agriculture

## Douglas County, South Dakota



**Common Land Unit**  
Other Ag  
Cropland  
Rangeland  
CRP

**Wetland Determination Identifiers**  
● Restricted Use  
▲ Limited Restrictions  
■ Exempt from Conservation  
■ Compliance Provisions



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2016 Program Year

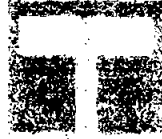
Map Created January 20, 2016

Farm 3903

26 -98N -63W

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

**THEIN WELL**



*Bob Thein* **BRIAN PINKELMAN**  
VERMILLION, SD  
1-800-450-8000 ~ Cell: 402-360-3102 ~ [www.theinwell.com](http://www.theinwell.com)

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P.O. Box 778  
11355 HWY 71 NE  
Spicer MN 56288

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# RECEIPT

## WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 5/16, 20 16

RECEIVED OF Buhler Farms LLC 29326 Broadway St Delmont SD 57330

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

|                                                                                                                        |       |         |
|------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Fee for Application for Permit No. <u>8224-3</u> to Appropriate Water, to construct and to put water to beneficial use | 888   | 00      |
| Fee for Application for Permit No. _____ to Appropriate Water for Future use                                           |       |         |
| Fee to retain Future Use Permit No. _____ after period of seven years.                                                 |       |         |
| Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8224-3</u>            | 200   | 00      |
| Fee for Filing Transfer Form _____                                                                                     |       |         |
| Fee for _____                                                                                                          |       |         |
| Fee for Issuing New Well Driller's License No. _____ for C.Y. _____                                                    |       |         |
| Fee for Renewal of Well Driller's License No. _____ for C.Y. _____                                                     |       |         |
| Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____                                                 |       |         |
| Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____                                              |       |         |
| (Any Other Work Provided by Law)                                                                                       | TOTAL | 1050 00 |

No. **07847**

By Jeanne Handman  
Chief Engineer

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Names of owners

Nya Coehring Phone  
28326 Broadway St 605-661-0988  
Delmont, S.D. 57330

Beth Schroeder 605-661-1366  
502 Poplar Drive  
Wagner, S.D. 57380

Gail Buhler 701 471 0900  
38455 396th Ave  
Aermour, S.D. 57313

Carey Buhler 605 -999 -1159  
600 Greenridge Ln  
Mitchell, S.D. 57301

| Entity Detail                    | File Annual Report                                                      | Statement of Change | Forms |
|----------------------------------|-------------------------------------------------------------------------|---------------------|-------|
| Name                             | BUHLER FARMS, LLC <a href="#">Obtain a Certificate of Good Standing</a> |                     |       |
| Business ID                      | DL032582                                                                |                     |       |
| Incorporation/Qualification Date | 5/24/2013                                                               |                     |       |
| Home State                       | SOUTH DAKOTA                                                            |                     |       |
| Status                           | Good Standing                                                           |                     |       |
| Last Annual Report               | 2015                                                                    |                     |       |
| Business Type                    | Domestic LLC                                                            |                     |       |
| Stock Info                       |                                                                         |                     |       |

Registered Agent      Documents

**Registered Agent Name & Address**

NYA GOEHRING  
28326 BROADWAY STREET  
DELMONT, SD 57330-5922

## **Water Rights Program - File Documentation**

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**NAME:** Buhler Farms LLC

**ADDRESS:** 28326 Broadway St, Delmont SD 57330

**DATE:** 5-16-16      **COUNTY:** Douglas      **TELEPHONE:** 605 661-0988

**RE:** Pending application

**COMMENTS:**

I called Nya Goehring about the amount of water to be claimed on the application. I explained the statutory limit for the diversion rate based on the number of acres to be irrigated. Ms. Goehring stated she would like the application to request the statutory limit of 1.92 cfs or 868 gallons per minute. She understood that at the time of licensing, the permit would be reduced to the actual amount used.



Karen Schlaak  
Water Rights Program



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 8224-3, Buhler Farms LLC**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 8224-3, Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway Street, Delmont SD 57330.

The Chief Engineer is recommending APPROVAL of Application No. 8224-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8224-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer  
July 14, 2016

REPORT TO THE CHIEF ENGINEER  
ON  
WATER PERMIT APPLICATION NO. 8224-3  
BUHLER FARMS LLC  
C/O NYA GOEHRING  
JULY 20, 2016

Water Permit Application No. 8224-3 proposes to authorize the diversion of water from the Choteau: West aquifer at a maximum diversion rate of 1.92 cubic feet per second (cfs) for the irrigation of 135 acres. The proposed well is to be approximately 219 feet deep and located in the SW ¼ NE ¼ Section 26 T98N-R63W in Douglas County. The 135 acres of land to be irrigated is in the NE ¼ Section 26 T98N-R63W.

**AQUIFER: West management unit of the Choteau aquifer (CH: W)**

**Aquifer Characteristics:**

The Choteau: West aquifer underlies portions of Bon Homme, Charles Mix, and Douglas Counties (Hedges et. al, 1982). The aquifer is primarily composed of buried outwash and western-origin stream deposits (Kume, 1977). The outwash is composed of several layers of sand and gravel within the till, and the western-origin stream deposits are sand and gravel (Kume, 1977). The Choteau: West aquifer is estimated to underlie 218,400 acres and contains an estimated 1,474,200 acre-feet (ac-ft) of recoverable water in storage (Hedges et. al, 1982). The aquifer is almost completely under confined conditions (Kume, 1977; Water Rights, 2016a).

A test hole log included with the application indicates sand and gravel was encountered from 173 to 215 feet below ground surface with a two foot thick layer of clay from 210 to 212 feet below grade. The static water level is expected to be approximately 55 feet below ground surface (Water Rights, 2016a). Figure 1 is a map of the area including the approximate extent of the Choteau: West aquifer in the area of the application (Hedges et. al, 1982), observation wells (Water Rights, 2016a), and water rights/permits (Water Rights, 2016b). Table 1 is a list of the water rights/permits shown in Figure 1.

| Permit No.                                                                                           | Name                 | County | Status | Use     | CFS   | Acres |
|------------------------------------------------------------------------------------------------------|----------------------|--------|--------|---------|-------|-------|
| 1237-3                                                                                               | Rolland Vander Pol   | CM     | LC     | IRR     | 1.14  | 80    |
| 1395-3                                                                                               | Rolland Vander Pol   | CM     | LC     | IRR     | 1.14  | 80    |
| 1557-3                                                                                               | Royce L Mack         | DG     | LC     | IRR     | 2.28  | 255   |
| 1884-3                                                                                               | Chet Eitemiller      | CM     | LC     | IRR     | 1.9   | 130   |
| 2142-3                                                                                               | James T Goetz        | DG     | LC     | IRR     | 1.89  | 132   |
| 3967-3                                                                                               | Greenwood Httrn Brth | CM     | LC     | IRR     | 1.77  | 136   |
| 4878-3                                                                                               | Roxann K Meyer       | CM     | LC     | IRR     | 2.22  | 252   |
| 7276-3                                                                                               | Red & Lori Sparks    | DG     | LC     | COM/LCO | 0.134 |       |
| CM= Charles Mix, DG= Douglas, IRR= Irrigation, COM= Commercial, LCO= Livestock Confinement Operation |                      |        |        |         |       |       |

Table 1- Water rights/permits authorized to withdraw water from the Choteau: West aquifer as shown in Figure 1(Water Rights, 2016b)

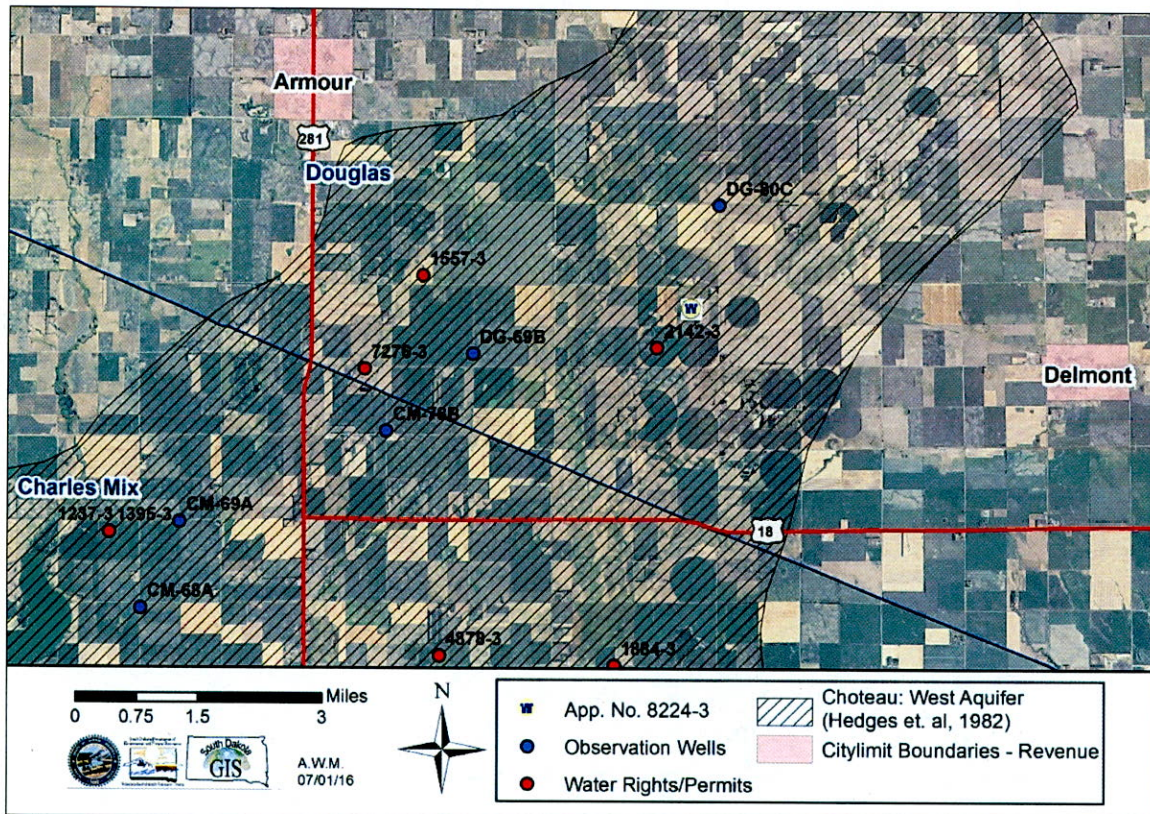


Figure 1- Map of the extent of the Choteau: West aquifer in the area of the application (Hedges et. al, 1982), observation wells (Water Rights, 2016a), and Water Rights/Permits (Water Rights, 2016b)

### 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 there is unappropriated water available for this applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and effects on existing rights from the aquifer that are pertinent to this application.

### WATER AVAILABILITY:

This application proposes to appropriate water from the Choteau: West aquifer. The probability of unappropriated water available from the aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "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." If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. In this case, the aquifer is not stratigraphically lower than the Greenhorn Formation and the applicant is not a water distribution system. If this application is approved, average annual pumpage is expected to be less than 135 ac-ft/yr.

### Observation Well Data:

Administrative Rule of South Dakota Section 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 DENR-Water Rights Program monitors 25 observation wells completed into the Choteau: West aquifer (Water Rights, 2016a). The nearest observation wells, CM-78B, DG-69B, and DG-80C, are shown in Figure 1. The hydrographs for these three observation wells are shown in Figures 2, 3, and 4, respectively. These three hydrographs are representative of the aquifer. The water levels rise during wetter periods and slowly decline during drier periods. The water level in the observation wells is dominated by climate, and the effects of pumping are masked. However, the hydrographs do show the temporary effects of pumping on the artesian head pressure during the irrigation season, but the water levels readily recover after the irrigation season ends. This means recharge to and natural discharge from the aquifer exceeds pumping. Recognizing natural discharge can be captured for pumping, the hydrographs for the observation wells show there is unappropriated water available for this proposed appropriation.

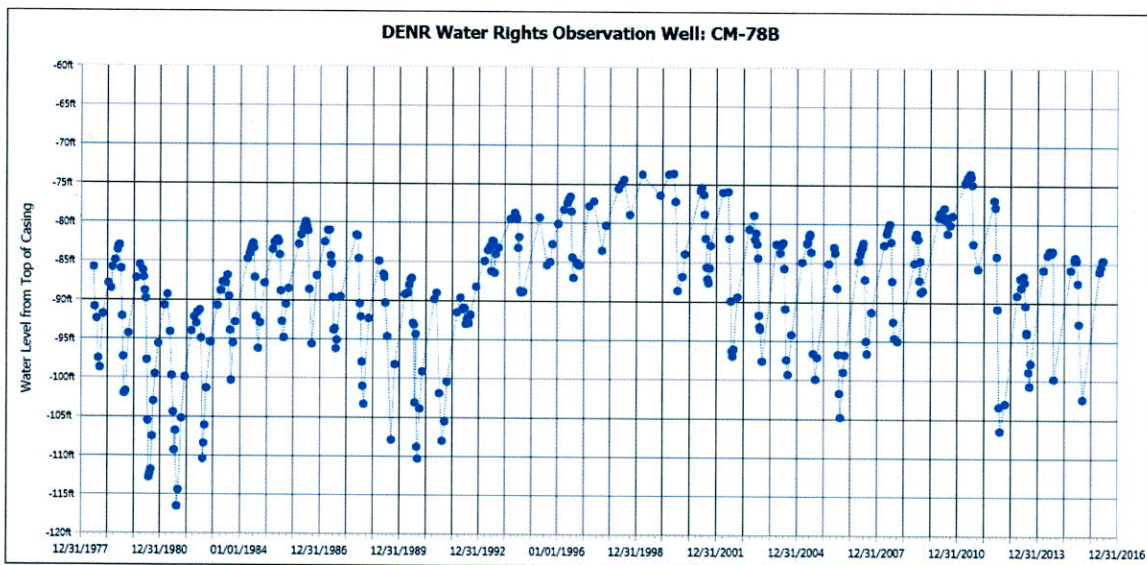


Figure 2- Hydrograph for observation well CM-78B (Water Rights, 2016a)

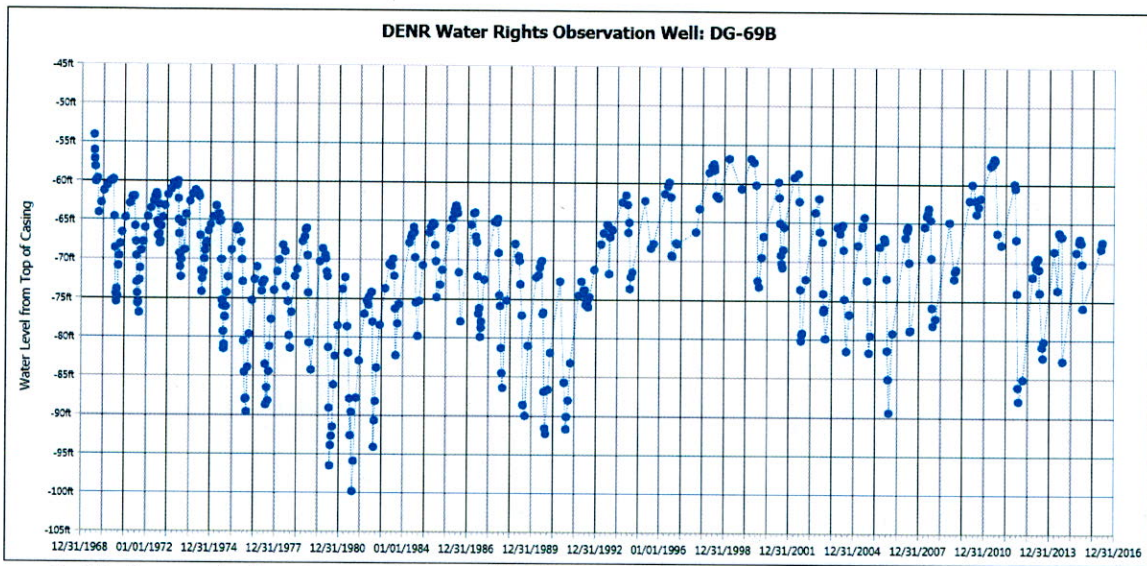


Figure 3- Hydrograph for observation well DG-69B (Water Rights, 2016a)

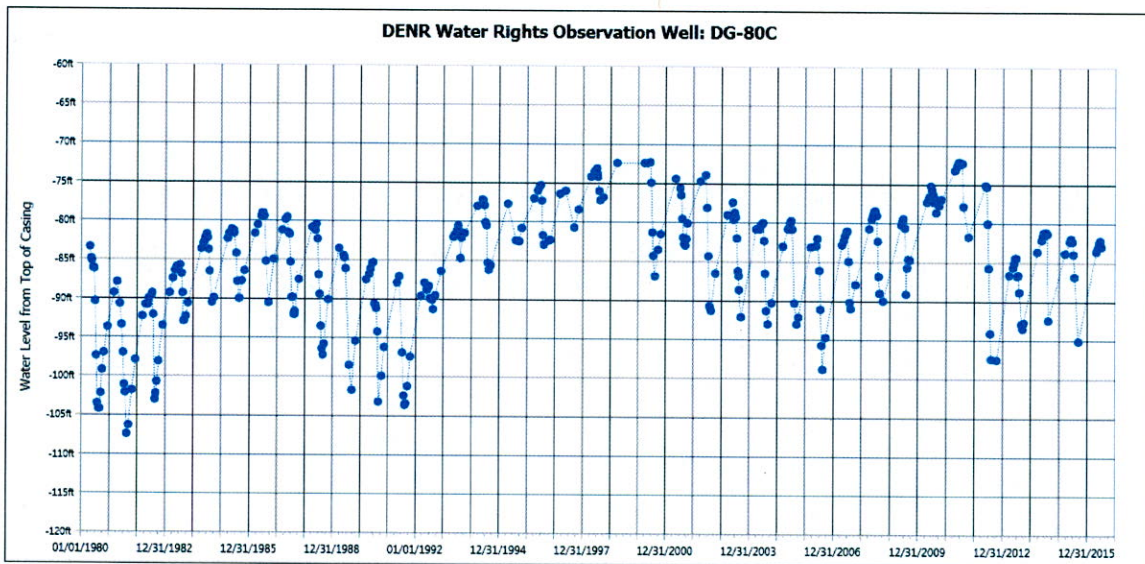


Figure 4- Hydrograph for observation well DG-80C (Water Rights, 2016a)

### Recharge and Discharge:

#### *Recharge:*

Recharge to the Choteau: West aquifer may come from the Niobrara Marl where the aquifer lies directly upon the Marl and subsurface inflow (Kume, 1977). The observation well data shows there is potential for leakage from the Niobrara aquifer to the Choteau: West aquifer in T98N-R63W and possibly other areas along the northwestern side of the Choteau: West aquifer (Water Rights, 2016a). In Bon Homme County, recharge to the aquifer comes from subsurface inflow and seepage from Choteau Creek and Dry Choteau Creek (Jorgensen, 1971). Lindgren and Hansen (1990) stated, "Recharge to the Choteau aquifer is from the Codell aquifer in northwestern T. 99N., R60W. and from the Niobrara aquifer in the north-central part of T. 99N., R. 61W." Lindgren and Hansen's (1990) locations for recharge to the Choteau West aquifer are in Hutchinson County. The observation well data supports that there is potential for recharge to the

Choteau: West aquifer to come from the Niobrara aquifer in Hutchinson County but is not likely from the Codell aquifer (Water Rights, 2016a).

Almost all of the Choteau: West aquifer is under confined conditions. Therefore, it would be most appropriate to use the recharge rate range of 0.15 to 0.6 inches per year (in/yr.) suggested by Hedges and others (1985) for use in development and management programs. Hedges and others (1985) did calculate a recharge rate of 4.1 in/yr. to the unconfined portion of the Choteau: West aquifer. However as previously stated, the aquifer is almost exclusively under confined conditions, and the rate of 4.1 in/yr. is not appropriate for use in estimating recharge to the aquifer. Using the range of 0.15 to 0.6 in/yr., the recharge rate to the Choteau: West aquifer is estimated to be between 2,730 and 10,920 ac-ft/yr.

#### *Discharge:*

Discharge from the Choteau: West aquifer is through losses to springs, seepage into surrounding drift and bedrock, and well withdrawals (Kume, 1977). Along the eastern edge of the aquifer, the observation well data indicates there is a potential for water to move out of the Choteau: West aquifer and in the Niobrara aquifer where the two aquifers are in contact (Water Rights, 2016a).

There are 52 water rights/permits authorizing the withdrawal of water from the Choteau: West aquifer (Water Rights, 2016b). There are six water rights/permits authorizing the use of water for non-irrigation purposes. The six water rights/permits are shown in Table 2. The City of Wagner, Water Right Nos. 569-3 and 1782-3, is connected to a local rural water system (Friedeman, 2016) and uses the rural water system as their primary source. Therefore, they are expected to use little water under their water permits. The estimated annual use by non-irrigation permits is 351 ac-ft/yr. This estimate is based on pumping at the maximum permitted diversion rate for 60 percent of the time.

| Permit No.                                                                                                                                                                       | Name              | County | Status | Use     | CFS          | Ac-ft      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------|---------|--------------|------------|
| 296-3                                                                                                                                                                            | Charles H Ahrens  | CM     | LC     | REC/DOM | 0.3          | 130        |
| 297-3                                                                                                                                                                            | Charles H Ahrens  | CM     | LC     | REC     | 0.3          | 130        |
| 569-3                                                                                                                                                                            | City of Wagner    | CM     | LC     | MUN     | 1.1          | *          |
| 1782-3                                                                                                                                                                           | City of Wagner    | CM     | LC     | MUN     | 0.89         | *          |
| 7276-3                                                                                                                                                                           | Red & Lori Sparks | DG     | LC     | COM/LCO | 0.134        | 58         |
| 7403-3                                                                                                                                                                           | Craig Vanderlei   | BH     | PE     | DOM     | 0.075        | 33         |
| CM= Charles Mix, DG = Douglas, BH= Bon Homme, MUN= Municipal, REC= Recreation, DOM= Domestic, COM= Commercial, LCO= Livestock Confinement Operation, *= connected to rural water |                   |        |        |         | <b>Total</b> | <b>351</b> |

Table 2- Non-irrigation permits in the Choteau: West aquifer (Water Rights, 2016b)

The historic irrigation use from the Choteau: West aquifer is shown in Table 3. Over the period of record the average annual irrigation pumpage is 2,572 ac-ft/yr. There are a number of domestic wells completed into the Choteau: West aquifer (Water Rights, 2016c). However, domestic use from the aquifer is not significant compared to the appropriative use.

#### *Hydrologic Budget:*

The average annual appropriative use from the Choteau: West aquifer is estimated to be 2,923 ac-ft/yr. This application, if approved, is expected to use less than 135 ac-ft/yr. Thus, the estimated average annual pumping from the Choteau: West aquifer is expected to be less than

approximately 3,058 ac-ft/yr. The range of recharge rates from Hedges and others (1985) is 2,730 to 10,920 ac-ft/yr. The estimated average annual use is on the low end of the recharge rate estimate. The low end of the recharge rate range is not supported by the observation well data, and recharge to the aquifer is likely greater than 2,730 ac-ft/yr. Therefore, there is a reasonable probability that unappropriated water is available for this proposed appropriation.

| Year        | No. of Permits Reporting | Appropriation (ac-ft) | Pumpage (ac-ft) |
|-------------|--------------------------|-----------------------|-----------------|
| 2015        | 46                       | 21882.36              | 4306.86         |
| 2014        | 45                       | 21296.36              | 3966.34         |
| 2013        | 43                       | 20906.12              | 4141.1          |
| 2012        | 33                       | 17312.12              | 6042.81         |
| 2011        | 35                       | 19324.12              | 1872.77         |
| 2010        | 35                       | 19324.12              | 614.83          |
| 2009        | 35                       | 19492.12              | 1163.81         |
| 2008        | 34                       | 19212.12              | 2443.95         |
| 2007        | 34                       | 19108.12              | 3363.59         |
| 2006        | 34                       | 19943.8               | 3598.83         |
| 2005        | 36                       | 19563.8               | 2896.82         |
| 2004        | 34                       | 18843.8               | 2819.08         |
| 2003        | 33                       | 15696                 | 2526.26         |
| 2002        | 33                       | 15995.8               | 3223.92         |
| 2001        | 33                       | 16475.8               | 1625.24         |
| 2000        | 33                       | 16475.8               | 3009.11         |
| 1999        | 40                       | 19675.8               | 1248.07         |
| 1998        | 42                       | 18975.8               | 697.51          |
| 1997        | 42                       | 19087.8               | 1509            |
| 1996        | 42                       | 19087.8               | 1795.61         |
| 1995        | 42                       | 20410.8               | 999.46          |
| 1994        | 41                       | 20146.8               | 2026.03         |
| 1993        | 45                       | 21835.8               | 334.2           |
| 1992        | 46                       | 23224.8               | 1682.6          |
| 1991        | 45                       | 23080.8               | 4056.5          |
| 1990        | 45                       | 23400.8               | 3716            |
| 1989        | 45                       | 23565.8               | 3984.1          |
| 1988        | 44                       | 23245.8               | 4537.4          |
| 1987        | 42                       | 23080.8               | 2198            |
| 1986        | 42                       | 23108.8               | 2986            |
| 1985        | 43                       | 23810.8               | 2377            |
| 1984        | 44                       | 24770.8               | 1692            |
| 1983        | 40                       | 21761.8               | 1368.89         |
| 1982        | 39                       | 20935.8               | 1647.15         |
| 1981        | 48                       | 21657                 | 3132            |
| 1980        | 47                       | 21477                 | 2644            |
| 1979        | 49                       | 21477                 | 2933            |
| <b>Min</b>  | <b>33</b>                | <b>15696</b>          | <b>334.2</b>    |
| <b>Max</b>  | <b>49</b>                | <b>24770.8</b>        | <b>6042.81</b>  |
| <b>Avg.</b> | <b>40.2</b>              | <b>20504.6</b>        | <b>2572.4</b>   |

Table 3- Historic irrigation use from the Choteau: West aquifer (Water Rights, 1979-2016)

#### EXISTING WATER RIGHTS:

The nearest well authorized by a water right/permit to withdraw water from the Choteau: West aquifer to the well site proposed by this application is approximately 0.6 miles southwest of the proposed well site (Water Rights, 2016b). There are no other appropriative wells completed into the Choteau: West aquifer within approximately 3.5 miles of the proposed well site (Water Rights, 2016b). There are domestic wells within approximately two miles of the proposed well site that appear to be completed into the Choteau: West aquifer (Water Rights, 2016c).

The hydrographs for observation wells completed into the Choteau: West aquifer document during the irrigation season there is a reduction in artesian head pressure in the aquifer, especially in the areas where there is a concentration of irrigation permits. However, the observation wells show that even at their respective lowest recorded water levels there is still several feet of artesian head pressure above the aquifer. Observation well DG-80C, the closest observation well to the proposed well site, has had a maximum drawdown of 22.4 feet of artesian head pressure during any one year, and during the lowest recorded water level there was at least 17 feet of artesian head pressure above the top of the aquifer. At observation well DG-69B, the second closest observation well, the largest single year drawdown was 28 feet, and there was at least 70 feet of artesian head pressure below the lowest recorded water level. The maximum drawdown year was 2012 and the lowest recorded water level year was 1981 for both observation wells.

The Theis equation can be used to estimate drawdown from pumping. Using a time of 80 days of continuous pumping, the requested diversion rate (1.92 cfs), a transmissivity of 17,000 ft<sup>2</sup>/d (Kume, 1977), and a storativity of 0.00001 (Lohman, 1972), the estimated drawdown at observation well DG-80C, which is 1.3 miles away from the proposed well site, would be 6.82 feet (Utah, 2016). This situation is not realistic but is representative of a worst case scenario. Therefore, drawdown is expected to be less than that at observation well DG-80C. The 80 day timeframe is used because pumping continuously at the requested diversion rate for that long would mean the applicant has applied two feet of water per acre, which is the statutory limit for appropriation per acre of irrigated land. At the well authorized by Water Right No. 2142-3, approximately 0.6 miles from the proposed well site, the estimated drawdown using the previously listed values is estimated to be 8.02 feet under the worst case scenario (Utah, 2016).

The Water Management Board has previously considered the effects of pumping on artesian head pressure and has promulgated rules to place water to maximum beneficial use. The Water Management Board has 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”

In the past, the Water Management Board has recognized to place water to maximum beneficial use, a certain amount of drawdown may occur. Since the aquifer is primarily under confined conditions, drawdown due to pumping may extend some distance from the proposed well site. The Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use of water issue for Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills. The Water Management Board adopted Findings of Facts and Conclusions of Law that noted 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 an adverse impact it would also be in conflict with SDCL 46-1-4 (Water Rights, 1995). With that in mind, some existing well owners may need to lower their pumps to accommodate for deeper water levels depending on the specific characteristics of the Choteau: West aquifer at the proposed well site. However when considering the statute (SDCL 46-6-6.1), rule (ARSD 74:02:04:20(7)), and the artesian head pressure in the aquifer, well interference from this proposed diversion is not expected to cause an adverse impact. Therefore, there is a reasonable probability that any interference created by pumping this proposed diversion will not be adverse.

There was concern over the impact of irrigation development to artesian head pressure in this area in the 1950's. Irrigation pumping caused declines in the water levels in domestic wells resulting in some wells no longer flowing at land surface and other wells requiring their pumps to be lowered. These early controversies have been resolved and the most recent issue in the area regarding the Choteau: West aquifer was a complaint regarding a pump no longer able to pump water that was filed in 1989. That issue was resolved by lowering the pump inlet. The changes to South Dakota water law since then no longer protect artesian head pressure as a means of water delivery and have made these controversies into non-issues.

#### CONCLUSIONS:

1. Application No. 8224-3 proposes to divert water from the Choteau: West aquifer at a maximum rate of 1.92 cfs for the irrigation of 135 acres in Douglas County.
2. Based on the observation well data and hydrologic budget, there is a reasonable probability there is unappropriated water available for this application.
3. There is a reasonable probability the diversion proposed by this application can be made without adversely impacting existing appropriative or domestic users.



Adam Mathiowetz, PE  
SD DENR-Water Rights Program

Approved by:



Ken Buhler  
SD DENR-Water Rights Program

## REFERENCES:

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# Affidavit Of Publication

RECEIVED

STATE OF SOUTH DAKOTA

AUG 26 2016

County of Douglas

WATER RIGHTS  
PROGRAM

GERRI K. OLSON of said County and State, being first duly sworn, on her oath says:  
**THE DELMONT RECORD** is a weekly newspaper of general circulation, published in Delmont, Douglas County, State of South Dakota by **GERRI K. OLSON** and has been such newspaper during the times hereinafter mentioned; that the said newspaper is a legal newspaper; that it has a bonefide paid circulation of more than 200 copies weekly; that it has been published within said County of Douglas in the English language and has been admitted to the United States mail under the second class mailing privilege, for at least one year prior to the publication of such notices; that I the undersigned, am Editor and Publisher of said newspaper, in charge of the advertising department thereof, and have personal knowledge of all the facts stated in this affidavit; that the advertisement headed

Notice of Application

a printed copy of which is hereto attached, was printed and published in said newspaper for once successive weeks and that said notice was published in the issues of said paper on the dates as follows, to-wit:

The first publication being made on July 26, 2016  
the second publication being made on \_\_\_\_\_, 20\_\_\_\_  
the third publication being made on \_\_\_\_\_, 20\_\_\_\_  
the fourth publication being made on \_\_\_\_\_, 20\_\_\_\_  
the fifth publication being made on \_\_\_\_\_, 20\_\_\_\_  
the sixth publication being made on \_\_\_\_\_, 20\_\_\_\_  
the seventh publication being made on \_\_\_\_\_, 20\_\_\_\_  
the eighth publication being made on \_\_\_\_\_, 20\_\_\_\_

that \$ 22.29 being the full amount of the fee for publication of the annexed notice, insures solely to the benefit of the publisher of said newspaper; that no arrangement or understanding for a division thereof has been made with any person, and that no part thereof has been agreed to be paid to any person whomsoever.

Gerri K. Olson

Gerri K. Olson

Subscribed and sworn to before me this 24<sup>th</sup> day of Aug., 2016

Gerri K. Olson

Notary Public, Douglas County, South Dakota

My Commission Expires Aug. 2020

## Notice of Application No. 8224-3 to Appropriate Water

Notice is given that Butler Farms LLC, c/o Nya Goehring, 28326 Broadway St., Delmont, S.D. 57330 has filed an application for a water permit to appropriate 1.92 cubic feet of water per second from one well to be completed into the Choteau West Aquifer (219 feet deep) located in the SW 1/4 NE 1/4 Section 26 for irrigation of 135 acres located in the NE 1/4 Section 26; all in T98N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8224-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://dewr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 5, 2016.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the 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.

Steven M. Primer, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$22.29. 6/17/20c

RECEIVED

JUL 29 2016

WATER RIGHTS  
PROGRAM

## LEGALS

fully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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Steven M. Pirner,  
Secretary,  
Department of  
Environment and  
Natural Resources.

Published once at the total approximate cost of \$65.23

## LEGALS

### NOTICE OF APPLICATION NO. 8224-3 to Appropriate Water

Notice is given that Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway St., Delmont SD 57330 has filed an application for a water permit to appropriate 1.92 cubic feet of water per second from one well to be completed into the Choteau-West Aquifer (219 feet deep) located in the SW 1/4 NE 1/4 Section 26 for irrigation of 135 acres located in the NE 1/4 Section 26; all in T98N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8224-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlaw-

## AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA )  
 ) SS  
COUNTY OF DAVISON )

Penny Hohbach of said county, being, first duly sworn, on oath, says; that he/she is the publisher or an employee of the publisher of The Daily Republic, a daily newspaper, published in the City of Mitchell, in said County of Davison, and State of South Dakota; that he/she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive; that said newspaper has been published within the said County of Davison and State of South Dakota, for at least one year next prior to the first publication of the attached public notice, and that the notice, order or advertisement, a printed copy of which, taken from the paper in which the same was published, and which is hereto attached and made a part of this affidavit, was published in said newspaper for 1 issues(s), to wit:

Tuesday, July 26, 2016

That the full amount of the fee charged for the publication of the attached public notice insures to the sole benefit of the publisher or publishers; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever, that the fees charged for the publication thereof are: \$65.23

Signed:

*Penny Hohbach*

Subscribed and sworn to before me this 26th day of July, 2016.

*Deb Townsend*

Notary Public  
County of Davison

My Commission Expires: 09-21-18

Prepared by: The Daily Republic, P.O. Box 1288, Mitchell S.D. 57301 605-996-5515

DEB TOWNSEND  
Notary Public  
SEAL  
South Dakota

**Schlaak, Karen**

---

**From:** Schlaak, Karen  
**Sent:** Monday, July 18, 2016 8:06 AM  
**To:** Armour Chronicle (chronicle@unitelsd.com)  
**Subject:** 8224-3, Buhler Farms LLC  
**Attachments:** 8224-3publicnov2015.short1.docx; FORM8.FRM.doc

Attached is a notice to be published on July 26, 2016.

Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway St, Delmont SD 57330 (605 661-0988) 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.

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

*Karen Schlaak*

Water Rights Program  
523 E Capitol Ave  
Pierre SD 57501  
Phone: 605 773-3352

**Schlaak, Karen**

---

**From:** Schlaak, Karen  
**Sent:** Monday, July 18, 2016 8:09 AM  
**To:** 'phohbach@mitchellrepublic.com'  
**Subject:** 8224-3, Buhler Farms LLC  
**Attachments:** 8224-3publicnov2015.short1.docx; FORM8.FRM.doc

Attached is a notice to be published on July 26, 2016.

Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway St, Delmont SD 57330 (605 661-0988) has been notified to contact you to authorize publication and arrange for payment.

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

*Karen Schlaak*  
Water Rights Program  
523 E Capitol Ave  
Pierre SD 57501  
Phone: 605 773-3352



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

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

July 18, 2016

Nya Goehring  
28326 Broadway St  
Delmont SD 57330

Dear Ms. Goehring:

Water Permit Application No. 8224-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Armour Chronicle printed at Armour SD (Ph # 605-724-2747) and the Daily Republic printed at Mitchell SD (Ph # 605-996-5514). You will need to contact the newspaper(s) 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 newspaper(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund  
Natural Resources Engineer  
(605) 773-3352

C: Beth Schroeder, 502 Poplar Dr, Wagner SD 57380  
Gail Buhler, 38455 396<sup>th</sup> Ave, Armour SD 57313  
Carey Buhler, 600 Greenridge Lane, Mitchell SD 57301

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.

## Schlaak, Karen

---

**From:** Schlaak, Karen  
**Sent:** Wednesday, July 20, 2016 9:11 AM  
**To:** 'nyarebecca@yahoo.com'  
**Subject:** 8224-3, Buhler Farms LLC  
**Attachments:** 8224-3publicnov2015.short1.docx; 8224-3APPL.docx

As stated in our phone conversation, attached is the letter and public notice. Please contact the two papers, to authorize publication and arrange for payment. The notice is scheduled to be published on July 26<sup>th</sup>.

You will be receiving this information as well as the report and recommendation in a couple of days.

Let me know if you have questions.

*Karen Schlaak*  
Water Rights Program  
523 E Capitol Ave  
Pierre SD 57501  
Phone: 605 773-3352

NOTICE OF APPLICATION NO. 8224-3 to Appropriate Water

Notice is given that Buhler Farms LLC, c/o Nya Goehring, 28326 Broadway St., Delmont SD 57330 has filed an application for a water permit to appropriate 1.92 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (219 feet deep) located in the SW 1/4 NE 1/4 Section 26 for irrigation of 135 acres located in the NE 1/4 Section 26; all in T98N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8224-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the 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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of \_\_\_\_\_.



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

SEP 02 2016

Buhler Farms LLC  
Nya Goehring  
28326 Broadway St  
Delmont SD 57330

Dear Ms. Goehring:

Enclosed is Water Permit No. 8224-3 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,

A handwritten signature in cursive script that reads 'Jeanne Goodman'.

Jeanne Goodman, Chief Engineer  
Water Rights Program  
(605) 773-3352

enclosures

RECEIVED

JUL 05 2017

WATER RIGHTS  
PROGRAMNOTICE OF COMPLETION OF WORKS AND  
APPLICATION OF WATER TO BENEFICIAL USEDate 6-27-2017TO: Water Rights Program, DENR  
523 E. Capitol  
Pierre, SD 57501-3181

FROM:

Butler Farms LLC

(name)

28326 Broadway St

(address)

Delmont, S.D 57330

(city, state, zip)

605-261-0988

(phone)

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

Water Permit No. 8224-3 states that the water use system is to be constructed by6-27-2017

(date)

, and water is to be put to beneficial use by 6-27-2017

(date)

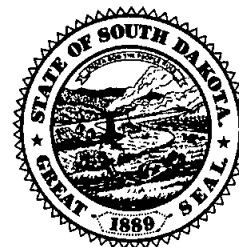
The water use system was completed on 6-27-2017

(date)

Applying the water to beneficial use was completed on 6-27-2017

(date)

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

Nga Coehring  
(signature)



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

July 6, 2017

8224-3

Nya Goehring  
Buhler Farms LLC  
28326 Broadway St  
Delmont SD 57330

Dear Ms. Goehring:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your irrigation system.

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

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

Sincerely,

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

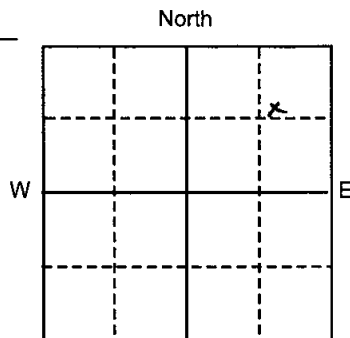
8224-3

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NE 1/4 Sec 26 Twp 98N Rg 63WCounty Douglas

Please mark well location with an "X"



Well Completion Date

2-6-17

1 Mile

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

1100 ft. from feed lot (identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

Reverse RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe

| PIPEWEIGHT      | DIAMETER     | FROM        | TO            | HOLE DIAMETER |
|-----------------|--------------|-------------|---------------|---------------|
| LB/FT <u>16</u> | IN <u>16</u> | FT <u>0</u> | FT <u>140</u> | IN <u>28</u>  |
| LB/FT           | IN           | FT          | FT            | IN            |
| LB/FT           | IN           | FT          | FT            | IN            |

## GROUTING DATA:

| Grout Type       | No. of Sacks | Grout Weight     | From        | To            |
|------------------|--------------|------------------|-------------|---------------|
| <u>Bentonite</u> | <u>93</u>    | <u>95</u> Lb/gal | <u>0</u> Ft | <u>140</u> Ft |
|                  |              | Lb/gal           | Ft          | Ft            |

Describe grouting procedure

premixSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 16 Inches Length 60 FeetMaterial PVCSlot Size 85 Set From 140 Feet to 200 Feet

Other information

WAS A PACKER OR SEAL USED? ☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? HTH TabletsLab to which water quality sample sent for analysis ☐ No, Why Not?Well Owner: Kurt BuhlerBusiness Name: Buhler Farms LLCAddress: 28326 Broadway StCity, State, Zip: Delmont

## WELL LOG:

| FORMATION          | DEPTH |     |
|--------------------|-------|-----|
|                    | FROM  | TO  |
| Top soil           | 0     | 1   |
| Gravel             | 1     | 14  |
| Blue clay / gravel | 14    | 142 |
| Sand / gravel      | 142   | 195 |
| clay               | 195   | 200 |
|                    |       |     |
|                    |       |     |
|                    |       |     |
|                    |       |     |

STATIC WATER LEVEL 80 FEET

If flowing: closed in pressure \_\_\_\_\_ PSI

GPM flow \_\_\_\_\_ through \_\_\_\_\_ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other \_\_\_\_\_

Reduced flow rate \_\_\_\_\_ GPM

Can well be completely shut in?

## WELL TEST DATA:

☐ Pumped Describe: Air Development☒ Bailed☐ Other

Pumping Level Below Land Surface

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: \_\_\_\_\_ GPM

## REMARKS

Chateau: West AmThis well was drilled under license # 805 and this report is true and accurate.Drilling firm: Sum Heine Well Co.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date: JAN 24 2018WATER RIGHTS  
PROGRAM