

WATER PERMIT NO. 7462-3

Name of Applicant: **Chad Fritz**

Address: **17017 416th Ave, Raymond SD 57258**

Phone: **605 881-1841**

Amount of Water Claimed: **1.1²³ additional cfs**

Total Acres: **no additional**

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

Water to be used for: **irrigation**

County: **Clark**

Type of Waste Disposal System:

Location: **1 mile east of Raymond**

PRIORITY

Date Received: **10-16-2012**

Application/License Fee: **\$ 500**

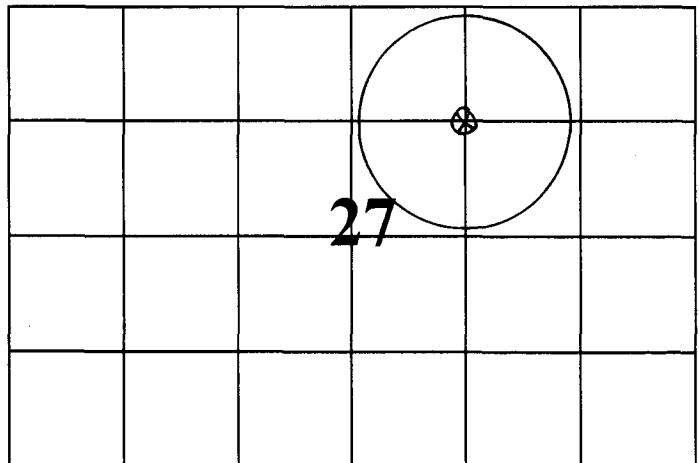
Corrected Application Received:

Period of Annual Use: **April 1 – October 31**

Remarks: **Increases the diversion rate authorized by Permit No. 6761A-3**

Diversion Point: **center of 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 Well Drilling**

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **10-16-12**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

RECEIVED

OCT 16 2012

WATER RIGHTS
PROGRAM

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7462-3</u> (office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u> <u>605-532-3654</u>
	Newspaper <u>Clark Co Courier 1191st Ave E Clark 57225</u> <u>57201</u>
	<u>Public Opinion PO Box 10 Watutun 605-886-6901</u>

Application For Permit To Appropriate Water For Irrigation

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

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

additional diversion rate authority without an increase in irrigated acres to reinstated Water Permit No. 6761A-3

1. Name to Appear on Irrigation Permit Chad Fritz

(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent Chad Fritz 17017 416th Ave Raymond SD
(name and complete address if different than above name) 57258

Mailing Address 17017 416th Avenue Raymond SD 57258
(Address) (City) (State) (Zip Code)

Home Phone 881-1841 Cell _____ Email _____

2. Amount of water claimed 1.23 *CFS or 200 GPM 550 gpm add'l ***AF Total Acreage no add'l
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Altamont Aquifer - well authorized by Water Permit No. 6761A-34. Location of point of diversion approximate center of NE 1/4 Section 27, T117N, R59W

(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)

County Clark5. County or counties where water will be used Clark6. 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
same as Water Permit No. 6761A-3	120		
<u>NE 1/4 Sec 27-T117N-R59W</u>			

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

Increase diversion rate authority. Water Permit No. 6761A-3 authorized a diversion rate of 350 gpm. I am looking install a standard sized pivot that will require greater diversion rate that originally anticipated. The actual volume of water will not change as I will not put on more water than necessary to optimize crop production which may vary each year due to climatic conditions. The request is greater than the statutory limit authorized for irrigation of 120 acre (770 gpm) in that the pivot I am putting up requires a greater amount to operate.

I, [Signature], 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. 7462-3

Date of first receipt of application October 16, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7462-3 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. 7462-3 authorizes an increase in the diversion rate authorized by Permit No. 6761A-3. Permit No. 6761A-3 appropriates 0.78 cubic feet of water per second (cfs) 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. This permit authorizes an additional 1.23 cfs from the existing well. This permit and Water Permit No. 6761A-3 authorize a total diversion rate of 2.00 cfs (900 gallons per minute) for irrigation of 120 acres.
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 October 16, 2012.
4. The date of approval of Permit No. 7462-3 is January 14, 2013.
5. One-fifth of the construction is to be completed on or before July 14, 2015.
6. All construction is to be completed on or before January 14, 2018.
7. Water is to be put to beneficial use on or before January 14, 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 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'

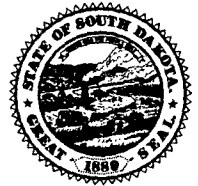
4. The well authorized by Permit Nos. 6761A-3 and 7462-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

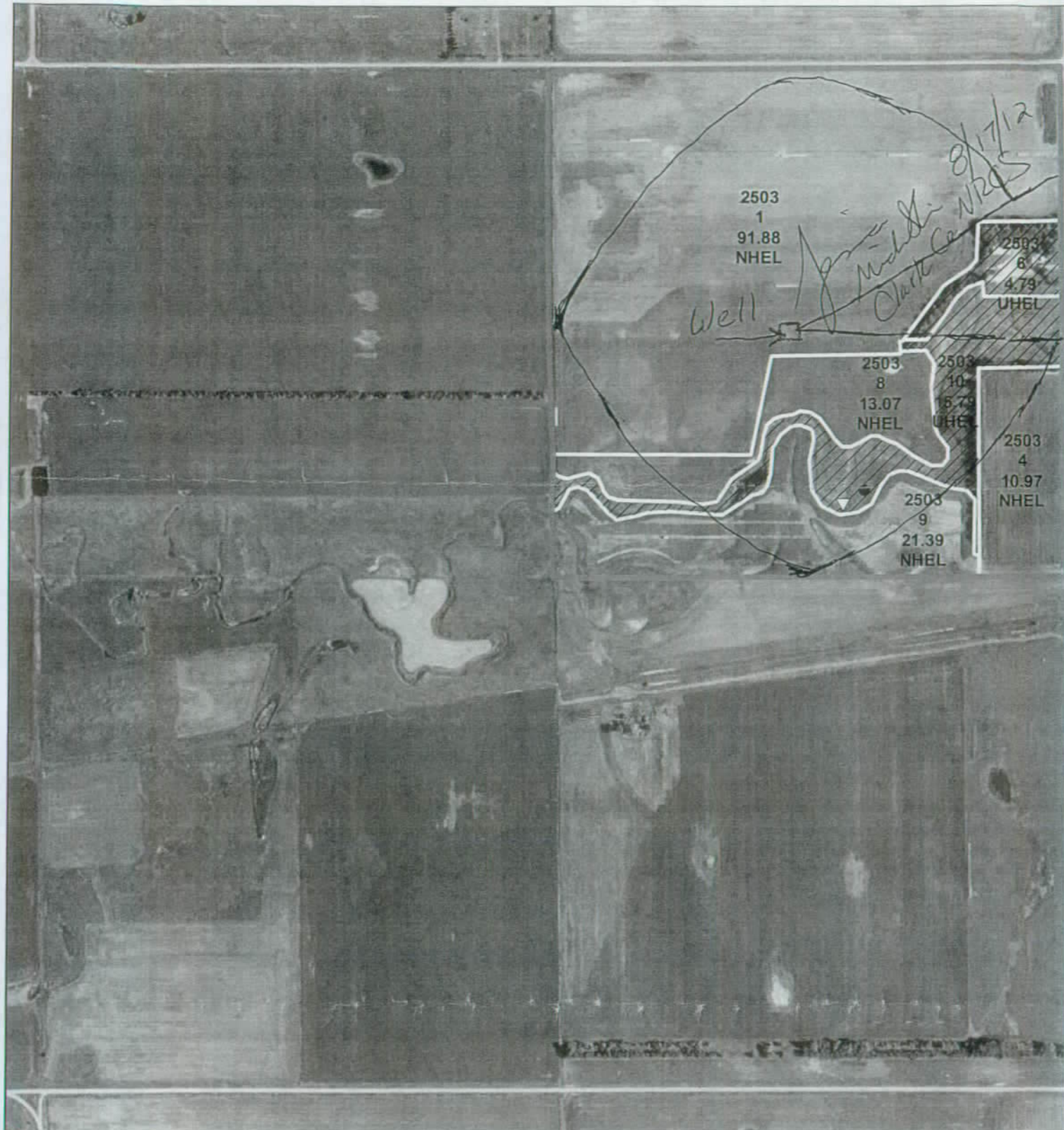
WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 08 2013

date





United States Department of Agriculture
Farm Service Agency



Clark County, SD

1:8,333

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AUG 20 2012

WATER RIGHTS
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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 dermination (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

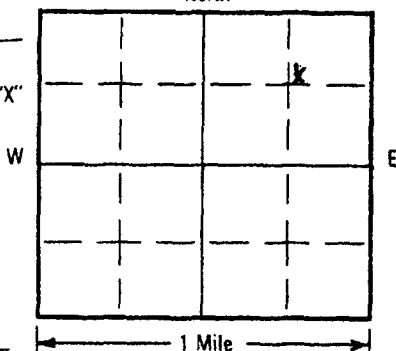
SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

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

North

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 ☐ Other

If 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>Groutite</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 liningSCREEN: ☐ 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

RECEIVED

AUG 20 2012

WATER RIGHTS PROGRAM

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Manikowski Well Drilling

Signature of License Representative:

Bryan Manikowski

Signature of Well Owner or Equitable Property Holder:

Date: _____

RECEIPT
WATER RIGHTS PROGRAM
South Dakota Department of Environment and Natural Resources

Date 10/16, 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>714162-3</u> to Appropriate Water, to construct and to put water to beneficial use	500	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	500 00

No. **05619**

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

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. 7462-3, 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. 7462-3, Chad Fritz, 17017 416th Avenue, Raymond SD 57258.

The Chief Engineer is recommending APPROVAL of Application No. 7462-3 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 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 Nos. 6761A-3 and 7462-3 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.

See report on application for additional information.

Garland Erbele, Chief Engineer
December 18, 2012

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO.7462-3
CHAD FRITZ
DECEMBER 18, 2012

Water Permit Application No. 7462-3 proposes to increase the diversion rate authorized by Water Permit No. 6761A-3. Water Permit No. 6761A-3 appropriates 240 acre-feet (ac-ft) of water at a maximum diversion rate of 0.78 cubic feet of water per second (cfs) from one well approximately 132 feet deep to be completed into the Altamont aquifer. The well is to be 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 in Clark County. This application proposes to increase the permitted diversion rate by 1.23 cfs. This application, if approved and Water Permit No. 6761A-3 will authorize a total diversion rate of 2.00 cfs (900 gallons per minute) for irrigation of 120 acres. No additional volume of water is requested by this application. The applicant is requesting a diversion rate greater than the statutory limit of 1.0 cfs per 70 acres.

AQUIFER: Altamont (A)

GEOLOGY AND AQUIFER CHARACTERISTICS:

Hamilton (1986) described six major glacial aquifers in Clark County; 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 to 130 feet below ground surface, which corresponds with Hamilton's (1986) Altamont 2 aquifer. The Altamont 2 aquifer is a buried glacial outwash consisting of unconsolidated fine to very coarse sand and gravel and sandy silt (Hamilton, 1986). According to Hamilton (1986), the Altamont 2 aquifer underlies approximately 630 square miles (403,200 acres) and contains an estimated 3,230,000 ac-ft of water in storage in Clark County. The Altamont 2 aquifer is hydraulically connected to the Altamont 1 aquifer in the center of Clark County and to the Altamont 3 aquifer in the western part of Clark County (Hamilton, 1986). Transmissivity was estimated to be 28,000 gallons per day per foot (gal/day/ft) for the Altamont 2 aquifer and 15,000 gal/day/ft for the Altamont 1 aquifer from two aquifer tests (Hamilton, 1986). Historically, the DENR-Water Rights Program has not differentiated between units and considered all of the deeper outwash deposits in Clark County the Altamont aquifer. The Altamont is generally under confined conditions. The Altamont, when considered as a single aquifer, underlies approximately 537,200 acres of Clark County and contains an estimated 3,326,400 ac-ft of recoverable water in storage in the county (Hedges et al., 1982). In the area of this application the groundwater movement is toward the southwest (Hamilton, 1986).

SDCL 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is 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 and existing rights from the aquifer.

WATER AVAILABILITY:

Water Permit Application No. 7462-3 proposes to increase the diversion rate authorized by Water Permit No. 6761A-3. This application does not request an increase in the total volume of water appropriated. Therefore, water availability is not an issue.

EXISTING WATER RIGHTS:

There are eight water rights/permits authorizing wells and several domestic wells within three miles of the well site proposed by this application (Water Rights, 2012b and 2012c). The water rights/permits are listed in table 1 and shown in figure 1.

Permit No.	Name	Status	Type	CFS	Acres
3198A-3	J.V. Kennealley	LC	IRR	1.88	261
6442-3	Louis Fritz	LC	IRR	3.56	268
6501-3	Russ Hurlbert	LC	IRR	1	112
6560-3	Louis Fritz	PE	IRR	2	160
6578-3	Louis Fritz	PE	IRR	2	160
6761A-3	Chad Fritz	PE	IRR	0.78	120
6774-3	R & R Farms	PE	IRR	3.89	272
7271-3	Louis Fritz	PE	IRR	1.78	160
7371-3	Russell Hurlbert	PE	IRR	1.78	90
LC= Water Right, PE= Water Permit, IRR= Irrigation					

Table 1- Water rights/permits within approximately three miles of well proposed by Water Permit No. 6761A-3 (Water Rights, 2012b)

It is possible that drawdown from this proposed increase of maximum diversion rate may be measurable in domestic wells and/or in the wells that supply Water Right No. 6442-3 and Water Permit No. 6560-3. An interference complaint regarding irrigation pumping from the Altamont aquifer was filed with the DENR-Water Rights Program in 1983. The complaint was approximately 15 miles south-southeast of the well site proposed by 6761A-3. The complaint alleged that two wells quit pumping when the irrigation well authorized by Water Right No. 4658-3 was pumped “more than 12 hours.” Drawdown data was obtained from the irrigation well and it was determined that the water level could not be drawn down to a level that would impair the wells.

Although some drawdown may occur in the Altamont aquifer, SDCL 46-6-6.1 does not protect artesian head pressure as a means of delivery and the Water Management Board has recognized that to place water to maximum beneficial use a certain amount of drawdown may occur. In order to balance interests between irrigation use and delivery of water by artesian pressure the Water Management Board has defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

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

The assurance of reasonable domestic use provided by SDCL 46-6-6.1 and ARSD 74:02:04:20(7) ensures not only that interference will not be adverse to domestic well users but also in existing appropriative rights. Depending on the characteristics of the Altamont aquifer at the well site, some existing well owners may need to lower their pumps to accommodate for lower water levels. When considering SDCL 46-6-6.1 and ARSD 74:02:04:20(7), well interference from this proposed increase in diversion rate is not likely to be significant and there is a reasonable probability that any interference will not be adverse.



Figure 1- Water rights/permits and observation wells in the area of Water Permit Application No. 7462-3 (Water Rights, 2012b and 2012c)

SDCL 46-5-6

Pursuant to SDCL 46-5-6, the diversion rate for an irrigation appropriation cannot be in excess of one cfs per second for every 70 acres, or "the equivalent thereof." The statute does provide that the Water Management Board may allow a greater diversion if the method of irrigation so requires. Water Permit Application 7462-3 proposes to increase the total diversion rate to 2.00 cfs to irrigate 120 acres, or the equivalent of 1.17 cfs per 70 acres. The applicant stated on the application that the center pivot he intended to install required more than the statutory limit to allow the center pivot to operate properly. This is a reasonable request.

CONCLUSIONS:

1. Water Permit Application No. 7462-3 proposes to increase the diversion rate authorized by Water Permit No. 6761A-3.
2. Water Permit No. 6761A-3 appropriates 240 acre-feet (ac-ft) of water at a maximum diversion rate of 0.78 cubic feet of water per second (cfs) from one well completed into the Altamont aquifer for the irrigation of 120 acres.
3. Total diversion rate for Water Permit No. 6761A-3 and Water Permit Application No. 7462-3, if approved, would be 2.00 cfs.
4. This application, if approved, does not authorize any increase in the total volume of water appropriated.
5. There is a reasonable probability that the diversion requested by this application can be made without adversely affecting existing water rights/permits and domestic users.
6. The applicant is requesting a diversion rate that would be in excess of the statutory limit of one cfs per 70 acres. He justified this by stating on the application that the requested diversion rate is required to properly operate the center pivot he intended to install.



Adam Mathiowetz
SD DENR-Water Rights Program

Approved by



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Hamilton, L.J. 1986. Water Resources of Clark County, South Dakota; Part II: Water Resources. South Dakota Geological Survey Bulletin 29.
- Hedges, L.S., S.L. Burch, D.L. Iles, R.A. Barari, and R.A. Schoon. 1982. Evaluation of Ground-water Resources in 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 Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.

Affidavit of Publication

State of South Dakota

§

County of Clark

NOTICE OF APPLICATION NO. 7462-3 to Appropriate Water

Notice is given that Chad Fritz, 17017 416th Ave., Raymond, SD 57258 has filed an application for a water permit to increase the diversion rate authorized by Permit No. 6761A-3. Permit No. 6761A-3 appropriates 0.78 cubic feet of water per second (cfs) 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-R59-W. This application proposes to appropriate an additional 1.23 cfs from the existing well. This application and Water Permit No. 6761A-3, if approved, will authorize a total diversion rate of 2.00 cfs (900 gallons per minute) for irrigation of 120 acres. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7462-3 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 sched-

uled 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 January 14, 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 \$28.72.
12-31-1t

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:

DECEMBER 31, 2012

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

28.72

William J. Krikac

Subscribed and sworn to before me this

RECEIVED

JAN - 4 2013

**WATER RIGHTS
PROGRAM**

3RD DAY OF JANUARY, 2013

Carol Helke

Notary Public
Clark County, South Dakota

My Commission expires: 06/04/2013

RECEIVED

Form 8

JAN - 8 2013

WATER RIGHTS
PROGRAM

DEPARTMENT
OF ENVIRON-
MENT AND
NATURAL
RESOURCES

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was
taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was
published

in the newspaper on the following date:

January 2nd, 2013

Cost of Printing 59.90

Monica K. Saathoff
(Signature)

Bookkeeper
(Title)

January 2nd, 2013
(Date Signed)

NOTICE OF APPLICATION
NO. 7462-3 to Appropriate
Water

Notice is given that Chad Fritz, 17017 416th Ave, Raymond SD 57258 has filed an application for a water permit to increase the diversion rate authorized by Permit No. 6761A-3. Permit No. 6761A-3 appropriates 0.78 cubic feet of water per second (cfs) 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. This application proposes to appropriate an additional 1.23 cfs from the existing well. This application and Water Permit No. 6761A-3, if approved, will authorize a total diversion rate of 2.00 cfs (900 gallons per minute) for irrigation of 120 acres. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7462-3 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 January 14, 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 approximate cost of \$55.00.
(January 2, 2013)

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

December 19, 2012

Clark County Courier
119 1st Ave E
Clark SD 57225

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7462-3 to Appropriate Water. Please publish the notice once on January 2, 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 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

December 19, 2012

Public Opinion
PO Box 10
Watertown SD 57201

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7462-3 to Appropriate Water. Please publish the notice once on January 2, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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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.

December 19, 2012

Chad Fritz
17017 416th Ave
Raymond SD 57258

Dear Mr. Fritz:

Water Permit Application No. 7462-3 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 January 2, 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. 7462-3 to Appropriate Water

Notice is given that Chad Fritz, 17017 416th Ave, Raymond SD 57258 has filed an application for a water permit to increase the diversion rate authorized by Permit No. 6761A-3. Permit No. 6761A-3 appropriates 0.78 cubic feet of water per second (cfs) 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. This application proposes to appropriate an additional 1.23 cfs from the existing well. This application and Water Permit No. 6761A-3, if approved, will authorize a total diversion rate of 2.00 cfs (900 gallons per minute) for irrigation of 120 acres. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7462-3 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.

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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

FEB 08 2013

Chad Fritz
17017 416th Ave
Raymond SD 57258

Dear Mr. Fritz:

Enclosed is Water Permit No. 7462-3 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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

7462-3

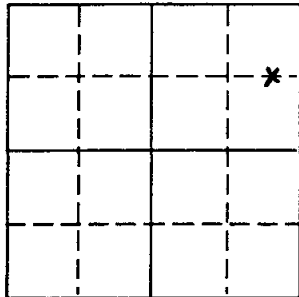
Location NE 1/4 NE 1/4 Sec 27 Twp 117 Rg 59

County

Clark

North

Please mark well location with an "X"



Well completion Date

1-29-13

1 Mile

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

? 500 ft. from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Rotary

CASING DATA:

- ☐ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR</u> <u>21</u> LB/FT	<u>8</u> IN	<u>71</u> FT	<u>120</u> FT	<u>12 1/4</u> 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>Portland</u>	<u>13</u>	<u>10.8</u> Lb/gal	<u>0</u> Ft	<u>110</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure Truetic line
Bottom 110' TO TOP

SCREEN:

- ☐ Perforated pipe ☒ Manufactured

Diameter 8 Inches Length 20 FeetMaterial PVCSlot Size 1050 Set From 120 Feet to 140 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? Chlorine

☐ No, Why Not?
 Lab sample sent to for water quality analysis

Well Owner:

Chad Fritz

Business Name:

Address1:

17017 46 Ave

Address2:

City, State, Zip:

Raymond, SD 57258

WELL LOG:

DEPTH

FORMATION	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>1</u>
<u>yellow clay</u>	<u>1</u>	<u>34</u>
<u>Blue clay</u>	<u>34</u>	<u>70</u>
<u>yellow Gravel</u>	<u>70</u>	<u>100</u>
<u>Blue clay</u>	<u>100</u>	<u>115</u>
<u>Medium Sand</u>	<u>115</u>	<u>120</u>
<u>medium to coarse sand</u>	<u>120</u>	<u>140</u>
<u>Shale</u>	<u>140</u>	

STATIC WATER LEVEL

47' 9" FEET

If flowing: closed in pressure

PSI

GPM flow

through

Inch pipe

Controlled by

- ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

- ☒ Pumped Describe: submersible pump

- ☐ Bailed

- ☐ Other

Pumping Level Below Land Surface

85 Ft. After 2 Hrs. pumped 465 GPM

Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate:

GPM

REMARKS

well # 1 south well

This well was drilled under license #

285

And this report is true and accurate.

Drilling firm:

Manikowski Well Drilling, Inc.

Signature of License Representative:

Raymond

Signature of Well Owner or Equitable Property Holder:

Date:

RECEIVED

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

APR 18 2013

WATER RIGHTS PROGRAM

7462-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

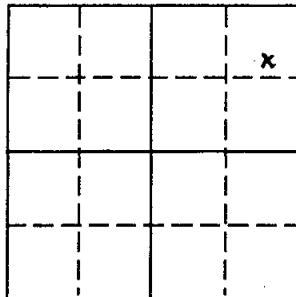
Location NE 1/4 NE 1/4 Sec 27 Twp 117 Rg 59

County

Clark

North

Please mark well location with an "X"



Well completion Date

2-28-13

1 Mile

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

? 700 ft. from septic tank (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 8" x 1" 132' 12 1/4"

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR21</u> LB/FT	<u>8</u> IN	<u>1</u> FT	<u>132</u> FT	<u>12 1/4</u> 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>High Strength Portland Cement</u>	<u>14</u>	<u>10.8</u> lb/gal	<u>0</u> Ft	<u>120</u> Ft
<u>Grout</u>		Lb/gal	Ft	Ft

Describe grouting procedure Tremie line pumping from bottom to surfaceSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 8 Inches Length 17 FeetMaterial PVCSlot Size 1050 Set From 132 Feet to 149 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? chlorine☐ No, Why Not?

Lab sample sent to for water quality analysis

Well Owner:

Chad Fritz

Business Name:

Address1:

12017 416 Ave

Address2:

City, State, Zip:

Raymond, SD 57258

WELL LOG:

DEPTH

FORMATION	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>1</u>
<u>yellow clay</u>	<u>1</u>	<u>38</u>
<u>Blue clay</u>	<u>38</u>	<u>70</u>
<u>yellow sand & Gravel</u>	<u>70</u>	<u>124</u>
<u>Blue clay</u>	<u>124</u>	<u>132</u>
<u>Medium to Coarse Sand</u>	<u>132</u>	<u>149</u>
<u>Shale</u>	<u>149</u>	<u>150</u>

STATIC WATER LEVEL

49' 4"

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:

Submersible Pump☐ Bailed☐ Other

Pumping Level Below Land Surface

90 Ft. After2 Hrs. pumped465 GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

REMARKS

well #2North well

This well was drilled under license #

285

And this report is true and accurate.

Drilling firm:

Manikowski Well Drilling, Inc.

Signature of License Representative:

[Signature]

Signature of Well Owner or Equitable Property Holder:

Date:

523 E. Capitol Ave., Pierre SD 57501

Please return White Copy to DENR Water Rights

RECEIVED
APR 18 2013
WATER RIGHTS
PROGRAM

6-14-13