

WATER PERMIT NO. 7794-3

Name of Applicant: Jerry Mehling

Address: 20631 372nd Ave, Wessington SD 57381 Phone: 605 530-0967

Amount of Water Claimed: 2.89 cfs Total Acres: 300 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Hand

Type of Waste Disposal System:

Location: 4 miles south of Wessington

PRIORITY Date Received: 3-18-13 Application/License Fee: \$ 1250

Corrected Application Received: Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: center NE 1/4 Sec 26-T111N-
R66W

Land to be Irrigated: NE 1/4 Sec 26 and NW 1/4
Sec 25; all in T111N-R66W

Depth of Well: 147 feet deep

Well Driller: Stretch Well Service

Remarks:

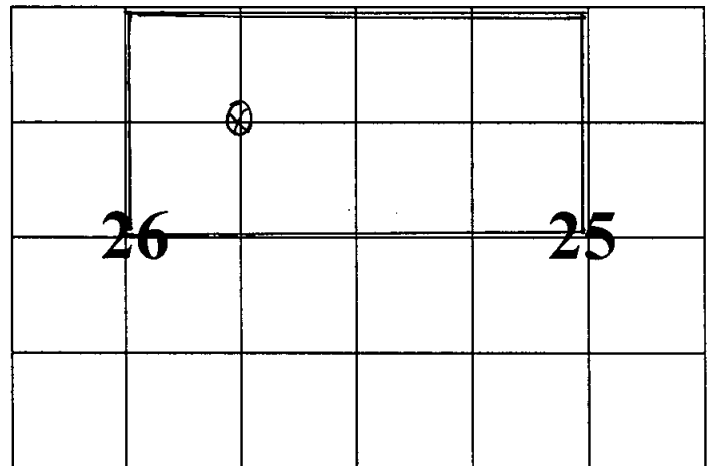
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 3-19-13

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



SD EForm - 0499LD V4

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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7794-3</u> (office use only)	Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>	<u>605-853-3525</u>
	Newspaper <u>Miller Press Box 196</u>	<u>57362</u>
	<u>Plainsman Box 1278 Huron</u>	<u>57350</u> <u>605-352-6401</u>

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MAR 18 2013

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Application For Permit To Appropriate Water For Irrigation

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

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

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

(name and complete address if different than above name)

Mailing Address 20631 372 Ave Wessington SD 57381
(Address) (City) (State) (Zip Code)

Home Phone 605-458-2594 Cell 605-530-8967 Email mehling@venturecomm.net

2. Amount of water claimed 2.89 *CFS or 1300 **GPM ***AF Total Acreage 300
(*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 center of the NE 1/4 sec 26 11N-66W
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)

County Hand

5. County or counties where water will be used Hand

6. Annual period during which water is to be used April 1 - October 31

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 NE 1/4 of Sec 26-11N-66W	37	NE 1/4 of NW 1/4 of Sec 25-11N-66W	37
NW 1/4 of NE 1/4 of Sec 26-11N-66W	37	NW 1/4 of NW 1/4 of Sec 25-11N-66W	37
SE 1/4 of NE 1/4 of Sec 26-11N-66W	38	SE 1/4 of NW 1/4 of Sec 25-11N-66W	38
SW 1/4 of NE 1/4 of Sec 26-11N-66W	38	SW 1/4 of NW 1/4 of Sec 25-11N-66W	38

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

I, Jerry Mehling, 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. 7794-3

Date of first receipt of application March 18, 2013.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7794-3 to Jerry Mehling, 20631 372 Ave, Wessington SD 57381 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. 7794-3 appropriates 2.89 cubic feet of water per second from one well to be completed into the Bad-Cheyenne Aquifer (147 feet deep) located in the center of the NE 1/4 Section 26 for irrigation of 300 acres located in the NE 1/4 Section 26 and the NW 1/4 Section 25; all in T111N-R66W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is March 18, 2013.
4. The date of approval of Permit No. 7794-3 is June 10, 2013.
5. One-fifth of the construction is to be completed on or before December 10, 2015.
6. All construction is to be completed on or before June 10, 2018.
7. Water is to be put to beneficial use on or before June 10, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7794-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

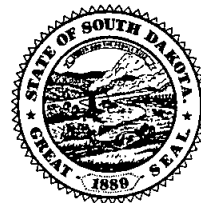
WATER MANAGEMENT BOARD

By: 

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

JUL 05 2013

date



Form 2A

(Complete applicable portions only)

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)a) If new wells, how many 1 Have test holes been drilled ☒ Yes ☐ No Drilled by Stretch Well Service
(if yes, please provide copies of logs)b) If existing wells, how many Provide copy of log(s), if available. Drilled by c) Well Depth 147 Depth to Top of Water Bearing Material 106 Depth to Water from Surface 365+

d) Distance to nearest existing domestic well:

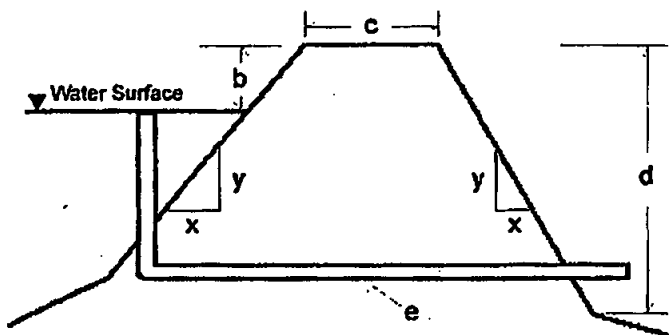
On applicant's property 1800 On property owned by others 2000**2. Wastewater Disposal System Information**a) Type of System (i.e. septic tank, drain field) b) System Capacity (gallons) Year Constructed c) Connected to the City of Sanitary System **3. Dugout Information**a) Surface Dimensions Depth b) Depth to water (ground surface to water level) **4. Water Storage Dams**

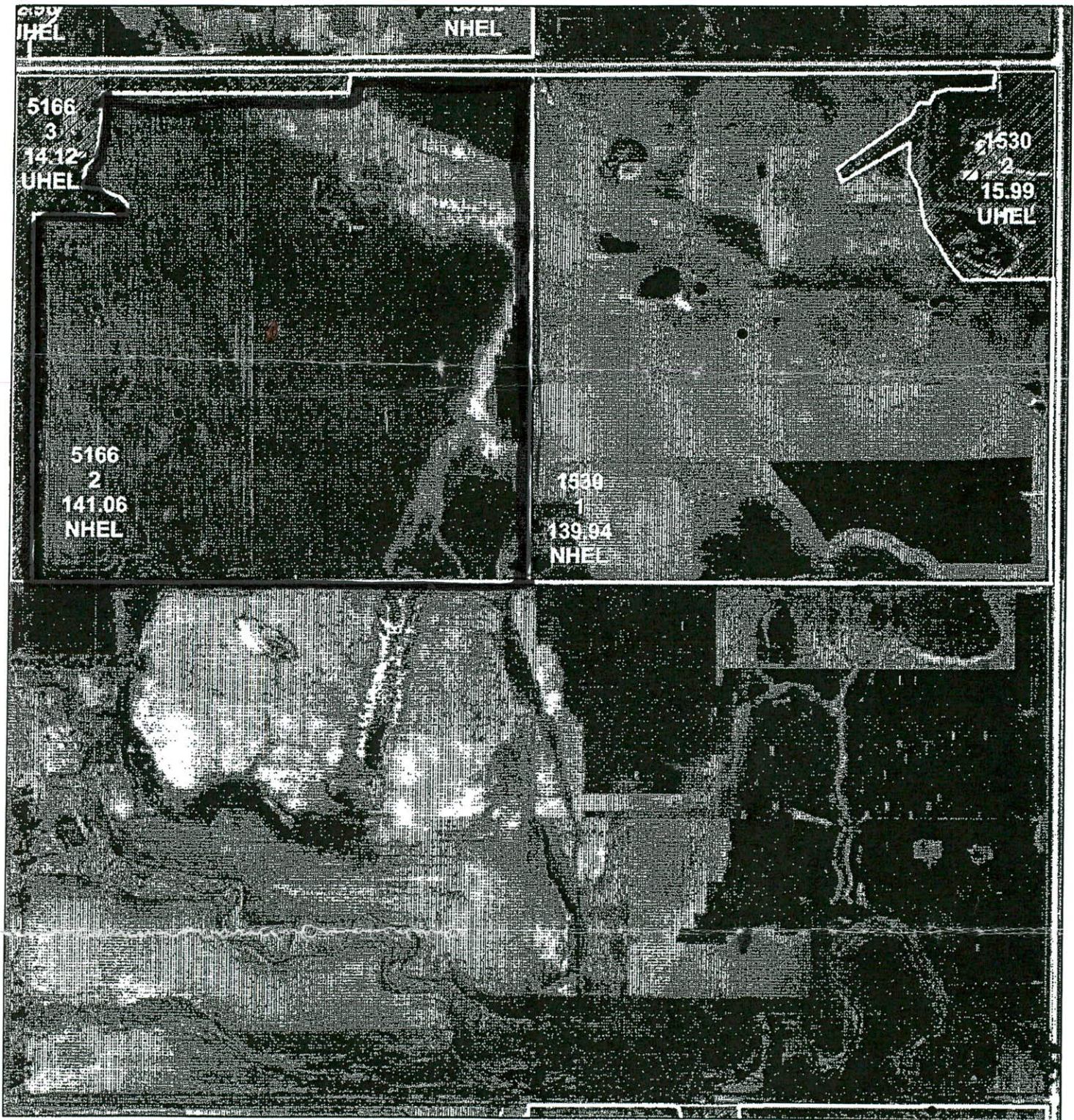
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

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 Feetj) Drainage Area Above Dam Acres



United States Department of Agriculture
Farm Service Agency

PLSS: 25_111N_66W
Farm: 4906

Hand County, SD

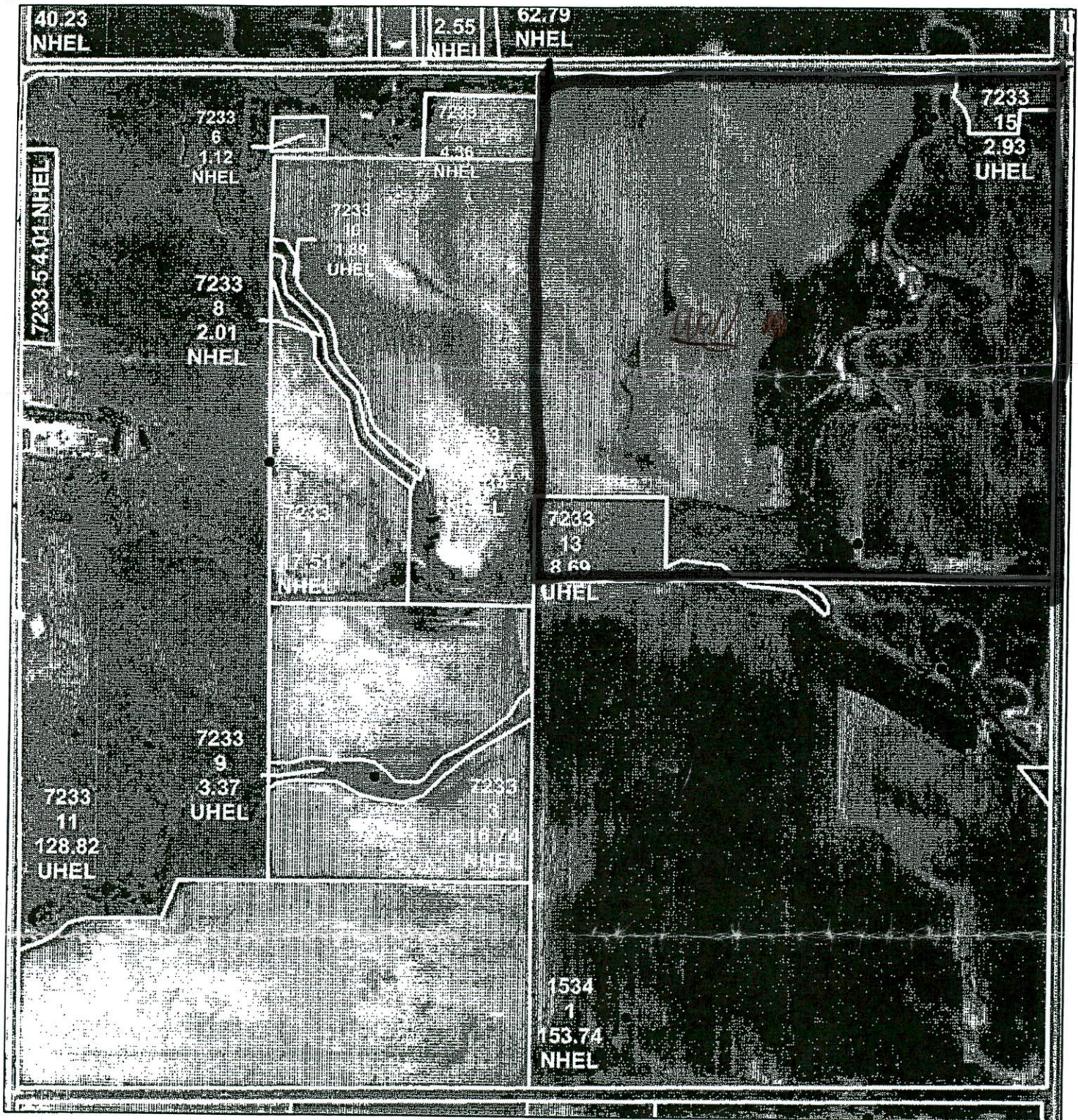
1:8,156

January 12, 2011



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Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original dermination (CPA-026 and attached maps) for exact wetland
boundaries and determinations, or contact NRCS.



United States Department of Agriculture
Farm Service Agency

PLSS: 26_11N_66W
Farm: 4906

Hand County

1:8,200

January 26, 2012



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WATER RIGHTS
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Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Stretch's Well Service Inc. Drillers Log (605)266-2128

Page No.

Sec
26

JERRY MEHLINKA

Jay

Job Name

Location

Date

Rig No.

Foreman

Dr. #	Depth	Time	Remarks
1	0-15	2.38	0-5 - TOP SOIL - Black
2	15-30	3.35	5-6 - Dark Yellow clay
3	30-45	3.51	6-8 Sand
4	45-60	4.08	8-18 Yellowish sandy clay
5	60-75	4.20	18-19 Dark Brown clay
6	75-90	4.36	19-25 Silty Blue clay
			25-31 Silty Blue clay with stones
	2-26-2013		31-32 Dark white clay
			32-51 Gray silty clay with very fine sand lenses
7	90-105	11.27	51-57 Sand little coal
8	105-120	1.00	57-61 Gray clay
9	120-135	1.27	61-70 Soft Gray clay
10	135-150	1.51	70-75 Sand with clay lenses
			75-80 Sand
			80-83 Sand
			83-85 Blue clay
			85-95 Blue clay shale
			95-106 Colored Sand Blue clay
			106-110 Colored Sand
			110-115 Colored Sand
			115-120 Colored Sand
			120-125 Colored Sand
			125-130 Colored Sand with shivers of shale
			130-135 Course with little dark shale
			135-140 Colored med
			140-145 Course
2-27-2013			145-150 Course
1	0-15	K	129' 4" PVC well casing
2	15-25	DC	20' 25 slot PVC screen
3	25-40	R	1- 4" well cap - 14 bags bentonite
4	40-55	R	Pea rock for pack - open bottom
5	55-70	R	well depth 147' water level 36'
6	70-85	R	Pumped 50' with air
7	85-100	R	
8	100-115	R	
9	115-130	R	
10	130-145	R	
11	145-160	R	

Had to put
short surface in
flowable with pump

Sec 26
Township
111 Range 60

Hand
Roy

180 PPR
total

147

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Case test
No 11

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WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/19, 20 13

RECEIVED OF Farmer's Implement 3023 E Hwy 14 Brookings SD 57006 (Mehling)

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

Fee for Application for Permit No. <u>7794-3</u> to Appropriate Water, to construct and to put water to beneficial use	1050	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>7794-3</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	1250 00

No. 06247

By [Signature]
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER
FOR WATER PERMIT APPLICATION NO. 7794-3, Jerry Mehling**

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. 7794-3, Jerry Mehling, 20631 372nd Avenue, Wessington SD 57381.

The Chief Engineer is recommending APPROVAL of Application No. 7794-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7794-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
May 21, 2013

NOTE: A past study of the Bad-Cheyenne Aquifer indicates the aquifer is not suitable for irrigation. DENR encourages you to have a soil water compatibility analysis performed to insure the water is suitable for irrigation. The Water Resources Institute at SDSU or other qualified soil scientist can assist you in making a soil water compatibility determination and recommend if there are water management techniques to implement to optimize crop production and protect the soil structure.

REPORT TO THE CHIEF ENGINEER

WATER PERMIT APPLICATION NO. 7794-3

Jerry Mehling

April 19, 2013

Water Permit Application No. 7794-3 proposes to withdraw groundwater at a maximum diversion rate of 2.89 cubic feet of water per second (cfs) from one well completed into the Bad-Cheyenne aquifer. The well is expected to be 147 feet deep and located in the center of the NE¼ of Section 26, T111N-R66W. Water will be used to irrigate 300 acres located in NE¼ of Section 26 and NW¼ of Section 25, T111N-R66W, in Hand County.

AQUIFER: Bad-Cheyenne aquifer (BC)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Bad-Cheyenne aquifer is a buried interconnected system of pre-glacial and ice-marginal river channels. The aquifer consists of outwash and alluvium sand and gravel (Koch, 1980). Initial mapping indicates that the majority of the Bad-Cheyenne aquifer underlies portions of Hyde, Hand, and Beadle Counties, but also extends slightly into Jerauld County to the east, and appears to extend significantly into Sully County and could extend further into Hughes County (Hedges and others, 1982; Koch, 1980). As delineated, there appears to be a groundwater divide in Hyde County, flowing southeastward or southwestward, as shown in Figure 1 (Koch, 1980). The aquifer underlies approximately 170,500 acres on the east portion of the groundwater flow divide. In several areas, the Bad-Cheyenne aquifer is overlain by and could be hydraulically connected to the Tulare aquifer system (Koch, 1980). The top of the aquifer ranges from 150 to 500 feet below ground surface, water levels range from 10 to 210 feet below ground surface, and thickness averages 40 feet (Koch, 1980). According to Koch (1980), the water in this aquifer is not suitable for irrigation.

The SD DENR-Geological Survey is currently investigating this aquifer system in Hand County. The Bad-Cheyenne aquifer appears to be much less extensive than originally delineated. The Bad-Cheyenne occurs in T111N-R66W in eastern Hand County, and extends northwest and southeast for several miles in either direction. The outwash appears to follow an old bedrock channel (Rich). The remaining previously mapped Bad-Cheyenne aquifer in western Hand County and Hyde County are probably not considered part of this outwash. Based on the previous mappings of the aquifer, and the work in progress, this Bad-Cheyenne aquifer is estimated to underlie approximately 37,000 acres (Hamilton, 1985; Hedges and others, 1982; Koch, 1980; Rich). This area is shown in Figure 1. The water permit application, as well as all other water rights/permits previously authorized for the Bad-Cheyenne aquifer, appear to be located within the current, but incomplete, delineation of this outwash considered the Bad-Cheyenne aquifer.

In the area of the proposed well site, the Bad-Cheyenne aquifer flows southeastward. The top of the aquifer is often encountered 110 feet below ground surface, water levels range from approximately 20 to 50 feet below ground surface, and thickness is often approximately 40 feet.

The aquifer materials generally lie on the Pierre Shale (Water Rights, 2013a; Water Rights, 2013b).

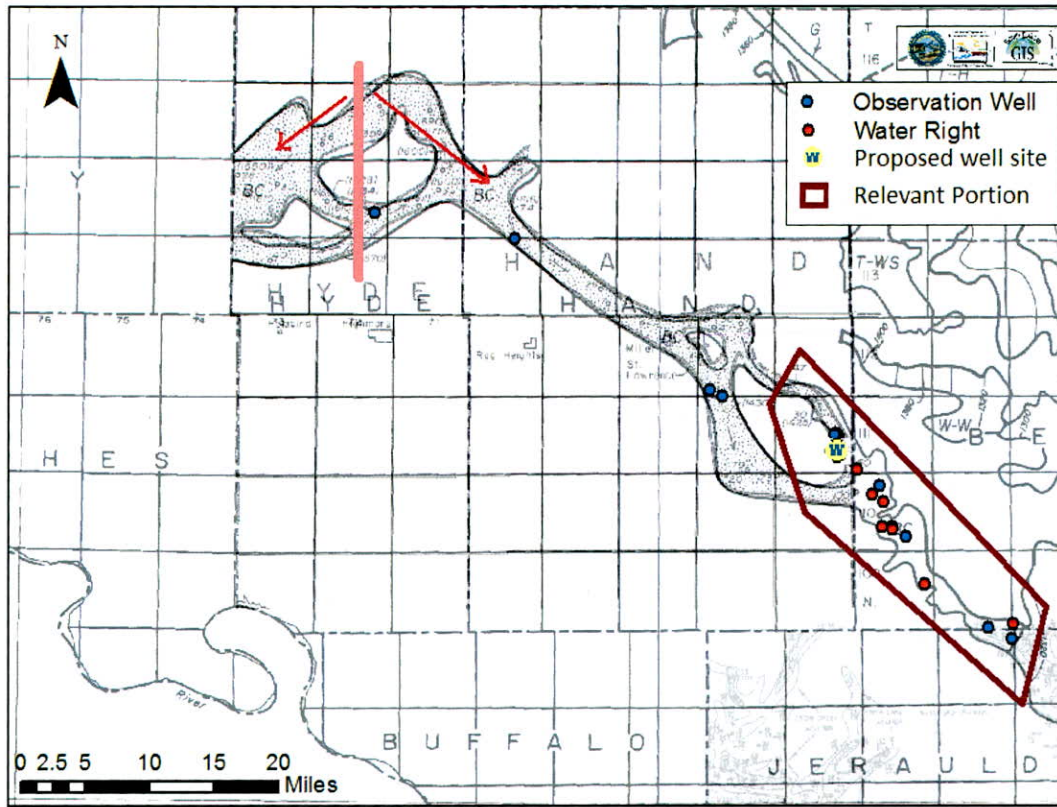


Figure 1: Bad-Cheyenne aquifer previously defined areal extents, flow patterns, water rights, observation wells, and proposed well site (modified from Hamilton, 1985; Hedges and others, 1982; Koch, 1980; Water Rights, 2013a; Water Rights, 2013b; Rich)

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 the 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 from the aquifer and the potential for impairment of existing rights.

WATER AVAILABILITY:

If this application is approved, the actual water use will likely be less than 600 ac-ft/yr. 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 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 public water system has applied for a permit, the Board need not consider the recharge/withdrawal issue. Here, a public water system is not involved and the

aquifer is not older or lower than the greenhorn formation therefore withdrawal/recharge issue must be considered.

Hydrologic Budget:

Recharge:

Recharge to the Bad-Cheyenne aquifer occurs mainly by inflow from the overlying Tulare aquifer and less significantly by infiltration of precipitation through overlying glacial drift (Koch, 1980). The recharge rate to the Bad-Cheyenne aquifer has not been quantified. Hedges and others (1985) suggested for management and development programs, the recharge rate to confined aquifers can be estimated to range from 0.15 to 0.60 inches per year (in/yr). Applying the estimated area of the Bad-Cheyenne aquifer, recharge ranges from 460 to 1,850 ac-ft/yr.

Discharge:

Discharge from the Bad-Cheyenne aquifer occurs through outflow to adjacent subsurface areas to the west and east, and well withdrawals (Koch, 1970). There are currently eight water rights appropriating water from the Bad-Cheyenne aquifer, all of which are for irrigation use and located east of the groundwater flow divide (Water Rights, 2013b). These are described in Table 1. The annual pumpage is shown in Figure 2. The annual withdrawal from the aquifer by irrigation use water rights fluctuates, which is probably mostly dependent on annual growing season climatic conditions. The average pumpage reported from the Bad-Cheyenne aquifer over the period of record equals 483 ac-ft/yr (Water Rights, 1980-2012). In addition, there are many completion reports for domestic wells that appear to be completed into the Bad-Cheyenne aquifer; however, annual withdrawal due to domestic use is not significant to the hydrologic budget of the aquifer (Water Rights, 2013c).

Hydrologic Budget:

Discharge from the Bad-Cheyenne aquifer due to well withdrawal is estimated to be 483 ac-ft/yr. To balance the hydrologic budget, recharge must equal withdrawal, and so, recharge to this aquifer must equal 0.16 in/yr. This required recharge rate is on the extreme low end of the suggested recharge rate range provided by Hedges and others (1985). Therefore, there is a reasonable probability that unappropriated water is available from the Bad-Cheyenne aquifer for the proposed appropriation.

Table 1: Water Rights appropriating from the Bad-Cheyenne aquifer (Water Rights, 2013b)

Permit No.	Name	County	Priority Date	Status	Type	CFS	Acres
661-3	Gary K Fisher	BD	09/15/1959	LC	IRR	3	459.6
1925-3	Wernerstruck Inc	BD	02/15/1972	LC	IRR	4.22	358
2786-3	Roy or Janet Mehling	HD	06/22/1976	LC	IRR	2.11	200
4387-3	Kevin or Nicole Von Eye	BD	02/12/1979	LC	IRR	1.57	110
4824-3	Jerry Mehling	HD	10/05/1981	LC	IRR	1.55	132
4826-3	Roy Mehling	HD	10/19/1981	LC	IRR	1.17	82
5228-3	Roy Mehling	HD	08/05/1988	LC	IRR	1.78	150
5452-3	Wernerstruck Inc	BD	09/15/1977	LC	IRR	1.94	136
LC = Water Rights, IRR = Irrigation, BD = Beadle, HD = Hand							

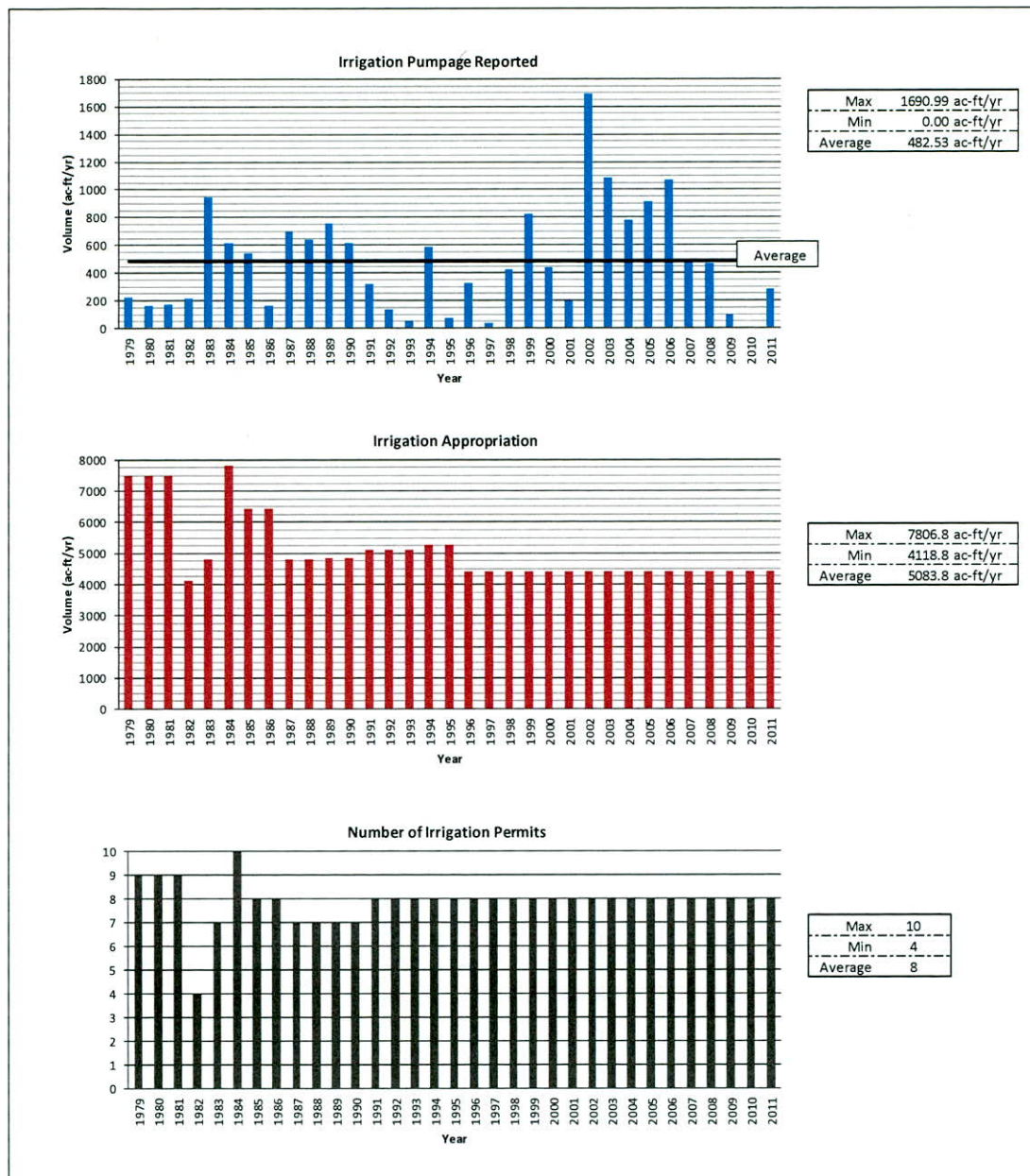


Figure 2: Historic irrigation pumpage from the Bad-Cheyenne aquifer (Water Rights, 1980-2012)

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 to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer.”

The SD DENR-Water Rights Program monitors eight observation wells completed into the Bad-Cheyenne aquifer as previously delineated. The nearest observation well, HD-77A, is located approximately one mile north of the proposed well site (Water Rights, 2013a). This observation well is expected to be the best representation of water levels in this outwash (Rich). The hydrograph for this well is shown in Figure 3.

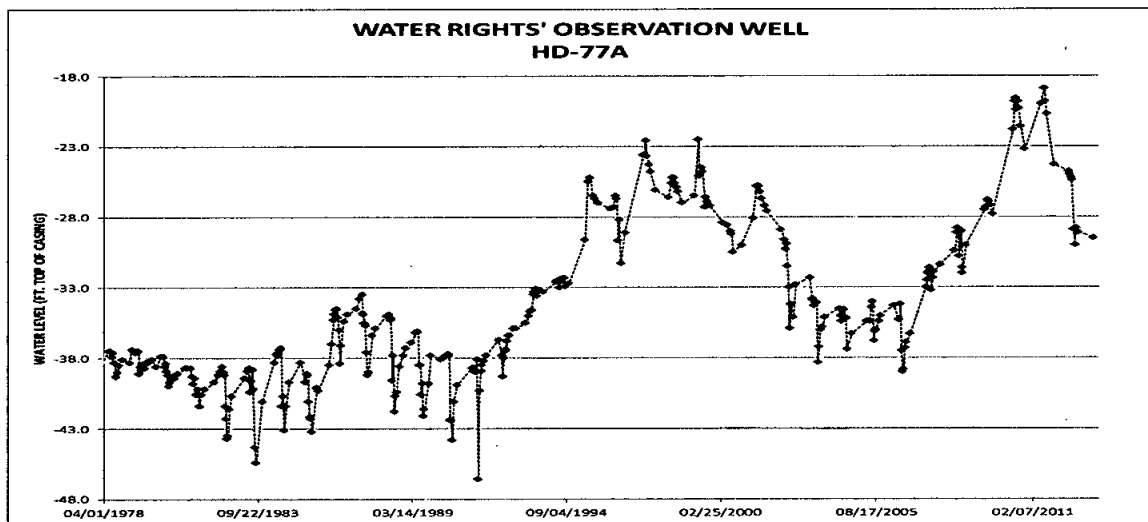


Figure 3: Hydrograph of observation well HD-77A (Water Rights, 2013a)

The observation well data documents cyclic conditions of water levels, recharging during wet years and declining during dry years. Temporal well withdrawal of the aquifer is masked by climatic conditions, indicating that recharge to and natural discharge from the aquifer greatly exceeds well withdrawal. Over the period of record, water levels have remained fairly steady or increased in all observation wells completed into this aquifer. Therefore, unappropriated water is available from the Bad-Cheyenne aquifer to support the proposed appropriation.

EXISTING WATER RIGHTS:

If approved, the proposed well will be located near other wells that obtain water from the same aquifer. There are seven domestic wells on record that appear to be completed into the Bad-Cheyenne aquifer within two miles of the proposed well site (Water Rights, 2013c). Four water rights are located within two miles of the proposed well site. The nearest, Water Right No. 5228-3 is located approximately one half mile south of the proposed well site (Water Rights, 2013b).

Drawdown due to pumping in the Bad-Cheyenne aquifer will occur. However, precise drawdown cannot be quantified without aquifer testing. The Water Management Board has consistently recognized that to place water to maximum beneficial use a certain amount of drawdown may occur. SDCL 46-6-6.1 does not require protection of artesian head pressure as a means of groundwater delivery. However, reasonable domestic use must be assured before irrigation use is allowed. Therefore, when considering irrigation projects, the Water Management Board must give consideration to maintaining artesian head pressure as a method of delivery for domestic wells. To balance interests between irrigation use and delivery of groundwater by artesian pressure, ARSD 74:02:04:20(7) defines 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”

Depending on the specific characteristics of the Bad-Cheyenne aquifer at the proposed well site, some existing well owners may need to lower their pumps to accommodate possible reduction of head pressure.

Observation well HD-77A is located near several water rights. As previously discussed, the hydrograph, shown in Figure 3, documents the effects of pumping. However, this temporal well withdrawal is masked by climatic conditions. Therefore, there is a reasonable probability that any well interference from the proposed appropriation will not adversely or unlawfully impair existing nearby wells.

CONCLUSIONS:

1. Water Permit Application No. 7794-3 proposes to withdraw groundwater at a maximum diversion rate of 2.89 cfs from one well to be completed into the Bad-Cheyenne aquifer in Hand County for the irrigation of 300 acres.
2. There is a reasonable probability that unappropriated water is available from the Bad-Cheyenne aquifer to supply the proposed appropriation.
3. There is a reasonable probability that any possible well interference due to the proposed appropriation will not adversely or unlawfully impair existing users.



Joseph R Stonesifer
SD DENR-Water Rights Program

Approved by



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Hamilton, L.J. 1985. Water Resources of Aurora and Jerauld Counties, South Dakota, U.S. Geological Survey Water-Resources Investigations Report 84-4030. Vermillion, South Dakota.
- Hedges, L.S. J. Allen, and D.E. Holly. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, South Dakota.
- Hedges, L.S., Burch, S.L., Iles, D.L., Barari, R.A., Schoon, R.A., 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report; U.S. Army Corps of Engineers Contract DACW 45-80-C-0185
- Koch, N.C. 1980. Geology and Water Resources of Hand and Hyde Counties, South Dakota; Part II: Water Resources: South Dakota Geological Survey Bulletin 28, SD DENR-Geological Survey, Vermillion, South Dakota.
- Rich, T. Geologist, SD DENR-Geological Survey. Personal communication. 19 April, 2013.
- Water Rights, 1980-2012. "Irrigation Report Summaries." SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013a. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013b. Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013c. Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

Published 5-29-2013 at the
total approximate cost of \$22.19.

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JUN 14 2013

PRINTER'S AFFIDAVIT

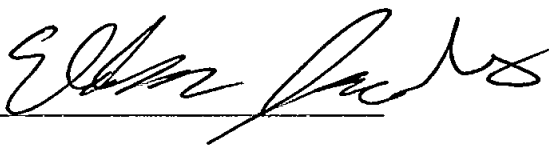
WATER RIGHTS
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STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss.

I, ELDON JACOBS, being duly sworn on oath, say that THE PLAINSMAN is a daily paper published at Huron, Beadle County, South Dakota, and that said newspaper has a bona fide circulation of at least 250 copies daily; that said newspaper has been published within said county for fifty-two consecutive weeks immediately prior to this date, that said newspaper is printed in whole or in part, in an office maintained at said place of publication; that I am Legal Advertising Coordinator of said newspaper and know the facts herein state. The annexed notice headed:

JERRY MEHLING -WATER RIGHTS

was published for one day, in said newspaper, and not in any supplement of the said newspaper, the publication was of the 29TH day MAY 2013. That the full THIRTY-FOUR & 12/000 dollars insures to the benefit of the publisher of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whom so ever.



Subscribed and sworn to before me this 31ST day of MAY 2013.


Notary Public, South Dakota

My term expires 10/25/2017

Legal # 789

F.P. 05-29-13

**NOTICE OF
APPLICATION
NO. 7794-3**

to Appropriate Water

Notice is given that Jerry Mehling, 20631 372nd Ave, Wessington SD 57381 has filed an application for a water permit to appropriate 2.89 cubic feet of water per second from one well to be completed into the Bad-Cheyenne Aquifer (147 feet deep) located in the center of the NE 1/4 Section 26 for irrigation of 300 acres located in the NE 1/4 Section 26 and the NW 1/4 Section 25; all in T111N-R66W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7794-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the

Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 10, 2013.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application.

Steven M. Pirner,
Secretary, Department
of Environment and
Natural Resources.
No. 789 (adv.)

Published once at the
total approximate cost of
\$43.86.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

May 21, 2013

Plainsman
PO Box 1278
Huron SD 57350

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7794-3 to Appropriate Water. Please publish the notice once on May 29, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Jerry Mehling, 20631 372nd Ave, Wessington SD 57381 (Ph # 605-458-2594).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

Schlaak, Karen

From: Ruby Crandall <rnewman.plainsman@midconetwork.com>
Sent: Wednesday, May 22, 2013 11:04 AM
To: Schlaak, Karen
Subject: Re: Notice for 7794-3, Jerry Mehling

I have received your email.
Thank you.

Ruby (Newman) Crandall
Creative Services Supervisor

Plainsman/Payday/Print Shop
49 3rd Street SE
Huron, SD 57350

605-353-7412

1-800-859-3045, ext. 412

fax: 605-353-7422

rnewman.plainsman@midconetwork.com

On May 22, 2013, at 8:08 AM, Schlaak, Karen wrote:

Attached is a Notice of Application No. 7794-3, Jerry Mehling, 20631 372nd Ave, Wessington SD 57381 (ph 605 458-2594) to be published on May 29, 2013. Mr. Mehling has been notified to authorize publication and arrange for payment.

Karen Schlaak

Water Rights Program

Phone: 605 773-3352

Fax: 605 773-4068

<7794-3public.short.docx>



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

May 21, 2013

Miller Press
PO Box 196
Miller SD 57362

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7794-3 to Appropriate Water. Please publish the notice once on May 29, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Jerry Mehling, 20631 372nd Ave, Wessington SD 57381 (Ph # 605-458-2594).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
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 RIGHT AWAY.

May 21, 2013

Jerry Mehling
20631 372nd Ave
Wessington SD 57381

Dear Mr. Mehling:

Water Permit Application No. 7794-3 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 Miller Press printed at Miller SD (Ph # 605-853-3575) and the Plainsman printed at Huron SD (Ph # 605-352-6401). 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.

Instruction to Newspaper - Publish the Notice on May 29, 2013. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7794-3 to Appropriate Water

Notice is given that Jerry Mehling, 20631 372nd Ave, Wessington SD 57381 has filed an application for a water permit to appropriate 2.89 cubic feet of water per second from one well to be completed into the Bad-Cheyenne Aquifer (147 feet deep) located in the center of the NE 1/4 Section 26 for irrigation of 300 acres located in the NE 1/4 Section 26 and the NW 1/4 Section 25; all in T111N-R66W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7794-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 10, 2013.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of _____.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

JUL 05 2013

Jerry Mehling
20631 372nd Ave
Wessington SD 57381

Dear Mr. Mehling:

Enclosed is Water Permit No. 7794-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

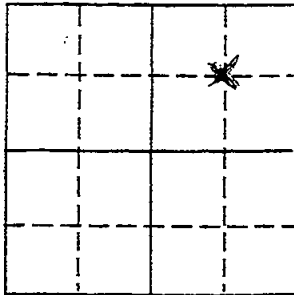
11-02

Location 1/4 NE 1/4 Sec 26 Twp 111 Rg 66

County

Hand

North



Please mark well location with an "X"

Well Completion Date

4-11-14

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

? NONE ft. from _____ (Identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse Circulation

CASING DATA:

☒ Steel S.S. ☒ Plastic ☐ OtherIf other describe Stainless Steel

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR 26</u> LB/FT	<u>16</u> IN	<u>0</u> FT	<u>107</u> FT	<u>26"</u> IN
<u>S.S.</u> LB/FT	<u>16</u> IN	<u>107</u> FT	<u>137</u> FT	<u>26</u> IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>#20</u>	<u>20</u>	Lb/gal	<u>0</u> Ft	<u>100</u> Ft
<u>EQUIA Plug</u>		Lb/gal	Ft	Ft

Describe grouting procedure

Tremie Pipe

SCREEN:

☐ Perforated pipe ☒ ManufacturedDiameter 16 Inches Length 30 FeetMaterial Stainless SteelSlot Size .050 Set From 107 Feet to 137 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No

If so, what material?

EQUIA Plug

Describe packer(s) and location

above Screen

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How?Chlorinated

Lab sample sent to for water quality analysis

☐ No, Why Not?Well Owner: Jerry Mehling

Business Name:

Address: 20631 372nd Ave.City, State, Zip: Wessington SD 57381

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Yellow Clay</u>	<u>0</u>	<u>30</u>
<u>Blue Clay</u>	<u>50</u>	<u>70</u>
<u>Sand</u>	<u>70</u>	<u>83</u>
<u>Blue Clay</u>	<u>83</u>	<u>105</u>
<u>105 Sand</u>	<u>105</u>	<u>115</u>
<u>Coarse Sand</u>		
<u>+ Rocks</u>	<u>115</u>	<u>137</u>

STATIC WATER LEVEL

35 FEET

If flowing: closed in pressure

PSI

GPM flow

through

Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: Air☐ Bailed☐ Other

Pumping Level Below Land Surface

35 Ft. After 2 Hrs. pumped 800 GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

REMARKS

This well was drilled under license # 722

And this report is true and accurate.

Drilling firm: Stretch's Well Service

Signature of License Representative:

Tom Rathjen

Signature of Well Owner or Equitable Property Holder:

Jerry MehlingDate: 4-29-14

RECEIVED

JUL - 3 2014

WATER RIGHTS
PROGRAM

7794-3
RECEIVED
AUG 12 2014
WATER RIGHTS
PROGRAM

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

Date

8/7/14

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

FROM:

Jerry Mehling
(name)20631 372nd Ave
(address)Wessington, SD 57381
(city, state, zip)605-458-2594
(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. 7794-3 states that the water use system is to be constructed by

6/10/18
(date)

, and water is to be put to beneficial use by

6/10/22
(date)

The water use system was completed on

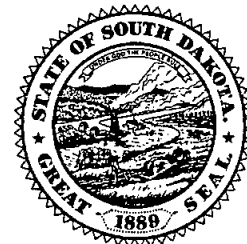
7/1/14
(date)

Applying the water to beneficial use was completed on

8/6/14
(date)

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

Jerry Mehling
(signature)





**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov



August 12, 2014

7794-3

Jerry Mehling
20631 372nd Ave
Wessington SD 57381

Dear Mr. Mehling:

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

Water Permit No. 7794-3
James River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 3, 2015, made a thorough examination of the water use system constructed by Jerry Mehling of 20631 372nd Ave., Wessington, SD 57381 holder of Permit No. 7794-3, bearing the priority of March 18, 2013 authorizing the diversion of 2.89 cu. ft. per second of water from the Bad-Cheyenne Aquifer for Irrigation purposes, in Hand County.

Inspection contact & relationship
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Stretch's Well Service
- 2) No. of Wells 1
- 3) Depth(s) 137 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 inches
- 2) Length 107 feet
- 3) Type Stainless Steel

Screen:

- 1) Type Stainless Steel
- 2) Length 30 feet
- 3) Static water level 35 feet

Pump:

- 1) Make Grundfos
- 2) Model 800S600-3A
- 3) Size 60 hp
- 4) Capacity 800 GPM

B. Works used to apply water to beneficial use:**Center pivot:**

- 1) Make (2) Valley
- 2) Number of towers 7
- 3) End gun Y
- 4) High or low pressure Low

Chemigation Equipment:

- 1) Does chemigate N

C. Compliance with Permit Requirements:

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

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

Well: Approximately 1,280 feet south and 1,360 feet west of the NE corner of Section 26-T111N-R66W (N 44.39600, W -98.72674) (NW ¼ NE ¼)

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 use. Water has been put to beneficial use to the maximum extent as follows:

Section 25-T111N-R66W

NE ¼ NW ¼ - 33.5 acres

NW ¼ NW ¼ - 33.5 acres

SE ¼ NW ¼ - 33.5 acres

SW ¼ NW ¼ - 33.5 acres

Section 26-T111N-R66W

NE ¼ NE ¼ - 33.5 acres

NW ¼ NE ¼ - 33.5 acres

SE ¼ NE ¼ - 33.5 acres

SW ¼ NE ¼ - 33.5 acres

comprising a total of 268 acres of land and the license should be issued for 1.78 cfs.

All structures, wells and lands on map Y

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

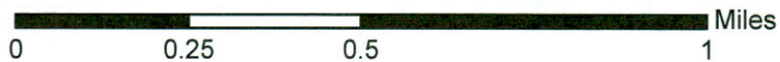
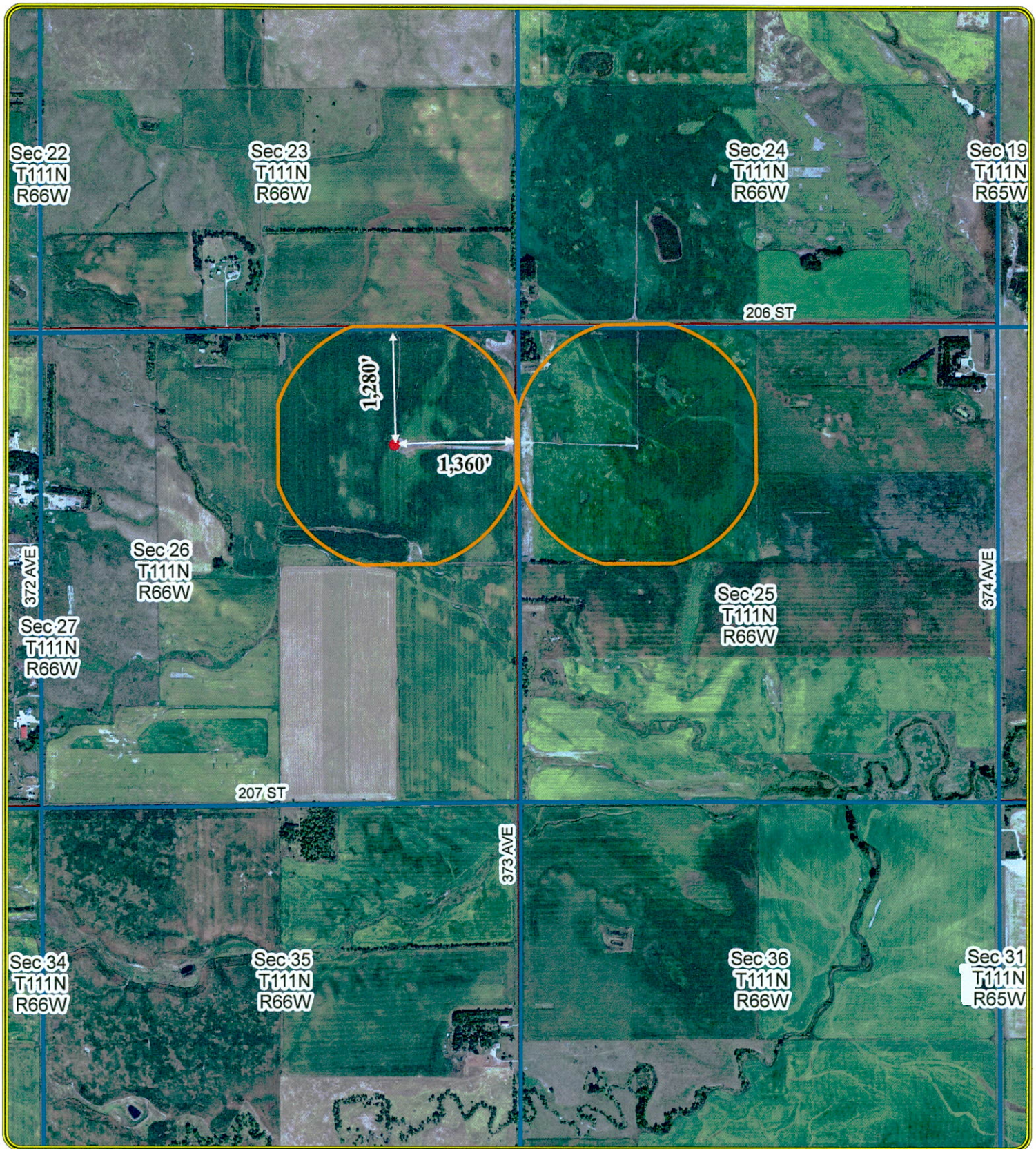


Mike DeFea

Natural Resources Engineer II
DENR, Water Rights Program

Date report completed: September 9, 2015

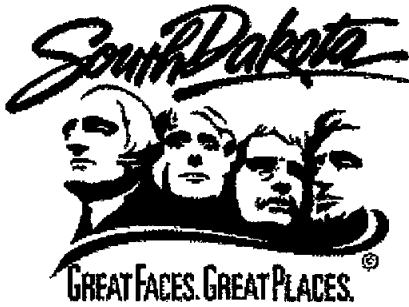
Jerry Mehling
Water Permit No. 7794-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
September 9, 2015





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

SEP 29 2015

7794-3

Jerry Mehling
20631 372nd Ave
Wessington SD 57381

Dear Mr. Mehling:

Enclosed is Water License No. 7794-3. 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 the owner of an existing well, such as the well authorized by Water Right No. 7794-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7794-3**

(1) Jerry Mehling, 20631 372nd Ave., Wessington SD 57381 made Application No. 7794-3, March 18, 2013 for a water permit to divert 2.89 cubic feet of water per second from ground water – one well (Bad-Cheyenne Aquifer), Hand County, South Dakota for irrigation purposes. Permit No. 7794-3, with a priority date of March 18, 2013 was approved June 10, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 10, 2018 and for the application to beneficial use of said water on or before June 10, 2022.

The Permit holder submitted a *"Notice of Completion of Works and Application of Water to Beneficial Use"* on August 12, 2014. The *"Notice"* stated the water use system was completed on July 1, 2014 and the water placed to beneficial use on August 6, 2014.

(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 1.78 cubic feet of water per second for beneficial use.

The location of the diversion point is approximately 1,280 feet south and 1,360 feet west of the NE corner of Section 26-T111N-R66W (NW ¼ NE ¼) (N 44.39600, W -98.72674).

(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 25, T111N, R66W		Section 26, T111N, R66W	
NE ¼ NW ¼	33.5 acres	NE ¼ NE ¼	33.5 acres
NW ¼ NW ¼	33.5 acres	NW ¼ NE ¼	33.5 acres
SE ¼ NW ¼	33.5 acres	SE ¼ NE ¼	33.5 acres
SW ¼ NW ¼	33.5 acres	SW ¼ NE ¼	33.5 acres

Total 268 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Jerry Mehling, 20631 372nd Ave., Wessington SD 57381 the holder and/or owner of Water Right No. 7794-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water – one well (Bad-Cheyenne Aquifer) with a priority date of March 18, 2013 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. 7794-3 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

continued

- The well authorized by Permit No. 7794-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the 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. *The well was drilled by Stretch's Well Service in April, 2014. A copy of the well log is on file with the Water Rights Program.*
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

SEP 29 2015

date

