

WATER PERMIT NO. 8225-3

Name of Applicant: Ralland Janssen

Address: 18943 463rd Ave, Castlewood SD 57223

Phone: 605 690-2999

Amount of Water Claimed: 1.89 cfs

Total Acres: 152 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Hamlin

Type of Waste Disposal System:

Location: 7 miles southeast of Castlewood

PRIORITY Date Received: May 12, 2016

Application/License Fee: \$1050

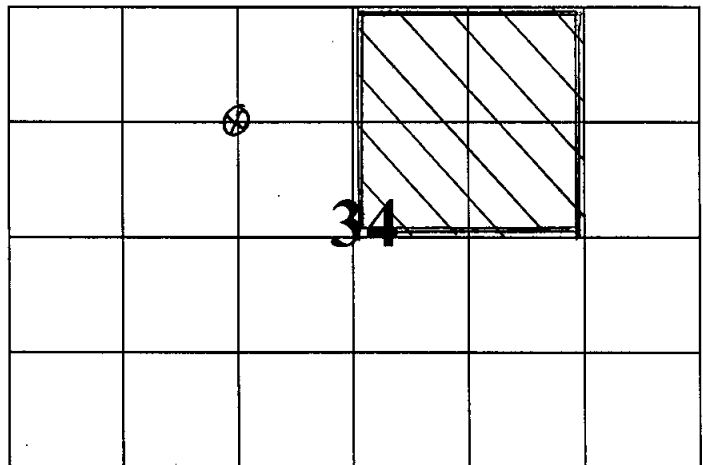
Corrected Application Received: May 23, 2016

Period of Annual Use: May 1 – Sept 30

Remarks: XX

Diversion Point: center of NW 1/4 Sec 34-T114N-R51W

Land to be Irrigated: NE 1/4 Sec 34-T114N-R51W



Depth of Well: 78 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: May 23, 2016

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

RECEIVED

MAY 23 2016

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MAY 12 2016

WATER RIGHTS
PROGRAM

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8225-3</u> (office use only) Hydrologic Unit <u>10170202</u>	WATER RIGHTS PROGRAM
	Basin <u>Sioy River</u> <u>605-793-2293</u>	
	Newspaper <u>Hamlin Co. Republican - Castlewood</u>	
	<u>Public Opinion - Waterton</u> <u>605-886-6901</u>	

Application For Permit To Appropriate Water For Irrigation

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

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

Using water from NW 1/4 sec 34 - 114-51W permit in Wayne
Janssen (Dad)

1. Name to Appear on Irrigation Permit Rolland Janssen
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address 18943 463rd Ave Castlewood SD 57223
(Address) (City) (State) (Zip Code)

Home Phone 605-873-2669 Cell 690 2999 Email _____

2. Amount of water claimed 1.89 *CFS or 850 **GPM 152.4 ***AF Total Acreage 152.4
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Well

4. Location of point of diversion 1300ft N and 1300ft of the East sec 34 NW 1/4
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)
114-51W (approximate center NW 1/4) County Hamlin

5. County or counties where water will be used Hamlin

6. Annual period during which water is to be used May 1 - Sept 30

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NE 1/4 of the NE 1/4 sec 34 114-51W	38		
SE 1/4 of the NE 1/4 sec 34 114-51W	38		
NW 1/4 of the NE 1/4 sec 34 114-51W	38		
SW 1/4 of the NE 1/4 sec 34 114-51W	38		

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

X I, Rolland Janssen, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

**SOUTH DAKOTA
WATER PERMIT NO. 8225-3**

Date of first receipt of application May 12, 2016.

Date of return to applicant for corrections, amendments or changes May 12, 2016.

Date of receipt of corrected application May 23, 2016.

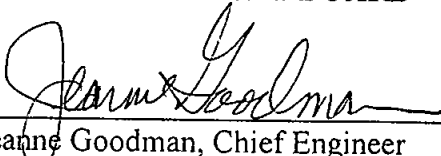
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8225-3 to Ralland Janssen, 18943 463rd Ave, Castlewood SD 57223 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 8225-3 appropriates an additional 0.11 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux:Brookings aquifer (82 feet deep) and will utilize the existing diversion rate authority from this well authorized by Water Right No. 2841-3 to irrigate 152 acres located in the NE 1/4 Section 34; all in T114N-R51W. Water Right No. 2841-3 appropriates 1.78 cfs from this well located in the approximate center of the NW 1/4 Section 34 to irrigate 124 acres located in the NW 1/4 Section 34, T114N, R51W. Combined, Water Right No. 2841-3 and this permit will authorize 1.89 cfs for irrigation of 276 acres in the N 1/2 of Section 34.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is May 12, 2016.
4. The date of approval of Permit No. 8225-3 is August 15, 2016.
5. One-fifth of the construction is to be completed on or before February 15, 2019.
6. All construction is to be completed on or before August 15, 2021.
7. Water is to be put to beneficial use on or before August 15, 2025.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Water Right No. 2841-3 and Permit No. 8225-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 

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

AUG 22 2016
date



Supplemental Information

(type or print)

1. **Well Information** (check one or both as applicable) ☐ Drilling new well(s) ☒ Using existing well(s) Dad well

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

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Kaiser

c) Well Depth 78 Depth to Top of Water Bearing Material Depth to Water from Surface

d) Distance to nearest existing domestic well:

On applicant's property 1300 ft On property owned by others 1300 ft

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

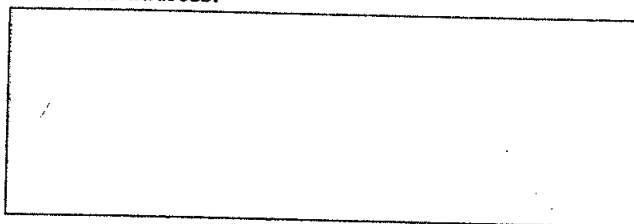
a) Surface Dimensions Depth

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)

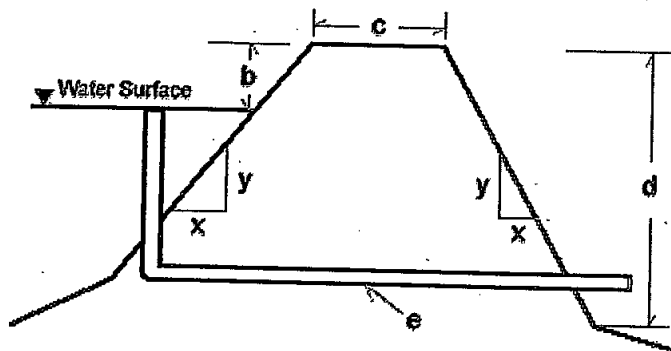
Upstream

Downstream

h) Surface Area of Impoundment

i) Storage Acre Feet

j) Drainage Area Above Dam Acres





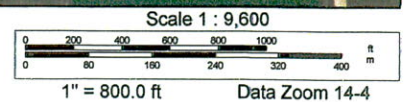
PPLS:34_114N_51W

Data use subject to license.
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MAY 12 2016

WATER RIGHTS
PROGRAM



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 5/12, 20 16

RECEIVED OF Ralland Janssen 18943 463rd Ave Castlewood SD 57223

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

Fee for Application for Permit No. <u>8225-3</u> to Appropriate Water, to construct and to put water to beneficial use	850	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8225-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	1050 00

No. **07845**

By *James Goodman*
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

May 12, 2016

Ralland Janssen
18943 463rd Ave
Castlewood SD 57223

Dear Mr. Janssen:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation in Hamlin County.

The application is being returned because your signature is required at the bottom of the application.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

July 22, 2016

Wayne Janssen
18948 463rd Street
Castlewood SD 57223

Dear Mr. Janssen:

Please find enclosed the report, recommendation and public notice for a water permit application filed by your son, Ralland. The application proposes to use the well authorized by Water Right No. 2841-3 that is held in your name. Therefore, DENR wanted to make sure you are aware of the application.

Please feel free to contact us if you have any questions.

Sincerely,

Eric Gronlund
Water Rights Program, DENR
605 773-3352
Eric.gronlund@state.sd.us

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8225-3, Ralland Janssen**

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. 8225-3, Ralland Janssen, 18943 463rd Avenue, Castlewood SD 57223

The Chief Engineer is recommending APPROVAL of Application No. 8225-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under Water Right No. 2841-3 and Permit No. 8225-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
July 22, 2016

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 8225-3
RALLAND JANSSEN
JULY 22, 2016

Water Permit Application No. 8225-3 proposes to authorize the irrigation of 152 acres with a proposed diversion rate authority of 0.11 cubic feet of water per second (cfs) and using the diversion rate authority and the existing well authorized under Water Right No. 2841-3. Water Right No. 2841-3 authorizes the diversion of water from the Brookings management unit of the Big Sioux aquifer at a maximum rate of 1.78 cfs for the irrigation of 124 acres located in the NW ¼ Section 34 T114N-R51W. The well authorized by Water Right No. 2841-3 is located near the approximate center of the NW ¼ Section 34 T114N-R51W and is 82 feet deep. The land Application No. 8225-3 proposes to irrigate is 152 acres located in the NE ¼ Section 34 T114N-R51W in Hamlin County. Combined, Water Right No. 2841-3 and this application, if approved, would authorize the irrigation of 276 acres in the N ½ Section 34 T114N-R51W with a maximum combined diversion rate of 1.89 cfs (Janssen, 2016). The applicant intends to alternate applying water to the land authorized by Water Right No. 2841-3 and the land proposed for irrigation by this application (Janssen, 2016).

AQUIFER: Brookings management unit of the Big Sioux aquifer (BS: B)

Aquifer Characteristics:

The Big Sioux aquifer is an outwash aquifer comprised of fine to coarse sand, gravel, and silt (Koch, 1980). The materials are well-sorted and very permeable (Hamilton, 1989). The aquifer is often overlain by alluvium (Kume, 1985). The aquifer is primarily in the flood plains of the Big Sioux River and its tributaries. The Brookings management unit of the Big Sioux aquifer underlies approximately 324,000 acres of Brookings, Codington, Deuel, Hamlin, Kingsbury, and Moody Counties (Stonesifer, 2013). The management unit underlies approximately 100,800 acres in Hamlin County alone (Stonesifer, 2013). Stonesifer (2013) calculated this area by first combining the Big Sioux aquifer maps for Brookings and Kingsbury Counties (Hamilton, 1989), Moody County (Hansen, 1988), and Deuel and Hamilton Counties (Kume, 1985). Then Stonesifer (2013) used the Brookings management unit boundaries established by Hedges and others (1982) to separate the Brookings management unit from other management units of the Big Sioux aquifer. The thickness of the Brookings management unit ranges from a few feet to more than 100 feet (Koch, 1980). The Brookings management unit has an average thickness of 30 feet in Deuel and Hamlin Counties (Kume, 1985). The top of aquifer can be found at land surface and down to 40 feet below grade with an average depth of five feet in Deuel and Hamlin Counties (Kume, 1985). The aquifer is under unconfined conditions. The Brookings management unit of the Big Sioux aquifer is hydraulically connected to some area lakes and the Big Sioux River (Koch, 1980).

The well completion report on file for Water Right No. 2841-3 indicates gravel was encountered from two to 34 feet and from 38 to 81 feet below ground surface. The static water level was 32 feet below grade in July of 1979. Figure 1 shows a map of the areal extent of the Brookings

management unit of the Big Sioux aquifer including the well location this application proposes to use and DENR-Water Rights Program observation wells completed into the management unit.

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

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for this applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and effects on existing rights from the aquifer that are pertinent to this application.

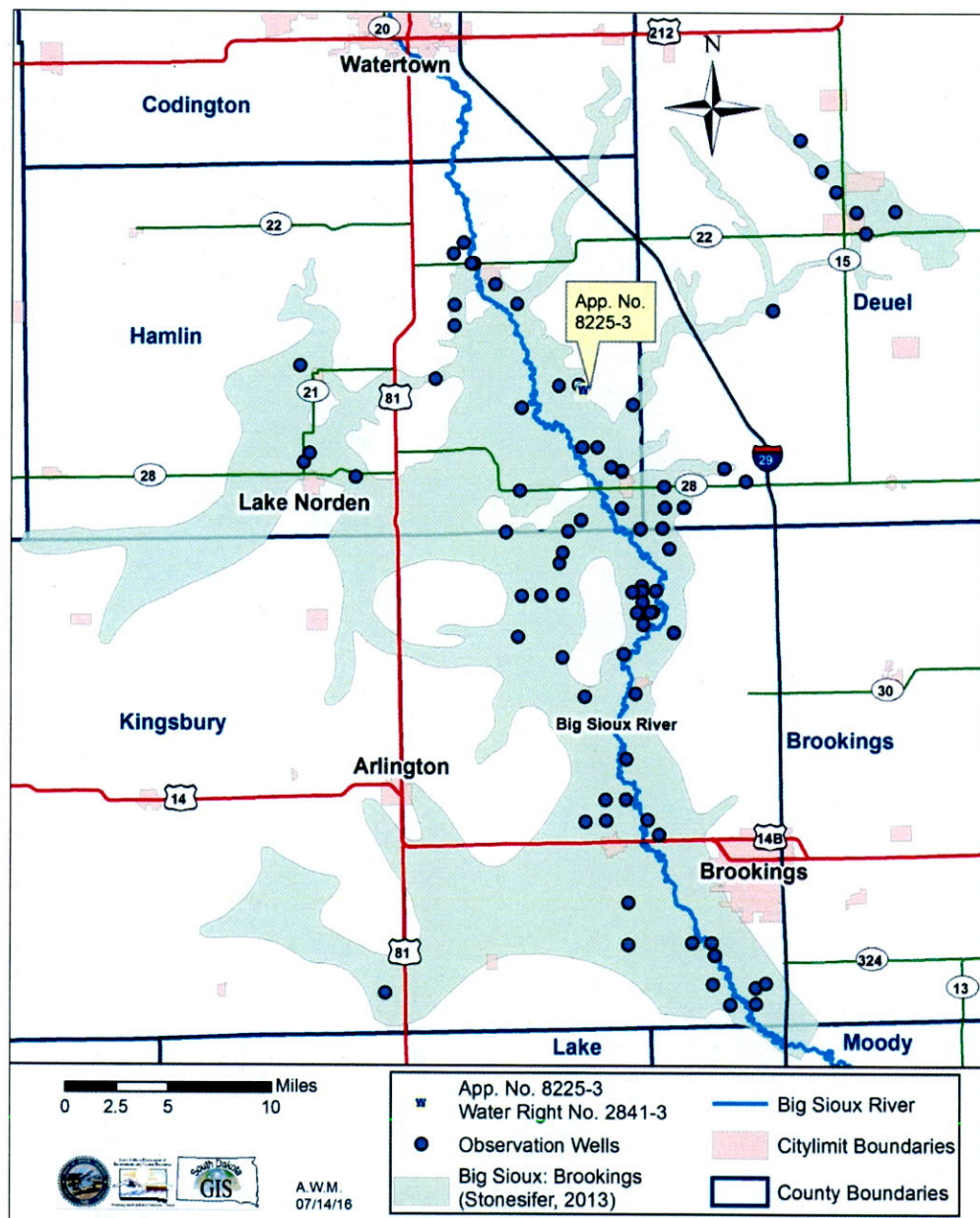


Figure 1- Areal extent map of the Brookings management unit of the Big Sioux aquifer including observation wells and the well Application No. 8225-3 proposes to use

WATER AVAILABILITY:

This application proposes to appropriate water from the Brookings management unit of the Big Sioux aquifer. The probability of unappropriated water available from the aquifer can be evaluated by considering SDCL 46-6-3.1, which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.” If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. In this case, the aquifer is not stratigraphically lower than the Greenhorn Formation and the applicant is not a water distribution system.

Observation Well Data:

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

The DENR-Water Rights Program monitors 79 observation wells completed into the Brookings management unit of the Big Sioux aquifer (Water Rights, 2016b). Five of these observation wells are within approximately three miles of the well this application proposes to use. Figure 2 shows the relation between the well this application proposes to use to the nearby observation wells completed into the Brookings management unit of the Big Sioux aquifer. The hydrographs for HN-57B, HN-75A, HN-77F, HN-77J, and HN-83A are shown in Figures 3 through 7, respectively.

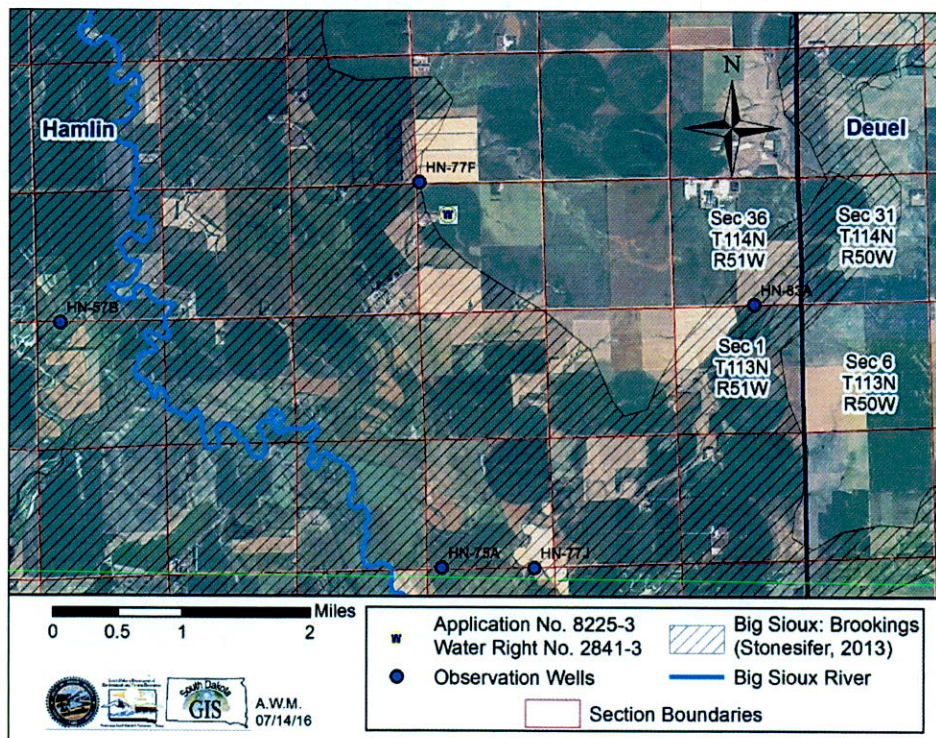


Figure 2- Map of the area around Application No. 8225-3 including observation wells

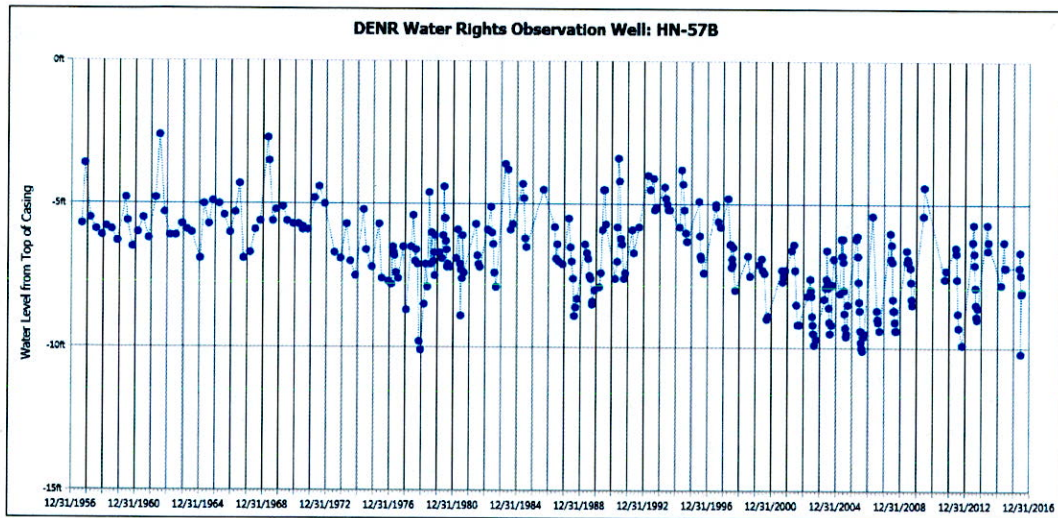


Figure 3- Hydrograph for observation well HN-57B (Water Rights, 2016a)

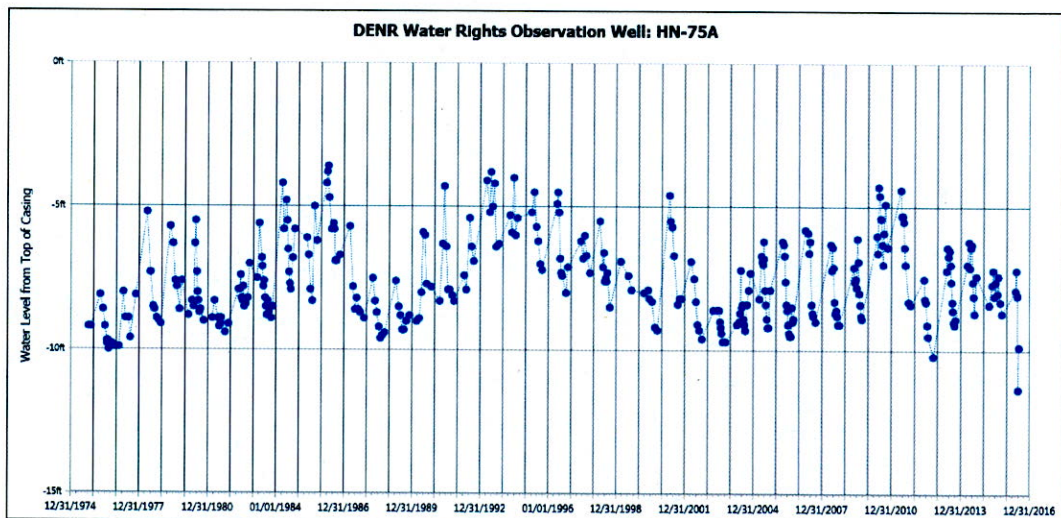


Figure 4- Hydrograph for observation well HN-75A (Water Rights, 2016a)

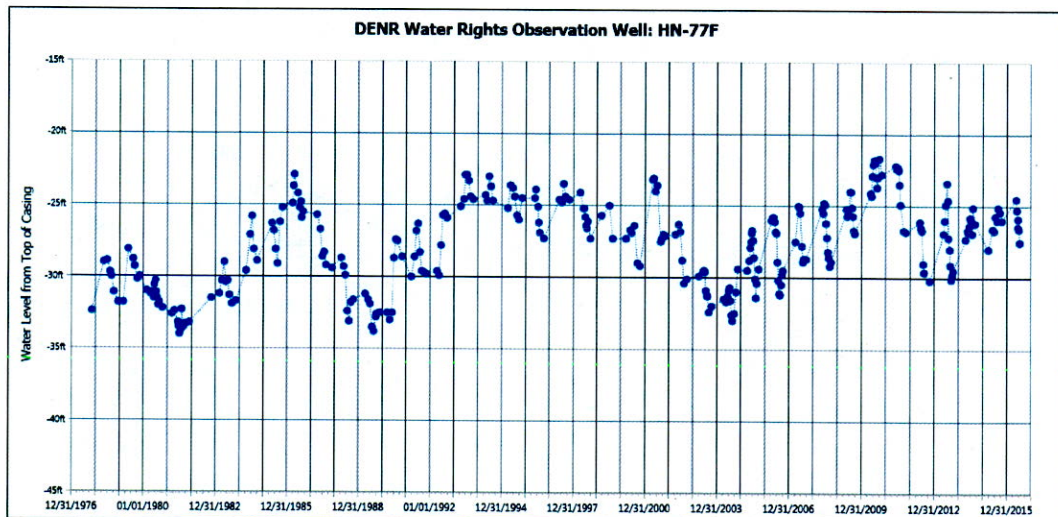


Figure 5- Hydrograph for observation well HN-77F (Water Rights, 2016a)

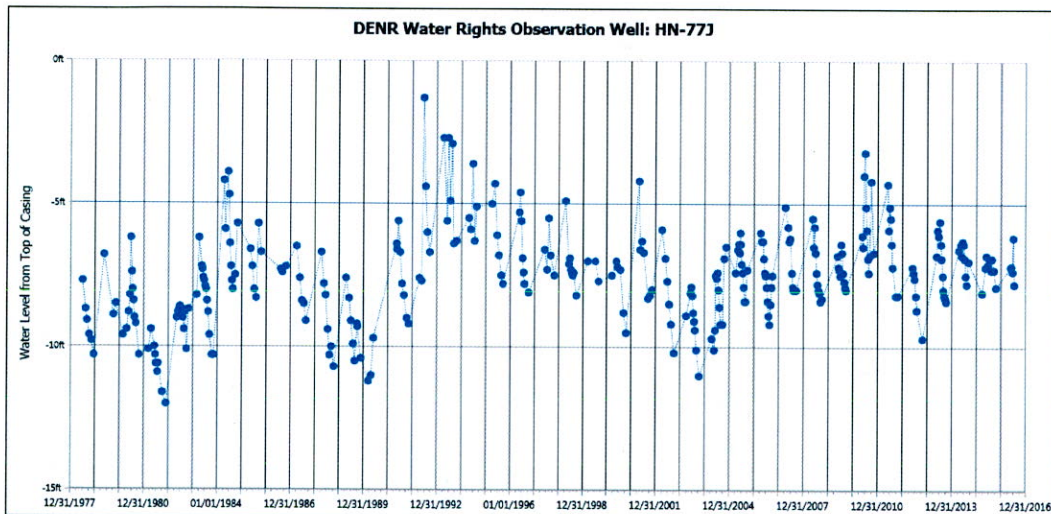


Figure 6- Hydrograph for observation well HN-77J (Water Rights, 2016a)

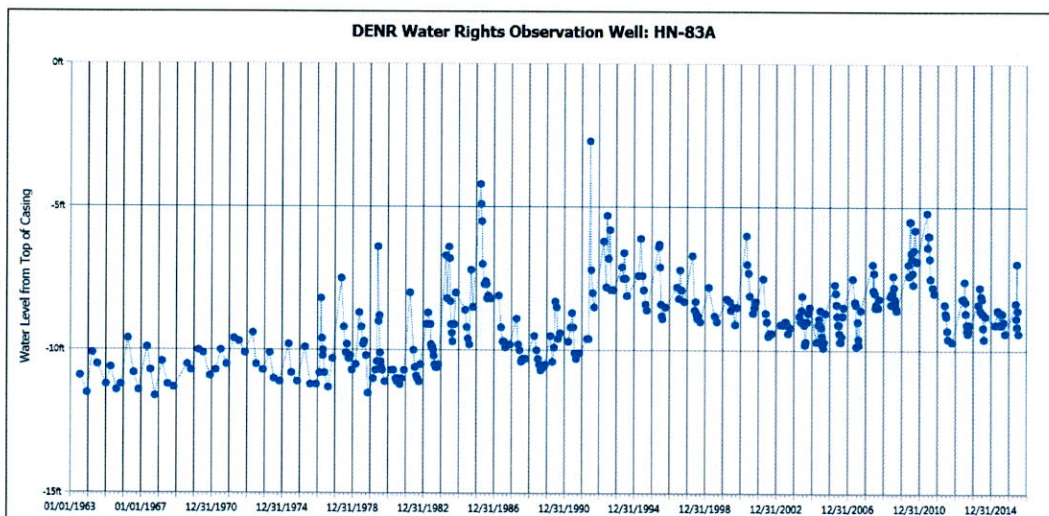


Figure 7- Hydrograph for observation well HN-83A (Water Rights, 2016a)

These five hydrographs are representative of the Brookings management unit of the Big Sioux aquifer. The water level in the observation wells is dominated by climate and the effects of pumping are greatly masked. The water levels rise during wetter periods and slowly decline during drier periods. This means recharge to and natural discharge from the Brookings management unit of the Big Sioux aquifer significantly exceeds pumping. Recognizing natural discharge from an aquifer can be captured for pumping, the hydrographs document there is unappropriated water available from the Brookings management unit of the Big Sioux aquifer to support this proposed appropriation.

Recharge and Discharge:

Recharge:

Recharge to the Brookings management unit of the Big Sioux aquifer occurs through infiltration of precipitation, and seepage from the Big Sioux River and its tributaries (Koch, 1980) during periods of high stage when the surface water levels are higher than the groundwater levels. Several recharge rates for the Brookings management unit of the Big Sioux aquifer have been

calculated. Hedges and others (1985) stated for various management units of the Big Sioux aquifer, “2.7 to 6.9 in/yr. if flow-net analysis is ignored.” Kume (1985) estimated a recharge rate to the Big Sioux aquifer in Hamlin and Deuel Counties of 5.11 in/yr. Koch (1980) estimated a recharge rate of 6.57 in/yr. to the unconfined portions of the Big Sioux aquifer in Brookings, Deuel, and Hamlin Counties. The specific recharge to the Brookings management unit of the Big Sioux aquifer as estimated by Hedges and others (1985) using observation well analysis is 4.0 in/yr. That value is the best data available due to its focus on the management unit. However, Hedges and others (1985) methodology used to calculate recharge using observation well analysis does not account for recharge to the aquifer when the water level in the observation well is declining. Therefore, the 4.0 in/yr. from Hedges and others (1985) should be considered less than the actual recharge rate to the management unit.

Using an areal extent of 324,000 acres from Stonesifer (2013) and the 4.0 in/yr. recharge rate from Hedges and others (1985), the estimated average annual recharge to the Brookings management unit of the Big Sioux aquifer is at least 108,000 ac-ft/yr. Using the area of the management unit in just Hamlin County, the average annual recharge rate to the management unit in Hamlin County alone is estimated to be 33,600 ac-ft/yr.

Discharge:

The Brookings management unit of the Big Sioux aquifer discharges through well withdrawals, subsurface outflow, and evapotranspiration (Koch, 1980). There are 260 water rights/permits authorizing the appropriation of water and 11 future use permits reserving water from the Brookings management unit of the Big Sioux aquifer (Water Rights, 2016b). There are 126 water right/permits and five future use permits in Hamlin County alone (Water Rights, 2016b). Forty-three of the water rights/permits are authorized for non-irrigation purposes as well as all 11 future use permits (Water Rights, 2016b). There are 18 water rights/permits and five future use permits in Hamlin County alone (Water Rights, 2016b).

The amount of water that can be expected to be withdrawn by non-irrigation appropriations from the Brookings management unit of the Big Sioux aquifer can be determined by assuming water rights/permits limited only by diversion rate pump at the maximum permitted diversion rate for 60 percent of the time, water rights/permits limited by annual appropriation volume pump the entire volume, and future use permits can be fully developed. The municipalities of Clear Lake, Hayti, and Bruce are connected to rural water systems and retain their respective water rights for standby purposes only (Friedeman, 2016). Thus, the use expected from their five water rights is minimal. Non-irrigation water rights/permits are estimated to pump 12,720 ac-ft/yr. from the Brookings management unit of the Big Sioux aquifer with 5,330 coming from Hamlin County alone (Water Rights, 2016b). Future use permits reserve 7,120 ac-ft/yr. with 2,523 ac-ft/yr. reserved in just Hamlin County (Water Rights, 2016b).

There are a number of domestic wells on file that are completed into the Brookings management unit of the Big Sioux aquifer (Water Rights, 2016c). Many of the wells on file are no longer used as primary sources of water since rural water systems have become available in the area. Considering that and the limited capacity of a domestic well to withdraw water, the amount of domestic use from the Brookings management unit of the Big Sioux aquifer is not significant to the hydrologic budget.

Historic irrigation withdrawals from the entire Brookings management unit of the Big Sioux aquifer and from the management unit in just Hamlin County are shown in Table 1. The average annual irrigation pumpage over the period of record is approximately 8,835 ac-ft/yr. from the entire Brookings management unit of the Big Sioux aquifer and 4,130 ac-ft/yr. from the management unit in just Hamlin County (Water Rights, 1979-2016).

Entire Aquifer				Hamlin County		
Year	No. of Permits Reporting	Appropriation (ac-ft)	Pumpage (ac-ft)	No. of Permits Reporting	Appropriation (ac-ft)	Pumpage (ac-ft)
2015	209	72955.86	8796.02	106	36780.76	4402.22
2014	212	74365.36	9947.64	106	36714.26	4912.02
2013	198	70084.9	15432.29	98	34368	8097.57
2012	177	63694.4	19482.51	86	30704	9699.49
2011	174	63494.4	8527.61	85	30544	4927.3
2010	172	62966.4	2713.39	84	30304	1681.63
2009	174	65098.4	9172.9	80	29384	3986.48
2008	166	62761.8	12505.85	75	28037.2	5934.02
2007	164	62374.8	12730.13	73	27571.2	5702.96
2006	161	61075.8	14325.04	69	26687.2	6807.48
2005	159	61435.8	11513.48	68	26573.2	5626.58
2004	156	60695.8	11809.91	66	26093.2	6106.78
2003	149	58970.8	11380.47	59	24353.2	5554.05
2002	149	59186.8	12410.94	60	24623.2	5620.65
2001	149	59312.8	8384.81	60	24623.2	3751.65
2000	153	60799.8	8933.72	62	25634.2	3778.59
1999	155	62181.3	7841.04	62	25646.2	3262.16
1998	157	63306.2	8109.71	63	26410.2	2908.97
1997	153	62281.7	5650	61	25867.7	2209
1996	154	62575.2	7220.95	61	25867.7	3624.86
1995	161	62961.2	3862.25	66	26997.7	2273.54
1994	160	64395.2	2854.62	65	26997.7	915.94
1993	162	64963.7	1042.9	67	28013.7	746.5
1992	162	64603.7	2331.6	67	27621.7	1289.6
1991	165	65534.97	7771.74	67	27732.7	4332.54
1990	175	71616.95	5862.92	76	32927.08	3352.82
1989	166	69391.27	13930.7	69	31952.4	7536.6
1988	167	74615.27	18521.4	64	31575.4	8181.4
1987	171	76624.07	10015	62	31060.9	4430.5
1986	179	80788.57	2854.7	64	33206.9	1453.82
1985	181	81385.57	4951.4	65	33462.9	1676.4
1984	188	84188.07	8177.6	65	33721.9	3948.1
1983	161	74854.57	8227.46	56	30070.9	2639.26
1982	155	77754.57	4551.86	55	31398.9	1771.63
1981	198	91361	9040	61	29392	2629
1980	187	87093	9837	60	27812	4597
1979	184	85701	6144	60	27200	2472
Min	149	58970.8	1042.9	55	24353.2	746.5
Max	212	91361	19482.51	106	36780.76	9699.49
Avg.	169.3	68850.0	8834.2	69.5	29133.3	4130.8

Table 1- Historic irrigation use from the entire Brookings management unit of the Big Sioux aquifer and from the management unit in just Hamlin County (Water Rights, 1979-2016)

Hydrologic Budget:

The average annual appropriative use from the Brookings management unit of the Big Sioux aquifer is estimated to be 28,675 ac-ft/yr. with 11,983 ac-ft/yr. coming from Hamlin County alone. This application, if approved, is expected to pump less than 152 ac-ft/yr. The estimated average annual recharge rate to the Brookings management unit of the Big Sioux aquifer is at least 108,000 ac-ft/yr. The estimated average annual recharge to the management unit in Hamlin County alone is 33,600 ac-ft/yr. Therefore on the entire scale of the Brookings management unit of the Big Sioux aquifer and on a county scale, there is a reasonable probability unappropriated water is available for this proposed appropriation.

EXISTING WATER RIGHTS:

The wells authorized by Water Right No. 6421-3 for Keith Ebbers, Water Permit No. 7434-3 for Poinsett Hutterian Brethren, and Water Permit No. 7896-3 for Fugere Farm are the closest to and are all approximately 0.5 miles from the well authorized by Water Right No. 2841-3, which this application proposes to use (see Figure 8) (Water Rights, 2016b). There are domestic wells within approximately one mile of the well this application proposes to use that are completed into the Brookings management unit of the Big Sioux aquifer (Water Rights, 2016c). At this distance between appropriative wells, it is likely there will not be adverse impacts caused by pumping this proposed diversion. The applicant plans to alternate the application of water to the acres authorized by Water Right No. 2841-3 and the acreage requested by this application. Water has been consistently applied to the acreage authorized under Water Right No. 2841-3 since 1979 (the first year of irrigation questionnaires). The average daily increase in diversion rate across the entire irrigation season (185 days) from the well authorized by Water Right No. 2841-3 to apply 10 inches of water per acre to the acreage requested by Application No. 8225-3 would be approximately 0.35 cfs. Figure 8 is a map of the area around the well this application proposes to use including water rights/permits and observation wells. Table 2 lists the water rights/permits shown in Figure 8.

The hydrographs document the impact from pumping in this area of the management unit is minimal on the water level of the management unit. The hydrograph for HN-77F, Figure 5, does not show impacts caused by pumping. The water table condition of the management unit means the water level drawdown due to pumping will not be significant far from the well. However, precise drawdown estimates have not been quantified through aquifer testing.

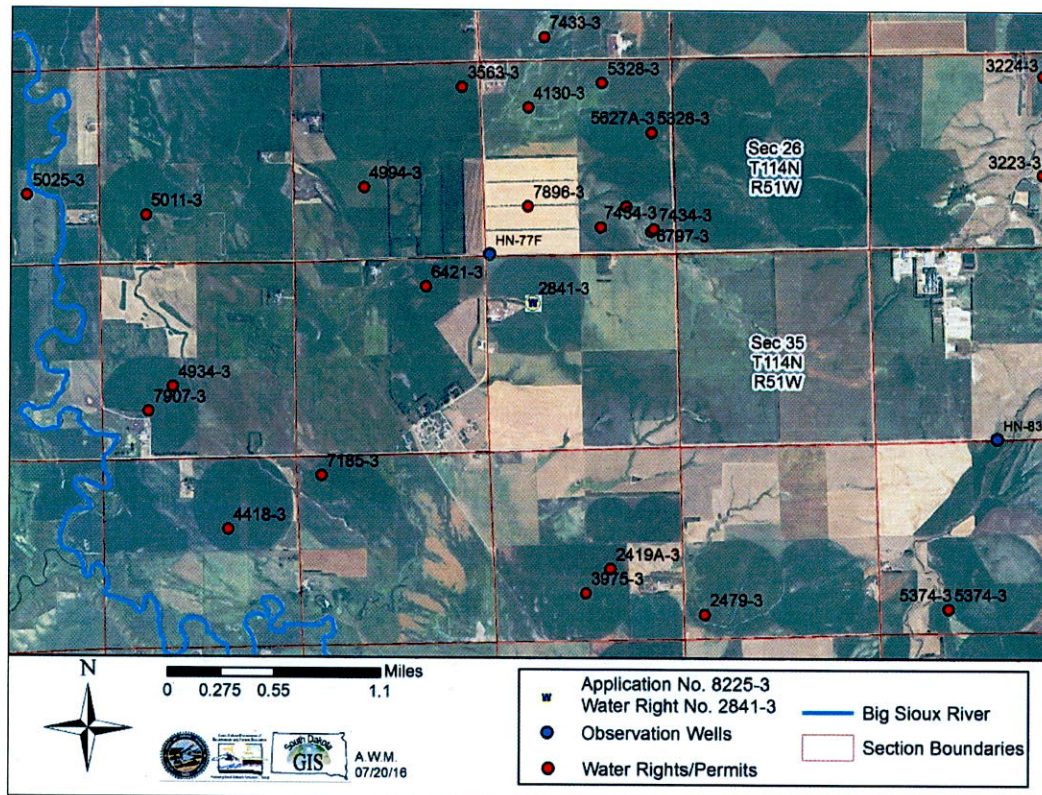


Figure 8- Map of the observation wells and wells authorized by water rights/permits completed into the Brookings management unit of the Big Sioux aquifer in the area of the well Application No. 8225-3 proposes to use (Water Rights, 2016a and 2016b)

Permit No.	Name	Status	Use	CFS	Acres
2419A-3	Lawrence F Spilde	LC	IRR	1	70
2479-3	Pine Knoll Inc	LC	IRR	2	258
2841-3	Wayne Janssen	LC	IRR	1.78	124
3223-3	Poinsett Httrn Brth	LC	IRR	5	560
3224-3	Steven Ching	LC	IRR	1.2	84
3563-3	Donald Linneman	LC	IRR	2	238
3975-3	Lawrence F Spilde	LC	IRR	2.95	207
4130-3	Laverne Mennenga	LC	IRR	1.88	132
4418-3	Ronald Jongeling	LC	IRR	1.33	134
4934-3	Ronald Jongeling	LC	IRR	1.33	99
4994-3	Douglas Linneman	LC	IRR	1.66	132
5011-3	Ronald Jongeling	LC	IRR	1.68	118
5025-3	Darrel Jongeling	LC	IRR	1.5	149
5328-3	Poinsett Httrn Brth	LC	IRR	2.22	257.5
5374-3	Kenneth/Judith Foster	LC	IRR	1.89	132
5402-3	Poinsett Httrn Brth	LC	IRR	1.77	132
5627A-3	Poinsett Httrn Brth	LC	IRR	1.78	136
6421-3	Keith Ebbers	LC	IRR	1.11	125
6797-3	Poinsett Httrn Brth	PE	IRR	1.67	136
7185-3	Tom Jongeling	PE	IRR	1.78	140
7433-3	Poinsett Httrn Brth	PE	IRR	1.78	130
7434-3	Poinsett Httrn Brth	PE	IRR	3.56	520
7896-3	Fugere Farm	PE	IRR	1.78	152
7907-3	Ronald Jongeling	PE	IRR	0.45	77

Table 2- Water Rights/Permits in the area of the well Application No. 8225-3 proposes to use as shown in Figure 8

In the past, the Water Management Board has recognized to place water to maximum beneficial use, a certain amount of drawdown may occur. Thus, the Water Management Board has defined an "adversely impacted domestic well" in ARSD 74:02:04:20(7) as:

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

Nearby adequate wells are not expected to be adversely impacted as defined in ARSD 74:02:04:20(7). Furthermore, there has also been a history of large capacity wells in the area from Brookings management unit of the Big Sioux aquifer without complaint. Considering all of these factors, there is a reasonable probability this proposed diversion can be made without adversely impacting existing appropriative or domestic users.

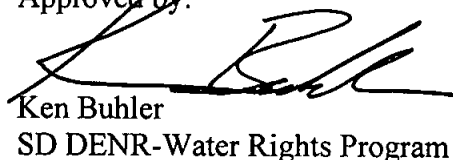
CONCLUSIONS:

1. Application No. 8225-3 proposes to divert water from the Brookings management unit of the Big Sioux aquifer at a diversion rate of 0.11 cfs for the irrigation of 152 acres in Hamlin County using an existing well and the diversion rate authority authorized by Water Right No. 2841-3.
2. Water Right No. 2841-3 authorizes the irrigation of 124 acres in Hamlin County at a maximum diversion rate of 1.78 cfs from the Brookings management unit of the Big Sioux aquifer.
3. Combined, Water Right No. 2841-3 and Application No. 8225-3, if approved, would authorize the irrigation of 276 acres and a diversion rate of 1.89 cfs from one well.
4. Based on the observation well data and hydrologic budget, there is a reasonable probability there is unappropriated water available for this application.
5. There is a reasonable probability the diversion proposed by this application can be made without adversely impacting existing appropriative or domestic users.



Adam Mathiowetz, PE
SD DENR-Water Rights Program

Approved by:



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Friedeman, B. Personal Communication, July 14, 2016. Environmental Scientist. DENR-Drinking Water Program.
- Hamilton, L.J. 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota. Water-Resources Investigations Report 88-4185. U.S. Geological Survey. Huron, South Dakota.
- Hansen, H.S. 1988. Appraisal of the Water Resources of the Big Sioux Aquifer, Moody County, South Dakota. Water-Resources Investigations Report 87-4057. U.S. Geological Survey. Huron, South Dakota.
- 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.
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- Janssen, R. Telephone conversation between Adam Mathiowetz and Eric Gronlund, and the Ralland Janssen. July 20, 2016.
- Koch, N.C. 1980. Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota. Water-Resources Investigations 80-100. U.S. Geological Survey. Huron, South Dakota.
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- Stonesifer, J. 2013. Report on Water Permit Application No. 7854-3 for David Ulvstad. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
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- Water Rights. 2016a. Observation Well Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2016b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2016c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

RECEIVED

AUG - 8 2016

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hamlin) SS

I, Lee Anne Dufek

certify that the attached printed Notice was taken

from the Hamlin County
Republican

printed and published in Castlewood

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Aug. 3, 2016

Cost of Printing \$28.98

Lee Anne Dufek
(Signature)

Owner
(Title)

8-4-16
(Date Signed)

NOTICE OF APPLICATION NO.
8225-3 TO APPROPRIATE WATER

Notice is given that Ralland Jansen, 18943 463rd Ave, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.11 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux: Brookings aquifer (82 feet deep) and use the existing diversion rate authority from this well authorized by Water Right No. 2841-3 to irrigate 152 acres located in the NE 1/4 Section 34; all in T114N-R51W. Water Right No. 2841-3 appropriates 1.78 cfs from this well located in the approximate center of the NW 1/4 Section 34 to irrigate 124 acres located in the NW 1/4 Section 34, T114N, R51W. Combined, Water Right No. 2841-3 and this application, if approved, will authorize 1.89 cfs for irrigation of 276 acres in the N 1/2 of Section 34.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8225-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or

recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 15, 2016.

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

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

Steven M. Pimer,
Secretary

Department of Environment and
Natural Resources

Published Aug. 3, 2016, at total
cost of \$28.98.

RECEIVED

AUG 10 2016

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was published

in the newspaper on the following date:

August 3rd, 2016

Cost of Printing \$68.75

Monica K. Saathoff
(Signature)

Bookkeeper

(Title)

August 3rd, 2016

(Date Signed)

**DEPARTMENT
OF
ENVIRONMENT
AND NATURAL
RESOURCES**

**NOTICE OF APPLICATION
NO. 8225-3 to Appropriate
Water**

Notice is given that Ralland Janssen, 18943 463rd Ave, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.11 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux-Brookings aquifer (82 feet deep) and use the existing diversion rate authority from this well authorized by Water Right No. 2841-3 to irrigate 152 acres located in the NE 1/4 Section 34; all in T114N-R51W. Water Right No. 2841-3 appropriates 1.78 cfs from this well located in the approximate center of the NW 1/4 Section 34 to irrigate 124 acres located in the NW 1/4 Section 34, T114N, R51W. Combined, Water Right No. 2841-3 and this application, if approved, will authorize 1.89 cfs for irrigation of 276 acres in the N 1/2 of Section 34. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8225-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 15, 2016. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition. Steven M. Pimer, Secretary, Department of Environment and Natural Resources.

August 3, 2016 *2915*

All legal notices in the Public Opinion and other South Dakota newspapers can be found at
www.sdpublishing.com

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, July 26, 2016 7:47 AM
To: Hamlin County Publishing (hcp@itctel.com)
Subject: 8225-3, Ralland Janssen
Attachments: 8225-3publicnov2015.short1.docx; FORM8.FRM.doc

Attached is a notice to be published in the Hamlin County Republican on August 3, 2016.

Ralland Janssen, 18943 463rd Ave, Castlewood SD 57223 (605 873-2669 or c 605 690-2999) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP.

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

Karen Schlaak

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

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, July 26, 2016 7:48 AM
To: legals@thepublicopinion.com
Subject: 8225-3, Ralland Janssen
Attachments: 8225-3publicnov2015.short1.docx; FORM8.FRM.doc

Attached is a notice to be published on August 3, 2016.

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Please send the affidavit or return the attached Proof of Publication form ASAP.

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

Karen Schlaak

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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

July 25, 2016

Ralland Janssen
18943 463rd Ave
Castlewood SD 57223

Dear Janssen:

Water Permit Application No. 8225-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Hamlin County Republican printed at Castlewood SD (Ph # 605-793-2293) and the Public Opinion printed at Watertown SD (Ph # 605-886-6901). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

NOTICE OF APPLICATION NO. 8225-3 to Appropriate Water

Notice is given that Ralland Janssen, 18943 463rd Ave, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.11 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux:Brookings aquifer (82 feet deep) and use the existing diversion rate authority from this well authorized by Water Right No. 2841-3 to irrigate 152 acres located in the NE 1/4 Section 34; all in T114N-R51W. Water Right No. 2841-3 appropriates 1.78 cfs from this well located in the approximate center of the NW 1/4 Section 34 to irrigate 124 acres located in the NW 1/4 Section 34, T114N, R51W. Combined, Water Right No. 2841-3 and this application, if approved, will authorize 1.89 cfs for irrigation of 276 acres in the N 1/2 of Section 34.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8225-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 15, 2016.

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

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

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

AUG 22 2016

Ralland Janssen
18943 463rd Ave
Castlewood SD 57223

Dear Mr. Janssen:

Enclosed is Water Permit No. 8225-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

JUN 26 2017

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 6/10/17TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Ralland Janssen

(name)

18943 463 Ave

(address)

Castlewood SD 57223

(city, state, zip)

(phone)

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

Water Permit No. 8225-3 states that the water use system is to be constructed byAug 15/21

(date)

, and water is to be put to beneficial use by

Aug 15/25

(date)

The water use system was completed on

5/15/17

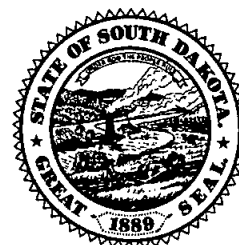
(date)

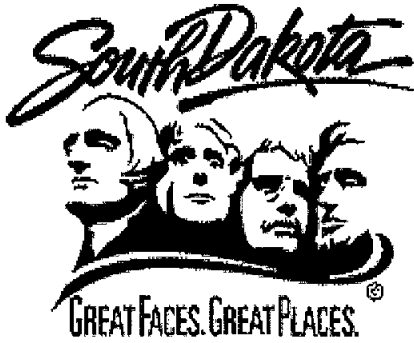
Applying the water to beneficial use was completed on

6/1/17

(date)

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

Ralland Janssen
(signature)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 26, 2017

8225-3

Ralland Janssen
18943 463rd Ave
Castlewood SD 57223

Dear Janssen:

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

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

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

Sincerely,

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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8225-3

I have this day, April 27, 2022, made a thorough examination of the water use system constructed by Ralland Janssen 18943 463rd Ave, Castlewood, SD 57223 of Permit No. 8225-3, bearing the priority of May 12, 2016 authorizing the diversion of an additional 0.11 cu. ft. per second of the waters of the Big Sioux-Brookings Aquifer for irrigation purposes, in Hamlin County.

A. Works used to divert the water:

Well Information: Authorized by Permit 2841-3

- 1) Well Drilling Firm: Empire Drilling in 1979
- 2) No. of Wells 1
- 3) Depth(s) 82 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 inches
- 2) Length unknown feet
- 3) Type Fiberglass

Screen:

- 1) Type Fiberglass
- 2) Length unknown feet
- 3) Static water level 32 feet

Pump:

- 1) Make Submersible
- 2) Model and Size unknown
- 3) Capacity 800 GPM

Motor: unknown

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

- 1) Type Underground PVC
- 2) Size 10 inches
- 3) Length 2740 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 800 GPM

Chemigation Equipment:

- 1) Does chemigate Yes, uses commercially available equipment

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: Well Location; From the NW corner Sec 34 T114N R51W, 1330 ft S & 1200 ft E, Lat 44.64135 Long -96.94085 (NW ¼ NW ¼).
This well also irrigates the NW ¼ Section 34, T114N, R51W authorized under No. 2841-3.

2. The works are capable of diverting and conveying to the place of use 1.78 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

All land in Sec 34 T114N R51W

NW ¼ NE ¼ – 26 acres

NE ¼ NE ¼ – 33 acres

SE ¼ NE ¼ – 34 acres

SW ¼ NE ¼ – 34 acres

comprising a total of 127 acres of land and the license should be issued for a combined total of 1.78 cfs for Nos. 8225-3 and 2841-3. No. 2841-3 is licensed for 124 acres in the NW ¼ Section 34.

3. All structures, wells and lands on map Y

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

The irrigated acreage was determined with the aid of FSA imagery and ArcMAP software.

The telephone number and the address in the permit materials are current.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: April 30, 2022



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

OCT 14 2022

8225-3

Ralland Janssen
18943 463rd Ave
Castlewood SD 57223

Dear Mr. Janssen:

Enclosed is Water License No. 8225-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,


Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA WATER LICENSE NO. 8225-3

(1) Ralland Janssen, 18943 463rd Ave., Castlewood SD 57223 made Application No. 8225-3, May 12, 2016, for a water permit to divert an additional 0.11 cubic feet of water per second (cfs) from ground water, an existing well (Big Sioux Brookings Aquifer), Hamlin County, South Dakota for irrigation purposes. Permit No. 8225-3, with a priority date of May 12, 2016, was approved August 15, 2016, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before August 15, 2021, and for the application to beneficial use of water on or before August 15, 2025.

Water Right No. 2841-3, authorizes diversion of 1.78 cfs from groundwater to irrigate the NW $\frac{1}{4}$ Section 34, T114N, R61W. Water Permit No. 8225-3 was obtained to increase the diversion rate and add acreage in the NE $\frac{1}{4}$ Section 34 to be irrigated from the existing well. The additional diversion rate was not developed. The pivots are operated on a rotating basis.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert a combined total of 1.78 cubic feet of water per second for beneficial use under this license and Water Right No. 2841-3. The location of the diversion point is:

- 1,330'S and 1,200'E of the NW corner of Section 34, T114N, R51 W (NW $\frac{1}{4}$ NW $\frac{1}{4}$)
Latitude 44.64935, Longitude -96.94085

The above well and 1.78 diversion authority is authorized under Water Right No. 2841-3 for irrigation of the NW $\frac{1}{4}$ Section 34, T114N, R51W. Water Right No. 2841-3 & Water Right No. 8225-3 were not incorporated due to separate land ownership.

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

Section 34, T114N, R51W	NW $\frac{1}{4}$ NE $\frac{1}{4}$	26 acres	SE $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres
	NE $\frac{1}{4}$ NE $\frac{1}{4}$	33 acres	SW $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres
Total – 127 acres				

(4) Pursuant to South Dakota Water Law 46-5-30.1 Ralland Janssen, 18943 463rd Ave., Castlewood SD 57223 the holder and/or owner of Water Right No. 8225-3 is issued a license to appropriate water, the right to use a combined total of 1.78 cubic feet of water per second under this license and Water Right No. 2841-3 from ground water, one well (Big Sioux Brookings Aquifer), with a priority date of May 12, 2016, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8225-3 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund
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Water Rights Program
Department of Agriculture and Natural Resources

OCT 14 2022
date

