

**WATER PERMIT NO. 7113-3**

Name of Applicant: **Paul M Buckneberg**

Address: **45886 294<sup>th</sup> St, Centerville SD 57014**

Phone: **605 563-2434**

Amount of Water Claimed: **3.56 cfs**

Total Acres: **320**

Source of Water Supply: **groundwater (two wells)**

Water to be used for: **irrigation**

County: **Turner**

Type of Waste Disposal System: **NA**

Location: **4 miles west of Centerville**

**PRIORITY**

Date Received: **3-18-09**

Application/License Fee: **\$375**

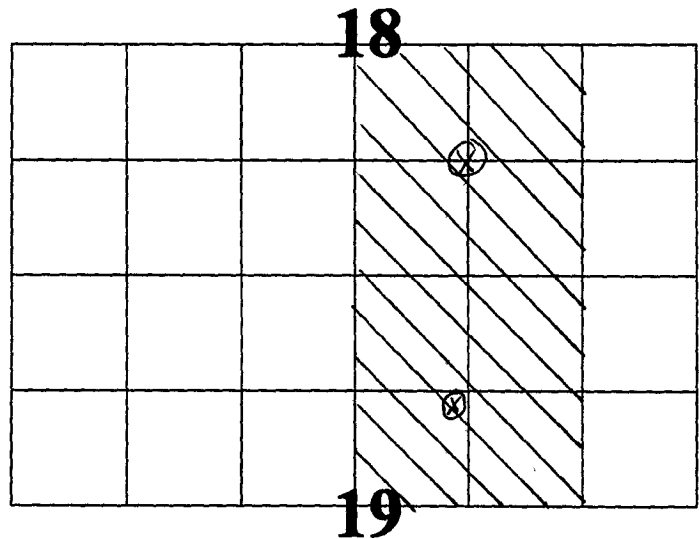
Corrected Application Received: **3-23-09**

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

Remarks:

Diversion Point: **SW ¼ NE ¼ Sec 19 and  
approximate center of SE ¼ Sec 18; all in T96N-  
R52W**

Land to be Irrigated: **NE ¼ Sec 19 and SE ¼ Sec  
18; all in T96N-R52W**



Depth of Well: **110 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by: **Edie Schoeneald, Turner Co. FSA**

Reviewed and the Number Assigned on: **3-23-09**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: \_\_\_\_\_

|                                                                                                                    |                                                                     |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Mail to:<br>Water Rights Program<br>Joe Foss Building<br>523 E. Capitol<br>Pierre, SD 57501-3181<br>(605) 773-3352 | No. <u>7113-3</u> (office use only) Hydrologic Unit <u>10120102</u> |
|                                                                                                                    | Basin <u>Vermillion River</u>                                       |
|                                                                                                                    | Newspaper <u>Centerville Journal</u>                                |
|                                                                                                                    |                                                                     |

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## Application For Permit To Appropriate Water For Irrigation

Type of Application: ☐ New ☐ Vested Right ☐ Amendment/Correction to Permit No. \_\_\_\_\_

(Use predates Mar 2, 1955)

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

- Name of Applicant PAUL Buckneberg Phone 605-563-2434  
 (check one) ☒ Owner ☐ Tenant/lessee  
 Mailing Address 45886 294<sup>th</sup> St. Centerville State S.D. 57014-6732  
 (Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 3.56 \*CFS or 800 \*\*GPM \*\*\*AF Total Acreage 320  
 (\*Cubic Feet per Second) (\*\*Gallons per Minute) (\*\*\*) Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply ground water 1 well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Turner  
2 wells in SW 1/4 NE 1/4 sec. 19 T-96-N R-52-W  
& approximate center SE 1/4 Sec 18 T96N R52W
- County or counties where water will be used Turner
- Annual period during which water is to be used April 1 - Oct. 31
- 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>NE 1/4 sec. 19 T-96-N R-52-W</u> | <u>160</u> |                  |       |
| <u>SE 1/4 sec. 18 T-96-N-R-52-W</u> | <u>160</u> |                  |       |
|                                     |            |                  |       |
|                                     |            |                  |       |

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

At this time, the plan is to put a well and pivot on sec. 19. In the near future to put a well and pivot on sec. 18. If water isn't available on sec. 18 we would pipe it from 19.

STATE OF SOUTH DAKOTA)

County of Turner

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, Paul Buckneberg, 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 Paul Buckneberg

Subscribed and sworn to before me this 16<sup>th</sup> day of March 20 09

Donald A. Mallon

Notary Public signature 8/25/12

**REISSUED  
SOUTH DAKOTA  
WATER PERMIT NO. 7113-3**

---

Date of first receipt of application March 18, 2009.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7113-3 to Paul M Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

**On February 24 and March 3, 2011, Water Permit No. 7113-3 was readvertised to indicate the Pleistocene Unknown as the correct water formation. The permit is being reissued to reflect the change.**

1. Water Permit No. 7113-3 appropriates 3.56 cubic feet of water per second from two wells to be completed into the Pleistocene Unknown Aquifer (approximately 95 feet deep) located in the SW 1/4 NE 1/4 Section 19 and the approximate center of the SE 1/4 Section 18 to irrigate 320 acres in the NE 1/4 Section 19 and SE 1/4 Section 18; all in T96N-R52W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is March 18, 2009.
4. The date of approval of Permit No. 7113-3 is June 1, 2009 (Readvertisement – March 14, 2011).
5. One-fifth of the construction is to be completed on or before December 1, 2011.
6. All construction is to be completed on or before June 1, 2014.
7. Water is to be put to beneficial use on or before June 1, 2018.
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 wells 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 wells authorized by Permit No. 7113-3 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

MAR 24 2011

date



**SOUTH DAKOTA  
WATER PERMIT NO. 7113-3**

Date of first receipt of application March 18, 2009.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7113-3 to Paul M Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 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. 7113-3 appropriates 3.56 cubic feet of water per second from two wells to be completed into the Niobrara Aquifer (approximately 110 feet deep) located in the SW 1/4 NE 1/4 Section 19 and the approximate center of the SE 1/4 Section 18 to irrigate 320 acres in the NE 1/4 Section 19 and SE 1/4 Section 18; all in T96N-R52W.
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.
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**WATER MANAGEMENT BOARD**

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

AUG 14 2009

date



**Supplemental Information**

(Complete applicable portions only)

(type or print in ink)

More info To be sent by Dick Hammond

**1. Well Information - Proposed Construction**

- a) Drill Hole Diameter 24" Depth 110'
- b) Casing Type PVC Diameter 16" Thickness  $\frac{3}{4}"$
- c) Screen Type PVC Diameter 16" Thickness  $\frac{3}{4}"$
- d) Gravel Pack  $\frac{1}{4} - \frac{3}{8}$  Pearls Length of Gravel Pack 60'
- e) Depth to Top of Water Bearing Material 30'
- f) Depth to Water (ground surface to water level) 30'
- g) Distance to nearest existing domestic well:
- On applicants property  $\frac{1}{4}$  mile On property owned by others  $\frac{3}{4}$  mile

**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

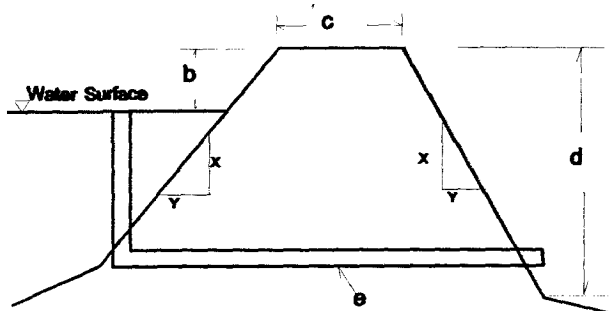
**3. Dugout Information**

- 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

## Automatic Irrigation Inc.



1111 Railway Street  
Centerville, SD 57014  
(605) 563-2649 office

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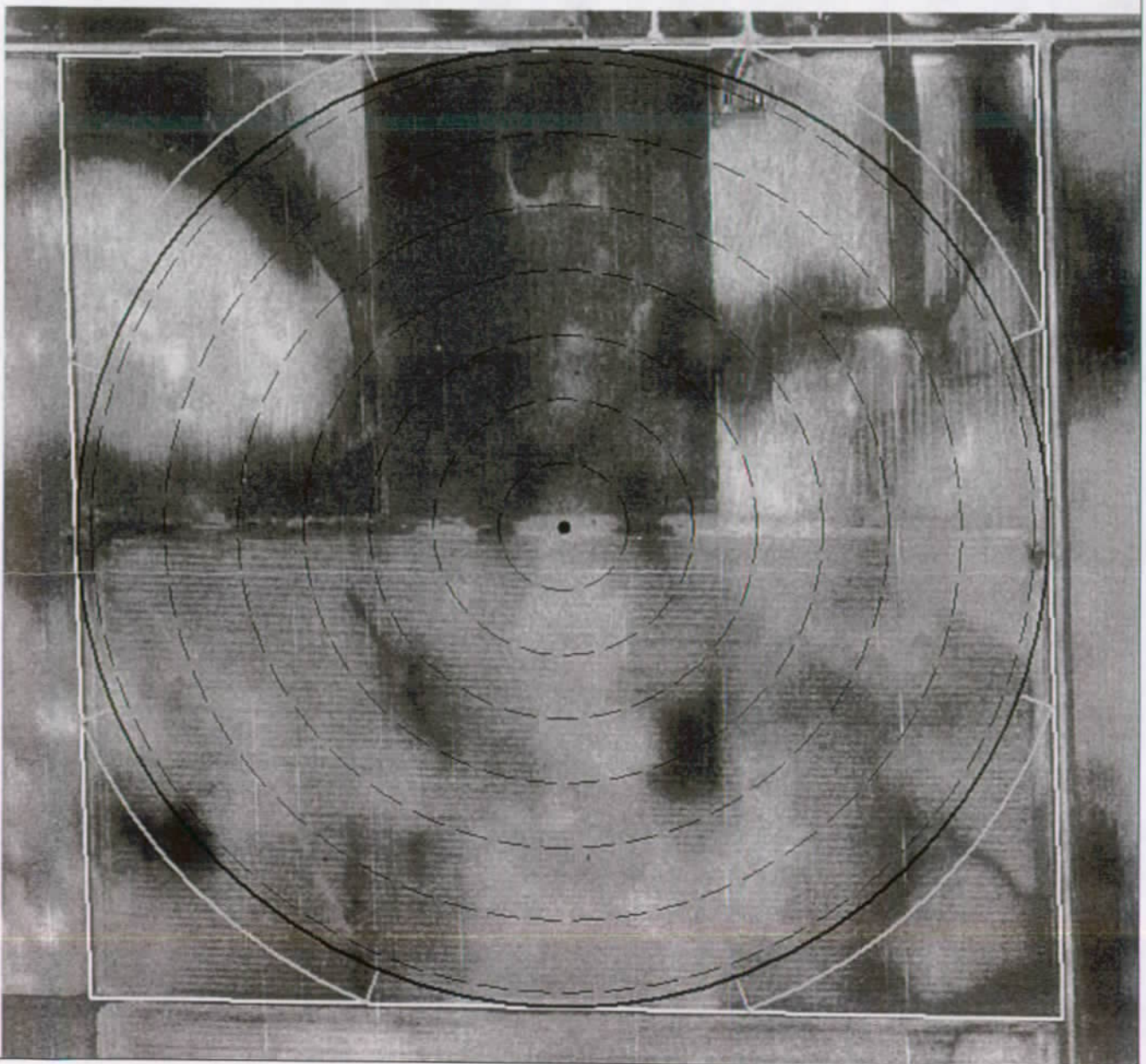
Farm: Centerville #2

Grower: Paul Buckneberg

*Sec. 19*

1/30/2008

| Systems:        | Length     | Spans                | Total area including endgun |
|-----------------|------------|----------------------|-----------------------------|
| ● Centerville 2 | 1335.17 ft | 7 spans + 33 ft o.h. | 139.06 acres                |



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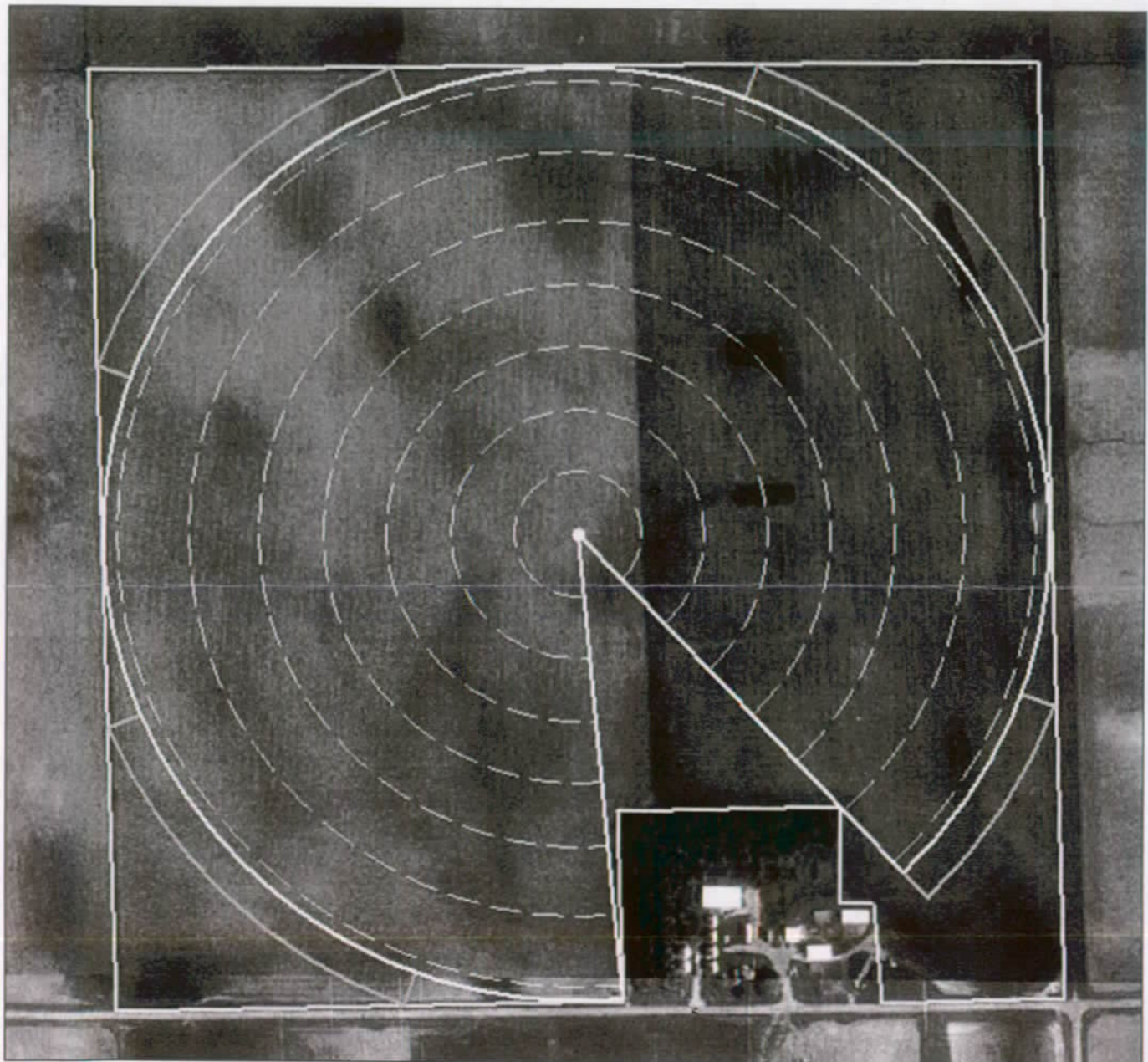
Farm: Centerville #1

Grower: Paul Buckneberg

*sec. 18*

1/30/2008

| Systems:        | Length     | Spans                | Total area including endgun |
|-----------------|------------|----------------------|-----------------------------|
| ○ Centerville 1 | 1335.17 ft | 7 spans + 33 ft o.h. | 124.24 acres                |



Edie Schoenwald, PT  
Turner County FSA 3/12/09



USDA - Farm Service Agency

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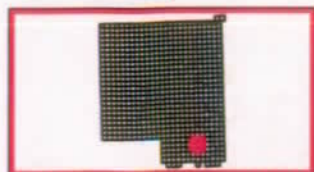
MAR 18 2009

18-96N-52W

WATER RIGHTS  
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1:8,676

March 19, 2008



### Legend

- Tract Boundaries
- Section-Township-Range
- Easements
- CRP
- Common Land Units
- Rangeland

### Wetland Determination Identifiers

- Restricted Use
- ▼ Limited Restrictions

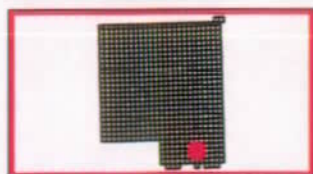


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Edie Schoenwald, PT  
Turner County FSA 3/12/09



USDA - Farm Service Agency



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**Turner County, SD**

19-96N-52W

1:8,741

March 19, 2008

### Legend

- Tract Boundaries
- Section-Township-Range
- Easements
- CRP
- Common Land Units
- Rangeland

### Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions



USDA FSA maps are for FSA Program administration only. There is no guarantee or representation to the user as to the accuracy, currency, suitability or reliability. FSA MAPS DO NOT REPRESENT A LEGAL SURVEY. The user accepts the data 'as is' and assumes all risks associated with its use. Wetland points reflect records available with NRCS and may or may not constitute a full inventory of the property. The USDA Farm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data.

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location ne  $\frac{1}{4}$  ne  $\frac{1}{4}$  Sec 19 Twp 096n Rg 52w

County

Turner

North

Please mark well  
location with an "X"

W

E

Well Completion Date

3/4/2009

1 Mile

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

? 1,100.0 ft. from septic tank (identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

Direct rotary

## CASING DATA:

☐ Steel ☐ Plastic ☐ Other
If other describe none

| PIPEWEIGHT | DIAMETER | FROM | TO | HOLE DIAMETER |
|------------|----------|------|----|---------------|
| LB/FT      | IN       | FT   | FT | IN            |
|            |          |      |    |               |
|            |          |      |    |               |
|            |          |      |    |               |

## GROUTING DATA:

| Grout Type | No. of Sacks | Grout Weight | From | To   |
|------------|--------------|--------------|------|------|
|            |              | Lb/gal       | Ft   | Ft   |
| Bent Grt   | 5            | 9.4          | 0.0  | 90.0 |
|            |              | Lb/gal       | Ft   | Ft   |

Describe grouting procedure  
through drill rods at TD

## SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter \_\_\_\_\_ Inches Length \_\_\_\_\_ Feet

Material \_\_\_\_\_

Slot Size \_\_\_\_\_ Set From \_\_\_\_\_ Feet to \_\_\_\_\_ Feet

Other information NA

## 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? NA
Lab sample sent to for  
water quality analysisWell Owner: Paul Buchneberg

Business Name: \_\_\_\_\_

Address: 45886 294th StreetCity, State, Zip: Centerville SD 57014

## WELL LOG:

DEPTH

| FORMATION                              | FROM | TO |
|----------------------------------------|------|----|
| Till, yellow brown, pebbly clay (till) | 0    | 29 |
| Sand, fine                             | 29   | 33 |
| clay, gray, pebbly, silty (till)       | 33   | 67 |
| gravel, med to coarse, sandy           | 67   | 81 |
| Siltstone, gray, calcareous (Kn)       | 81   | 90 |
| no water loss                          |      |    |
|                                        |      |    |
|                                        |      |    |
|                                        |      |    |

## STATIC WATER LEVEL

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:  
☐ Bailed  
☐ Other

Pumping Level Below Land Surface

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: \_\_\_\_\_ GPM

## REMARKS

Irrigation test hole, plugged and abandoned.

This well was drilled under license # 666

And this report is true and accurate.

Drilling firm: Hammond Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 3-27-09

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## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location sw  $\frac{1}{4}$  ne  $\frac{1}{4}$  Sec 19 Twp 096n Rg 52w

County

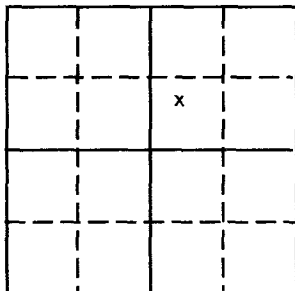
Turner

North

Please mark well location with an "X"

W

E



1 Mile

Well Completion Date

3/4/2009

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

? 1,700.0 ft. from septic tank (identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

Direct rotary

## CASING DATA:

☐ Steel ☐ Plastic ☐ Other
If other describe none

| PIPEWEIGHT | DIAMETER | FROM | TO | HOLE DIAMETER |
|------------|----------|------|----|---------------|
| LB/FT      | IN       | FT   | FT | IN            |
|            |          |      |    |               |
|            |          |      |    |               |
|            |          |      |    |               |

## GROUTING DATA:

| Grout Type | No. of Sacks | Grout Weight | From | To    |
|------------|--------------|--------------|------|-------|
|            |              | Lb/gal       | Ft   | Ft    |
| Bent Grt   | 5            | 9.4          | 0.0  | 100.0 |
|            |              | Lb/gal       | Ft   | Ft    |

Describe grouting procedure through drill rods at TD

## SCREEN:

☐ Perforated pipe ☐ Manufactured  
 Diameter \_\_\_\_\_ Inches Length \_\_\_\_\_ Feet  
 Material \_\_\_\_\_  
 Slot Size \_\_\_\_\_ Set From \_\_\_\_\_ Feet to \_\_\_\_\_ Feet  
 Other information NA

## 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? NA  
 Lab sample sent to for water quality analysis
Well Owner: Paul Buchneberg

Business Name:

Address: 45886 294th StreetCity, State, Zip: Centerville SD 57014

## WELL LOG:

| FORMATION                        | DEPTH |     |
|----------------------------------|-------|-----|
|                                  | FROM  | TO  |
| Till, yellow brown, pebbly clay  | 0     | 27  |
| till, yellow brown, pebbly       | 27    | 50  |
| Sand, coarse, pebbly             | 50    | 57  |
| gravel, med to coarse, sandy     | 57    | 96  |
| Siltstone, gray, calcareous (Kn) | 96    | 100 |
| moderate water loss              |       |     |
|                                  |       |     |
|                                  |       |     |
|                                  |       |     |

## STATIC WATER LEVEL

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:  
☐ Bailed  
☐ Other

Pumping Level Below Land Surface

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped

GPM

If pump installed, pump rate:

GPM

## REMARKS

Irrigation test hole, plugged and abandoned.

This well was drilled under license #

666

And this report is true and accurate.

Drilling firm: Hammond Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

3-27-09

RECEIVED  
MAR 30 2009  
WATER RIGHTS  
PROGRAM

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location ne  $\frac{1}{4}$  se  $\frac{1}{4}$  Sec 19 Twp 096n Rg 52w

County

Turner

North

Please mark well  
location with an "X"

W

E

Well Completion Date

3/3/2009

1 Mile

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

? 1,500.0 ft. from abandoned well (identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

Direct rotary

## CASING DATA:

☐ Steel ☐ Plastic ☐ Other
If other describe none

| 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       |
|------------|--------------|--------------|--------|----------|
| Bent Grt   | 5            | 9.4 Lb/gal   | 0.0 Ft | 102.0 Ft |
|            |              | Lb/gal       | Ft     | Ft       |

Describe grouting procedure  
through drill rods at TD

## SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter \_\_\_\_\_ Inches Length \_\_\_\_\_ Feet

Material \_\_\_\_\_

Slot Size \_\_\_\_\_ Set From \_\_\_\_\_ Feet to \_\_\_\_\_ Feet

Other information NA

## 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? NA
Lab sample sent to for  
water quality analysisWell Owner: Paul Buchneberg

Business Name: \_\_\_\_\_

Address: 45886 294th StreetCity, State, Zip: Centerville SD 57014

## WELL LOG:

DEPTH

| FORMATION                        | FROM | TO  |
|----------------------------------|------|-----|
| Till, reddish brown, pebbly clay | 0    | 35  |
| Gravel, fine to med, sandy       | 35   | 51  |
| Silt, dark gray,                 | 51   | 57  |
| gravel, med to coarse, sandy     | 57   | 62  |
| Siltstone, gray, calcareous (Kn) | 62   | 102 |
| slight water loss                |      |     |
|                                  |      |     |
|                                  |      |     |
|                                  |      |     |

## STATIC WATER LEVEL

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: \_\_\_\_\_

☐ Bailed

☐ Other

Pumping Level Below Land Surface

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: \_\_\_\_\_ GPM

## REMARKS

Irrigation test hole, plugged and abandoned.

This well was drilled under license # 666

And this report is true and accurate.

Drilling firm: Hammond Wetmore Drilling

Signature of License Representative:

*Richard A. Hurl*

Signature of Well Owner or Equitable Property Holder:

Date:

3-27-09

RECEIVED  
MAR 30 2009  
WATER RIGHTS  
PROGRAM

# RECEIPT

## WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/18, 20 09

RECEIVED OF Paul Buckneberg 45886 294th St Centerville SD 57014

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

|                                                                                                                        |       |        |
|------------------------------------------------------------------------------------------------------------------------|-------|--------|
| Fee for Application for Permit No. <u>7112-3</u> to Appropriate Water, to construct and to put water to beneficial use | 325   | 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 Work confirming beneficial use and issuing Water License No. <u>7112-3</u>              | 50    | 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 | 375 00 |

No.

04080

By

Leland Erbe  
Chief Engineer



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

March 19, 2009

Paul Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Thank you for submitting the three *Applications for a Permit to Appropriate Water* for irrigation in Turner and Clay counties. In order to complete the applications, the following is required.

- We have received your \$950 check for the application/license filing fees. Based on the acreage amounts you are proposing to irrigate, an addition \$50 will be required.
- Clarification is required regarding the application to irrigate the NE  $\frac{1}{4}$  Section 19 and SE  $\frac{1}{4}$  Section 18; all in T96N-R52W (copy included).

Under Item No. 4, you indicate 1 well to be located in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 19. Further down on the application you indicate, based on water availability, the possibility of drilling another well for the proposed pivot on Section 18. We suggest you apply for two wells on this application. If the application is amended for two wells, do you wish to request 800 gallons per minute from each well? The aerial map submitted has the proposed well location marked in the approximate center of Section 18. Let us know if you agree with these changes to the application? <sup>1/SE 1/4</sup>

If you have any questions, please contact me.

Sincerely,

Karen Schlaak  
Water Rights Program  
605 773-3352  
[karen.schlaak@state.sd.us](mailto:karen.schlaak@state.sd.us)

enclosure

## **Water Rights Program - File Documentation**

**NAME:** Paul M Buckneberg

**ADDRESS:** Centerville SD

**DATE:** 3-23-09      **COUNTY:** Clay and Turner      **TELEPHONE:** 605 563-2434

**RE:** Pending applications

### **COMMENTS:**

I called Paul Buckneberg about the proposed well depths on two of his three pending applications. Regarding the application in Clay County Section 17, Mr. Buckneberg indicated the proposed well depth would be 150 feet deep. This is information he received from Dick Hammond. Also, the well will be located in the approximate center of the SE ¼ Section 17.

Regarding the application in Turner County, Section 13, he indicated the proposed well depth will be 100 – 120 feet deep. Dick Hammond stated if they did not find water at this depth in this location, they could go to Dakota Formation. Based on economics, Mr. Buckneberg stated he wanted to go with the shallower well if possible.

I explained that if we advertise for the shallower formation and then the well is drilled into a deeper formation, he would have to make application for the deeper formation. Mr. Buckneberg indicated he understood this. He was hoping Dick Hammond could get there soon to drill the test holes.

*Karen Schlaak*

Karen Schlaak  
Environmental Scientist



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 7113-3, Paul M. Buckneberg**

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. 7113-3, Paul M Buckneberg, 45886 294<sup>th</sup> Street, Centerville SD 57014.

The Chief Engineer is recommending APPROVAL of Application No. 7113-3 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 wells 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 wells authorized by Permit No. 7113-3 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  
May 6, 2009

**NOTE:** An important consideration in developing an irrigation project is assessing the compatibility of the soils with the quality of the water to be used for irrigation. The staff report on this application indicates that the Niobrara Formation may not be well suited for irrigation due to its relatively high sodium-adsorption ratio. Reduced crop yield and damage to the soil structure may occur without proper irrigation management. A soil/water analysis and implementation of an irrigation management plan may prove valuable in successfully developing this irrigation project.

**Report on Water Permit Application No. 7112-3 & 7113-3  
for Paul Buckneberg  
March 30, 2009**

Application No. 7112-3 proposes to appropriate 800 gallons per minute (1.78 cfs) from one well approximately 110 feet deep to be completed into the Niobrara Formation aquifer located in the SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  Section 13 to irrigate 240 acres in the SW  $\frac{1}{4}$ , W  $\frac{1}{2}$  SE  $\frac{1}{4}$ , Section 13; all in T96N-R53W in Turner County. The annual period during which water will be used is April 1 through October 31.

Application No. 7113-3 proposes to appropriate 1,600 gallons per minute (3.56 cfs) from two wells approximately 110 feet deep to be completed into the Niobrara Formation aquifer located in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 19 and the approximate center of the SE  $\frac{1}{4}$  Section 18 to irrigate 320 acres in the NE  $\frac{1}{4}$  Section 19 and SE  $\frac{1}{4}$  Section 18; all in T96N-R52W in Turner County. The annual period during which water will be used is April 1 through October 31.

**AQUIFER: Niobrara Formation (NBRR)**

This report will address the availability of unappropriated water from the Niobrara Formation aquifer.

**WATER AVAILABILITY**

**Aquifer Characteristics:**

The Niobrara Formation underlies about 729 square miles and is estimated to contain 6.998 million acre-feet of water in storage in both Turner and Hutchinson counties (Hansen, 1990). The location for these applications is in area C as described in the Hansen Report and the direction of ground water movement is to the east. Predominant chemical constituents in water from the Niobrara aquifer are calcium, sodium, and sulfate. Dissolved-solids concentrations ranged from 560 to 2,490 mg/L and averaged 1,510 mg/L. Hardness concentrations ranged from 110 to 1,300 mg/L and averaged 650 mg/L. Predominant chemical constituents in water from most of area C were calcium and sulfate. Water from the Niobrara aquifer is used for stock watering, domestic, municipal, and irrigation purposes. Suitability of water from the aquifer for irrigation is limited to certain soil texture conditions because of its relatively high sodium-adsorption ratio (Hansen, 1990). The Niobrara aquifer appears to blend into the Parker Centerville aquifer directly to the east of these application locations.

### Observation Well Data:

The Water Rights Program monitors two observation wells, TU-57D (Parker Centerville aquifer) and TU-77M (Upper Vermillion Missouri aquifer), both located within three miles of these application locations. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years due to natural discharge and to pumping. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2008). The hydrographs for these observation wells are included with this report. The nearest Niobrara observation well is over ten miles to the northwest and no hydrograph for that well is included with this report. These hydrographs are included because they should represent water levels for the Niobrara aquifer in this area even though they are for wells in a different aquifer.

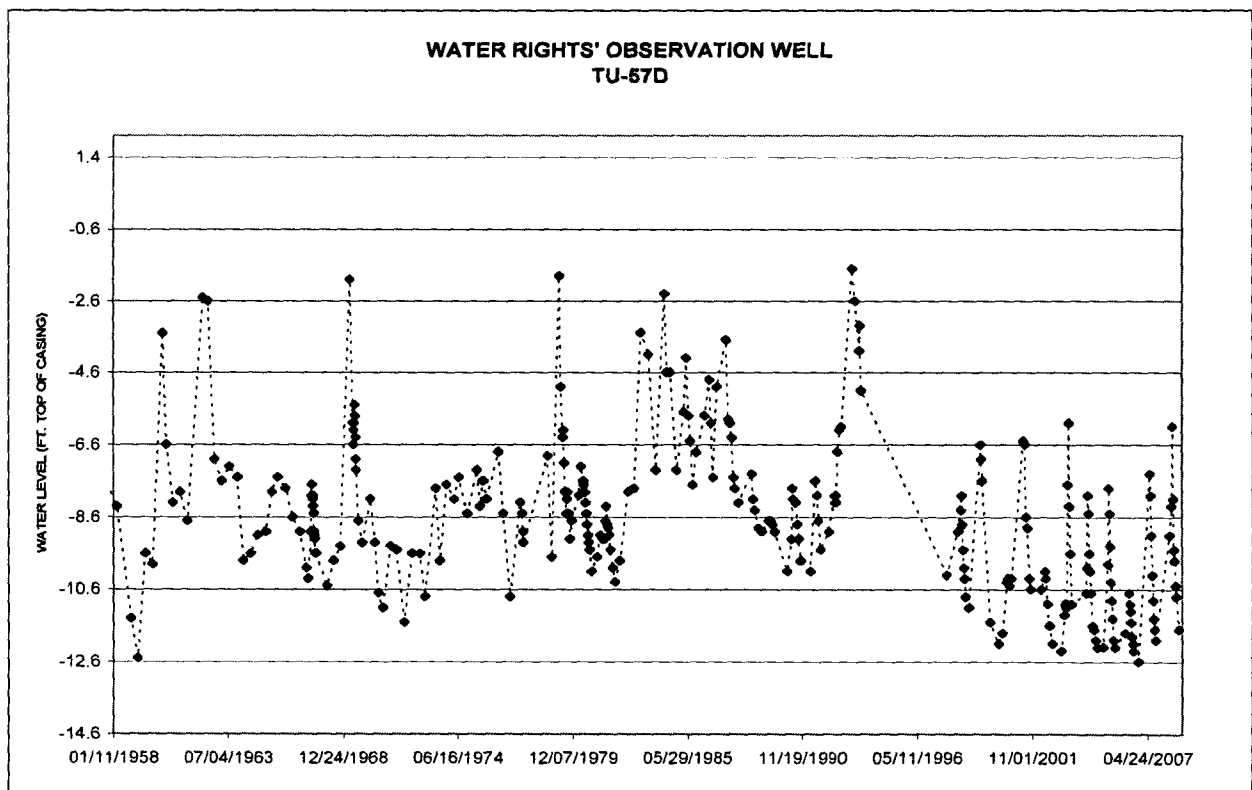


Figure 1. Hydrograph for Water Rights Observation Well TU-57D, completed into the Parker Centerville Aquifer within three miles of 7112-3 and 7113-3

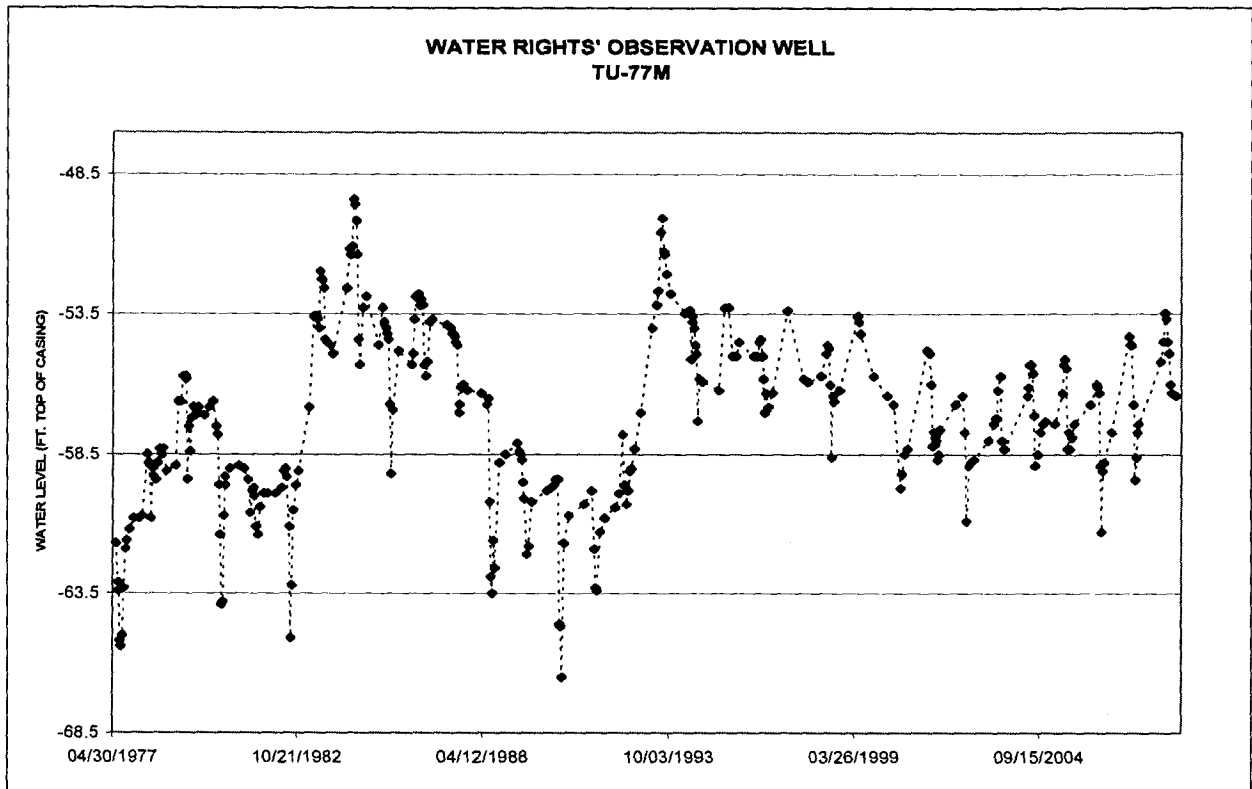


Figure 2. Hydrograph for Water Rights Observation Well TU-77M, completed into the Upper Vermillion Missouri Aquifer within three miles of 7112-3 and 7113-3

In general, the hydrographs show that over the period of record, withdrawals have not exceeded recharge.

### **Review of Existing Water Permits/Rights/Water Use:**

There are no other water permits in this area which obtain water from the Niobrara Formation aquifer. Interference should not be a problem.

### **Conclusions:**

1. Water is available from Niobrara Formation aquifer.
2. The aquifer appears to be under unconfined conditions at this location. The Niobrara is in all likelihood connected to the Parker Centerville aquifer just east of the application locations. It is not known how the Niobrara Formation aquifer will respond to pumping; well yields are not predictable. Actual production wells will need to be developed and pumped to answer yield and drawdown questions; however drawdown is not expected to be significant.
3. Water quality could be an issue. The water may not be suitable for irrigation. Suitability for irrigation is limited to certain soil texture conditions. It is recommended that the applicant make sure that the soil texture and water quality is compatible.

4. If the wells covered by these permits deplete the domestic supplies or interfere with prior water rights, restrictions, to the extent necessary, or the capacity of the wells or periods of operation or other arrangements may be required to protect these water supplies.
5. These wells must be constructed in accordance with SD Well Construction Standards.



Hayes Haas  
Natural Resources Engineer

**Bibliography:**

Lindgren, R.J., D.S. Hansen, 1990, Water Resources of Hutchinson and Turner Counties, South Dakota, Water Resources Investigations Report 90-4093, USGS, Huron, SD 57350

Water Rights, 2009, Unpublished Observation Well Data for the Niobrara Formation, SD DENR, DES, Water Rights Program, Pierre, SD, 57501

## AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA)

:SS

COUNTY OF TURNER )

Allyson M. Hill, being first duly sworn, on oath says the CENTERVILLE JOURNAL is a WEEKLY newspaper published in CENTERVILLE in said county of TURNER, State of South Dakota; and that she is authorized to and does make this affidavit on behalf of said CENTERVILLE JOURNAL; that affiant has personal knowledge of all facts stated in this affidavit; that said newspaper is a legal newspaper as defined by SDCL 17-2-2.1 through 17-2-2.4 inclusive as amended, has a bona fide circulation of at least two hundred copies WEEKLY, has been published in the English language within said county and has been admitted to the United States mail under the second class mailing privilege, for at last one year continuously 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 said notice, a printed copy of which taken from the paper in which the same was published is hereto attached and is made part of this affidavit, was published in said newspaper

2 time(s) as follows: that the first publication of said

notice in said newspaper aforesaid was on Thursday

the 14 day of May, 2009, 12:15

and that the succeeding publications were severally

on Thursday, the 21 day of May, 2009; 18:52

on Thursday, the \_\_\_ day of \_\_\_\_\_, 2009;

on Thursday, the \_\_\_ day of \_\_\_\_\_, 2009;

on Thursday, the \_\_\_ day of \_\_\_\_\_, 2009;

Affiant further says that the full amount of the fees charged for the publication of said notice inures to the benefit of the publishers of said newspaper; that no agreement of understanding for the division thereof has been made with any other person, that no part therefore has been agreed to be paid to any person whomsoever; and that the fees charged for the publication thereof are:

DOLLARS (\$) 41.67  
(x) Allyson M Hill Allyson M. Hill

Subscribed and sworn to before me this 30 day of

May, 2009

Notary Public  
My commission expires 11/14/2012

SHANE HILL



NOTARY PUBLIC  
SOUTH DAKOTA



## NOTICE OF APPLICATION NOS. 7112-3 and 7113-3 to Appropriate Water

Notice is given that Paul Buckneberg, 43886 294th St, Centerville SD 57014 has filed the following applications for a water permit.

Application No. 7112-3 proposes to appropriate 1.78 cubic feet of water per second (cfs) from one well to be completed into the Niobrara Aquifer (approximately 100-120 feet deep) located in SW 1/4 SW 1/4 Section 13 to irrigate 240 acres located in the SW 1/4, W 1/2 SE 1/4 Section 13; all in T96N-R53W.

Application No. 7113-3 proposes to appropriate 3.56 cfs from two wells to be completed into the Niobrara Aquifer (approximately 110 feet deep) located in the SW 1/4 NE 1/4 Section 19 and the approximate center of the SE 1/4 Section 18 to irrigate 320 acres in the NE 1/4 Section 19 and SE 1/4 Section 18; all in T96N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7112-3 and 7113-3 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 the applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 1, 2009.

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 these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

May 7, 2009

Centerville Journal  
PO Box H  
Centerville SD 57014

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 7112-3 & 7113-3 to Appropriate Water to be published twice. Please publish the first notice on May 14, 2009 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 Paul Buckneberg, 45886 294<sup>th</sup> St., Centerville SD 57014 (Ph # 605-563-2434).

**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-----

Nos. 7112-3 & 7113-3

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

Date \_\_\_\_\_

We are in receipt of your letter of May 7, 2009 enclosing Notice to Appropriate Water by Application Nos. 7112-3 & 7113-3 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](http://www.state.sd.us/denr)

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

May 7, 2009

Paul Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Water Permit Application Nos. 7111-3, 7112-3, and 7113-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice for 7111-3 has been sent to the Publisher of the Plain Talk printed at Vermillion SD (Ph #605-624-2695). A notice for 7112-3 and 7113-3 has been sent to the Centerville Journal printed at Centerville SD (Ph #605-563-2351). You will need to contact the newspapers and authorize publication of these notices. For your information, a copy of the notices, the recommendations of the Chief Engineer and reports on the applications are enclosed. Please review the notices prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspapers to authorize publication of your Notices and to arrange for payment. Early contact with the papers can eliminate delays. Upon receiving authorization, the publishers have been instructed to publish your notices once each week for two consecutive weeks. The newspapers have 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 recommendations, 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 May 14, 2009 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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NOTICE OF APPLICATION NOS. 7112-3 and 7113-3 to Appropriate Water

Notice is given that Paul Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 has filed the following applications for a water permit.

Application No. 7112-3 proposes to appropriate 1.78 cubic feet of water per second (cfs) from one well to be completed into the Niobrara Aquifer (approximately 100-120 feet deep) located in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  Section 13 to irrigate 240 acres located in the SW  $\frac{1}{4}$ , W  $\frac{1}{2}$  SE  $\frac{1}{4}$  Section 13; all in T96N-R53W.

Application No. 7113-3 proposes to appropriate 3.56 cfs from two wells to be completed into the Niobrara Aquifer (approximately 110 feet deep) located in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 19 and the approximate center of the SE  $\frac{1}{4}$  Section 18 to irrigate 320 acres in the NE  $\frac{1}{4}$  Section 19 and SE  $\frac{1}{4}$  Section 18; all in T96N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7112-3 and 7113-3 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 the applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 1, 2009.

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 these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

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[www.state.sd.us/denr](http://www.state.sd.us/denr)

AUG 14 2009

Paul M Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Enclosed are Water Permit Nos. 7111-3, 7112-3 and 7113-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems and have put the water to beneficial use. An investigation can then be scheduled so the water licenses 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

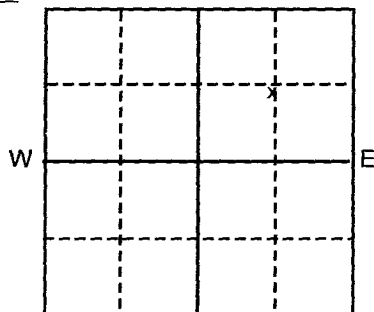
7113-3

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location sw 1/4 ne 1/4 Sec 19 Twp 096n Rg 52wCounty Clay

North

Please mark well  
location with an "X"

Well Completion Date

December 15, 2010

1 Mile

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

2,700.0 ft. from septic tank (identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

rotary

## CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

| PIPEWEIGHT | DIAMETER | FROM   | TO      | HOLE DIAMETER |
|------------|----------|--------|---------|---------------|
| LB/FT      | 16.00 IN | 0.0 FT | 55.0 FT | 22.00 IN      |
| LB/FT      | IN       | FT     | FT      | IN            |
| LB/FT      | IN       | FT     | FT      | IN            |

## GROUTING DATA:

| Grout Type | No. of Sacks | Grout Weight | From   | To      |
|------------|--------------|--------------|--------|---------|
| bent grout | 21           | 9.5 Lb/gal   | 0.0 Ft | 50.0 Ft |
|            |              | Lb/gal       | Ft     | Ft      |

Describe grouting procedure  
tremie

## SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 40.0 FeetMaterial pvcSlot Size .060 Set From 55.0 Feet to 95.0 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? bleach/water
☐ No, Why Not?
Lab to which water  
quality sample sent for analysisWell Owner: Paul Buchneberg

Business Name:

Address: 45866 294th StreetCity, State, Zip: Centerville SD 57014

## WELL LOG:

DEPTH

| FORMATION                  | FROM | TO |
|----------------------------|------|----|
| Clay, brown, pebbly        | 0    | 29 |
| Clay, gray brown, pebbly   | 29   | 52 |
| Gravel, fine to med, sandy | 52   | 96 |
|                            |      |    |
|                            |      |    |
|                            |      |    |
|                            |      |    |
|                            |      |    |
|                            |      |    |
|                            |      |    |
|                            |      |    |

STATIC WATER LEVEL 15.7 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:☐ Bailed☐ Other

Pumping Level Below Land Surface

26.5 Ft. After 3.0 Hrs. pumped 750.0 GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: \_\_\_\_\_ GPM

## REMARKS

RECEIVED

FEB - 4 2011

WATER RIGHTS  
PROGRAMThis well was drilled under license # 666 and this  
report is true and accurate.Drilling firm: Hammond Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

Dec 23, 2010

7113-3

Water Rights Program - DENR  
Conversation File Documentation

NAME OF PERSON OR FILE: Water Permit No. 7113-3, Paul Buckneberg

ADDRESS: 45886 294<sup>th</sup> Street, Centerville SD 57014 COUNTY: Turner

DATE: February 14, 2011 TELEPHONE:

RE: Water Source

Water Permit No. 7113-3 appropriates 3.56 cfs from two wells to be completed into the Niobrara Aquifer located in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 19 and the approximate center of the SE  $\frac{1}{4}$  Section 18 to irrigation 320 acres in the NE  $\frac{1}{4}$  Section 19 and SE  $\frac{1}{4}$  Section 18, T96N, R52W.

A well completion report was filed on February 4, 2011 for the well constructed in the NE  $\frac{1}{4}$  Section 19, T96N, R52W. Upon review of the report it is evident that the well is not completed into the the Niobrara Formation. After consulting with Jim Goodman he indicated that the source is best defined as Pleistocene Unknown.

The report on the application misidentified the intended source. Therefore readvertisement of the notice is required. This will be undertaken at the expense of DENR.

NAME: Eric Hunkler



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

February 16, 2011

Paul M Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Regarding our phone conversation yesterday, the original notice on Water Permit No. 7113-3 was published with an error. The well completion report filed on February 4, 2011 for the well constructed in the NE ¼ Section 19-T96N-R52W indicates the well was not completed into the Niobrara Formation as identified in the original notice. Therefore, the notice needs to be readvertised to indicate the Pleistocene Unknown as the correct water formation. The notice has been sent to the Centerville Journal to be published on February 24 and March 3, 2011. Enclosed is a copy of the notice .

The cost of publication of this notice will be paid by the Water Rights Program. Please contact us if you have any questions.

Sincerely,

Eric Gronlund  
Natural Resources Engineer  
(605) 773-3352  
[eric.gronlund@state.sd.us](mailto:eric.gronlund@state.sd.us)

enclosures



DEPARTMENT of ENVIRONMENT  
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February 16, 2011

Centerville Journal  
PO Box H  
Centerville SD 57014

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7113-3 to Appropriate Water to be published twice. Please publish the first notice on February 24, 2011 with the second publication 7 days later. The text of the notice has been emailed to you.

**Please BILL the Water Rights Program for the cost of publication.**

**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. 7113-3

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

Date \_\_\_\_\_

We are in receipt of your letter of February 16, 2011 enclosing Notice to Appropriate Water by Application No. 7113-3 which was first published in our issue of \_\_\_\_\_. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Newspaper

NOTICE OF APPLICATION NO. 7113-3 to Appropriate Water

Notice is given that Paul M Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 has filed an application for a water permit to appropriate 3.56 cubic feet of water per second from two wells to be completed into the Pleistocene Unknown Aquifer (approximately 95 feet deep) located in SW ¼ NE ¼ Section 19 and the approximate center of the SE ¼ Section 18 to irrigate 320 acres in the NE ¼ Section 19 and SE ¼ Section 18; all in T96N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7113-3 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 March 14, 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 \_\_\_\_\_.

RECEIVED

MAR 23 2011

WATER RIGHTS  
PROGRAM

**AFFIDAVIT OF PUBLICATION**

STATE OF SOUTH DAKOTA )

:SS

COUNTY OF TURNER )

Allyson M. Hill, being first duly sworn, on oath says the CENTERVILLE JOURNAL is a WEEKLY newspaper published in CENTERVILLE in said county of TURNER, State of South Dakota; and that she is authorized to and does make this affidavit on behalf of said CENTERVILLE JOURNAL; that affiant has personal knowledge of all facts stated in this affidavit; that said newspaper is a legal newspaper as defined by SDCL 17-2-2.1 through 17-2-2.4 inclusive as amended, has a bona fide circulation of at least two hundred copies WEEKLY, has been published in the English language within said county and has been admitted to the United States mail under the second class mailing privilege, for at last one year continuously 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 said notice, a printed copy of which taken from the paper in which the same was published is hereto attached and is made part of this affidavit, was published in said newspaper

2 time(s) as follows: that the first publication of said

notice in said newspaper aforesaid was on Thursday

the 24 day of February, 2011,

and that the succeeding publications were severally

on Thursday, the 3 day of March, 2011;

on Thursday, the \_\_\_\_ day of \_\_\_\_\_, 2011;

on Thursday, the \_\_\_\_ day of \_\_\_\_\_, 2011;

on Thursday, the \_\_\_\_ day of \_\_\_\_\_, 2011;

Affiant further says that the full amount of the fees charged for the publication of said notice inures to the benefit of the publishers of said newspaper; that no agreement of understanding for the division thereof has been made with any other person, that no part therefore has been agreed to be paid to any person whomsoever; and that the fees charged for the publication thereof are:

DOLLARS (\$) 37<sup>44</sup>

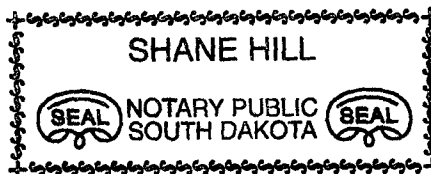
(x) Allyson M. Hill Allyson M. Hill

Subscribed and sworn to before me this 15 day of

March, 2011

Notary Public

My commission expires 11/14/2012.



## Public Notices

Because the  
people must know.



### NOTICE OF APPLI- CATION NO. 7113-3 to Appropriate Wa- ter

Notice is given that Paul M Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 has filed an application for a water permit to appropriate 3.56 cubic feet of water per second from two wells to be completed into the Pleistocene Unknown Aquifer (approximately 95 feet deep) located in SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 19 and the approximate center of the SE  $\frac{1}{4}$  Section 18 to irrigate 320 acres in the NE  $\frac{1}{4}$  Section 19 and SE  $\frac{1}{4}$  Section 18; all in T96N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7113-3 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 March 14, 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 \$37.44

March 24, 2011

PAYMENT REQUEST FORM

PAYEE: Centerville Journal  
PO Box H  
Centerville SD 7014

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

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Publishing of Water Permit # 7113-3 Buckneberg public notice

AMOUNT: \$37.44

FUNDING SOURCE:

GENERAL: X

FEDERAL:

COMMENTS:

AUTHORIZATION:

Darrel C. C. 3/24/11

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federal assistance programs.



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

MAR 24 2011

Paul M Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Enclosed is Reissued Water Permit No. 7113-3. The permit was readvertised to indicate the Pleistocene Unknown as the correct water formation. The permit is being reissued to reflect the change.

A voucher is being processed for payment of the Notice published in the Centerville Journal on February 24<sup>th</sup> and March 3<sup>rd</sup>.

If you have any questions, please contact this office.

Sincerely,

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

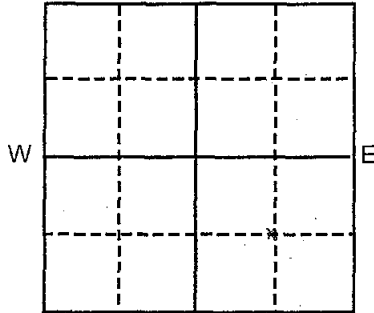
enclosure

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location nw 1/4 se 1/4 Sec 18 Twp 96n Rg 52wCounty turner

North

Please mark well  
location with an "X"

W

E

1 Mile

Well Completion Date

7/12/12

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?  
1,500.0 ft. from septic tank (Identify source)

## PROPOSED USE:

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

## METHOD OF DRILLING:

bucket

## CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

| PIPEWEIGHT | DIAMETER | FROM   | TO      | HOLE DIAMETER |
|------------|----------|--------|---------|---------------|
| LB/FT      | 16.00 IN | 0.0 FT | 50.0 FT | 24.00 IN      |
| LB/FT      | IN       | FT     | FT      | IN            |
| LB/FT      | IN       | FT     | FT      | IN            |

## GROUTING DATA:

| Grout Type | No. of Sacks | Grout Weight | From   | To      |
|------------|--------------|--------------|--------|---------|
| bentonite  | 18           | Lb/gal       | 0.0 Ft | 40.0 Ft |
|            |              | Lb/gal       | Ft     | Ft      |

Describe grouting procedure  
tremie method

## SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 InchesLength 30.0 FeetMaterial pvcSlot Size .060 Set From 50.0 Feet to 80.0 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? NA
Lab to which water  
quality sample sent for analysisWell Owner: Paul Buchneberg

Business Name:

Address: 45866 294th StreetCity, State, Zip: Centerville SD 57014

## WELL LOG:

## DEPTH

| FORMATION                              | FROM | TO |
|----------------------------------------|------|----|
| Silt, clayey, brown, Loess?            | 0    | 4  |
| Clay, brown, silty, pebbly, Till       | 4    | 34 |
| Clay, gray, silty, pebbly, till        | 34   | 48 |
| gravel, med to coarse, sandy           | 48   | 79 |
| siltstone, gray, calcareous (Niobrara) | 79   | 80 |
|                                        |      |    |
|                                        |      |    |
|                                        |      |    |
|                                        |      |    |

STATIC WATER LEVEL 23.0 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 development, 2 hours☐ Bailed☒ Other

Pumping Level Below Land Surface

31.0 Ft. After 2.0 Hrs. pumped 825.0 GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: 800.0 GPM

## REMARKS

RECEIVED

FEB - 1 2013

WATER RIGHTS  
PROGRAMThis well was drilled under license # 666 and this  
report is true and accurate.Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 12-12-12

**Water Permit Nos. 7112-3 and 7113-3**  
**Turner County**

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

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

I have this day, June 23, 2015 made a thorough examination of the water systems used by the Paul Buckneberg, 45886 294<sup>th</sup> St., Cerverville, SD 57014, holder of Water Permit Nos. 7112-3 and 7113-3, both bearing the priority date of March 18, 2009. Water Permit No. 7112-3 authorizes the diversion of 1.78 cubic feet per second (cfs) or 800 gallons per minute (gpm) from one well completed into the Niobrara aquifer for the purpose of irrigating 240 acres in Turner County as follows: 40 acres in the NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, 40 acres in the NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, 40 acres in the NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 13, 40 acres in the SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 13, 40 acres in the SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, and 40 acres in the SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, all in T96N-R53W.

Water Permit No. 7113-3 authorizes the diversion of 3.56 cubic feet per second (cfs) or 1,600 gallons per minute (gpm) from two wells completed into the Niobrara aquifer for the purpose of irrigating 320 acres in Turner County as follows: 40 acres in the NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 18, 40 acres in the NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 18, 40 acres in the SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 18, 40 acres in the SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 18, 40 acres in the NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 19, 40 acres in the NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 19, 40 acres in the SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 19, and 40 acres in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 19, all in T96N-R52W.

Since the initial approval of Water Permit Nos. 7112-3 and 7113-3, Paul Buckneberg has chosen to use the two wells associated with 7113-3 to supply the two pivots in Section 13, T96N-R53W authorized by 7112-3 in addition to the two pivots in Sections 18 and 19, T96N-R52W authorized by 7113-3.

On July 9, 2015 Water Permit No. 7112-3 was re-advertised to add a well, correct the well location, and to properly identify the source as the Pleistocene Unknown aquifer.

I have the following conditions to report for the system in question:

- 1) Works used to divert water:  
**Two American Marsh pumps at well sites and one Berkeley booster pump.**
- 2) Works used to transport water to a place of use:  
**Underground and above ground pipes, 8 inch diameter.**
- 3) Works used to apply water to beneficial use:  
**Two Zimatic Pivots (7112-3) and two Growsmart Pivots (7113-3).**

The system is in the following condition: well maintained. The wells associated with Water Permit Nos. 7112-3 and 7113-3 are located in the approximate center of the SE  $\frac{1}{4}$  of Section 18 and the NE  $\frac{1}{4}$  of Section 19, both in T96N-R52W. The exact locations the wells are as follows:

- 1) **1,300 feet north and 1,300 feet west of the southeast corner of Section 18, T96N-R52W.  
Lat 43.13049N Lon 97.02740W.**
- 2) **1,300 feet south and 1,300 feet west of the northeast corner of Section 19, T96N-R52W.  
Lat 43.12293N Lon 97.02733W.**

The lands irrigated by the fore mentioned well are as follows:

- 1) 37 acres in the NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, T96N-R53W. (7112-3)
- 2) 38 acres in the NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 13, T96N-R53W. (7112-3)
- 3) 27 acres in the NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 13, T96N-R53W. (7112-3)

- 4) 30 acres in the SW ¼ SE ¼ of Section 13, T96N-R53W. (7112-3)
- 5) 38 acres in the SE ¼ SW ¼ of Section 13, T96N-R53W. (7112-3)
- 6) 37 acres in the SW ¼ SW ¼ of Section 13, T96N-R53W. (7112-3)
- 7) 37 acres in the NW ¼ SE ¼ of Section 18, T96N-R52W. (7113-3)
- 8) 37 acres in the NE ¼ SE ¼ of Section 18, T96N-R52W. (7113-3)
- 9) 27 acres in the SE ¼ SE ¼ of Section 18, T96N-R52W. (7113-3)
- 10) 37 acres in the SW ¼ SE ¼ of Section 18, T96N-R52W. (7113-3)
- 11) 37 acres in the NW ¼ NE ¼ of Section 19, T96N-R52W. (7113-3)
- 12) 37 acres in the NE ¼ NE ¼ of Section 19, T96N-R52W. (7113-3)
- 13) 37 acres in the SE ¼ NE ¼ of Section 19, T96N-R52W. (7113-3)
- 14) 37 acres in the SW ¼ NE ¼ of Section 19, T96N-R52W. (7113-3)

**207 acres irrigated under Water Permit No 7112-3 and 286 acres irrigated under Water Permit No. 7113-3 for a total of 493 acres.**

License should be issued for the developed diversion rates of: **1.78 cfs or 800 gpm (7112-3) and 3.56 cfs or 1,600 gpm (7113-3). The combined diversion rate is 5.34 cfs or 2,400 gpm.**

Applicable permit qualifications have been complied with: **Yes**

Exceptions to compliance are: **None**

Date Report Completed: **June 30, 2015**



Bracken Capen  
Natural Resources Engineer  
DENR, Water Rights Program



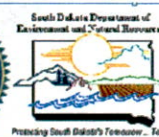
## Legend

- Distribution Lines
- Irrigated Acres
- Section Boundaries - PLSS
- Well Locations
- Booster Pump



0 0.075 0.15 0.3 Miles

Prepared by Bracken Capen  
Natural Resources Engineer  
DENR, Water Rights Program



**FIELD INVESTIGATION REPORT FOR WATER PERMIT NOS.  
7112-3 and 7113-3**

|                                                                                          |                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE OF INVESTIGATION:                                                                   | June 23, 2015                                                                                                                                                                                                                                          |
| NAME & ADDRESS OF PERMIT HOLDER                                                          | Paul Buckneberg<br>45886 294 <sup>th</sup> St.<br>Certerville, SD 57014                                                                                                                                                                                |
| NAME & ADDRESS OF INVESTIGATION CONTACT/<br>RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE | Paul Buckneberg                                                                                                                                                                                                                                        |
| DIVERSION POINT LEGAL LOCATIONS                                                          | 1,300 feet north and 1,300 feet west of the<br>southeast corner of Section 18, T96N-R52W.<br>Lat 43.13049N Lon 97.02740W.<br>1,300 feet south and 1,300 feet west of the<br>northeast corner of Section 19, T96N-R52W.<br>Lat 43.12293N Lon 97.02733W. |

**WELL INFORMATION:**

- 1) Well Drilling Firm:  
**Hammond Wetmore Drilling**
- 2) Number of Wells: **2**
- 3) Depth: **80, 95 feet**
- 4) Well Logs Available: **Yes**
- 5) Comment:

**Pumps**

- 1) Make: **American Marsh (x2) and 1 Berkeley booster pump.**
- 2) Model: **12KS (American Marsh)**
- 3) Size:
- 4) Capacity: **800 gpm or 1.78 cfs (x2)**

**Casing**

- 1) Diameter: **16 inches**
- 2) Length: **50, 55 feet**
- 3) Type: **Plastic**

**Screen**

- 1) Type: **Manufactured**
- 2) Length: **30, 40 feet**
- 3) Static Water Level: **23, 15.7 feet**

**Motor**

- 1) Make:
- 2) Model No:
- 3) Power: **80 hp (x2)**

**System Type**

- 1) Make: **Growsmart Pivot (x2, 7113-3) Zimmatic Pivot (x2, 7112-3)**
- 2) Overall length: **1,300 feet**
- 3) Number of Towers: **7 towers (x2, 7113-3) 7 and 6 towers (x2, 7112-3)**
- 4) Distance Between Towers:
- 5) End Gun: **Yes for all**
- 6) Pressure:
- 7) Capacity: **800 gpm (x2, 7113-3) 1,100 gpm (x2, 7112-3)**

**CHEMIGATION EQUIPMENT: No**

- 1) Mainline Check Valve:
- 2) Low Pressure Drain:
- 3) Inspection Port/Air Relief:
- 4) Discharge 20 Feet Away:
- 5) Injection Line Check Valve or Positive Displacement Pump:
- 6) Injection Check Valve:
- 7) Properly Installed:

**PERMIT QUALIFICATIONS:**

- 1) Special qualifications to permit being abided by: **N/A**
- 2) All structures, wells, and lands on map: **Yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period: **Yes, 7112-3 reported irrigation in 2014 and 7113-3 reported irrigation from 2011 to present.**

**COMMENTS:** The capacity of the pivots authorized by Water Permit No 7112-3 is greater than the maximum authorized diversion rate.



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

[denr.sd.gov](http://denr.sd.gov)

7112-3, 7113-3

**AUG 17 2015**

Paul M Buckneberg  
45886 294<sup>th</sup> St  
Centerville SD 57014

Dear Mr. Buckneberg:

Enclosed is Reissued Water Permit No. 7112-3, Water License No. 7112-3, and 7113-3. These are the final water right documents completing your process of obtaining a Water Right. Also, included with the licenses is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right Nos. 7112-3 and 7113-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

# STATE OF SOUTH DAKOTA

## WATER LICENSE NO. 7113-3

(1) Paul M Buckneberg, 45886 294<sup>th</sup> St, Centerville SD 57014 made Application No. 7113-3, March 18, 2009 for a water permit to divert 3.56 cubic feet of water per second from groundwater (two wells - Niobrara Aquifer), Turner County, South Dakota for irrigation purposes. Permit No. 7113-3, with a priority date of March 18, 2009 was approved June 1, 2009 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 1, 2014 and for the application to beneficial use of water on or before June 1, 2018.

On February 24 and March 3, 2011, Water Permit No. 7113-3 was readvertised to properly identify the water source as the Pleistocene Unknown Aquifer.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 7113-3 is issued a license, bearing a priority date of March 18, 2009 to appropriate 3.56 cubic feet of water per second from groundwater (2 wells - Pleistocene Unknown Aquifer) to irrigate 286 acres.

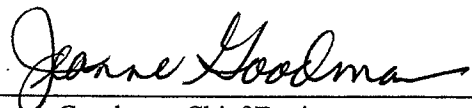
The diversion points are located: 1,300 feet north and 1,300 feet west of the southeast corner of Section 18-T96N-R52W (approximate center of SE 1/4) and 1,300 feet south and 1,300 feet west of the northeast corner of Section 19-T96N-R52W (approximate center of the NE 1/4). ***Water License No. 7112-3 authorizes irrigation from the same two wells.***

The acres authorized for irrigation are as follows:

| Section 18-T96N-R52W |          | Section 19-T96N-R52W |          |
|----------------------|----------|----------------------|----------|
| NW 1/4 SE 1/4        | 37 acres | NW 1/4 NE 1/4        | 37 acres |
| NE 1/4 SE 1/4        | 37 acres | NE 1/4 NE 1/4        | 37 acres |
| SE 1/4 SE 1/4        | 27 acres | SE 1/4 NE 1/4        | 37 acres |
| SW 1/4 SE 1/4        | 37 acres | SW 1/4 NE 1/4        | 37 acres |
| Total 286 acres      |          |                      |          |

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Reissued Water Permit No. 7113-3 including the following qualifications:

- The wells 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.
- The wells authorized by Permit No. 7113-3 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. ***The wells were drilled by Hammond-Wetmore Drilling. Copies of the logs are on file with the Water Rights Program.***
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

**AUG 17 2015**

date





**DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES**

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

October 29, 2024

1916-3, 3245-3  
7112-3 & 7113-3

Paul Buckneberg  
110 Florida St  
Centerville SD 57014

Dear Mr. Buckneberg:

Enclosed is a "Notice" dated October 23, 2024, concerning the 2024 Irrigation Questionnaire.

The notice was originally mailed to 45886 294<sup>th</sup> St, Centerville SD 57014. The post office notified our office that your address has changed, and your records have been updated accordingly.

This is a time sensitive matter. Please complete and return the enclosed questionnaires or submit your reports online at <https://danr.sd.gov/iq/> using this password VBIBCD.

If this change of address is in-correct, please contact our office immediately to update your contact information.

Sincerely,

Amanda Dewell  
Permitting Administrator  
Water Rights Program  
605 773-3352  
Amanda.Dewell@state.sd.us

*enclosures*

RETURN TO SENDER 118142416618/23/24  
PIERRE SD 57501-3182  
CENTERVILLE SD 57014-2151

RETURN TO SENDER