

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7257-3 and 7065-3

I have this day, July 27, 2021, made a thorough examination of the water use system constructed by James Amdahl, 14962 453rd Ave, Summit, SD 57266 of Permit No. 7257-3, bearing the priority of June 10, 2011, authorizing the diversion of 3.00 cu. ft. per second of the waters of the Big Sioux North Aquifer and Water Permit No. 7065-3, bearing a priority date of September 11, 2008 authorizing the diversion of 3.78 cfs from the Prairie Coteau Aquifer for irrigation purposes, in Grant County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Wieber Well Drilling (3 shallow wells) and Empire Drilling (old deep well)
- 2) No. of Wells 4 (1 deep & 3 shallow)
- 3) Depth(s) 170 & 48-78 feet
- 4) Well log is available Y

Casing: (Shallow wells)

- 1) Diameter 12 inches
- 2) Length 20 feet
- 3) Type Plastic

Screen:

- 1) Type PVC – Ever-flo
- 2) Length 20 feet
- 3) Static water level 10-16 feet

Pump:

- 1) Make Franklin
- 2) Model (two wells in SE ¼) 550ST8 and 225ST8
- 3) Capacity 775 GPM (Well #1 & 2 combined supply SE pivot)

According to pump record supplied by Wieber Well Drilling, the pump setting for Well #1 is 138' with a pumping rate of 225 gpm; the pump setting for Well #2 is 42' pumping at a rate of 550 gpm.

- 4) Capacity 775 GPM (Well #3 (225 gpm) & #4 (550 gpm) combined supply NE pivot)

Motors:

- 1) Horsepower rating 20-40 hp

B. Works used to transport water to place of use: Buried pipelines**C. Works used to apply water to beneficial use:****Center pivot:**

- 1) Make Valley (2)
- 2) Overall length 1320 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 775 (SE ¼) & 775 (NE ¼) GPM

Chemigation Equipment:

- 1) Does chemigate N

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: From the SE corner Sec 33 T121N R 52W; WELL #1: 1475 ft N & 1320 ft W, Lat 45.21386 Long -97.16950 (NE ¼ SE ¼ Sec 33) WELL #2: 1450 ft N & 135 ft W, Lat 45.21389 Long -97.16500 (NE ¼ SE ¼ Sec 33) WELL #3: 2735 ft N & 30 ft W, Lat 45.21741 Long -97.16491 (SE ¼ NE ¼ Sec 33) WELL #4: 4395 ft N & 40 ft W, Lat 45.22198 Long -97.16487 (NE ¼ NE ¼ Sec 33).
2. The works are capable of diverting and conveying to the place of use 3.45 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:

NE ¼ Section 33, T121N, R52W (128 acres)

SE ¼ Section 33, T121N, R52W (128 acres)

Total 256 acres

The pivots are operated as two separate systems with two wells used for each pivot. The NE ¼ is irrigated with 2 shallow wells (#'s 3 & 4); The SE ¼ is irrigated using one shallow well and one deep well (#'s 1 & 2)

3. All structures, wells and lands on map Y

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

The irrigated acreage was determined using FSA maps and the ArcMAP software.

Additional permit details can be found in Permit 7065-3 materials. This permit provides for additional wells to be constructed over and above those authorized in Permit 7065-3.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: August 12, 2021

Water Licenses will be issued as follows:

7257A-3 for NE ¼ Section 33, T121N, R52W – 1.73 cfs (775 gpm) Well Nos. 3 & 4

7257B-3 for SE ¼ Section 33, T121N, R52W – 1.73 cfs (775 gpm) Well Nos. 1 & 2

Upon licensing, the applicable portions of Water Permit No. 7065-3 will be incorporated into 7257B-3.

Genny McMath

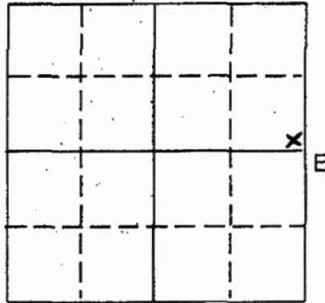
7257A-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 1/4 NE 1/4 Sec 33 Twp 121-N Rg 52-WCounty
Grant

North

Please mark well
location with an "X"

Well completion Date

5/30/12

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

5000 ft. from Septic (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>200 LB/FT</u>	<u>12 IN</u>	<u>0 FT</u>	<u>58 FT</u>	<u>17 1/2 IN</u>
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>quick-grout</u>	<u>6</u>	<u>10 Lb/gal</u>	<u>0 Ft</u>	<u>8 Ft</u>
		Lb/gal	Ft	Ft

Describe grouting procedure Full hole top to bottom

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 12" Inches Length 20' Feet
Material PVC Ever-FlowSlot Size 100 Set From 58 Feet to 78 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?Lab sample sent to for
water quality analysis ☒ No, Why Not?Well Owner: Jim Andahl

Business Name:

Address1:

14997 453 AVE, Summit, S.D.

Address2:

City, State, Zip:

WELL LOG:

DEPTH

FORMATION

FROM

TO

top soil02yellow clay215Blue clay1530clay3040sandy clay4050SAND medium coarse5078

STATIC WATER LEVEL

16

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?

yes

WELL TEST DATA:

☐ Pumped

Describe:

Air line☐ Bailed☒ Other

Pumping Level Below Land Surface

19'

Ft. After

2

Hrs. pumped

120

GPM

Ft. After

2

Hrs. pumped

120

GPM

If pump installed, pump rate:

225

GPM

REMARKS

South well of 2 well on 1/4"5" observation well 15 East of production well
same formation of production well well

This well was drilled under license #

480

And this report is true and accurate.

Drilling firm:

Wieber Well Drilling

Signature of License Representative:

Jerry Wieber

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date:

1/30/13

FEB - 5 2013

Please return WHITE COPY to: DENR Water Rights, 523 E. Capitol Ave., Pierre SD 57501

WATER RIGHTS
PROGRAM

SOUTH DAKOTA WATER WELL COMPLETION REPORT

7257A-3

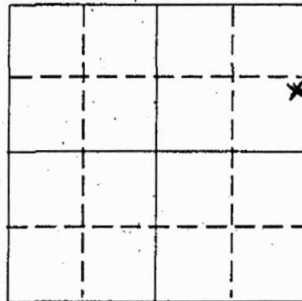
Location SE 1/4 NE 1/4 Sec 33 Twp 121-N Rg 52W

Well Owner: Jim Amdahl

County Graut

North

Please mark well location with an "X"



Well completion Date

5/30/12

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

? 5000 ft. from Septic (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
200 LB/FT	12" IN	0 FT	28 FT	17 3/8 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
wik-growt	6	10 Lb/gal	0 Ft	8 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure Full hole grouting

SCREEN:

- ☐ Perforated pipe ☒ Manufactured

Diameter 12" Inches Length 20 Feet

Material PVC Eper-Flo

Slot Size 110 Set From 23 Feet to 48 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?

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

Business Name:

Address1: 14997 453 AVE, Summit, S.D.

Address2:

City, State, Zip:

WELL LOG:

DEPTH

FORMATION	FROM	TO
Black top soil	0	2
yellow clay	2	10
gravel medium	10	20
gravel coarse	20	30
gravel very coarse	30	48

STATIC WATER LEVEL

16'

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?

yes

WELL TEST DATA:

☐ Pumped

Describe:

Air-line

☐ Bailed

☒ Other

Pumping Level Below Land Surface

17

Ft. After

2

Hrs. pumped

100

GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate:

550

GPM

REMARKS

NORTH well of two on 1/4

5" observation well 10' north of well
same formation as production well

This well was drilled under license #

480

And this report is true and accurate.

Drilling firm:

Wiehen Well Drilling

Signature of License Representative:

Jerry Wiehen

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date:

1/30/13

FEB 5 2013

WATER RIGHTS PROGRAM

Please return **WHITE COPY** to: DENR Water Rights, 523 E. Capitol Ave., Pierre SD 57501

Diversion Point Location

From the SE corner of
Sec33 T121N-R52W(res)
** Well 3**

2735 ft N & 30 ft W

Lat 45.21741

Long -97.16491

From the SE corner of
Sec33 T121N-R52W(res)
** Well 4**

4395 ft N & 40 ft W

Lat 45.22198

Long -97.16487

Irrigated Land

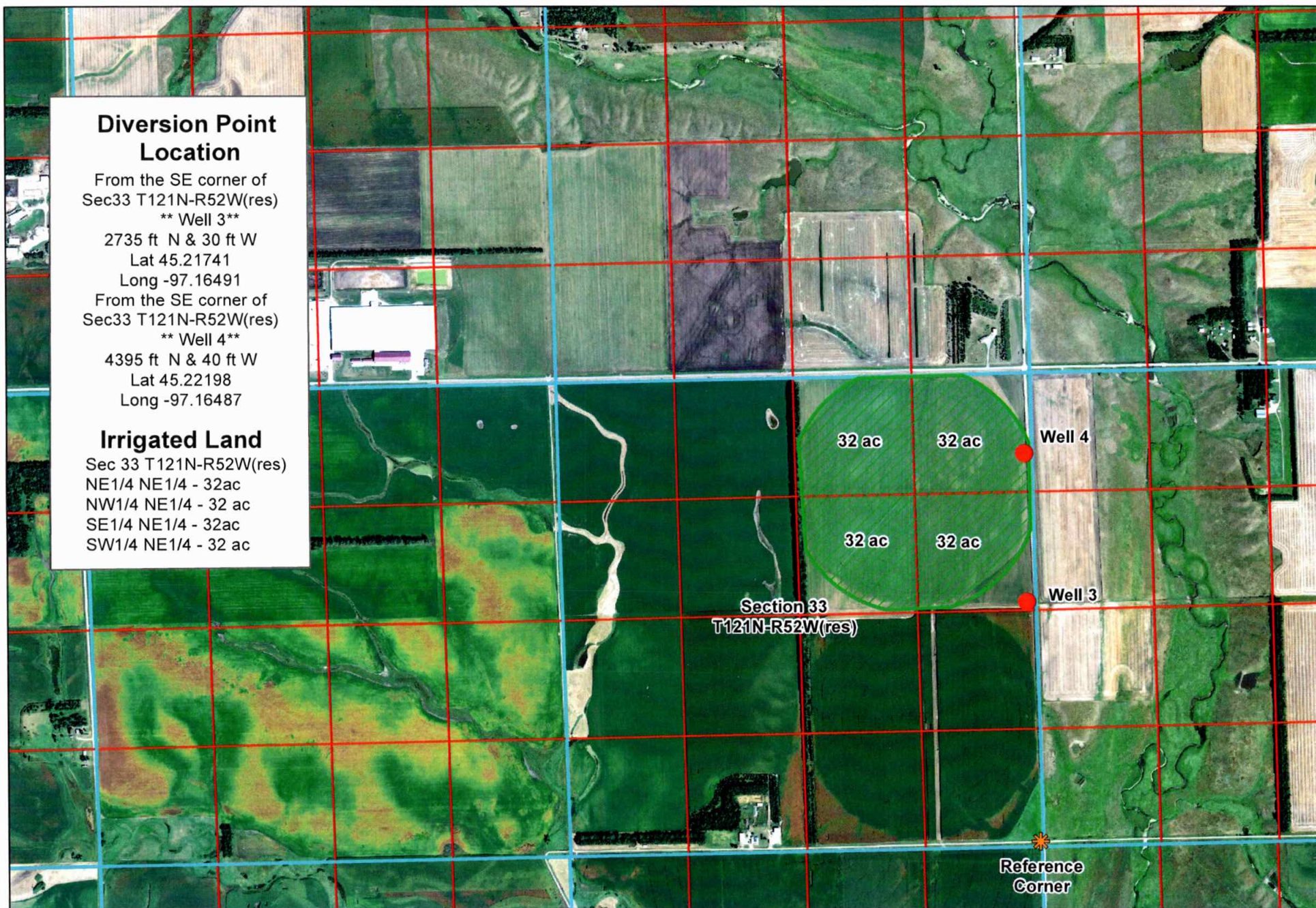
Sec 33 T121N-R52W(res)

NE1/4 NE1/4 - 32ac

NW1/4 NE1/4 - 32 ac

SE1/4 NE1/4 - 32ac

SW1/4 NE1/4 - 32 ac



0 1,050 2,100 4,200 6,300 8,400 Feet

7257A-3



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

OCT 20 2022

7257A-3
7257B-3
7257-3
7065-3

James Amdahl
14962 453rd Ave
Summit SD 57266

Dear Mr. Amdahl:

Enclosed are Water License Nos. 7257A-3 and 7257B-3. These are the final water right documents completing your process of obtaining Water Rights. Included with each license is a map prepared by the staff engineer who conducted the field investigation.

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 License, 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: Water Permit No. 7257-3 was divided into A & B to reflect the systems as operated. The applicable portions of Water Permit No. 7065-3 were incorporated into No. 7257B-3.

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7257A-3
(DIVISION OF NO. 7257-3 INTO 7257A-3 AND 7257B-3)

(1) James Amdahl, Summit SD 57266 made Application No. 7257-3, June 10, 2011, for a water permit to divert 3.00 cubic feet of water per second (cfs) from ground water, two wells (Big Sioux North Aquifer), Grant County, South Dakota for irrigation of the E ½ Section 33, T121N, R52W. Permit No. 7257-3, with a priority date of June 10, 2011, was approved September 19, 2011.

The investigation of the water use system found three wells constructed into the Big Sioux North Aquifer. (BS:N) Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the additional diversion point did not increase the potential for adverse effects to existing diversions.

Water Permit No. 7065-3, with a priority date of September 11, 2008, authorizes diversion of 1.78 cfs from two wells into the Prairie Coteau Aquifer (PCO) to irrigate the E ½ Section 33, T121N, R52W. Only one of the wells was drilled.

Permit Nos. 7065-3 and 7257-3 authorize irrigation of the same acreage from either water source. The systems as developed utilize two shallow wells (BS:N) located in the NE ¼ to irrigate the NE ¼ Section 33. The SE ¼ Section 33 is supplied water from one shallow well (BS:N) and one deeper well (PCO) both located in the SE ¼ Section 33.

Water Permit No. 7257-3 is being divided and reissued to reflect the systems as operated:

- **No. 7257A-3:** diversion of 1.73 cfs (775 gpm) from two wells (Big Sioux North Aquifer) to irrigate the NE ¼ Section 33, T121N, R52W. A priority date of June 10, 2011 is retained.
- **No. 7257B-3:** diversion of 1.73 cfs (775 gpm) from two wells (Big Sioux North and Prairie Coteau Aquifers) to irrigate the SE ¼ Section 33, T121N, R52W. A priority date of June 10, 2011 is retained for the shallow well (BS:N) and September 11, 2008 is retained for the deeper well (PCO) as authorized under No. 7065-3. The applicable portions of Permit No. 7065-3 are incorporated into No. 7257B-3.

(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 1.73 cubic feet of water per second for beneficial use. The location of the diversion points are as follows:

- **Well #3:** 2,735'N and 30'W of the SE corner of Section 33, T121N, R52W (SE ¼ NE ¼)
Latitude 45.21741, Longitude -97.16491
- **Well #4:** 4,395'N & 40'W of the SE corner of Section 33, T121N, R52W (NE ¼ NE ¼)
Latitude 45.22198, Longitude -97.16487

The wells are located within the former boundaries of the Sisseton Wahpeton Indian Reservation.

continued

(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 33, T121N, R52W	NW ¼ NE ¼	32 acres
	NE ¼ NE ¼	32 acres
	SW ¼ NE ¼	32 acres
	SE ¼ NE ¼	32 acres
	Total	128 acres

The above land is located within the former boundaries of the Sisseton Wahpeton Indian Reservation.

(4) Pursuant to South Dakota Water Law 46-5-30.1 James Amdahl, 14962 453rd Ave., Summit SD 57266 the holder and/or owner of Water Right No. 7257A-3 is issued a license to appropriate water, the right to use 1.73 cubic feet of water per second from ground water, two wells (Big Sioux North Aquifer) with a priority date of June 10, 2011, from the locations 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. 7257A-3 (7257-3) and subject to the following qualifications:

- The wells 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.
- The wells 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. ***Both wells were drilled in 2012 by Wieber Well Drilling. Copies of the well completion reports are on file with the Water Rights Program.***
- Combinations of diversion authorized by Water Permit Nos. 7065-3 and 7257-3 may not exceed 1.00 cfs per 70 acres. ***This qualification is no longer applicable.***
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.


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

OCT 20 2012
date



7257A-3



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

MAR 23 2023

7257A-3
7257B-3

James Amdahl
14962 453rd Ave
Summit SD 57266

Dear Mr. Amdahl:

Enclosed are your Reissued Water License Nos. 7257A-3 and 7257B-3.

The original water licenses issued in October 2022 did not correctly describe the number of acres irrigated. The licenses were reissued to specify a total of 132 acres within the NE $\frac{1}{4}$ and 132 acres within the SE $\frac{1}{4}$, all in T121N, R52W. The remaining portions of the licenses remain unchanged.

As long as you use the water beneficially, as stated in the Water License, 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

STATE OF SOUTH DAKOTA
REISSUED WATER LICENSE NO. 7257A-3

(1) James Amdahl, 14962 453rd Ave., Summit SD 57266 was issued Water License No. 7257A-3, October 20, 2022, for a water right to divert 1.73 cubic feet of water per second (cfs) from ground water, two wells (Big Sioux North Aquifer), Grant County, South Dakota for irrigation of 128 acres in the NE ¼ Section 33, T121N, R52W. Water Right No. 7257A-3 carries a priority date of June 10, 2011.

The original Water Permit No. 7257-3 authorized irrigation of the E ½ Section 33, T121N, R52W. At the time of licensing, No. 7257-3 was divided and reissued into 7257A-3 & 7257B-3 to reflect the systems as operated.

No. 7257A-3 was licensed for a total of 128 acres. Additional information from the landowner and a review of the license found a discrepancy in the number of acres licensed. The actual area of irrigation in the NE ¼ of Section 33, T121N, R52W is 132 acres. Water License No. 7257A-3 is being reissued to increase the acreage authorized from 128 to 132 acres. The remaining portions of the license remain unchanged.

(2) It is certified that the water right holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 1.73 cubic feet of water per second for beneficial use. The location of the diversion points are as follows:

- **Well #3:** 2,735'N and 30'W of the SE corner of Section 33, T121N, R52W (SE ¼ NE ¼)
Latitude 45.21741, Longitude -97.16491
- **Well #4:** 4,395'N & 40'W of the SE corner of Section 33, T121N, R52W (NE ¼ NE ¼)
Latitude 45.22198, Longitude -97.16487

The wells are located within the former boundaries of the Sisseton Wahpeton Indian Reservation.

(3) The water right 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 33, T121N, R52W	NW ¼ NE ¼	33 acres
	NE ¼ NE ¼	33 acres
	SW ¼ NE ¼	33 acres
	SE ¼ NE ¼	33 acres
Total		132 acres

The above land is located within the former boundaries of the Sisseton Wahpeton Indian Reservation.

(4) Pursuant to South Dakota Water Law 46-5-30.1 James Amdahl, 14962 453rd Ave., Summit SD 57266 the holder and/or owner of Water Right No. 7257A-3 is reissued a license to appropriate water, the right to use 1.73 cubic feet of water per second from ground water, two wells (Big Sioux North Aquifer) with a priority date of June 10, 2011, from the locations specified in (2) of this license for irrigation purposes.

continued

Reissued Water License No. 7257A-3

Page 2

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7257A-3 (7257-3) and subject to the following qualifications:

- The wells 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.
- The wells 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. ***Both wells were drilled in 2012 by Wieber Well Drilling. Copies of the well completion reports are on file with the Water Rights Program.***
- 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

MAR 23 2023

date

