

WATER PERMIT NO. 6761A-3

Name of Applicant: Chad Fritz

Address: 17017 416th Ave, Raymond SD 57258 Phone: 605 881-1841

Amount of Water Claimed: 2.2 cfs Total Acres: 160

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Clark

Type of Waste Disposal System:

Location: 1 mile east of Raymond

PRIORITY Date Received: 8-20-12 Application/License Fee: \$ 100

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

Remarks:

Diversion Point: center NE 1/4 Sec 27-T117N-
R59W

Land to be Irrigated: NE 1/4 Sec 27-T117N-R59W

Depth of Well: 132 feet deep

Well Driller: Manikowski Drilling

Remarks:

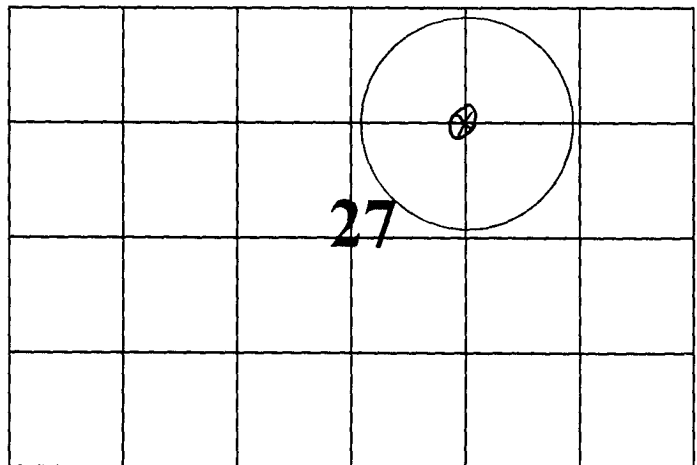
Type of Map: aerial

Prepared by: Jessica M, Clark Co NRCS

Reviewed and the Number Assigned on: 8-27-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>6761A-3</u> (office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u> <u>605-532-364</u>
	Newspaper <u>Clark Co. Courier 1191st Ave E Clark 57225</u>
	<u>Public Opinion P.O. Box 10 Watertown 57201-605-886-1808</u>

RECEIVED

AUG 20 2012

WATER RIGHTS
PROGRAM

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.)
Reinstate water permit 6761-3

1. Name of Applicant Chad Fritz Phone 605-881-1841
(check one) Owner ☒ Tenant/lessee
Mailing Address 17017 416th Ave Raymond SD 57258
(Address) (City) (State) (Zip Code)

2. Amount of water claimed 0.78 *CFS or 350 **GPM ***AF Total Acreage 120
(*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 (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County CLARK
well approx center NE1/4 Sec 27 117N 59W

5. County or counties where water will be used CLARK

6. Annual period during which water is to be used April - Oct 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
<u>NE1/4 NE1/4 27-117-59</u>	<u>30</u>		
<u>NW1/4 NE1/4 27-117-59</u>	<u>30</u>		
<u>SE1/4 NE1/4 27-117-59</u>	<u>30</u>		
<u>SW1/4 NE1/4 27-117-59</u>	<u>30</u>		

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

REINSTATE Permit No. 6761-3 to develop center pivot irrigation

STATE OF SOUTH DAKOTA)
County of Clark) SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Also, attach map and any other technical information. (see instructions)

I, Chad Fritz, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Chad Fritz

Subscribed and sworn to before me this 17th day of August 2012

Melissa F. [Signature]
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6761A-3**

Date of first receipt of application August 20, 2012.

Date of return to applicant for corrections, amendments or changes August 21, 2012.

Date of receipt of corrected application August 27, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6761A-3 to Chad Fritz, 17017 416th Ave, Raymond SD 57258 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. 6761A-3 reinstates Permit No. 6761-3. Permit No. 6761-3 appropriates 0.78 cubic feet of water per second from one well to be completed into the Altamont Aquifer (132 feet deep) located in the approximate center of the NE 1/4 Section 27 to irrigate 120 acres located in the NE 1/4 Section 27; all in T117N-R59W. The permit was approved February 12, 2007, and the project was to be completed February 12, 2012, with water being put to beneficial use by February 12, 2016. Permit No. 6761A-3 reinstates Water Permit No. 6761-3 since the project has not been completed.
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 August 20, 2012.
4. The date of approval of Permit No. 6761A-3 is November 12, 2012.
5. One-fifth of the construction is to be completed on or before May 12, 2015.
6. All construction is to be completed on or before November 12, 2017.
7. Water is to be put to beneficial use on or before November 12, 2021.
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 approved under this Permit will be located near a fen. The well owner under this Permit shall control his withdrawals so that his withdrawals do not cause significant reduction in the flow of water of the fen. By determining that the permit holder is to control his withdrawals so that they do not cause a significant reduction in the flow of water of the fen, the Board holds that such reduction in pumping would be merited upon a showing by the complainant that the reduction in flows were actually caused by the pumping.

(continued)

3. The location of the fen which is protected by paragraph 2 above and the spring are located in

Kopriva spring/dugout – N 44° 55.852' W-97° 51.852'

Weber "fen" – N 44° 55.526' W-97° 51.925'

4. The well authorized by Permit No. 6761A-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.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.
6. Water Permit No. 6761A-3 cancels Water Permit No. 6761-3.

WATER MANAGEMENT BOARD

By: Garland Erbele

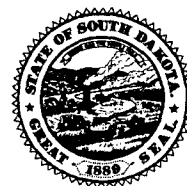
Garland Erbele, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

DEC 05 2012

date



(type or print in ink)

*Please see
attached well log*

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property _____ On property owned by others _____

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 _____

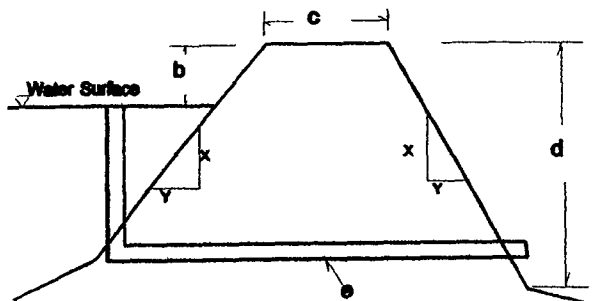
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

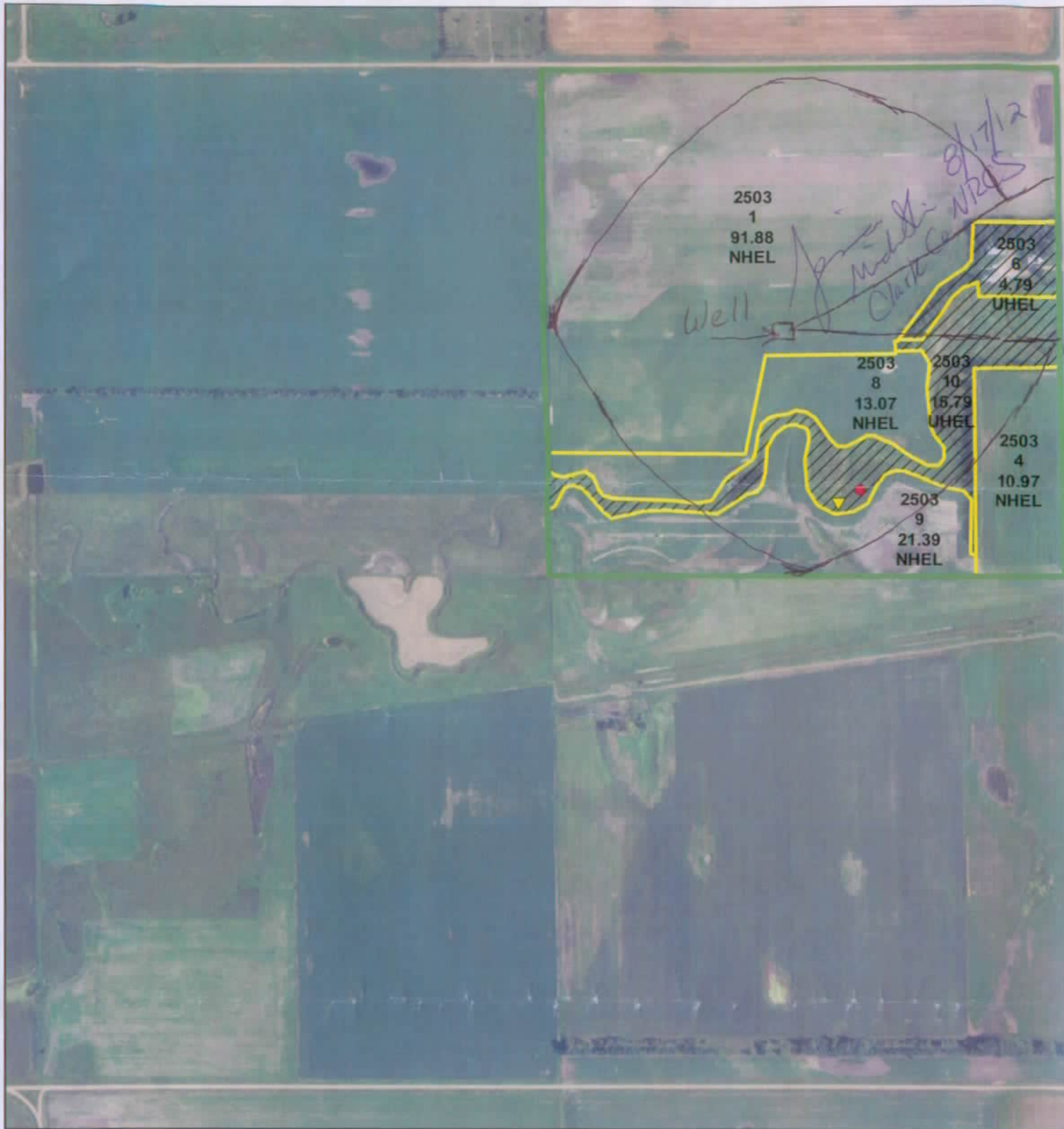
4. Water Storage Dams

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 _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



United States Department of Agriculture
Farm Service Agency

Clark County, SD

1:8,333

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PLSS: 27_117_59
Farm: 4314



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.

Wetland Determination Identifiers

- Restricted Use
- ▼ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Common Land Units

Non Cropland

2010 Ortho-Photography - Not to Scale

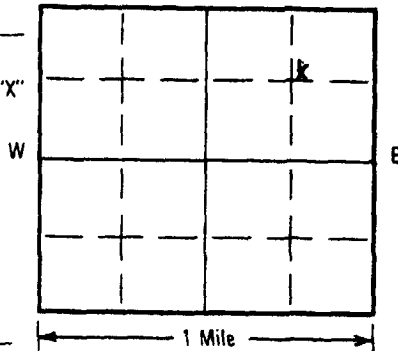
February 18, 2011

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 27 Twp 117 Rg 59
County Clark

Please mark well location with an "X"



Well Completion Date

12-6-05

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1500 ft. from septic (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forward RotaryCASING DATA: ☐ Steel ☐ Plastic ☐ OtherIf other describe None Installed

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
____ LB/FT	____ IN	____ FT	____ FT	____ IN
____ LB/FT	____ IN	____ FT	____ FT	____ IN
____ LB/FT	____ IN	____ FT	____ FT	____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Grout</u>	<u>4</u>	____ lb./gal	<u>0</u> ft	<u>130</u> ft
		____ lb./gal	____ ft	____ ft

Describe grouting procedure Grout pumped from bottom of hole to top with tremie lineSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

____ YES, How: _____

____ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Chad Fritz

Business Name: _____

Address: Raymond, SD 57258

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top soil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>42</u>
<u>oxidized sand</u>	<u>42</u>	<u>70</u>
<u>Blue clay</u>	<u>70</u>	<u>100</u>
<u>Medium to Coarse sand</u>	<u>100</u>	<u>130</u>
<u>Blue clay</u>	<u>130</u>	<u>132</u>

STATIC WATER LEVEL _____ Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

____ ft. After _____ Hrs. pumped _____ GPM

____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

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This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Maniowski Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/27, 20 12

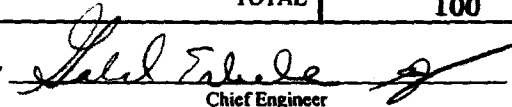
RECEIVED OF Chad Fritz 17017 416th Ave Raymond SD 57258

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

Fee for Application for Permit No. <u>6761-3 (re-instatement)</u> to Appropriate Water, to construct and to put water to beneficial use	100	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. _____		
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	100 00

No. **05545**

By


Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

August 21, 2012

Chad Fritz
17017 416th Ave
Raymond SD 57258

Dear Mr. Fritz:

Thank you for submitting the *Application for a Permit to Appropriate Water* for reinstatement of Water Permit No. 6761-3.

Enclosed is your check for \$1,050.00. The application filing fee for reinstatement is \$100.00. Please submit this amount.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

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

enclosure

6761A-3

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Water Permit Application No. 6761A-3, Chad Fritz

ADDRESS: 17017 416th Avenue, Raymond SD COUNTY: Clark County

DATE: October 11, 2012 TELEPHONE: 605 881-1841

RE: Reinstatement

I contacted Mr. Fritz regarding his application to reinstate Water Permit No. 6761-3. The permit appropriated 0.78 cfs (350 gpm) for irrigation of 120 acres in the NE ¼ Section 27, T117N, R59W. However, the application for reinstatement listed an appropriation of 2.2 cfs (900 gpm) for irrigation of 160 acres in the NE 1/4.

Mr. Fritz stated that he would not be irrigating more than the 120 acres originally authorized. However, he is looking to purchase a used pivot from his dad that would require greater than 350 gpm to operate. But that decision has not been made. He originally planned on a specialty pivot when he obtained the permit that required 350 gpm. By changing to a different type of pivot he said he may be putting a greater diversion rate of water when actually operating but ultimately would not apply a greater volume of water than would be required to optimize crop production on 120 acres. I explained that it would be considered an increase in diversion rate that would be considered "new".

Mr. Fritze decided to continue with the reinstatement of Permit No. 6761-3 for the 0.78 cfs and 120 acres and asked that I amend the Form 2 accordingly. He stated that he wants to get the permit reinstated so that he can get the well drilled to determine what it will produce, get some dirt work done and set the pivot up. He realizes that if the diversion rate will be greater than 350 gpm he will need to apply for whatever diversion rate authority is greater than 350 gpm. He asked that I send him forms, which I did.

NAME: Eric Brundage



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

October 12, 2012

Chad Fritz
17917 416th Avenue
Raymond SD 57258

Dear Mr. Fritz:

As per our phone conversation and your direction, the application for reinstatement of Water Permit No. 6761-3 has been amended to be for the 350 gallons per minute (gpm) from one well to irrigate 120 acres in the NE ¼ Section 27, T117N, R59W.

We also discussed that you may file a new application for diversion rate authority in excess of the 350 gpm to be authorized by reinstated Permit No. 6761-3. I have drafted a partially completed application. Please review and complete the 1) increase in diversion rate authority above 350 gpm under Item No. 2, 2) the name and address of owner if this is ground you lease, and 3) sign the application at the bottom. The minimum application filing for a "new" permit is \$500 so that will need to be submitted with the application.

Please feel free to contact me 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**

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. 6761A-3, Chad Fritz**

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. 6761A-3, Chad Fritz, 17017 416th Avenue, Raymond SD 57258.

The Chief Engineer is recommending REINSTATEMENT of Application No. 6761A-3 because there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 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 approved under this Permit will be located near a fen. The well owner under this Permit shall control his withdrawals so that his withdrawals do not cause significant reduction in the flow of water of the fen. By determining that the permit holder is to control his withdrawals so that they do not cause a significant reduction in the flow of water of the fen, the Board holds that such reduction in pumping would be merited upon a showing by the complainant that the reduction in flows were actually caused by the pumping.
3. The location of the fen which is protected by paragraph 2 above and the spring are located in

Kopriva spring/dugout – N 44° 55.852' W-97° 51.852'
Weber "fen" – N 44° 55.526' W-97° 51.925'
4. The well authorized by Permit No. 6761A-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.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.
6. Water Permit No. 6761A-3 cancels Water Permit No. 6761-3.

See report on application for additional information.

Garland Erbele, Chief Engineer
October 22, 2012

NOTE: If the well is developed to produce a diversion rate greater than 350 gallons per minute or irrigate more than 120 acres, a new water permit will need to be obtained for the incremental increase in diversion rate or acres.

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 6761A-3
CHAD FRITZ
OCTOBER 8, 2012

Water Permit Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3 which appropriates 240 acre-feet of water annually (ac-ft/yr) at a maximum diversion rate of 0.78 cubic feet of water per second from the Altamont aquifer. Water Permit No. 6761-3 authorized diversions from one proposed well approximately 132 feet deep to be located in the approximate center of the NE¼ Section 27, T117N-R59W, to irrigate 120 acres located in the NE¼ Section 27, T117N-R59W. Water Permit No. 6761-3 was approved February 12, 2007, and the project was to be completed February 12, 2012, and water was to be placed to beneficial use by February 12, 2016. Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3 since the project has not been completed. Approval of Water Permit Application No. 6761A-3 will cancel Water Permit No. 6761-3.

Water Permit Application No. 6761A-3 to reinstate Water Permit No. 6761-3 is made pursuant to South Dakota Codified Law (SDCL) 46-2A-8.1 which allows the Water Management Board to reinstate water permits with a priority dates after March 31, 1977, if unappropriated water is available. The priority date for Water Permit No. 6761-3 is October 12, 2006 and the priority date for Water Permit Application No. 6761A-3 is August 20, 2012.

AQUIFER: Altamont aquifer (A)

GEOLOGY AND AQUIFER CHARACTERISTICS:

Hamilton (1986) described six major glacial aquifers in Clark County (i.e. the Prairie Coteau 1, 2 and 3, and the Altamont 1, 2 and 3 aquifers). The test hole log submitted with Water Permit Application No. 6761-3 identified "Medium To Coarse Sand" from 100-130 feet below grade which corresponds with the "Altamont aquifer 2" as defined by Hamilton (1986). The Altamont aquifer 2 is a buried glacial outwash consisting of unconsolidated fine to very coarse sand and gravel and sandy silt. The aquifer underlies an estimated 630 square miles and contains an estimated 3.23 million acre-feet of water in storage in Clark County (Hamilton, 1986). Wells completed into the Altamont aquifer 2 yield up to 2,000 gallons per minute and the aquifer transmissivity was estimated from two aquifer tests to be 28,000 gallons per day per foot and 15,000 gallons per day per foot respectively (Hamilton, 1986). The Altamont aquifer 2 is hydraulically connected with the Altamont aquifer 1 near the center of Clark County, and the Altamont aquifer 2 and Altamont aquifer 3 are hydraulically connected near the western part of the county (Hamilton, 1986). In the past, the DENR-Water Rights Program has not differentiated between units and considered all of the deeper outwash deposits in Clark County the Altamont aquifer. When considering the Altamont a single aquifer, it underlies approximately 537,200 acres of Clark County and contains an estimated 3,326,400 acre-feet of recoverable water in storage in the county (Hedges and others, 1982). The Altamont is generally under confined conditions and in this area groundwater movement is toward the southwest (Hamilton, 1986).

WATER AVAILABILITY:

This application proposes to appropriate 240 acre-feet annually from the Altamont aquifer, although the actual water use if this application is approved will be less than 240 acre-feet/year. The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1 which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.”

Recharge versus Discharge:**Recharge:**

Recharge to the Altamont aquifer is by infiltration of precipitation and lateral inflow. The average annual recharge from precipitation to the portion of the Altamont described as Altamont aquifer 2 alone is estimated to be 54,000 acre-feet (Hamilton, 1986).

Discharge:

Discharge from the Altamont aquifer from Clark County is by well withdrawals and by groundwater underflow out of the county. A considerable quantity of water “probably moves westward annually from the county where it discharges by evapotranspiration and streamflow in large areas of Spink County” (Hamilton, 1986).

There are a number of completion reports on file with the DENR-Water Rights Program for domestic wells completed into the Altamont aquifer in this area (Water Rights, 2012c). In addition, there are 47 water rights/permits in Clark County appropriating water from the aquifer. Appropriative rights are for commercial use (including three large confinement operations and one other), industrial use (two water rights), municipal use (two for Garden City and one for Clark (Clark is now on rural water (Buhler, 2012))), and for irrigation use.

The principal use of the Altamont aquifer is for irrigation. A summary of irrigation from the Altamont aquifer from Clark County is shown in table 1.

YEAR	NO. PMTS	APPRPRIATIONS (ac-ft/yr)	PUMPAGE (ac-ft/yr)
2011	36	17299.8	981.08
2010	36	17299.8	887.92
2009	36	17299.8	735.49
2008	36	17075.5	1660.16
2007	33	16299.5	2143.63
2006	31	14899.5	3336.34
2005	30	14547.5	2190.13
2004	30	14547.5	1766.3
2003	26	13402.3	2286.11
2002	25	13102.3	2695.04
2001	25	13102.3	1615.69
2000	26	13603.3	1995.52
1999	24	12691.3	1170.95
1998	23	12637.3	826.28
1997	25	12637.3	357
1996	25	12637.3	1320.61
1995	25	12429.3	260.8
1994	25	12429.3	579.68
1993	25	14283.3	42
1992	24	13963.3	585
1991	25	16516.3	1622.2
1990	24	18851.5	2023
1989	24	18852.3	3321.8
1988	24	18852.3	3123.6
1987	25	19401.6	2463
1986	27	19754.3	1436
1985	27	19823.5	1917
1984	27	19823.5	2470
1983	26	20210.3	2665.18
1982	24	19488.5	1226.1
1981	27	22651	2689.99
1980	25	21001	2329.09
1979	24	20527	1472.71
<i>Maximum</i>		<i>22651</i>	<i>3336.34</i>
<i>Minimum</i>		<i>12429.3</i>	<i>42</i>
<i>Average</i>		<i>16422.4</i>	<i>1702.9</i>

Table 1. Irrigation use from the Altamont aquifer from Clark County (Water Rights, 2012b)

Observation Well Data:

The analysis of the DENR-Water Rights Program observation well data provides a qualitative means of assessing the aquifer and provides the best information reasonably available to evaluate the hydrologic budget for the Altamont aquifer. In addition, 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 to the aquifer.”

The DENR-Water Rights Program monitors a total of 31 observation wells completed into the Altamont aquifer with 22 of these wells located in Clark County (Water Rights, 2012a). Hydrographs for two nearby observation wells completed into the Altamont aquifer are shown in figures 1-2.

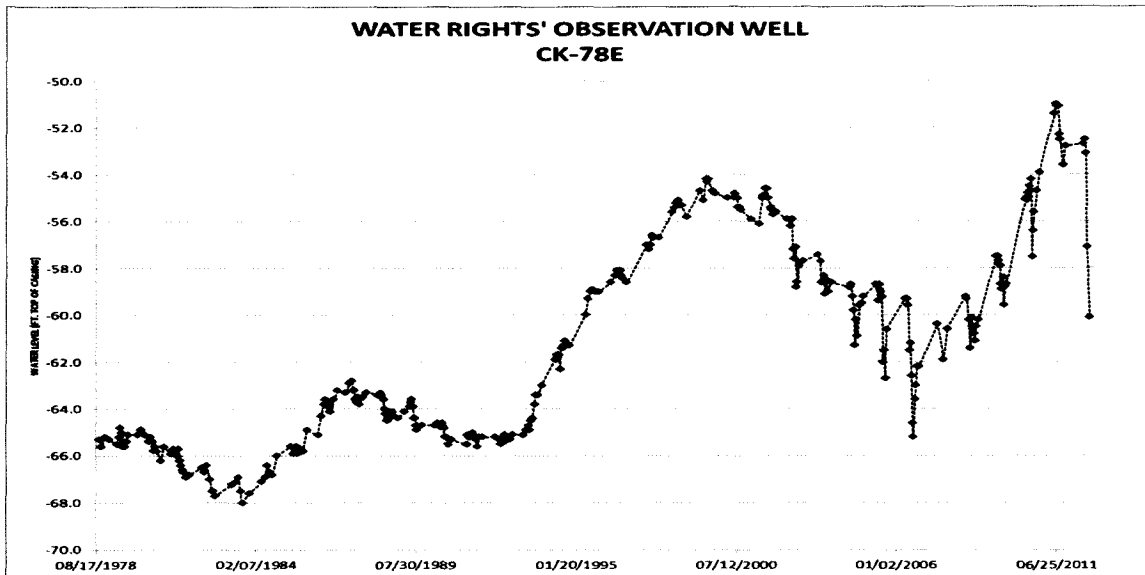


Figure 1. Hydrograph for an Altamont aquifer observation well located approximately one-half mile northeast of the well site proposed by Application No. 6761A-3

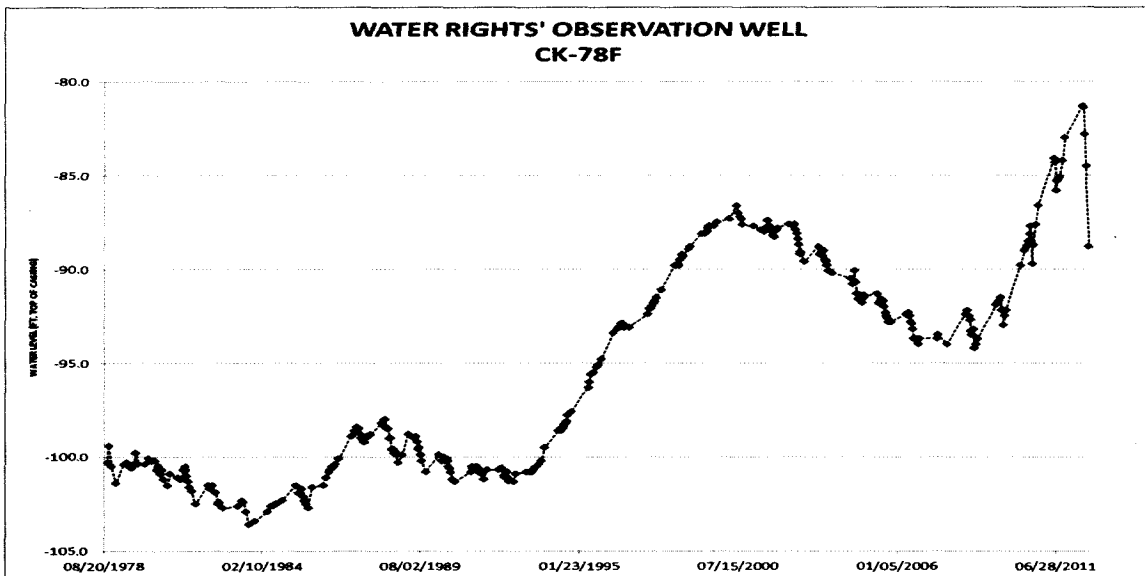


Figure 2. Hydrograph for an Altamont aquifer observation well located approximately three miles northeast of the well site proposed by Application No. 6761A-3

The hydrographs show that although the potentiometric surface (head pressure) in the Altamont aquifer varies with the climate, the amount of water in aquifer was recently greater now than it has been over the entire period of record. Most importantly, the observation well data shows that at the current level of development, climatic conditions greatly mask the temporal effects of well

withdrawals. Therefore, recharge to and natural discharge from the Altamont aquifer significantly exceeds pumping. Recognizing that natural discharge from the aquifer can be captured for pumping. The hydrographs document that there is unappropriated water available from the aquifer to support this appropriation.

CONCLUSIONS:

1. Water Permit Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3.
2. SDCL 46-2A-8.1 allows the Water Management Board to reinstate water permits if unappropriated water is available.
3. There is a reasonable probability that unappropriated water is available from the Altamont aquifer to supply this appropriation.



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

Buhler, K.A., Report to the Chief Engineer on Water Permit Application No. 7345-3, Jack Schmidt:
SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD

Hamilton, L.J., 1986, Geology and Water Resources of Clark County, South Dakota; Part II:
Water Resources: South Dakota Geological Survey Bulletin 29, 62 p

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

Water Rights, 2012a, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2012b, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2012c, Well Completion Report Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Notice is given that Chad Fritz, 17017 416th Ave, Raymond SD 57258 has filed an application for a water permit to reinstate Permit No. 6761-3. Permit No. 6761-3 appropriates 0.78 cubic feet of water per second from one well to be completed into the Altamont Aquifer (132 feet deep) located in the approximate center of the NE 1/4 Section 27 to irrigate 120 acres located in the NE 1/4 Section 27; all in T117N-R59W. The permit was approved February 12, 2007, and the project was to be completed February 12, 2012, with water being put to beneficial use by February 12, 2016. Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3 since the project has not been completed. Approval of No. 6761A-3 will cancel No. 6761-3.

Application No. 6761A-3 to reinstate permit No. 6761-3 is made pursuant to SDCL 46-2A-8.1 which allows for reinstatement with a new priority date, if unappropriated water is available when construction, necessary to put water to beneficial use, is not completed within five years of approval of the permit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6761A-3 to reinstate Permit No. 6761-3 because unappropriated water is available. 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

RECEIVED

Affidavit of Publication NOV - 2 2012

State of South Dakota

§

WATER RIGHTS
PROGRAM

County of Clark

William J. Krikac of said county, being first duly sworn, on oath says that he is the publisher of the *Clark County Courier*, a weekly newspaper printed and published in Clark in said County of Clark and has a full and personal knowledge of all the facts therein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly, and has been published within said County for fifty-two successive weeks next prior to the publication of the notice herein mentioned, and was and is printed wholly or in part in an office maintained at said place of publication; that the

CHAD FRITZ

a printed copy of which taken from the paper in which same was published, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once in each week for

ONE

successive weeks, on the day of each week on which said newspaper was regularly published, to wit:

OCTOBER 31, 2012

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

30.45

William J. Krikac

Subscribed and sworn to before me this

1ST DAY OF NOVEMBER, 2012

Anna Helke

Notary Public
Clark County, South Dakota

My Commission expires: 06/04/2013

Engineer's recommendation. The Chief Engineer's address is "Water Right Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 12, 2012.

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 \$30.45.

10-31-1t

RECEIVED

NOV - 2 2012

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Codington) SS

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:

Oct 31st, 2012

Cost of Printing 62.52

Monica K. Saathoff
(Signature)

Bookeeper

(Title)

October 31st, 2012

(Date Signed)

DEPARTMENT OF ENVIRON- MENT AND NATURAL RESOURCES

NOTICE OF APPLICATION NO. 6761A-3 to Reinstate Water Permit No. 6761-3

Notice is given that Chad Fritz, 17017 416th Ave, Raymond SD 57258 has filed an application for a water permit to reinstate Permit No. 6761-3. Permit No. 6761-3 appropriates 0.78 cubic feet of water per second from one well to be completed into the Altamont Aquifer (132 feet deep) located in the approximate center of the NE 1/4 Section 27 to irrigate 120 acres located in the NE 1/4 Section 27; all in T117N-R59W. The permit was approved February 12, 2007, and the project was to be completed February 12, 2012, with water being put to beneficial use by February 12, 2016. Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3 since the project has not been completed. Approval of No. 6761A-3 will cancel No. 6761-3.

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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 November 12, 2012.

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 approximate cost of \$64.00. (October 31, 2012)

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

October 22, 2012

Clark County Courier
119 1st Ave E
Clark SD 57225

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6761A-3 to Appropriate Water. Please publish the notice once on October 31, 2012. 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 Chad Fritz, 17017 416th Ave., Raymond SD 57258. (Ph # 605-881-1841).

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

October 22, 2012

Public Opinion
PO Box 10
Watertown SD 57201

ATTENTION: Legal Public Notice

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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 DATE, CONTACT
THE NEWSPAPER(S) RIGHT AWAY.

October 22, 2012

Chad Fritz
17017 416th Ave
Raymond SD 57258

Dear Mr. Fritz:

Water Permit Application No. 6761A-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 Clark County Courier printed at Clark SD (Ph # 605-532-3654) 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.

Instruction to Newspaper - Publish the Notice on October 31, 2012. 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. 6761A-3 to Reinstate Water Permit No. 6761-3

Notice is given that Chad Fritz, 17017 416th Ave, Raymond SD 57258 has filed an application for a water permit to reinstate Permit No. 6761-3. Permit No. 6761-3 appropriates 0.78 cubic feet of water per second from one well to be completed into the Altamont Aquifer (132 feet deep) located in the approximate center of the NE ¼ Section 27 to irrigate 120 acres located in the NE ¼ Section 27; all in T117N-R59W. The permit was approved February 12, 2007, and the project was to be completed February 12, 2012, with water being put to beneficial use by February 12, 2016. Application No. 6761A-3 proposes to reinstate Water Permit No. 6761-3 since the project has not been completed. Approval of No. 6761A-3 will cancel No. 6761-3.

Application No. 6761A-3 to reinstate Permit No. 6761-3 is made pursuant to SDCL 46-2A-8.1 which allows for reinstatement with a new priority date, if unappropriated water is available when construction, necessary to put water to beneficial use, is not completed within five years of approval of the permit.

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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

DEC 05 2012

Chad Fritz
17017 416th Ave
Raymond SD 57258

Dear Mr. Fritz:

Enclosed is Water Permit No. 6761A-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,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures