

**WATER PERMIT NO. 8371-3**

Name of Applicant: **Joint Well Field Inc**

Address: **PO Box 340, Toronto SD 57268** Phone: **605 690-8673**

Amount of Water Claimed: **434 AF** Total Acres: **NA**

Source of Water Supply: **1 well - Big Sioux Aquifer**

Water to be used for: **rural water system use** County: **Brookings**

Type of Waste Disposal System:

Location: **3 miles north of Bruce SD**

**PRIORITY** Date Received: **8-3-18** Application/License Fee: **\$ 1,150**

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

Remarks: **Withdrawal from Future Use Permit No. 6988A-3**

Diversion Point: **SE 1/4 SE 1/4 Sec 24-T112N-**  
**R51W**

Land to be Irrigated: **NA**

Depth of Well: **50 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **8-30-18**

By: **Karen Schlaak**

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

|  |  |  |    |   |  |
|--|--|--|----|---|--|
|  |  |  |    |   |  |
|  |  |  |    |   |  |
|  |  |  | 24 |   |  |
|  |  |  |    |   |  |
|  |  |  |    | ② |  |

**SOUTH DAKOTA  
WATER PERMIT NO. 8371-3**

Date of first receipt of application August 3, 2018.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8371-3 to Joint Well Field Inc., PO Box 340, Toronto SD 57268 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. 8371-3 authorizes placing to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. The water was appropriated and reserved by Future Use Permit Nos. 6988-3 and 6988A-3. This site is located approximately 3 miles north of Bruce SD.
2. The water appropriated shall be used for the purpose of Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties 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. 8371-3 is November 16, 2018.
5. The date from which applicant may claim right is February 28, 2008 (established by No. 6988-3).
6. One-fifth of the construction is to be completed on or before May 16, 2021.
7. All construction is to be completed on or before November 16, 2023.
8. Water is to be put to beneficial use on or before November 16, 2027.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

**QUALIFICATIONS**

1. The well 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 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. 8371-3 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. Joint Well Field Inc. shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux:Brookings aquifer.
4. Water Permit No. 8371-3 appropriate up to 434 acre feet of water annually.

**WATER MANAGEMENT BOARD**

By: *Jeanne Goodman*  
Jeanne Goodman, Chief Engineer  
Water Rights Program  
Department of Environment and Natural Resources

NOV 29 2018  
date



RECEIVED

AUG 03 2018

WATER RIGHTS  
PROGRAM

|                                                                                                         |                                     |                                 |
|---------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------|
| Mail to:<br><br>DENR - Water Rights<br>523 E Capitol Ave<br>Pierre, SD 57501-3182<br>ph. (605) 773-3352 | No. <u>8371-3</u> (office use only) | Hydrologic Unit <u>10170202</u> |
|                                                                                                         | Basin <u>Sioux River</u>            |                                 |
|                                                                                                         | Newspaper <u>see list</u>           |                                 |
|                                                                                                         |                                     |                                 |

**Application For Permit To Appropriate Water Within The State Of South Dakota****Check use(s) of water:**

|                                                        |                                                    |                                          |                                        |
|--------------------------------------------------------|----------------------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Municipal                     | <input type="checkbox"/> Water Distribution System | <input type="checkbox"/> Recreational    | <input type="checkbox"/> Institutional |
| <input checked="" type="checkbox"/> Rural Water System | <input type="checkbox"/> Commercial                | <input type="checkbox"/> Fish & Wildlife | <input type="checkbox"/> Geothermal    |
| <input type="checkbox"/> Domestic (over 18 gpm)        | <input type="checkbox"/> Industrial                | <input type="checkbox"/> Other           |                                        |

**Type of Application:**  
(check one)

|                                                                                                                   |                                                                  |                                                 |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> New                                                                                      | <input type="checkbox"/> Vested Right (Use predates Mar 2, 1955) | <input type="checkbox"/> Future Use Reservation |
| <input checked="" type="checkbox"/> Place to Beneficial Use Water Reserved by Future Use Permit No. <u>6988-3</u> |                                                                  |                                                 |
| <input type="checkbox"/> 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 Joint Well Field Inc.

Mailing Address PO Box 340 Toronto SD 57268  
(Address) (City) (State) (Zip Code)

Phone 605-794-4201 Mobile 605-690-8673 Email bdrws@itctel.com

2. Amount of water claimed 1 \*CFS or 434 \*\*GPM and 434 \*\*\*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 Big Sioux Aquifer

4. Location of point of diversion 1 well in SE1/4 Sec. 24 112N-51W (SE 1/4 SE 1/4) County Brookings  
(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 Brookings, Deuel, Moody Hamlin, Kingsbury, Lake, Grant, Miner, McCook Clark Minnehaha6. Annual period during which water is to be used January 1 - December 31

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)

Additional water supply for Brookings-Deuel Rural Water and Kingbrook Rural Water.

Joint Well Field Inc. requests permission to drill and test pump well prior to approval of application.

I, Steve P. Wulfe 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.

## 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 \_\_\_\_\_  
(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) 50' Depth to Top of Water Bearing Material \_\_\_\_\_ Depth to Water from Surface \_\_\_\_\_
- d) Distance to nearest domestic well on applicant's property \_\_\_\_\_ Property owned by others 1200'

### 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)

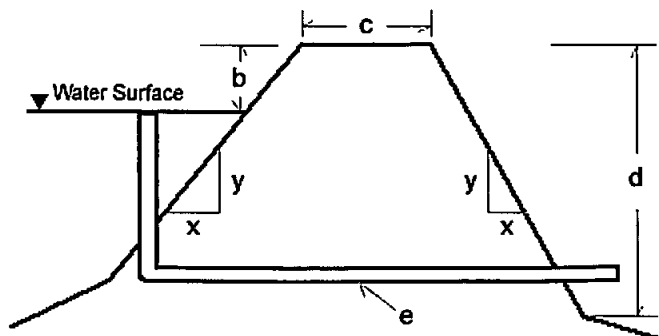
Upstream \_\_\_\_\_

Downstream \_\_\_\_\_

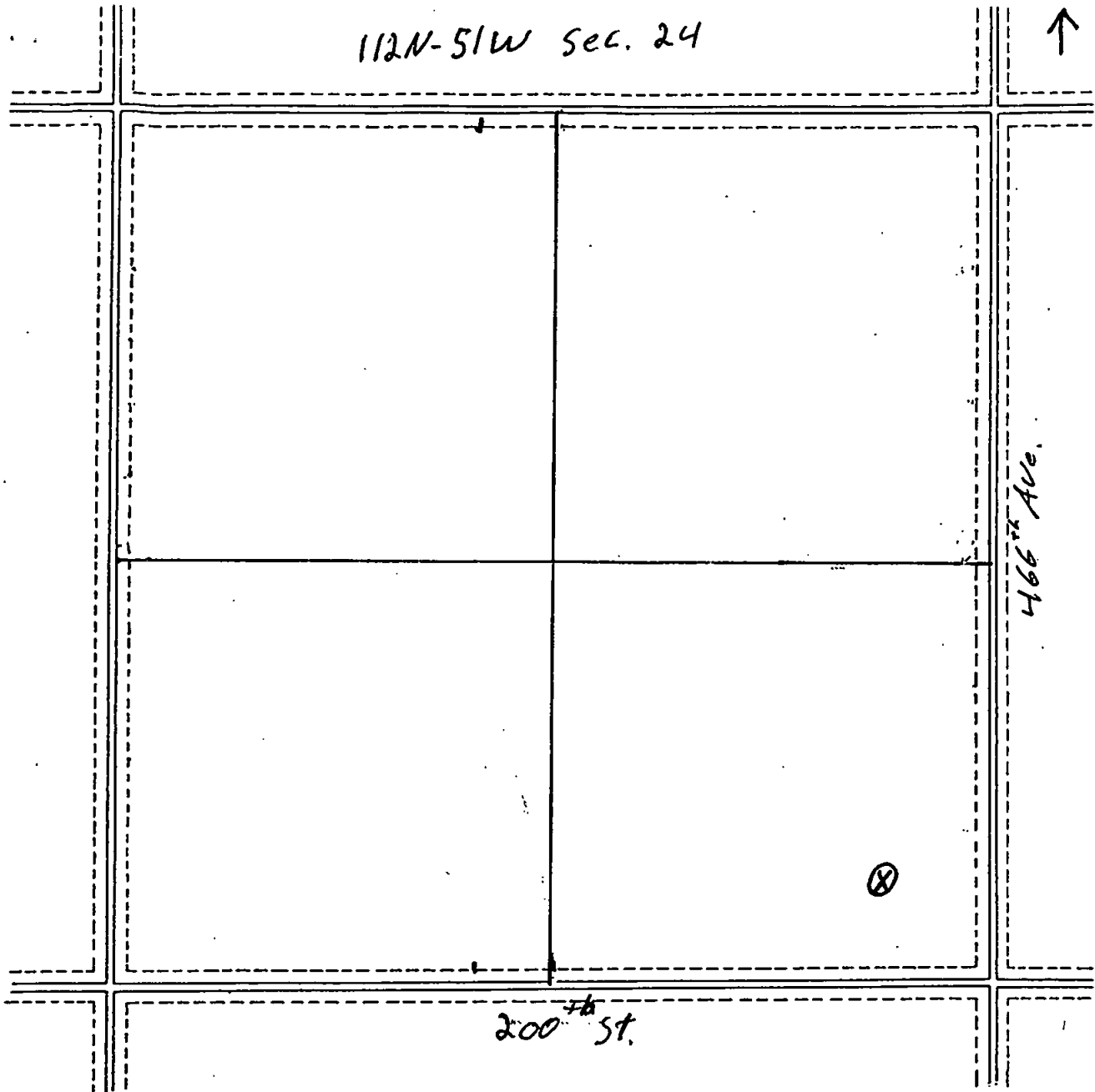
h) Surface Area of Impoundment \_\_\_\_\_

i) Storage \_\_\_\_\_ Acre Feet

j) Drainage Area Above Dam \_\_\_\_\_ Acres



112N-51W Sec. 24



466th Ave.

200th St.



# RECEIPT

## WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

RECEIVED OF Joint Wellfield PO Box 340 Toronto, SD 57268 Date August 6, 2018

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

|                                                                                                                                               |       |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Fee for Application for Permit No. <u>6988A-3 (\$100)</u> <u>8371-3</u> to Appropriate Water, to construct and to put water to beneficial use | 1150  | 00      |
| Fee for Application for Permit No. _____ to Appropriate Water for Future use (\$950)                                                          |       |         |
| 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>8371-3</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. _____                                                                     |       |         |
| <u>Refunded \$100</u>                                                                                                                         |       |         |
| (Any Other Work Provided by Law)                                                                                                              | TOTAL | 1350 00 |

No. **08736**

By Jeanne Goodman  
Chief Engineer vm



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

August 13, 2018

Joint Well Field Inc.  
c/o Gene Wilts, Manager  
PO Box 340  
Toronto SD 57268

Dear Mr. Wilts:

Thank you for submitting the *Application for a Permit* to place water to beneficial use reserved by Water Permit No. 6988-3.

As stated in the phone conversation with Eric Gronlund and I last Friday, enclosed is an partially completed *Application for Permit* to expand the future use area authorized by Water Permit No. 6988-3 to include the SE 1/4 Section 24-T112N-R51W. Please review the application, sign and return. I have also included an aerial photo map. Please outline the expanded future use area. The fee will be \$100. A check for \$1,350 was submitted with the application to place water to beneficial use which was \$200 more than required. A portion of the overpayment will be applied towards this additional application.

We also discussed the requirement that by law, all future use permits are to be reviewed by the Water Management Board every seven years to determine whether a reasonable need exists for the reserved water. Future Use Permit No. 6988-3 approved in 2008 is overdue for this review. Currently, our records show that 2,809 acre-feet of water from the Big Sioux Aquifer remain in reserve under Permit No. 6988-3.

Please respond in writing your intentions for the future use permit. The response should outline a reasonable need for retaining the future use permit, including an estimate of future needs. If the entire 2,809 acre-feet authorized by No. 6988-3 remain in reserved, the fee will be \$295.00 and will be assessed after the Water Management Board has reviewed.

If legally possible, it is our intent to try to combine the notice to expand the future use area, place water to beneficial use and the future use review into one public notice.

If you have any questions, please contact Eric Gronlund or me.

Sincerely,

A handwritten signature in cursive script that reads 'Karen Schlaak'.

Karen Schlaak  
Water Rights Program  
605 773-3352  
[karen.schlaak@state.sd.us](mailto:karen.schlaak@state.sd.us)

enclosures

November 29, 2018

**PAYMENT REQUEST FORM**

**PAYEE:** Joint Well Field Inc.  
Gene Wilts, Manager  
PO Box 340  
Toronto SD 57268

**FROM:** DENR Water Rights Program  
523 E. Capitol Ave  
Pierre, SD 57501-3181

**DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER**

Over Payment Refund-Future Use

**AMOUNT:** \$100.00

**FUNDING SOURCE:**

**GENERAL:** X

**FEDERAL:**

**OTHER:**

**COMMENTS:**

**AUTHORIZATION:**



I declare and affirm under the penalties of perjury that this claim is in all things, true and correct.  
I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued  
thereunder relating to nondiscrimination in federal assisted programs.



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

denr.sd.gov

August 13, 2018

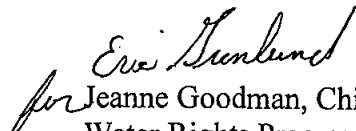
Gene P. Wilts  
Joint Well Field Inc.  
PO Box 340  
Toronto, SD 57268

Dear Mr. Wilts:

As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, Joint Well Field Inc. is authorized to have a South Dakota licensed well driller construct a test well completed into the Brookings management unit of the Big Sioux aquifer prior to approval of a water permit. The test well will be located in the SE ¼ Sec. 24-T112N-R51W. The test well must be constructed in accordance with the SD Well Construction Standards. Any test holes or test wells that are abandoned must be plugged pursuant to the SD Well Construction Standards.

Authorization must be obtained before water from the well can be used in excess of domestic use as defined by South Dakota Codified Law 46-1-6(7). Approval of this test well does not assure issuance of a water permit. Following review of a water permit application and assessing the availability of water, the potential impacts to existing users, the beneficial use, and the public interest of a permit, the Chief Engineer will make a recommendation to the Water Management Board regarding the application. The recommendation to approve, deny, or defer the application will be publicly noticed and an opportunity afforded for the public to intervene. A public hearing may be required to consider the water permit. If you have questions, call Eric Gronlund at (605) 773-3352.

Sincerely,

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



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

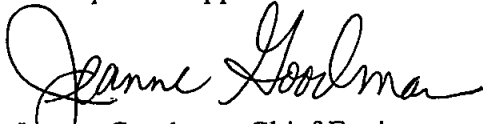
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 8371-3, Joint Well Field Inc.**

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. 8371-3, Joint Well Field Inc., PO Box 340, Toronto SD 57268.

The Chief Engineer is recommending APPROVAL of Application No. 8371-3 because 1) the proposed diversion can be developed without unlawful impairment of existing rights, 2) the proposed use is a beneficial use and, 3) it is in the public interest with the following qualifications:

1. The well 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 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. 8371-3 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. Joint Well Field Inc. shall report to the Chief Engineer annually the amount of water withdrawn from the Big Sioux:Brookings aquifer.
4. Water Permit No. 8371-3 appropriate up to 434 acre feet of water annually.

See report on application for additional information.

  
Jeanne Goodman, Chief Engineer  
October 23, 2018

**Report to the Chief Engineer**  
**Water Permit Application No. 6988A-3 & 8371-3**  
**Joint Well Field Inc.**  
**October 9, 2018**

Water Permit Application No. 6988A-3 for Joint Well Field Inc. proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Future Use Permit No. 6988-3 reserves 2,839 acre-feet of water annually from the Big Sioux: Brookings aquifer located in the N  $\frac{1}{2}$  NE  $\frac{1}{4}$  Section 24, N  $\frac{1}{2}$  NE  $\frac{1}{4}$  Section 25; all in T112N-R51W and the SW  $\frac{1}{4}$  Section 19-T112N-R50W. Application No. 6988A-3 proposes to add the SE  $\frac{1}{4}$  Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Water Permit Application No. 8371-3 for Joint Well Field Inc. proposes to use 434 acre-feet of water annually at a maximum instantaneous diversion rate of 1.0 cubic feet per second (cfs) from one well to be completed in the Big Sioux: Brookings aquifer located in the SE  $\frac{1}{4}$  Section 24-T112N-R51W. This amount would be taken from the amount reserved by Future Use Permit No. 6988-3. The proposed well location for this application is located in the area that Water Permit Application No. 6988A-3 proposes to add to the future use area.

**Aquifer: Brookings Management unit of the Big Sioux aquifer (Big Sioux: Brookings)**

**Hydrogeologic Information and Aquifer Characteristics**

The Big Sioux aquifer is a shallow, glacial aquifer that underlays the Big Sioux River valley and many of its tributaries (Koch, 1980). It is made up of very permeable, well-sorted glacial outwash sand (mostly medium to very coarse) and gravel (mostly very fine to medium) that overlies a relatively impermeable glacial till (Hamilton, 1989 and Koch, 1980). Near the Big Sioux River and its major tributaries, the aquifer is under unconfined conditions; elsewhere it can underlay glacial till and be under locally confined conditions (Hamilton, 1989). However the Big Sioux aquifer is considered to be primarily an unconfined aquifer (Hedges et al., 1982).

The Big Sioux: Brookings aquifer underlies portions of Brookings, Deuel, Hamlin, Kingsbury, and Moody counties. The Brookings management unit is hydraulically connected to the surface water resources of the Big Sioux River, its tributaries, and area lakes (Koch, 1980). Groundwater in the Brookings management unit is hydraulically connected to the North, North Deer Creek, Unnamed Creek, Six Mile Creek, Aurora, and the Moody management units of the Big Sioux aquifer (Hedges et al., 1982). Groundwater flow is locally in the direction of the slope of the land, which is generally toward the Big Sioux River and local lakes and regionally toward the south (Hedges et al., 1982; Hamilton, 1989; and Kume, 1985). A compilation of county water resource investigations (Hamilton, 1989; Hansen, 1988; and Kume, 1985) by Stonesifer (2013) estimated the aerial extent of the Big Sioux: Brookings aquifer at approximately 323,000 acres shown in Figure 1.

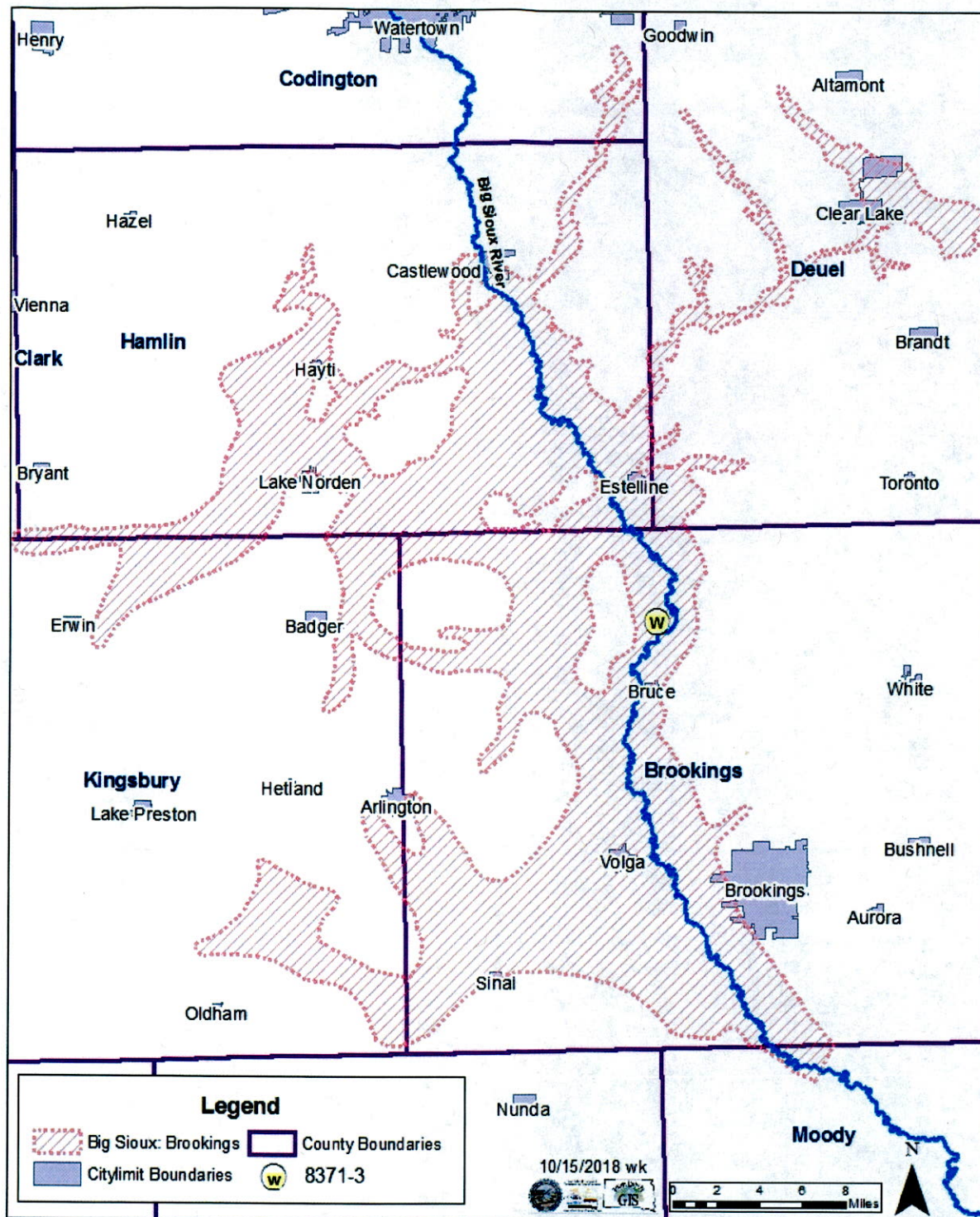


Figure 1: Big Sioux: Brookings aquifer (BS:B) as mapped by Stonesifer (2013)

There was no well or testhole information submitted with these applications. The Water Rights program has two observation wells (BG-75M and BG-75N) located in close proximity to the proposed well site for Application No. 8371-3. The lithologic information for BG-75M (about 0.1 miles from the proposed wellsite) indicates sand and gravel from 3 to 37 feet below grade (Water Rights, 2018a). Water levels have been monitored for BG-75M since 1975, and water levels for this observation well have historically ranged from about 1.8 to 11.9 feet below ground surface (Water Rights, 2018a). The lithologic information for BG-75N (about 0.12 miles from the proposed wellsite) indicates sand and gravel from 5 to 50 feet below grade (Water Rights, 2018a). Water levels have been monitored for BG-75N since 1975, and water levels for this observation well have historically ranged from about 4.3 to 14.6 feet below ground surface (Water Rights, 2018a). The proposed well site is located about one mile west of the Big Sioux River, and there is an aquifer boundary mapped by Stonesifer (2013) about 0.8 miles west of the proposed well location.

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

#### **Water Availability**

The probability of unappropriated water available from an 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. Here, a water distribution system is involved, however the Big Sioux: Brookings aquifer is not older or lower than the Greenhorn Formation, therefore the withdrawal/recharge issue must be considered.

#### **Observation Wells**

In determining the availability of unappropriated water for a permit application Administrative Rule 74:02:05:07 requires the Water Management Board to rely on 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 annual recharge.

The Water Rights Program monitors 79 observation wells completed into the Big Sioux: Brookings aquifer. In general, the observation wells in the Big Sioux: Brookings aquifer document relatively stable water levels throughout the aquifer. Water levels in the observation

wells for the aquifer rise during wet periods and gradually decline during dry periods. Observation wells in the Big Sioux: Brookings aquifer demonstrate that the aquifer responds well to climatic conditions, with the response of the aquifer to climatic conditions masking the effects of well withdrawals. This indicates that natural conditions dominate the aquifer, and that recharge to and natural discharge from the aquifer exceeds pumping. Since recharge to and natural discharge from an aquifer can be captured for pumping, there is a reasonable probability that unappropriated water is available.

There are eight observation wells within one mile of the proposed well location for Application No. 8371-3. The locations of these observation wells are shown in Figure 2, and the hydrographs for these wells are shown in Figures 3 through 10. The hydrograph for observation well BG-75H located about 1.2 miles to the northeast is shown in Figure 11. The hydrograph for observation well BG-80C located about 1.9 miles to the southeast of the proposed well location is shown in Figure 12. Observation wells BG-75I, BG-75H, and BG-80C are representative of the general behavior of observation wells in the Big Sioux: Brookings aquifer over the period of record. Several of the observation wells in close proximity to the rural water system's well field (for example BG-75M and BG-75N) show a localized response to the pumping from the well field. However, these observation wells still respond well to climatic conditions. Since this is localized and not occurring over the entire aquifer the conclusion of the observation water analysis is that there is a reasonable probability that unappropriated water is available in the aquifer and does not change.

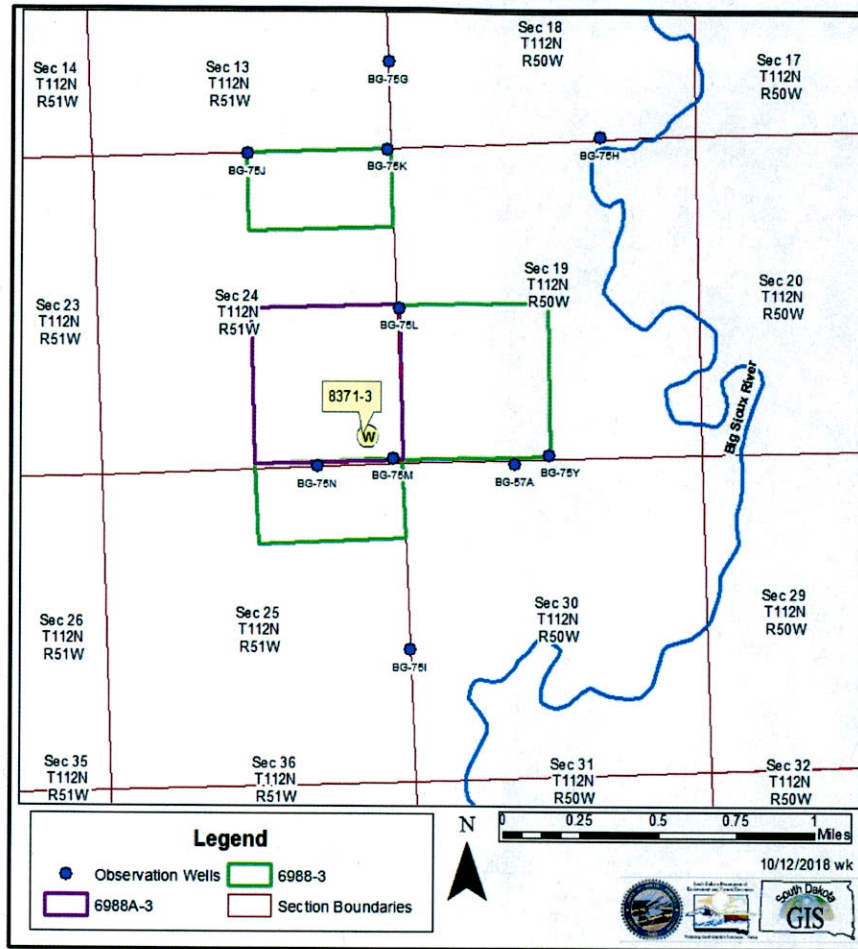


Figure 2: Area Water Rights' observation wells monitoring the Big Sioux: Brookings aquifer (Water Rights, 2018a)

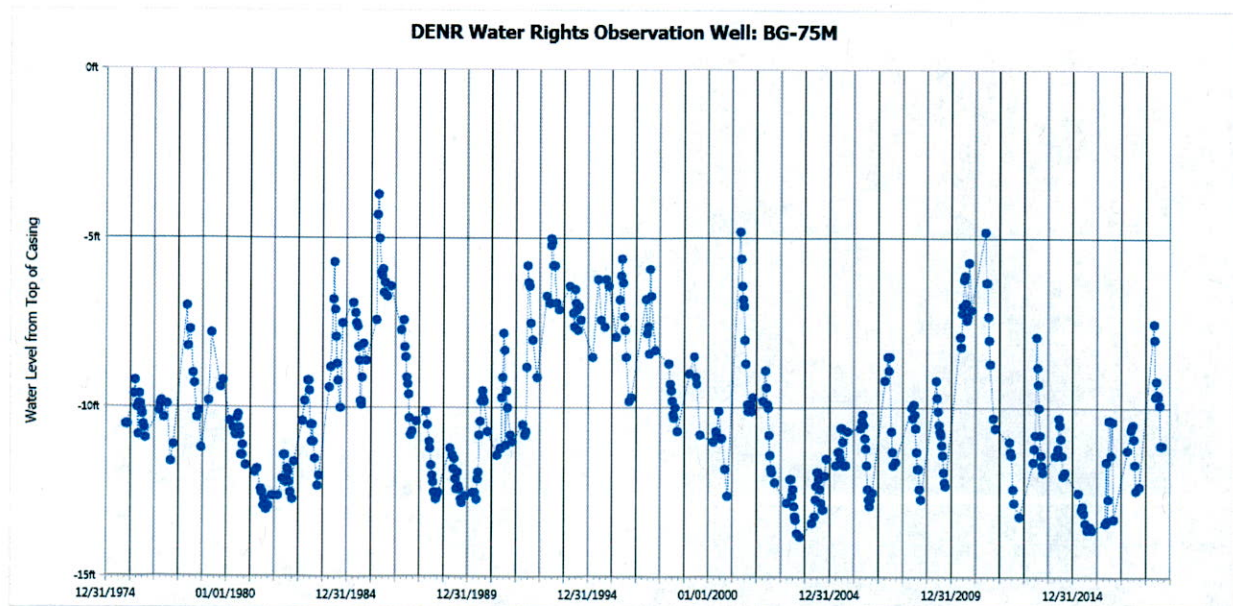


Figure 3: Hydrograph for observation well BG-75M (Water Rights, 2018a)

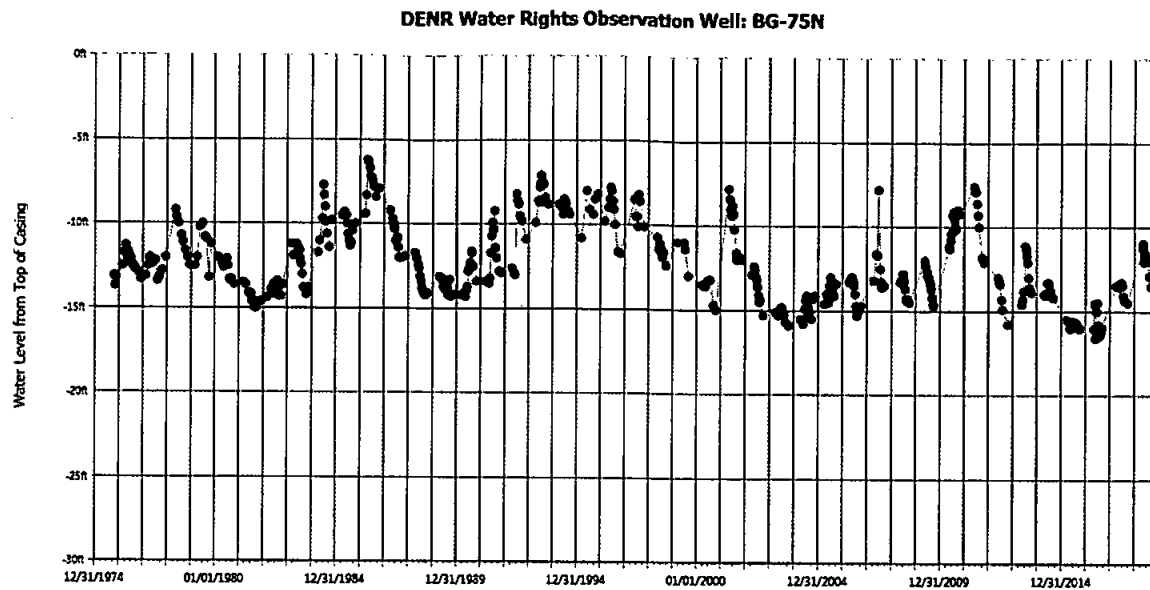


Figure 4: Hydrograph for observation well BG-75N (Water Rights, 2018a)

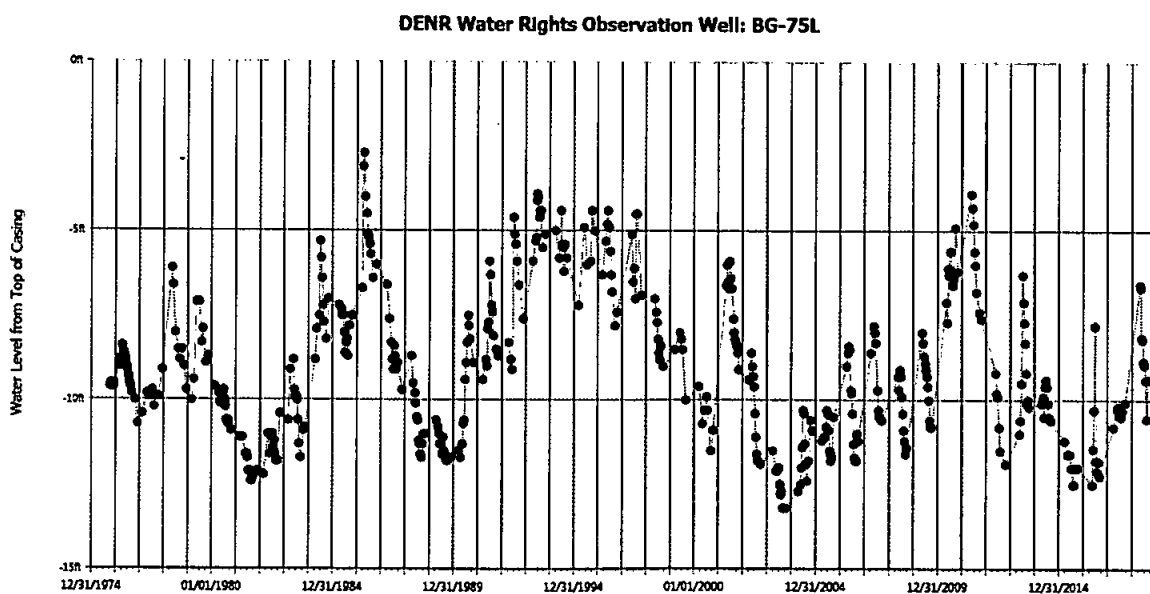


Figure 5: Hydrograph for observation well BG-75L (Water Rights, 2018a)

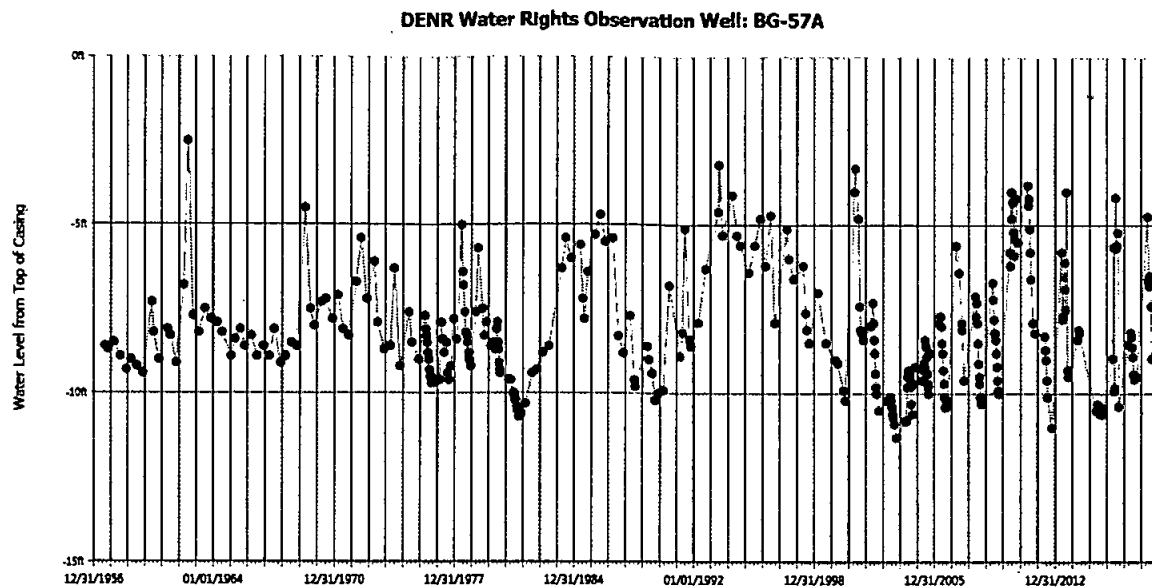


Figure 6: Hydrograph for observation well BG-57A (Water Rights, 2018a)

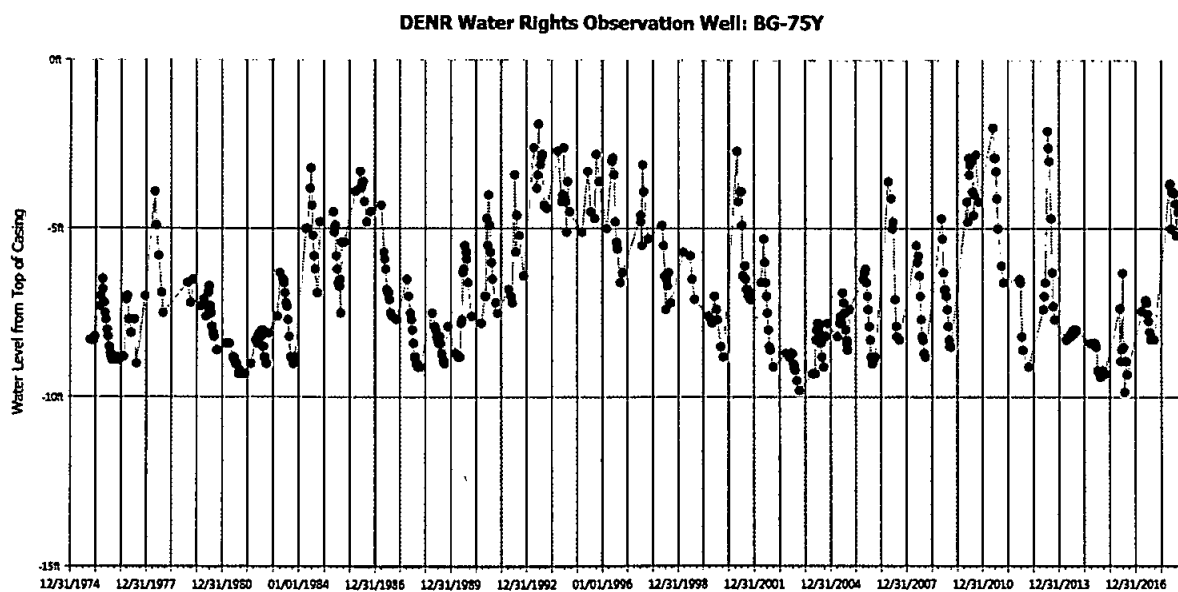


Figure 7: Hydrograph for observation well BG-75Y (Water Rights, 2018a)

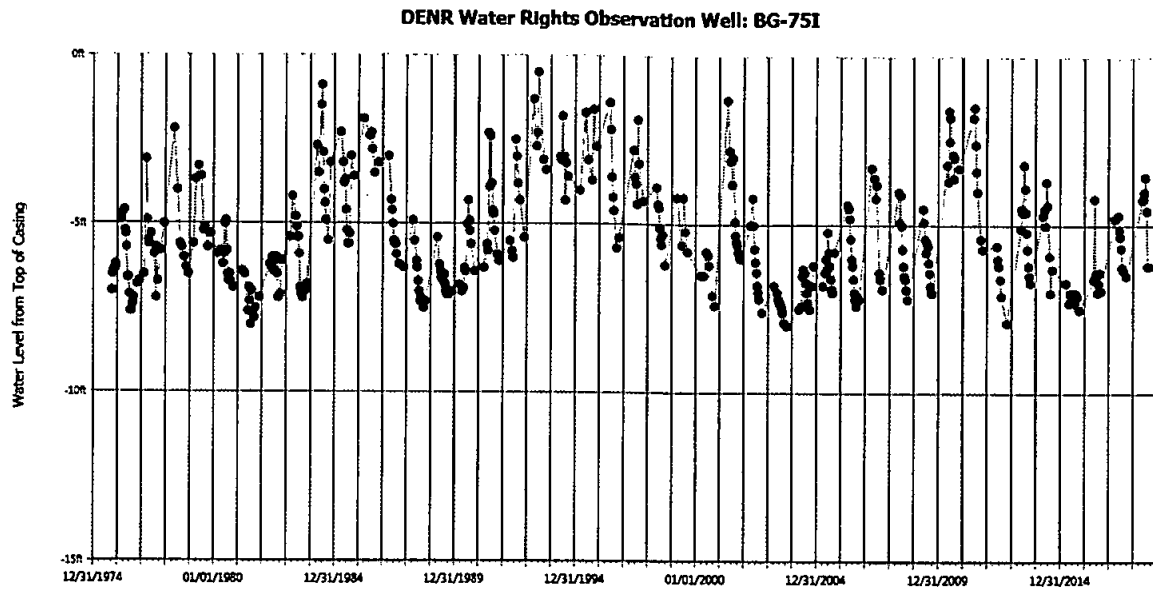


Figure 8: Hydrograph for observation well BG-75I (Water Rights, 2018a)

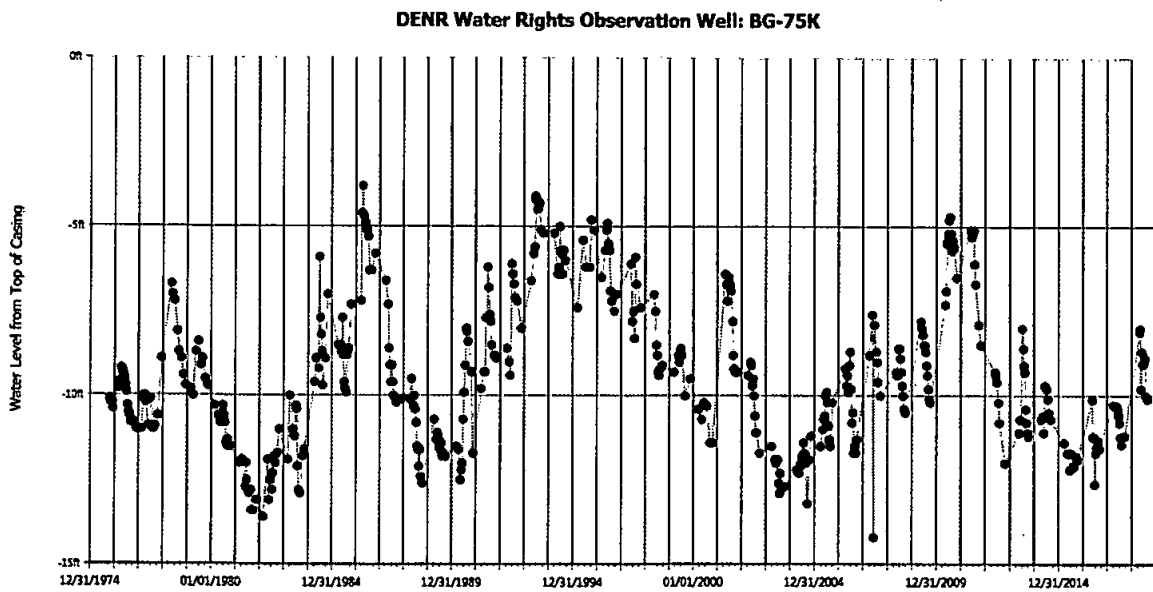


Figure 9: Hydrograph for observation well BG-75K (Water Rights, 2018a)

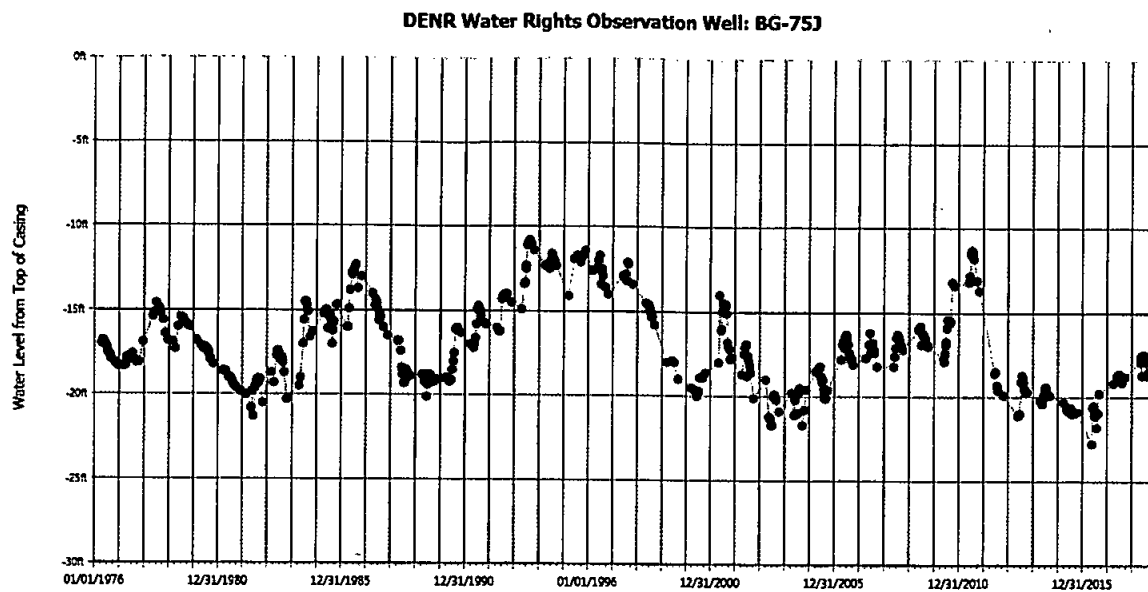


Figure 10: Hydrograph for observation well BG-75J (Water Rights, 2018a)

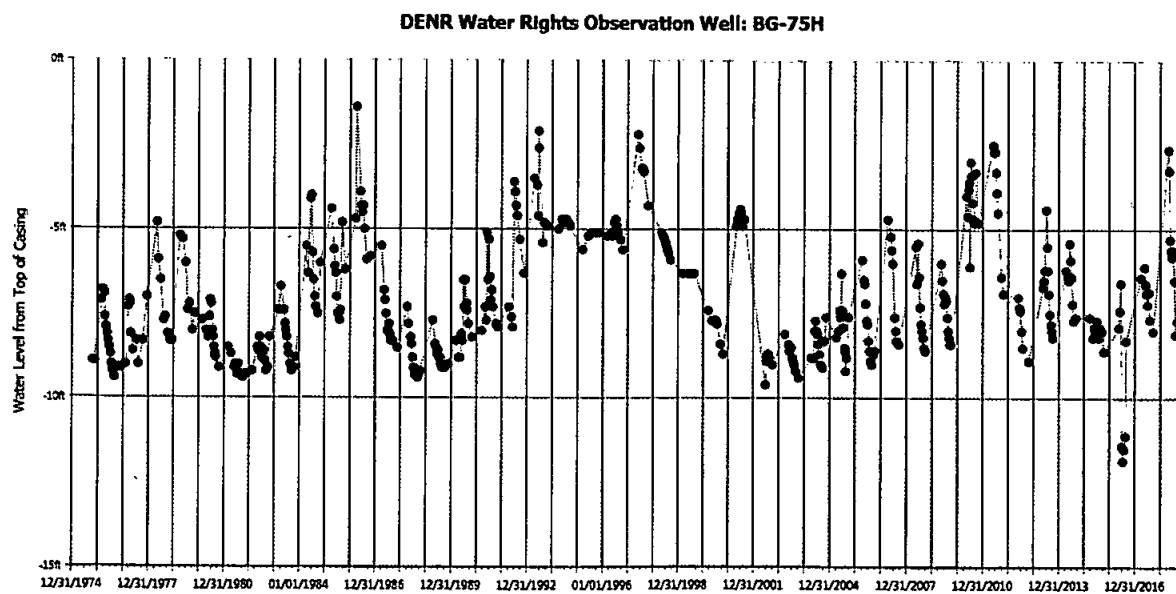


Figure 11: Hydrograph for observation well BG-75H (Water Rights, 2018a)

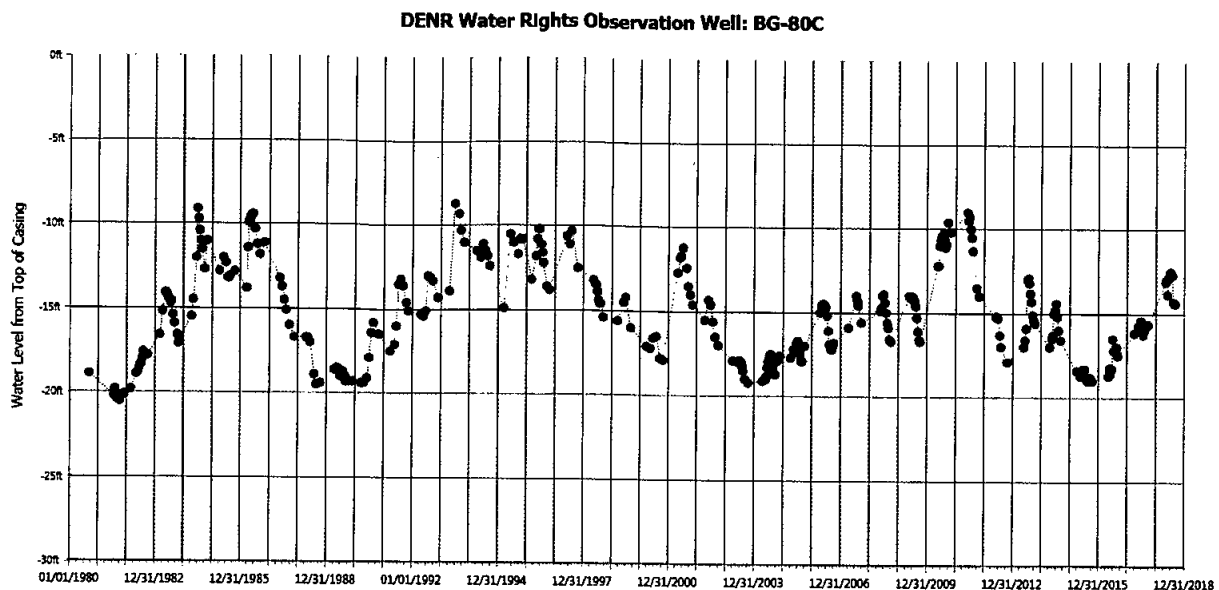


Figure 12: Hydrograph for observation well BG-80C (Water Rights, 2018a)

## Hydrologic Budget

### *Recharge*

Big Sioux: Brookings aquifer is recharged by infiltration from precipitation and seepage from surface water (Hamilton, 1989). A 1985 study by Hedges et al. reported recharge to the Big Sioux: Brookings aquifer utilizing three different methods. Based on observation well analysis, recharge was estimated at 4.0 inches per year (Hedges et al., 1985). Based on the compiled best fit modeling data from various investigations, recharge was estimated at 3.6 inches per year (information was included from other management units in this estimate) (Hedges et al., 1985). The third method used a regional flow net analysis that estimated recharge to be 1.0 inch per year for the entirety of the Big Sioux aquifer (Hedges et al., 1985). Of the regional flow net analysis Hedges et al. (1985) comments, "It should be noted that recharge rates calculated using flownet analysis are suspect and conclusions based on this method are questionable." Of these three methods the observation well analysis is considered to be the most reflective of actual conditions since it utilized management unit specific data and is more closely based on real world observation. The observation well estimate for recharge will be utilized in this report as the estimate for average annual recharge, since it is more reflective of actual conditions when evaluating the hydrologic budget for the aquifer. When utilizing the aquifer area from Stonesifer (2013), this results in an estimated average annual recharge to the Big Sioux: Brookings aquifer of about 107,000 acre-feet per year.

### *Discharge*

Withdrawals from the aquifer include evapotranspiration, seepage to surface water, and pumping (Hamilton, 1989). The amount of water withdrawn by domestic users is not considered a significant portion of the hydrologic budget of the aquifer due to the relatively low diversion

rate of domestic wells; additionally with the development of rural water systems in the area many domestic wells may no longer be in use. The remainder of withdrawals can be split into irrigation and non-irrigation uses.

Historically, average water use by non-irrigation appropriations limited by instantaneous diversion rate has been less than 60% of full time pumping at the permitted diversion rate. For water rights/permits limited to an annual volume, full use of that volume is assumed for estimation of average annual withdrawal, and it is assumed that future use permits will be fully developed. There are 11 future use permits in the aquifer reserving a total of 7,120 acre-feet (Water Rights, 2018b). The municipalities of Bruce, Clear Lake, and Hayti currently utilize rural water as a primary water source and maintain their water rights for backup and emergency use purposes, and are excluded from the estimate of average annual withdrawals (Drinking Water Program, 2018 and Friedeman, 2018). Water use by non-irrigation rights/permits limited by diversion rate can be estimated at about 7,975 acre-feet per year and those limited by an annual volume at 5,430 acre-feet per year (Water Rights, 2018b). This yields an estimated annual non-irrigation use of about 20,525 acre-feet per year.

The Water Rights Program collects and maintains irrigation data from across the state. Reported irrigation pumping from the Big Sioux: Brookings aquifer from 1979 to 2017 is shown in Figure 13. The average reported pumpage for this time period is about 8,890 acre-feet, with a minimum of 1,042.9 acre-feet in 1993 and a maximum of 19,482.5 acre-feet in 2012.

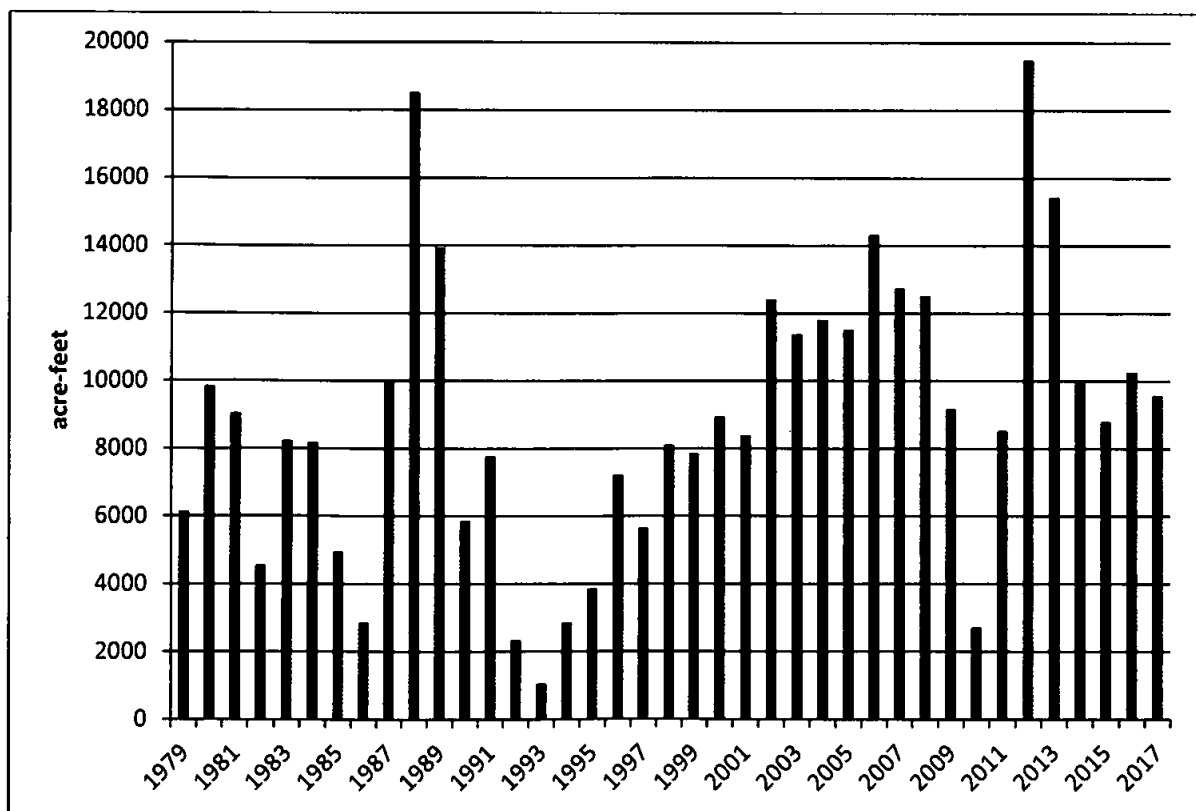


Figure 13: Reported irrigation pumpage over the period of record from the Big Sioux: Brookings aquifer (Water Rights, 1980-2018)

### *Balance*

The estimated total average annual withdrawal from the aquifer is 29,415 acre-feet per year. When compared to the estimated average annual recharge estimated from the recharge rate based on observation well data analysis by Hedges et al. (1985) of 107,000 acre-feet per year, estimated average annual recharge exceeds estimated average annual withdrawals. Since Application No. 8371-3 proposes to put to beneficial use 434 acre-feet of water annually that is currently reserved by Future Use Permit No. 6988-3. When doing an analysis of the hydrologic budget future use permits are assumed to be fully developable, so the appropriation proposed by Application No. 8371-3 is already accounted for in the hydrologic budget has been accounted for since Future Use Permit No. 6988-3 was approved. Therefore, there is a reasonable probability that water is available to meet the needs of this application.

### **Existing Users**

Area water rights/permits for the Big Sioux: Brookings are shown in Figure 14 and summarized in Table 1. The nearest water right/permit not held by the applicant or associated with Joint Well Field Inc. (Joint Well Field Inc. is a cooperative venture of the Brookings Deuel RWS and Kingbrook RWS) is Water Right No. 2125-3 for irrigation use located about 0.5 miles southeast of the proposed well location. There are several domestic well completion reports on file with the Water Rights Program within two miles of the proposed wellsite and expanded future use area for these applications, several of which are likely completed into the Big Sioux: Brookings aquifer (Water Rights, 2018c).

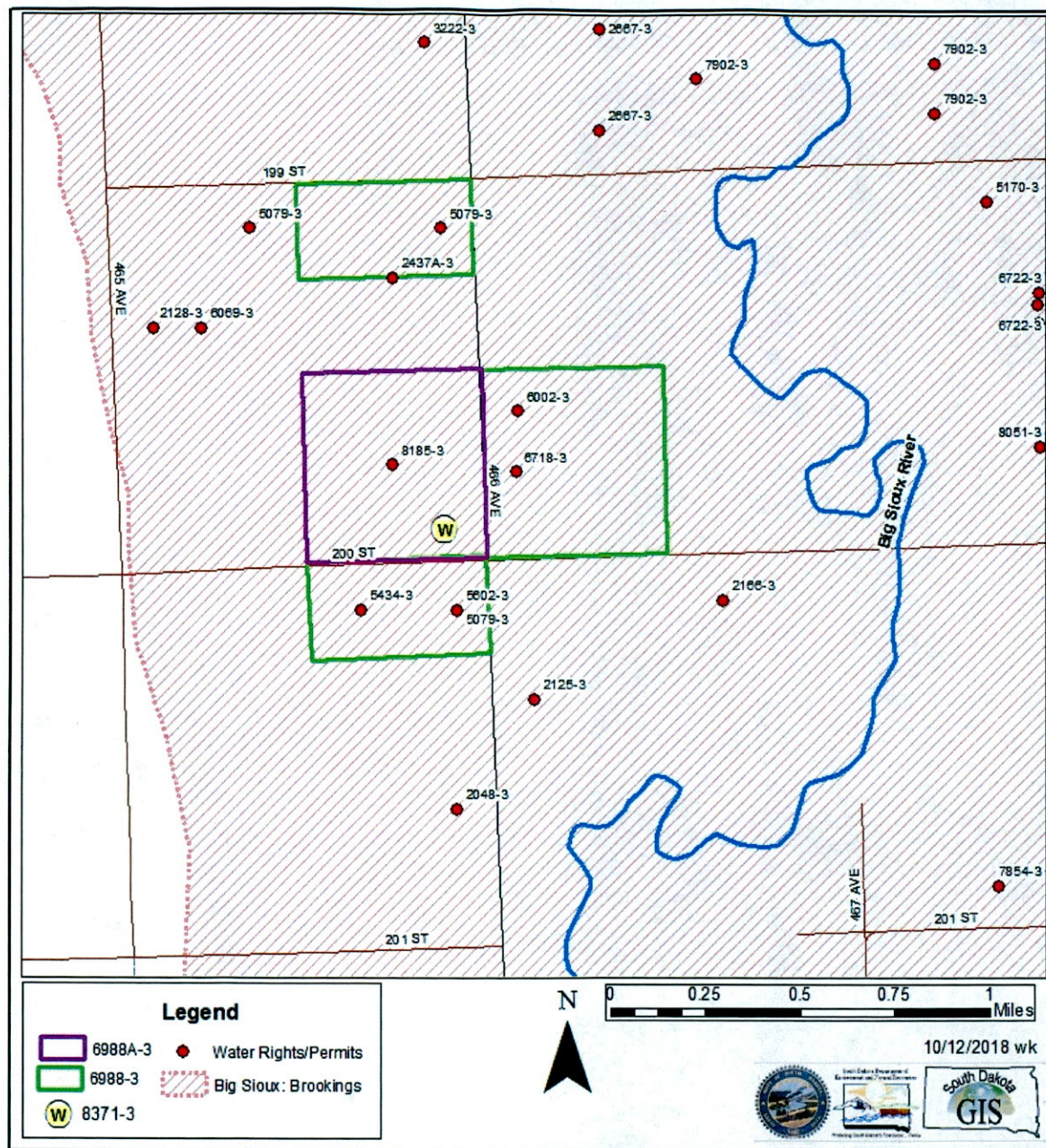


Figure 14: Location of Big Sioux: Brookings water rights/permits in the area of the well that this application proposes to utilize (Water Rights, 2018b)

Table 1: Summary of Water Rights/Permits Shown in Figure 13 (Water Rights, 2018b)

| Permit No. | Name                               | Status | Use | Rate (cfs) | Acres | Annual Volume (acre-feet/year) |
|------------|------------------------------------|--------|-----|------------|-------|--------------------------------|
| 2048-3     | KENT KROGH                         | LC     | IRR | 1.67       | 120   | n/a                            |
| 2125-3     | ISABELLE M APLAND                  | LC     | IRR | 1.11       | 151   | n/a                            |
| 2128-3     | AUDREY WIEDRICK                    | LC     | IRR | 1.11       | 156   | n/a                            |
| 2166-3     | LAYNE R MOSTAD                     | LC     | IRR | 1          | 123   | n/a                            |
| 2437A-3    | JERALD A PETERSON LIVING TRUST     | LC     | IRR | 1.78       | 132   | n/a                            |
| 2667-3     | BRET L ADEE                        | LC     | IRR | 1.67       | 136   | n/a                            |
| 3204-3     | DAVID ULVESTAD                     | LC     | IRR | 2          | 278   | n/a                            |
| 3222-3     | JAY A PETERSON                     | LC     | IRR | 2          | 148   | n/a                            |
| 4462-3A    | LAYNE R MOSTAD                     | LC     | IRR | 1.11       | 128   | n/a                            |
| 5079-3     | BROOKINGS-DEUEL-KINGBROOK          | LC     | RWS | 2.9        | n/a   | n/a                            |
| 5170-3     | JERALD A PETERSON                  | LC     | IRR | 1.78       | 136   | n/a                            |
| 5434-3     | BROOKINGS-DEUEL-KINGBROOK          | LC     | RWS | 1          | n/a   | 434                            |
| 5602-3     | BROOKINGS-DEUEL-KINGBROOK          | LC     | RWS | 1          | n/a   | 434                            |
| 6002-3     | BROOKINGS-DEUEL-KINGBROOK          | LC     | RWS | 0.78       | n/a   | 362                            |
| 6069-3     | RALLAND JANSSEN                    | LC     | IRR | 0.97       | 68    | n/a                            |
| 6718-3     | BROOKINGS-DEUEL-KINGBROOK          | LC     | RWS | 0.56       | n/a   | 300                            |
| 6722-3     | JAY A PETERSON                     | LC     | IRR | 1.33       | 156   | n/a                            |
| 7854-3     | DAVID ULVESTAD                     | PE     | COM | 0.89       | n/a   | n/a                            |
| 7902-3     | BRET ADEE                          | PE     | IRR | 2.67       | 260   | n/a                            |
| 8051-3     | WILBUR VAN GROOTHEEST & MIKE REITZ | PE     | IRR | 1.78       | 136   | n/a                            |
| 8185-3     | JOINT WELL FIELD INC.              | PE     | RWS | 1.78       | n/a   | 603                            |

PE-permit, LC-license, IRR-irrigation, RWS-rural water system, COM-commercial

In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. Since the aquifer is under unconfined conditions, drawdown due to pumping would not be expected to be significant far from the well site. Hamilton (1989) notes that, “Effects of withdrawals from wells that tap the Big Sioux aquifer generally are small because of extensive recharge and unconfined conditions. Drawdown of water levels is temporary and a few feet at most at distances of about a mile from large-capacity wells.”

There are several production wells associated with Joint Well Field Inc. located within about 0.2 miles of the proposed well location, therefore drawdown as a result of pumping from the proposed well would impact the applicant’s other wells before any potential impacts would be noted by other water rights/permits in the area. Since the applicant has multiple wells in the area of the well site for this application, the management of all the applicant’s wells will be needed to minimize the impact of drawdown of the applicant’s wells on each other. This management would be expected to be a limitation on any drawdown impacts to other users in the area. Observation wells BG-75N and BG-75M are both located within a 0.25 miles of several of several wells that a part of the rural water systems well field. Although both observation wells shown some slight drawdown from the pumping wells of the rural water system, based on the response of the water levels in these wells over time as diversion from the rural water system have increase the diversion proposed by Application No. 8371-3 would not be expected to increase drawdown in the area to the point that adequate wells are adversely impacted. The SD Well Construction Standards have defined an adversely impacted domestic well 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 some locations the Big Sioux: Brookings aquifer is a relatively thin aquifer with a limited amount of water in local storage. While the best available information indicates that long term average annual withdrawals would not exceed average annual recharge to the aquifer, short term conditions may occur when withdrawals exceed recharge. When this occurs, water will be removed from storage, consequently reducing the saturated thickness of the aquifer. If the saturated thickness is reduced to the extent that the water rights/permits can no longer pump at their developed or “historically established” rates, this may be considered an adverse impact. Therefore, as a precaution, this water permit, if approved, should include a qualification that the well owner shall control their withdrawals so there is not a reduction of needed water supplies for adequate domestic wells or for adequate wells having prior water rights. However, when all of the above is considered nearby adequate wells as defined by ARSD 74:02:04:20(6) are not expected to be adversely impacted by the appropriation proposed by this application.

### **Conclusions**

1. Water Permit Application No. 6988A-3 for Joint Well Field Inc. proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use to include the SE ¼ Section 24-T112N-R51W.
2. Future Use Permit No. 6988-3 reserves 2,839 acre-feet of water annually from the Big Sioux: Brookings aquifer located in the N ½ NE ¼ Section 24, N ½ NE ¼ Section 25; all in T112N-R51W and the SW ¼ Section 19-T112N-R50W.
3. Water Permit Application No. 8371-3 for Joint Well Field Inc. proposes to use 434 acre-feet of water annually at a maximum instantaneous diversion rate of 1.0 cfs from one well to be completed in the Big Sioux: Brookings aquifer located in the SE ¼ Section 24-T112N-R51W. This amount would be taken from the amount reserved by Future Use Permit No. 6988-3.
4. Based on a review of the hydrologic budget for the Big Sioux: Brookings aquifer and the observation well information for the aquifer, there is a reasonable probability that water is available in the Big Sioux: Brookings aquifer for the applicants proposed use as required by SDCL 46-2A-9.
5. There is a reasonable probability that these applications if approved will not adversely impact existing water rights/permits or domestic users with adequate wells.

*Whitney Kilts*

Whitney Kilts

SDDENR- Water Rights Program

## References

- Drinking Water Program. 2018. Drinking Water System Information. SD DENR-Drinking Water Program Online Database. Accessed October 10, 2018.  
<http://denr.sd.gov/des/dw/sysinfomap.aspx>.
- Friedeman, B. 2018. Environmental Scientist. SDDENR-Drinking Water Program, Pierre, SD. Personal Communication. Oct 18, 2018.
- Hamilton, L. 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota. USGS, Huron, SD.
- Hansen, D. S. 1988. Appraisal of Water Resources of the Big Sioux Aquifer, Moody County, South Dakota. USGS, Huron, SD.
- Hedges, L.S., Burch, S. L., Iles, D. L., Barari, R. A., and Schoon, R. A. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 3: Ground-Water Storage. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Hedges, L.S., Allen, J. and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 7: Ground-Water Recharge. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Koch, N. C. 1980. Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel and Hamlin Counties, South Dakota. USGS, Huron, SD.
- Kume, J. 1985. Water Resources of Deuel and Hamlin Counties, South Dakota. USGS, Huron, SD.
- Stonesifer, J. 2013. Report to the Chief Engineer Water Permit Application 7854-3. SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 1980-2018. "1979-2017 Irrigation Summaries by Aquifer": SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2018a. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.

Water Rights. 2018b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

Water Rights. 2018c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.



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 NEWSPAPERS RIGHT AWAY.**

October 23, 2018

Joint Well Field Inc.  
Gene P Wilts, Manager  
PO Box 340  
Toronto SD 57268

Dear Mr. Wilts:

Water Permit Application Nos. 6988A-3 and 8371-3 for rural water system use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the following papers. You will need to contact each of the papers and authorize publication of this notice.

Argus Leader, Sioux Falls SD 605 331-2200  
Miner County Pioneer, Howard SD 605 772-5644  
Clark County Courier, Clark SD 605 532-3654  
Clear Lake Courier, Clear Lake SD 605 874-2499  
Hamlin Co. Republican, Castlewood SD 605 793-2293  
Grant Co. Review, Milbank SD 605 432-4516

Salem Special, Salem SD 605 425-2361  
Daily Leader, Madison SD 605 256-4555  
Brookings Register, Brookings SD 605 692-6271  
DeSmet News, DeSmet SD 605 854-3331  
Moody Co. Enterprise, Flandreau SD 605 997-3725

For your information, a copy of the notice, the recommendations of the Chief Engineer and report on the applications 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 applications.

Sincerely,

Eric Gronlund  
Natural Resources Engineer  
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the applications.

---

NOTICE OF APPLICATION NOS. 6988A-3 and 8371-3 to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux:Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \_\_\_\_\_.

## AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA, County of Miner: ss.

Carla Poulson of said County and State, being duly sworn, on her oath says:  
That the Miner County Pioneer is a legal newspaper of general circulation,  
printed and published in Howard, said County and State, by Carla Poulson, and  
has been such newspaper during the time hereinafter mentioned: and that I,  
Carla Poulson the undersigned, am publisher of said newspaper, in charge of  
the advertising department thereof, and have personal knowledge of all the  
facts stated in this affidavit, and that the advertisement or notice headed.

### Notice of Application

A printed copy of which is hereunto attached, was printed and published in the  
regular and entire issue of said newspaper and not in a supplement, once each  
week for ..... successive weeks, the first publication being made on the  
..... day of ..... 2018.

And the last publication on the ..... day of ..... 20.....

The first publication being made on the ..... day of ..... 20.....

The second publication being made on the ..... day of ..... 20.....

The third publication being made on the ..... day of ..... 20.....

The fourth publication being made on the ..... day of ..... 20.....

The fifth publication being made on the ..... day of ..... 20.....

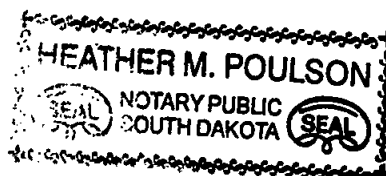
That said newspaper is a legal newspaper, and has a bona fide circulation of  
more than two hundred copies weekly, and has been published within the  
County of Miner, for more than fifty-two successive weeks next prior to the  
first publication of said notice, and is printed in an office maintained in  
Howard, South Dakota, the place of publication of said newspaper. That the  
full amount of fees for publication of the annexed notice is \$ 34.09. and  
insures solely to the benefit of said publisher; that no agreement or understand-  
ing for a division thereof has been made with any person and that no part  
thereof has been agreed to be paid to any person whomever.

*CR*

Subscribed and sworn to me this 12 day of Nov 2018

*[Signature]*

My commission expires the 10 day of Oct 2019



**NOTICE OF APPLICATION  
NOS. 6988A-3 and 8371-3 to**

**Appropriate Water**

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux-Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux-Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce, SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a

The Chief Engineer's recommendations with qualifications, the applications 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$34.09.  
(November 1)

RECEIVED

NOV 02 2018

WATER RIGHTS  
PROGRAM

|                     |             |                                                               |
|---------------------|-------------|---------------------------------------------------------------|
| CUSTOMER<br>NUMBER: | 6057944201  | <b>Argus Leader</b><br>P.O. Box 677349, Dallas, TX 75267-7349 |
| INVOICE<br>NUMBER:  | 3219516     |                                                               |
| RUN DATES:          | 10/31, 2018 | LINES: 144 AMOUNT DUE: \$91.56 pd.                            |

JOINT WELL FIELD, INC.  
PO BOX 340  
TORONTO, SD 57268

DETACH THIS STUB AND RETURN WITH PAYMENT

PAYMENT DUE UPON RECEIPT

Water Permit 6988A-3 &amp; 8371-3

## AFFIDAVIT OF PUBLICATION-

Customer Number: 6057944201  
Invoice Number: 3219516

JOINT WELL FIELD, INC.

## Argus Leader

### AFFIDAVIT OF PUBLICATION

## STATE OF SOUTH DAKOTA

## COUNTY OF MINNEHAHA } ss

I being duly sworn, say: That the Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-2.1, as amended published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Wednesday, the 31 day of October, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018  
 \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 2018

and that \$91.56 pd. was charged for publishing the same.

*Sarah Rose*  
Subscribed and sworn to before me 10/31/18

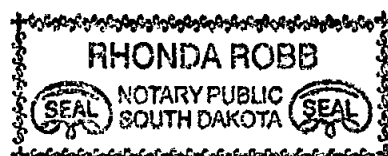
*Rhonda Robb*  
Notary Public, South Dakota

My Commission expires January 24, 2020

NOTICE OF APPLICATION NOS. 6988A-3 and 8371-3 to Appropriate Water. Notice is given that Joint Well Field Inc., c/o Gene P. Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit. Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux:Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest. Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per

second from one well to be completed into the Big Sioux:Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Minner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest. The Chief Engineer's recommendations with qualifications, the applications, and staff report are available at <http://denr.sd.gov/pub> 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 these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018. The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel. If legal counsel is obtained, the applicant does not contest the recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition. Steven M. Pirmer, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of \$91.56.

3219516 Oct 31, 2018



# AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA  
COUNTY OF DEUEL

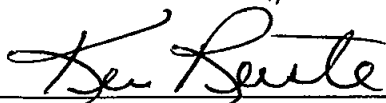
Ken Reiste being first duly sworn, on oath says: That he is publisher of the Clear Lake Courier, a weekly newspaper published in the City of Clear Lake, Deuel County, South Dakota; that he has full and personal knowledge of all facts herein stated; that said newspaper is a legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive; that said newspaper has been published within the said County of Deuel and State of South Dakota, for at least one year next prior to the first publication of the attached public notice, and that

## Notice Of Application Nos. 6988A-3 & 8371-3 To Appropriate water

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 one successive week(s) to wit:

October 31, 2018

That the full amount of the fee charged for publication of the attached public notice insures to the sole benefit of the publisher; 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: \$38.87

  
Ken Reiste

Subscribed and sworn to before me

this 31 day of October,  
2018

  
Notary Public, South Dakota

My commission expires:

My Commission Expires  
1/20/2023

JEANIE L. KJENSTAD

SEAL NOTARY PUBLIC SEAL  
SOUTH DAKOTA

## Public notice

### NOTICE OF APPLICATION NOS. 6988A-3 and 8371-3 to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux-Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux-Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-

3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$38.87. (37-1/115)

**NOTICE OF APPLICATION NOS.**

**6988A-3 and 8371-3 to Appropriate Water**

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux: Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$39.65.  
10-31-1t

RECEIVED

NOV 02 2018

WATER RIGHTS  
PROGRAM

**Affidavit of Publication**

State of South Dakota

§

County of Clark

William J. Krikac of said county, being first duly sworn, on oath says that he is the publisher of the **Clark County Courier**, a weekly newspaper printed and published in Clark in said County of Clark and has a full and personal knowledge of all the facts therein 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 was and is printed wholly or in part in an office maintained at said place of publication; that the

**Joint Well Field, Inc.**

a printed copy of which taken from the paper in which 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 week(s), on the day of each week on which said newspaper was regularly published, to wit:

**October 31, 2018**

that the full amount of the fees for the publication of the annexed notice is

**\$39.65**

*William J. Krikac*

Subscribed and sworn to before me this

**31st day of October, 2018**

*Andrew Helke*

Notary Public  
Clark County, South Dakota

**My Commission expires: 06/04/2019**

# Printer's Affidavit of Publication

STATE OF SOUTH DAKOTA  
COUNTY OF GRANT

} ss.

Ashlie Schweitzer

of said County and State, being first duly sworn, on oath says that the Grant County Review is a legal weekly newspaper of general circulation, printed and published in Milbank, in said County of Grant and State of South Dakota, by Grant County Review, Inc., and has been such newspaper during the times hereinafter mentioned; that said newspaper is a legal newspaper; and that it has a bona fide circulation of more than two hundred copies weekly, and has been published within said County of Grant in the English language and has been admitted to the United States mail under second class mailing privilege, for at least one year next prior to the publication of the Notice herein mentioned, and has been printed wholly in an office maintained at the said place of publication, that I, the undersigned, Bookkeeper of said newspaper, in charge of the accounts receivable department thereof, have personal knowledge of all the facts stated in this affidavit; that the advertisement headed Notice of Application NOS. 6988A-3 and 8371-3 to Appropriate Water, Joint Well Field Inc., c/o Gene P Wilts 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 one successive week, on the day of each week on which the said newspaper was regularly published, to-wit:

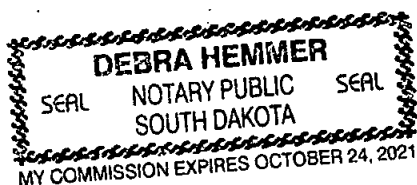
October 31 2018  
\_\_\_\_\_ 20  
\_\_\_\_\_ 20  
\_\_\_\_\_ 20

That \$ 36.74, being the full amount of the fee charged for the publication of said Notice, inures to the benefit of the publisher of the Grant County Review; that no agreement or understanding for the division thereof has been made with any person, and that no part has been agreed to be paid to any person whomsoever.

Ashlie Schweitzer

Subscribed and sworn to before me this 31st day of Oct 20 18

Debra Hemmer  
Notary Public, Grant County, South Dakota



## NOTICE OF APPLICATION NOS. 6988A-3 AND

### 8371-3 to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux-Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux-Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

RECEIVED

NOV 05 2018

WATER RIGHTS  
PROGRAM

Publication Fee \$ 36.74  
Notarial Fee \$ \_\_\_\_\_  
Total \$ 36.74

**Printer's Affidavit of Publication**  
and Attorney's Affidavit Ex-Rel. Fees

In \_\_\_\_\_ Court

STATE OF SOUTH DAKOTA  
COUNTY OF GRANT } ss.

Filed in the office of \_\_\_\_\_

\_\_\_\_\_ on the  
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Attorney for \_\_\_\_\_

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 an approximate  
cost of \$36.74

## AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA }  
County of Lake } ss.

Aubrey Larsen

..... of the City of Madison, County  
State of South Dakota, being first duly sworn on oath, deposes and says:

The Madison Daily Leader is a daily legal newspaper of general circulation printed and published in the City of Madison, in said County of Lake, by Publishing, Inc., Jon M. Hunter, publisher, and has been such legal newspaper during the times hereinafter mentioned; that the said Madison Daily Leader has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said time how has, more than 200 bona fide subscribers; that the undersigned, the Secretary of the said newspaper, in charge of the publishing department thereof and has personal knowledge of all the facts stated in the affidavit and the advertisement headed

Department of Environment & Natural Resources

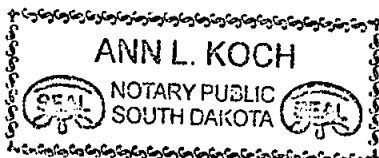
Application Nos. 6988A-3 and 8371-3 Joint Well Field

printed copy of which hereunto attached, was printed and published in newspaper for One successive weeks, once each week at the same day of the week, on the following dates, to-wit:

On Wednesday, the 31st day of October, 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018  
On ..... day of ..... 2018

That \$ 40.18 being the full amount of the fees for publication of the attached notice inures solely for the benefit of the publisher of the said newspaper, 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 to any other person whomsoever.

Subscribed and sworn to before me this 1st day of November, 2018



Ann L. Koch  
Notary Public, Lake County, South Dakota  
Exp. 11-14-19

Wednesday, Oct. 31

NOTICE OF APPLICATION  
NOS. 6988A-3 and 8371-3  
to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux: Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is

in the public interest.

The Chief Engineer's recommendations with qualifications, the applications 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$40.18

Publication Fees \$

Notary Fees \$

Total \$

Received Payment,

RECEIVED

NOV 05 2018

WATER RIGHTS  
PROGRAM

RECEIVED

NOV 05 2018

WATER RIGHTS  
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA )

County of McCook ) SS

I, Troy Schwans

certify that the attached printed Notice was taken

from the Salem Special

printed and published in Salem

County of McCook and

state of South Dakota. The notice was published

in the newspaper on the following date:

11/1/18

Cost of Printing \$40.28

Troy Schwans  
(Signature)

Owner  
(Title)

11/1/18  
(Date Signed)

Public Notice

NOTICE OF APPLICATION NOS.  
6988A-3 and 8371-3  
to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P. Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux: Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$40.28.

11-1

Affidavit of Publication

State of South Dakota

Exhibit "A"

ss

County of Brookings

Katherine Foiles of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

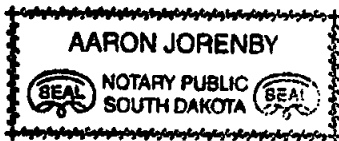
Leg#874 Notice of Application to Appropriate Water 6988A-3

same was published, is hereto attached marked Exhibit said newspaper for 1 times, to-wit:

October 31, 2018

said Exhibit "A" inures to the sole benefit for the publishers of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever; that the fees charged for the publication thereof are:

Thirty-Eight Dollars and Five Cents \$38.05



Km Foiles

November

1 day of

2018

Notary Public in and for the County of Brookings, South Dakota.  
My Commission expires February 22, 2020.

RECEIVED

NOV 05 2018

WATER RIGHTS  
PROGRAM

Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux:Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-

T 1 1 2 N - R 5 1 W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or support-

ing these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommen-

dation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$38.05.

Legal 874, 1x, 10/31  
NOTICE OF APPLICATION NOS. 6988A-3  
and 8371-3 to

Appropriate Water  
Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit. Application No. 6988A-3 proposes to amend

RECEIVED  
OCT 11 2018  
WATER RIGHTS PROGRAM  
PIERRE, SD

81

Form 8

RECEIVED

NOV 06 2018

WATER RIGHTS  
PROGRAM

## PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA )  
County of Kingsbury ) SS  
I, David Tritle

certify that the attached printed Notice was taken

from the DeSmet News

printed and published in DeSmet

County of Kingsbury and

state of South Dakota. The notice was published

in the newspaper on the following date:

10-31-18

Cost of Printing 42.44

(Signature)

(Title)

(Date Signed)

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

November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 \$42.82.

10-31-1wc

## NOTICE OF APPLICATION NOS.

6988A-3 and 8371-3

to Appropriate Water

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux:Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

# Affidavit of Publication

STATE OF SOUTH DAKOTA  
COUNTY OF MOODY) SS

MARY LYNN HEADRICK, of said county, being first duly sworn on oath says that she is the bookkeeper of the Moody County Enterprise, a weekly newspaper printed and published in said county of Moody and State of South Dakota, 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 200 copies weekly, and has been published within said county for 52 consecutive 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 advertisement headed:

Notice of Applications Nos  
6988A-3 and 8371-3 to  
Appropriate Water

a printed copy of which, taken from the newspaper 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 1 successful weeks, on the day of each week on which said newspaper was regularly published, to wit:

10-31-18

that the full amount of the fee charged for the publication of said Notice inures to the benefit of the 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 person whomsoever, and that the fees charged for the publication thereof are

\$ 39.52

M. L. Headrick bookkeeper  
Subscribed and sworn to before me this

6<sup>th</sup> day of November, AD 2018

Roger W. Janssen

Notary Public, County of Moody, South Dakota  
**ROGER W JANSSEN**  
NOTARY PUBLIC  
SOUTH DAKOTA  
my commission expires 2/28/2019

## NOTICE OF APPLICATION NOS. 6988A-3 AND 8371-3 TO APPROPRIATE WATER

Notice is given that Joint Well Field Inc., c/o Gene P Wilts, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux: Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25, all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin, Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 cost of \$39.52

RECEIVED

NOV 08 2018

WATER RIGHTS  
PROGRAM

NOV 01 2018

WATER RIGHTS  
PROG. 1

10 / Oct. 31, 2018

## PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA )

County of Hamlin ) SSI, LeeAnne Dufek

certify that the attached printed Notice was taken

from the Hamlin County  
Republicanprinted and published in CastnewoodCounty of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Oct. 31, 2018Cost of Printing \$37.41LeeAnne Dufek  
(Signature)Owner  
(Title)10-31-18  
(Date Signed)NOTICE OF APPLICATION  
NOS. 6988A-3 AND 8371-3  
TO APPROPRIATE WATER

Notice is given that Joint Well Field Inc., c/o Gene P Wits, Manager, PO Box 340, Toronto SD 57268 has filed the following applications for a water permit.

Application No. 6988A-3 proposes to amend Future Use Permit No. 6988-3 by expanding the area reserved for future use. Permit No. 6988-3 reserves 2,809 acre-feet of water annually from the Big Sioux: Brookings Aquifer located in the N 1/2 NE 1/4 Section 24, N 1/2 NE 1/4 Section 25; all in T112N-R51W and the SW 1/4 Section 19-T112N-R50W. This application requests including the SE 1/4 Section 24-T112N-R51W to the future use area with no increase in the amount of water reserved for future use by No. 6988-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 6988A-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

Water Permit Application No. 8371-3 proposes to place to beneficial use 434 acre-feet of water annually at a maximum pump rate of 1.0 cubic feet of water per second from one well to be completed into the

Big Sioux: Brookings Aquifer (50 feet deep) located in the SE 1/4 Section 24-T112N-R51W. Construction of the project is subject to approval of Application No. 6988A-3 to expand the future use area. The water was appropriated and reserved by Future Use Permit No. 6988-3. The water will be used to supply the Joint Field to serve users in Brookings, Deuel, Moody, Hamlin; Kingsbury, Lake, Grant, Miner, McCook and Clark Counties. This site is located approximately 3 miles north of Bruce SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends approval of Application No. 8371-3 because 1) existing rights will not be unlawfully impaired, 2) it is a beneficial use of water, and 3) it is in the public interest.

The Chief Engineer's recommendations with qualifications, the applications, 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.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is

"Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 recommendations of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the applications pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 Oct. 31, 2018, at total cost of \$37.41.



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

NOV 29 2018

Joint Well Field Inc  
Gene Wilts, Manager  
PO Box 340  
Toronto SD 57268

Dear Mr. Wilts:

Enclosed are Future Use Permit No. 6988A-3 expanding the area reserved for future use and Water Permit No. 8371-3 authorizing placing water to beneficial use.

The two applications were submitted with a check for \$1,350. The filing fee for No. 6988A-2 is \$100 and the filing fee for No. 8371-3 is \$1,150 for a total of \$1,250. Therefore, \$100 will be refunded to you. The refund check should be received within two weeks.

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 as authorized by No. 8371-3. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

Sincerely,

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

enclosures

# SOUTH DAKOTA WATER WELL COMPLETION REPORT

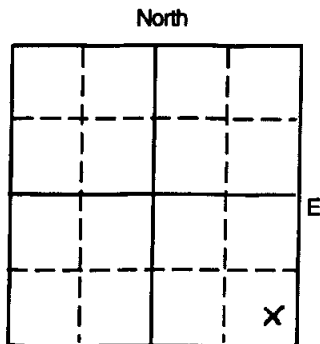
8371-3

11-02

Location SE 1/4 SE 1/4 Sec 24 Twp 112-N Rg 51-W

County Brookings

Please mark well location with an "X"



Well completion Date

11-26-18

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

1/2 mile ft. from River (Identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

Bucket-False Casing

## CASING DATA:

☒ Steel    ☐ Plastic    ☐ Other

If other describe

| PIPEWEIGHT | DIAMETER | FROM | TO    | HOLE DIAMETER |
|------------|----------|------|-------|---------------|
| 50 LB/FT   | 12 IN    | 4 FT | 28 FT | 20 IN         |
| LB/FT      | IN       | FT   | FT    | IN            |
| LB/FT      | IN       | FT   | FT    | IN            |

## GROUTING DATA:

| Grout Type | No. of Sacks | Grout Weight | From | To    |
|------------|--------------|--------------|------|-------|
| Bestonite  | 12           | 75 Lb/gal    | 8 FT | 10 FT |
|            |              | Lb/gal       | FT   | FT    |

Describe grouting procedure

## SCREEN:

☐ Perforated pipe    ☒ Manufactured

Diameter 12 Inches Length 9 Feet

Material Stainless Steel

Slot Size 0.80 Set From 28 FT Feet to 37 FT 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?

☐ No, Why Not?

Lab sample sent to for water quality analysis

Self-BD

Well Owner:

Business Name:

Address:

City, State, Zip:

Brookings - Devel RW

47602 So. Hwy 28

Brookings, SD 57216-8

## WELL LOG:

### DEPTH

### FORMATION

### FROM

### TO

Topsoil

0

1

Brown Sand

1

15

Very coarse gravel

15

24

Fine Sand streak

24

25

Coarse sand

25

37'8"

## STATIC WATER LEVEL

10.9

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:

Sub

☐ Bailed

☐ Other

Pumping Level Below Land Surface

30'

R. After

2

Hrs. pumped

700

GPM

R. After

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

## REMARKS

RECEIVED

DEC 10 2018

WATER RIGHTS PROGRAM

This well was drilled under license #

111

And this report is true and accurate.

Drilling firm:

Lacey Well Drilling, Inc.

Signature of License Representative:

John P. Lacey

Signature of Well Owner or Equitable Property Holder:

Theresa L. Lacey

Date:

12-11-18

523 E Capitol Ave.

Pierre SD 57501

Please return WHITE COPY to: DENR Water Rights