

WATER PERMIT NO. 7271-3

Name of Applicant: Louis Fritz

Address: 41725 168th St, Raymond SD 57258 Phone: 605 532-5744

Amount of Water Claimed: 1.78 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: 8 miles northeast of Clark

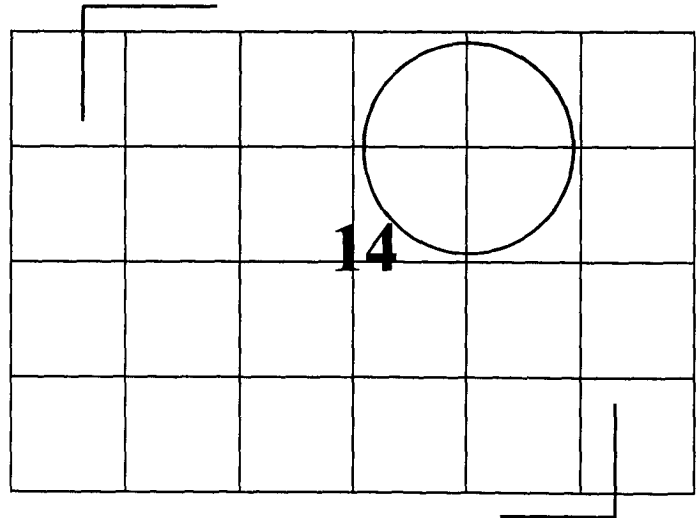
PRIORITY Date Received: 9-29-11 Application/License Fee: \$1050.00

Corrected Application Received: Period of Annual Use: May 1 – September 30

Remarks:

Diversion Point: NW ¼ NE ¼ Sec 14-T117N-R59W

Land to be Irrigated: NE ¼ Sec 14-T117N-R59W



Depth of Well: 185 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Jim Dylla, Clark Co FSA

Reviewed and the Number Assigned on: 9-29-11

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>1271-3</u> (office use only)	Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>	
	Newspaper <u>Clark Co. Courier</u>	<u>1191st Ave E</u>
	<u>605-532-3654</u>	<u>Clark 57225</u>

RECEIVED
SEP 29 2011
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.)

- Name of Applicant LOUIS FRITZ Phone 605-532-5744
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 41725 168TH STREET RAYMOND State SD 57258
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78*CFS or 800**GPM ***AF Total Acreage 160
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply well & pump
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County CLARK
NW1/4 NE1/4 Sec 14 117 59
- County or counties where water will be used CLARK
- Annual period during which water is to be used MAY 1 - SEPTEMBER 30
- 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 NE 1/4 14 117 59	40		
NW 1/4 NE 1/4 14 117 59	40		
SW 1/4 NE 1/4 14 117 59	40		
SE 1/4 NE 1/4 14 117 59	40		

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

Center Pivot w/ well and pump.

STATE OF SOUTH DAKOTA) SS
County of _____)

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

I, _____, 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 _____

Subscribed and sworn to before me this 23rd day of September 20 11

Joan Lamb
my comm expires: _____ Notary Public signature
7-27-2014

**SOUTH DAKOTA
WATER PERMIT NO. 7271-3**

Date of first receipt of application September 29, 2011.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7271-3 to Louis Fritz, 41725 168th St, 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. 7271-3 appropriates 1.78 cubic feet of water per second from one well completed into the Altamont Aquifer (183 feet deep) located in NW ¼ NE ¼ Section 14 for irrigation of 160 acres located in the NE ¼ Section 14; all in T117N-R59W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is September 29, 2011.
4. The date of approval of Permit No. 7271-3 is December 12, 2011.
5. One-fifth of the construction is to be completed on or before June 12, 2013.
6. All construction is to be completed on or before December 12, 2016.
7. Water is to be put to beneficial use on or before December 12, 2020.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

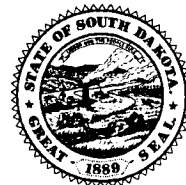
1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7271-3 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: Garland Erbele

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

JAN 18 2012
date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 20" Depth 185
- b) Casing Type PVC Diameter 12 Thickness _____
- c) Screen Type SS Diameter 12 Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 120
- f) Depth to Water (ground surface to water level) 120
- g) Distance to nearest existing domestic well:
On applicants property 3500' On property owned by others 4400'

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

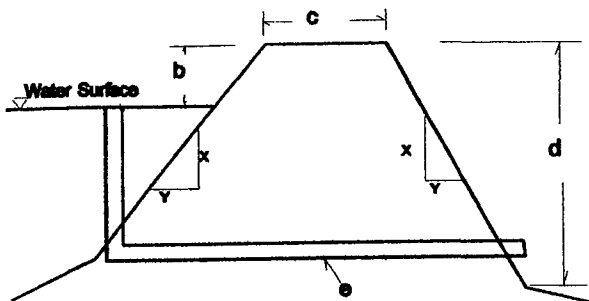
3. Dugout Information

- 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

1:8,200



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.

PLSS: 14_117_59
Farm: 900

Wetland Determination Identifiers

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

□ Common Land Units

▨ Non Cropland

2010 Ortho-Photography - Not to Scale

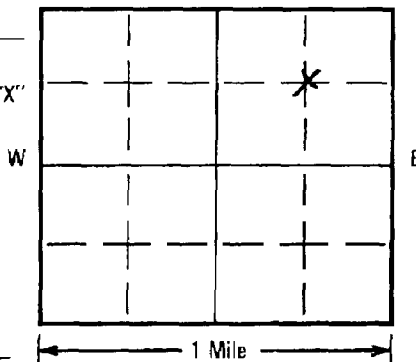
January 28, 2011

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 NE 1/4 Sec 14 Twp 119N Rg 59W
 County Clark

Please mark well location with an "X"



Well Completion Date

10-10-06

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2000 ft. from Barn yard (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	<u>4 3/4</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type High Solids No. of Sacks 5 Grout Weight 9.3 lb./gal From _____ ft. To 120 ft.
Grout _____ lb./gal _____ ft. _____ ft.

Describe grouting procedure Tremie line Pumped from 120' to Top of hole

SCREEN: ☐ 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: Louie Fritz

Business Name: _____

Address: _____

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>1</u>
<u>Sandy yellow clay</u>	<u>1</u>	<u>56</u>
<u>Blue Clay with sand strips</u>	<u>56</u>	<u>120</u>
<u>Coarse sand & Gravel</u>	<u>120</u>	<u>150</u>
<u>medium To Coarse Sand</u>	<u>150</u>	<u>162</u>
<u>Blue Clay</u>	<u>162</u>	<u>163</u>
<u>medium Sand To Coarse Gravel</u>	<u>163</u>	<u>183</u>
<u>clay</u>	<u>183</u>	<u>200</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

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Maniowski Well Drilling, Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 10-10-06

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date Sept 29, 20 11

RECEIVED OF Louis Fritz, 41725 168th St, Raymond SD 57258

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

Fee for Application for Permit No. <u>7271-3</u> to Appropriate Water, to construct and to put water to beneficial use	850	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>7271-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	1050.00

No. **05030**

By

Harland Erbeley
Chief Engineer / KS



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7271-3, Louis 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. 7271-3, Louis Fritz, 41725 168th Street, Raymond SD 57258..

The Chief Engineer is recommending APPROVAL of Application No. 7271-3 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 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. 7271-3 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.

Garland Erbele, Chief Engineer
November 10, 2011

REPORT ON WATER PERMIT APPLICATION NO. 7271-3

For Louis Fritz

October 28, 2011

Application No. 7271-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 183 feet deep located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of section 14 for irrigation of 160 acres located in the NE $\frac{1}{4}$ of section 14; all in T117N R59W in Clark County.

AQUIFER – ALTAMONT (A)

The Altamont is a buried outwash (sand and gravel) that is under confined or artesian conditions at this site. The aquifer underlies 537,200 acres and contains an estimated 3.326 million acre-feet of recoverable water in storage in Clark County (Hedges, 1982). Ground water movement is from east to west in the area of this application (Hamilton, 1986). The Altamont aquifer as described in the Hedges report is roughly equivalent to the combined Altamont No. 2 and Altamont No. 3 aquifers as described in the Hamilton report. Hamilton reported that the Altamont No. 2 aquifer (water source for this application) has an areal extent of 630 square miles and contains an estimated 3.23 million acre feet of water in storage in Clark County (Hamilton, 1986). Hamilton also estimated a recharge rate of about 54,000 acre-feet annually. Water use from the Altamont aquifer in Clark County does not approach this annual volume at this time. The aquifer extends into Spink County to the west, Kingsbury County to the south, Day, Codington and Hamlin Counties to the north and east.

A test well drilled for this application indicates sand and gravel beginning at a depth of 120 feet and extending to a total depth of 183 feet all below land surface. No static water level or pumping information was available for this site.

The Water Rights program monitors two observation wells completed into the Altamont aquifer and located within two miles of this application. CK-78D is located about one mile north and CK-78E is located about two miles south from this application. Hydrographs for these two observation wells are included with this report. In general the water levels have responded to climatic conditions, that is, rising during wet years (recharge) and gradually declining during dry years. Also there is some annual fluctuation that appears to be related to pumping for irrigation in the area. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2011).

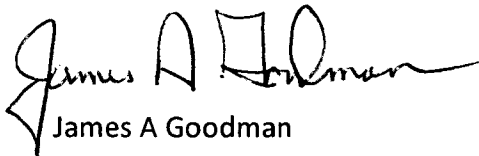
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing Water Permit No. 6578-3 (2.0 cfs, 160 acres) located in the NW $\frac{1}{4}$ of section 14 (the wells will be less than $\frac{1}{2}$ mile apart). Interference will occur. Overlapping cones of depression are expected. The applicant and the holder of Water Permit No. 6578-3 are the same. Until the well is drilled, tested and operated for a few years the interference potential

cannot be determined, however this is not expected to cause adverse effects. There are no other nearby permits that should be affected significantly by this application.

CONCLUSIONS

1. Water is available from the Altamont aquifer.
2. The aquifer is under artesian conditions at this site. Drawdown will occur as a result of pumping however this is not expected to be significant. This is shown by the observation well hydrographs. Interference is not expected to be adverse.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. There has been some controversy in this area concerning water permit applications. A contested case hearing was held for Water Permit No. 6578-3. There have been no complaints related to these appropriations since that time.

A handwritten signature in black ink, appearing to read "James A. Goodman". The signature is fluid and cursive, with a small square mark above the "A".

James A Goodman

Natural Resources Engineer

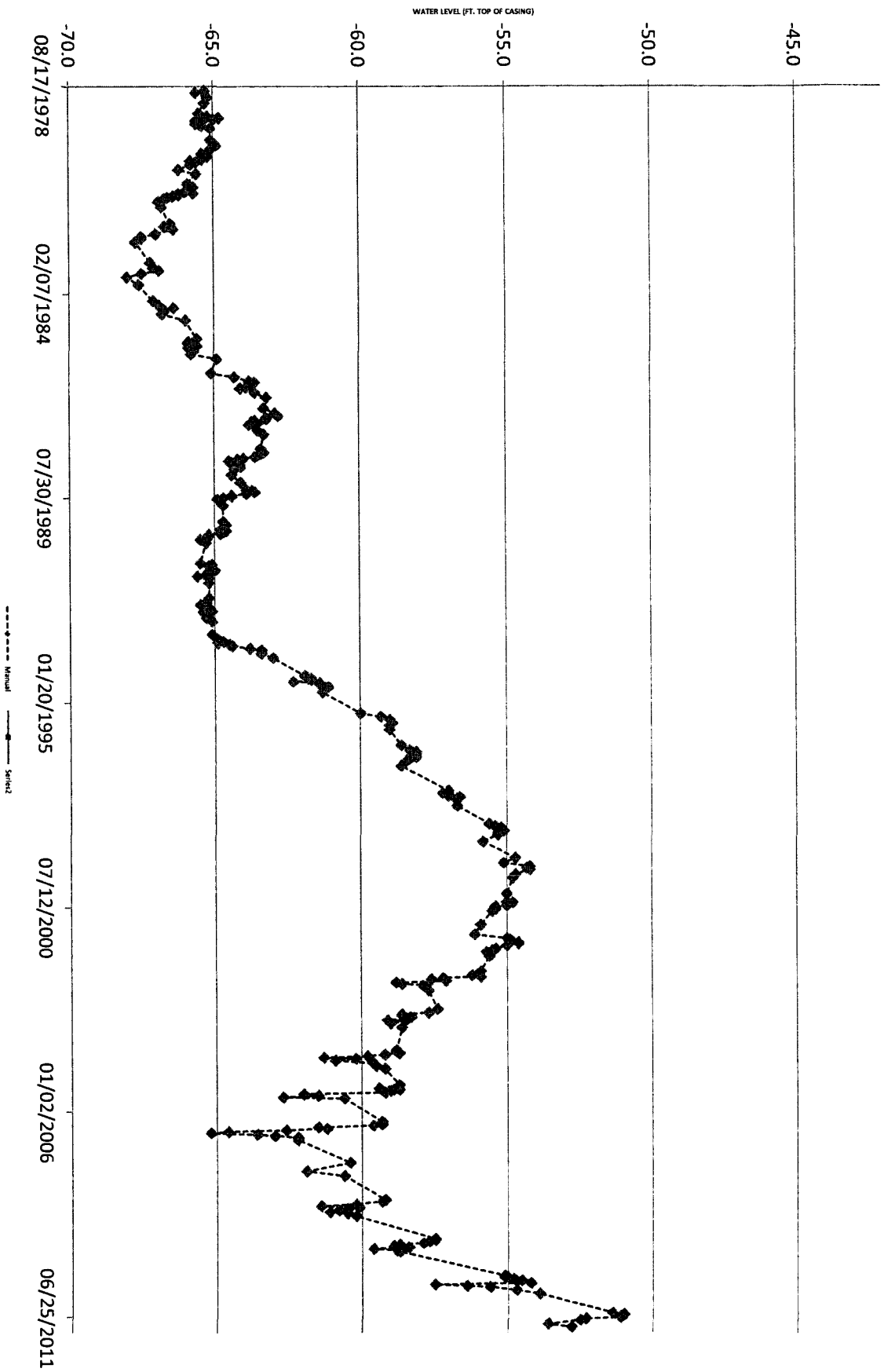
BIBLIOGRAPHY

Hamilton, L.J., 1986, Geology and Water Resources of Clark County, South Dakota, Bulletin 29, Part II: Water Resources, SD DENR, SDGS, Vermillion, SD, 57069.

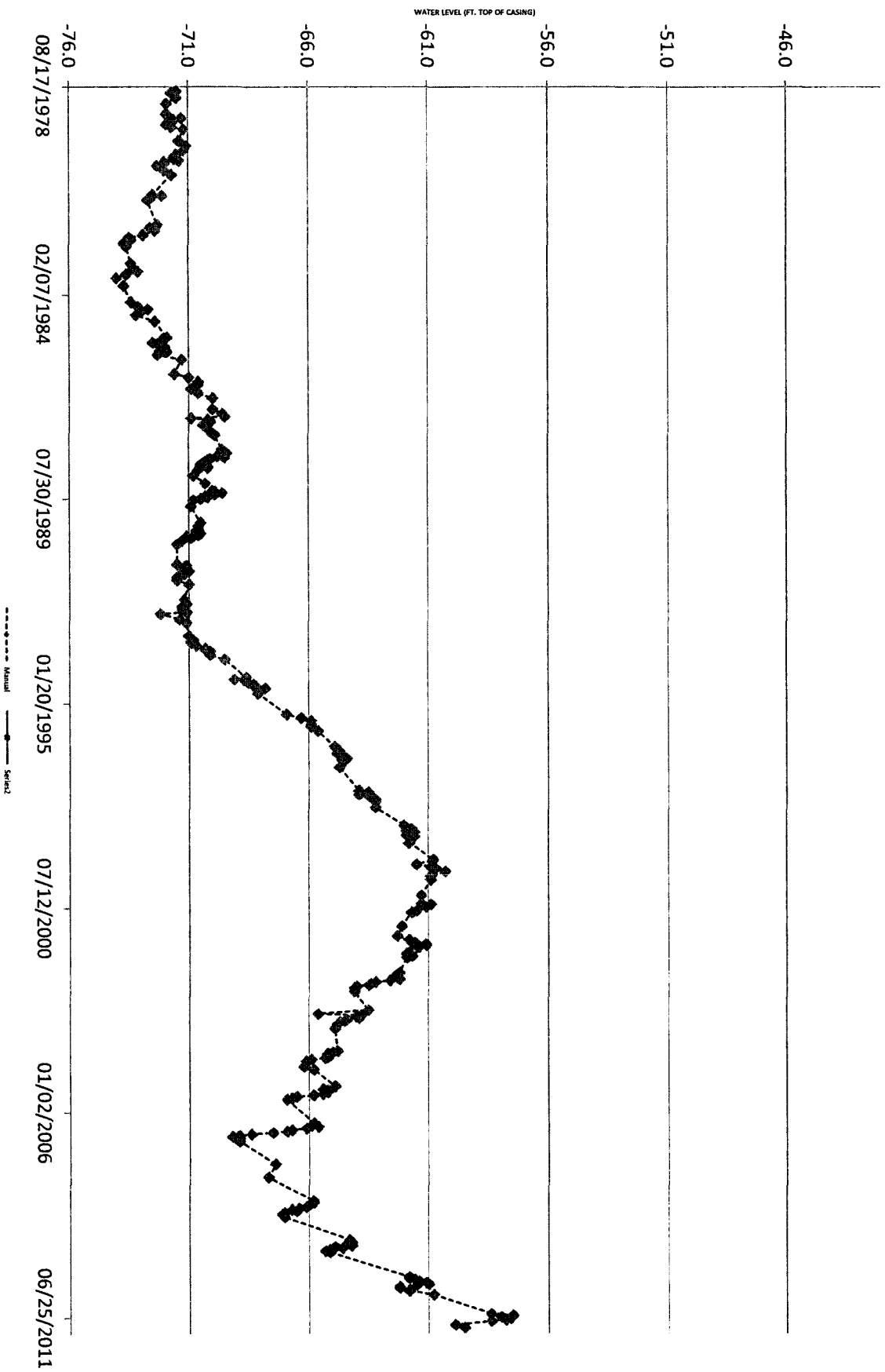
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2011, Unpublished Observation Well Records for Clark County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL CK-78E



WATER RIGHTS' OBSERVATION WELL CK-78D



RECEIVED

DEC - 2 2011

Affidavit of Publication
WATER RIGHTS PROGRAM

State of South Dakota

§

County of Clark

NOTICE OF APPLICATION
NO. 7271-3 to Appropriate Water

Notice is given that Louis Fritz, 41725 168th St., Raymond, S.D. 57258 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well completed into the Altamont Aquifer (183 feet deep) located in NW 1/4 NE 1/4 Section 14 for irrigation of 160 acres located in the NE 1/4 Section 14; all in T117N-R59W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7271-3 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 of 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 December 12, 2011.

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 twice at the total approximate cost of \$41.73.

11-23-2t

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

LOUIS 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

TWO

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

NOVEMBER 23, 2011

NOVEMBER 30, 2011

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

41.73

William J. Krikac

Subscribed and sworn to before me this

30TH DAY OF NOVEMBER, 2011

Arnt Helken

Notary Public
Clark County, South Dakota

My Commission expires: 06/04/2013



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

November 14, 2011

Clark County Courier
119 1st Ave E
Clark SD 57225

ATTENTION: Legal Public Notice

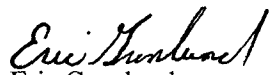
Enclosed is a Notice on Application No. 7271-3 to Appropriate Water to be published twice. Please publish the first notice on November 23, 2011 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Louis Fritz, 41725 168th St. Raymond SD 57258 (Ph # 605-532-5744).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** 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

-----CUT HERE-----

No. 7271-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of November 14, 2011 enclosing Notice to Appropriate Water by Application No. 7271-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

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

November 14, 2011

Louis Fritz
41725 168th St
Raymond SD 57258

Dear Mr. Fritz:

Water Permit Application No. 7271-3 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 Publisher of the Clark County Courier printed at Clark SD (Ph # 605-532-3654). You will need to contact the newspaper 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 to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. 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
eric.gronlund@state.sd.us

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 first Notice on November 23, 2011 with the second publication 7 days later. 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.

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Published twice 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
www.state.sd.us/denr

JAN 18 2012

Louis Fritz
41725 168th St
Raymond SD 57258

Dear Mr. Fritz:

Enclosed is Water Permit No. 7271-3 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

7271-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

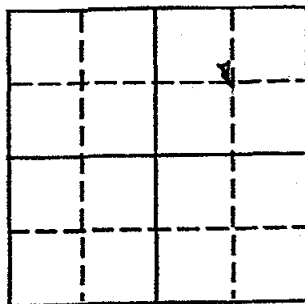
11-02

Location NW 1/4 NE 1/4 Sec 19 Twp 117N Rg 59W

County

Clark

North



Please mark well location with an "X"

Well completion Date

8-7-12

1 Mile

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

? 2000 ft. from Feed Lot (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>5002</u> LB/FT	<u>12</u> IN	<u>1</u> FT	<u>125</u> FT	<u>17.5</u> IN
<u>SRDD</u> LB/FT	<u>145</u> IN	<u>160</u> FT	<u>17.5</u> IN	
<u>LB/FT</u>	<u>IN</u>	<u>FT</u>	<u>FT</u>	<u>IN</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Grout</u>	<u>22</u>	<u>95</u> Lb/gal	<u>0</u> FT	<u>110</u> FT
		<u>Lb/gal</u>	<u>FT</u>	<u>FT</u>

Describe grouting procedure Tremie line from bottom of hole to top

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter	Length	Material
<u>12</u> inches	<u>20</u> Feet	<u>stainless</u>
<u>125-145</u>		
<u>1050</u> Slot Size	Set From <u>160</u> Feet to <u>180</u> Feet	
Other information <u>Rock bit # 50 slot sand</u>		

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:

Lois Fritz

Business Name:

Address1:

41725 168th St

Address2:

City, State, Zip:

Raymond, SD 57258

WELL LOG:

DEPTH

FORMATION	FROM	TO
Top Soil	0	2
yellow clay	2	38
Blue clay	38	68
Gravel	68	74
Blue clay	74	120
medium coarse sand	120	145
Blue clay	145	160
medium sand	160	180
Blue clay	180	

STATIC WATER LEVEL

79 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

160 Ft. After3 Hrs. pumped750 GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

REMARKS

RECEIVED

APR 15 2013

WATER RIGHTS PROGRAM

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 of Well Owner or Equitable Property Holder:

Date:

523 E. Capitol Ave., Pierre SD 57501

Please return White Copy to DENR Water Rights

SOUTH DAKOTA WATER WELL COMPLETION REPORT

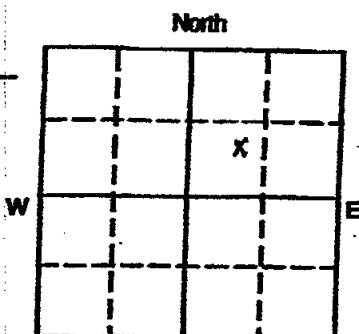
7271-3

11-02

Location SW 1/4 NE 1/4 Sec 14 Twp 117N Rg 59W

County Clark

Please mark well location with an "X"



1 Mile

Well completion Date 8-3-15

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

2100 ft from stock yard (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

Other describe

WEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>22 LB/FT</u>	<u>12 IN</u>	<u>+2 FT</u>	<u>144 FT</u>	<u>17 1/2 IN</u>
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

ROUTING DATA:

Route Type	No. of Sacks	Grout Weight	From	To
<u>Grout</u>	<u>25</u>	<u>9.5 Lb/gal</u>	<u>0 FT</u>	<u>102 FT</u>
		Lb/gal	FT	FT

Describe grouting procedure grout line bottom of hole (top of gravel pack) to surface

SCREEN:

☐ Perforated pipe ☒ Manufactured

Material PVC Length 40 Feet

Size 1051 Set From 144 Feet to 184 Feet

Other information Gravel packed for rock

AS A PACKER OR SEAL USED?

☐ Yes ☒ No

What material?

Seal packer(s) and location

INFECTED: Was well disinfected upon completion?

☒ Yes, How? chlorine

☐ No, Why Not?

Sample sent to for
or quality analysis

Well Owner: Louie Furtz

Business Name:

Address:

Address:

City, State, Zip:

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
Yellow clay	1	28
Blue clay	28	102
Fine Sand	102	130
Medium to Coarse Sand	130	184
Sand over sized		
Blue clay	184	185

STATIC WATER LEVEL

103 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 lift

☐ Bailed

☒ Other

Pumping Level Below Land Surface

140 Ft. After 3 Hrs. pumped 600-800 GPM

FL After Hrs. pumped GPM

If pump installed, pump rate: GPM

REMARKS

Replacement well
old well sealed and abandoned

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 of Well Owner or Equitable Property Holder:

Date:

523 E. Capitol Ave., Pierre SD 57501

RECEIVED

APR 22 2015

WATER RIGHTS
PROGRAM

case return White Copy to DENR Water Rights

7271-3



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

JUN 27 2023

Louis Fritz
41725 168th St
Raymond SD 57258

6578-3
7271-3

Dear Mr. Fritz:

Enclosed are Water License Nos. 6578-3 & 7271-3. These are the final water right documents completing your process of obtaining Water Rights. Included with your licenses is a map prepared by the staff engineer who conducted the field investigations.

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

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

Sincerely,

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

enclosures

Note: Two separate Water Rights enclosed.

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7271-3

(1) Louis Fritz; 41725 168th St, Raymond SD 57258, made Application No. 7271-3, September 29, 2011, for a water permit to divert 1.78 cubic feet of water per second from groundwater, one well (Altamont Aquifer), Clark County, South Dakota for irrigation purposes. Permit No. 7271-3, with a priority date of September 29, 2011, was approved December 12, 2011, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 12, 2016, and for the application to beneficial use of water on or before December 12, 2020.

An investigation conducted for licensing purposes found the diversion point developed outside of the permitted area. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the change in the diversion point location did not increase the potential for adverse effects to existing diversions.

(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:

- 1,665 ft S & 3,910 ft E of the NW corner of Section 14, T117N, R59W (SW $\frac{1}{4}$ NE $\frac{1}{4}$)
(Latitude 44.94542 Longitude -97.88628)

(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 14, T117N, R59W	
NW $\frac{1}{4}$ NE $\frac{1}{4}$	32.0 acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$	33.5 acres
SE $\frac{1}{4}$ NE $\frac{1}{4}$	36.0 acres
SW $\frac{1}{4}$ NE $\frac{1}{4}$	35.0 acres
TOTAL: 136.5 acres	

(4) Pursuant to South Dakota Water Law 46-5-30.1 Louis Fritz, the holder and/or owner of Water Right No. 7271-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from groundwater, one well (Altamont Aquifer), with a priority date of September 29, 2011, 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. 7271-3 and subject to the following qualifications:

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

continued

2. The well authorized by Permit No. 7271-3 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 Manikowski Well Drilling in 2015. A copy of the well completion report is on file with the Water Rights Program.)*
3. This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund

Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

JUN 27 2023
date



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7271-3

I have this day, June 12, 2023, made a thorough examination of the water use system constructed by Louis Fritz, 41725 168th St, Raymond, SD 57258 of Permit No. 7271-3, bearing the priority of September 29, 2011 authorizing the diversion of 1.78 cu. ft. per second of the waters of the Altamont Aquifer for irrigation purposes, in Clark County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Manikowski Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 184 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 12 inches
- 2) Length 144 feet
- 3) Type Plastic

Screen:

- 1) Type PVC
- 2) Length 40 feet
- 3) Static water level 103 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 800 GPM

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating Unknown hp

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

- 1) Type Buried PVC
- 2) Size 8 inches
- 3) Length 360 feet

C. Works used to apply water to beneficial use:

Center pivot:

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

Chemigation Equipment:

- 1) Does chemigate Y

Comments: **Uses commercially available injection equipment**

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: **WELL LOCATION**
From the NW corner Sec 14 T117N R59W WELL #2: 1665 ft S & 3910 ft E, Lat 44.94542 Long -
97.88628 (SW ¼ NE ¼)

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

legal description/acreage

All land in Sec 14 T117N R59W

NW ¼ NE ¼ - 32.0 acres

NE ¼ NE ¼ - 33.5 acres

SE ¼ NE ¼ - 36.0 acres

SW ¼ NE ¼ - 35.0 acres

comprising a total of 136.5 acres of land and the license should be issued for 1.78 cfs

3. All structures, wells and lands on map Y

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

The irrigated acreage was estimated with the aid of FSA imagery and ArcMAPS software.

The pump rate reported in a recent Irrigation Questionnaire was used to establish the system flow capacity.

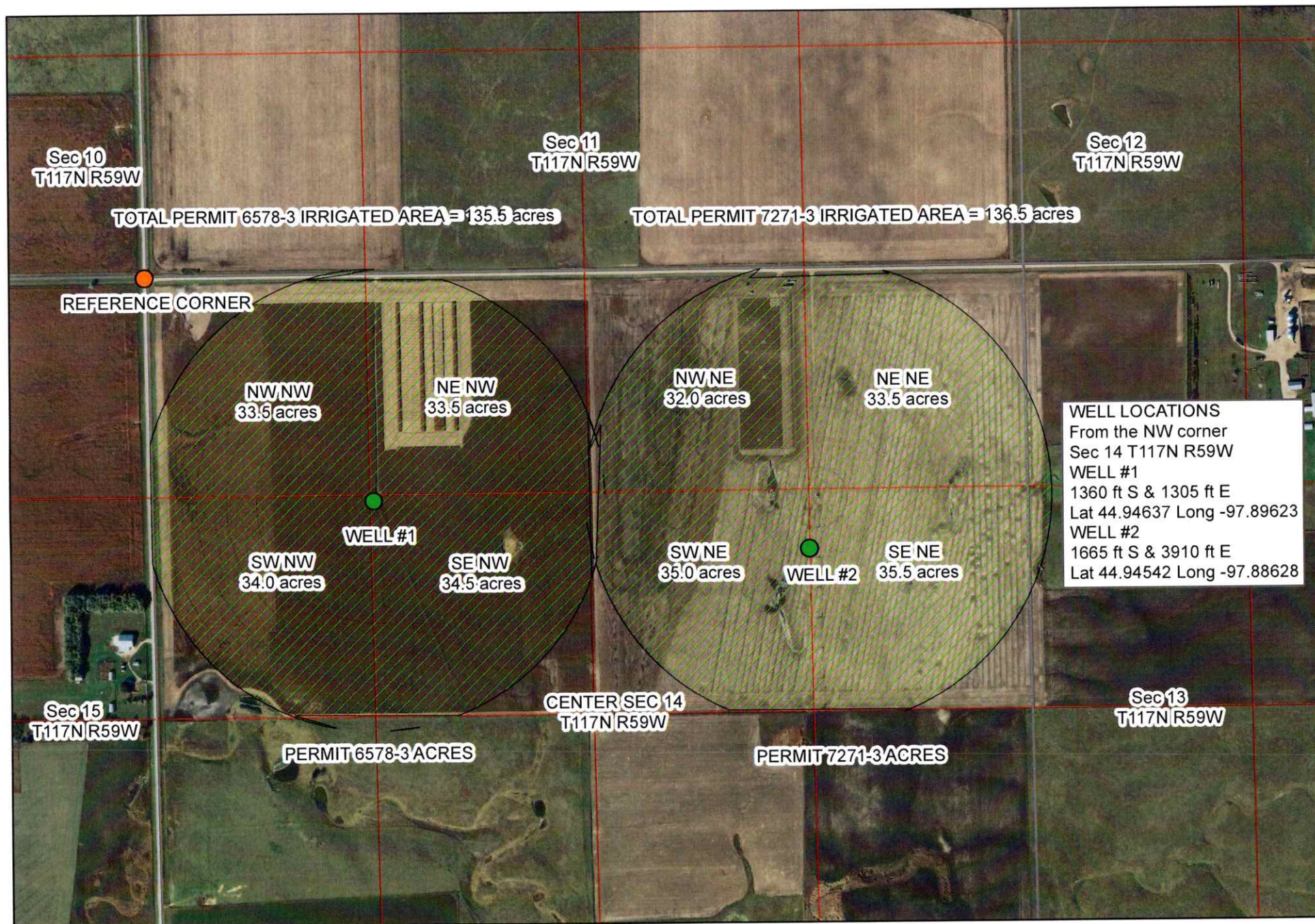
The mailing address in the permit materials is current but the telephone number is 605/881-5841.

I talked to Louis Fritz during the field inspection visit.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: June 20, 2023



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program

Approval of Location Change and/or Additional Diversion Point(s)NAME: Louis FritzADDRESS: 41725 168th St, Raymond SD 57258DATE: June 26, 2023COUNTY: Clark**GENERAL DESCRIPTION OF AUTHORIZED PROJECT:**

The permit holder is authorized to construct constructed one 183 foot deep well into the Altamont Aquifer in the center of the NW1/4 NE1/4 of Section 14 T117N-R59W for irrigation of 160 acres in the NE 1/4 of Section 14 T117N-R59W.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The permit holder constructed one 184 foot deep well into the Altamont Aquifer in the SW1/4 NE1/4 of Section 14 T117N-R59W

- **If irrigation, no new land is irrigated**

The permit holder is developed 136.5 acres in the NE1/4 of Section 14 T117N-R59W

- **Review of Existing Diversions**

There is one existing water permits/rights within two miles of where the this well was developed by other water permit holders. When this permit was issued, it was determined that there was reasonable probability any well interference due to pumping of this well would not adversely or unlawfully impair existing rights. The same would be expected for the well constructed in the new location.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion point(s) be licensed as developed.



Mark D. Rath, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.

Eric Gronlund, Chief Engineer
Water Rights Program