

1262A-3

City of Canton's Water Rights

May 5, 2004

	Amount	Priority date	Permit where Priority date comes from	Licensed Under
Well # 1	0.12 cfs	3-16-66	4312A-3	6499-3
	0.15 cfs	1-1-36	4312B-3	
	<u>0.01 cfs</u>	3-16-66	6499-3	
	0.28 cfs = 126 gpm			
Well # 6	0.30 cfs = 134 gpm	3-16-66	1262A-3	1262A-3
Well # 7 standby well	0.22 cfs = 100 gpm capable of 250 gpm – throttled to 0.22 cfs	1-1-18	1262B-3	1262B-3
Well # 8	0.31 cfs	3-16-66	4312A-3	6499-3
	<u>0.09 cfs</u>	3-16-66	6499-3	
	0.40 cfs = 180 gpm			
Well # 9	0.15 cfs	1-1-37	1262B-3	5216-3
	<u>0.52 cfs</u>	3-16-66	1262C-3	
	0.67 cfs = 300 gpm			
Well # 10	0.72 cfs = 325 gpm	8-25-88	5218-3	5218-3
Well # 11	0.11 cfs	1-1-50	1262B-3	5217-3
	<u>0.42 cfs</u>	3-16-66	1262C-3	
	0.53 cfs = 240 gpm			

Water Right No. 1262-3
Big Sioux River - Water District

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, October 15, 2004, made a thorough examination of the water use system constructed by City of Canton of 210 N Dakota Street, Canton SD 57013 holder of Water Right No. 1262-3, bearing the priority of ~~1918, 1936, 1937, 1946, 1950 and~~ March 16, 1966 authorizing the diversion of 1.45 cu. ft. per second of the waters of Dakota Formation Aquifer for municipal purposes, in Lincoln County.

Inspection contact & relationship **Jeff Fossum, Water and Sewer Superintendent**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information: well #6

- 1) Well Drilling Firm: Frederickson Inc.
- 2) No. of Wells 1
- 3) Depth(s) 443 feet
- 4) Well log is available yes
- 5) Comment: drilled Nov. 30, 1965

Casing:

- 1) Diameter 10 inches
- 2) Length 297 feet
- 3) Type steel

Screen:

- 1) Type stainless steel
- 2) Length 147 feet
- 3) Static water level 114 feet

Pump:

- 1) Make Grunfos
- 2) Model 135S
- 3) Size
- 4) Capacity 134 GPM

Motor:

- 1) Make Franklin
- 2) Model No.
- 3) Horsepower rating 15 hp

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

Municipal water distribution system.

C. Works used to apply water to beneficial use:
Municipal water distribution system.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by yes

The system is in good condition with the point(s) of diversion located as follows: well #6 - 620' S and 3410' W of the NE corner Section 23, T98N, R49W (43.297166, -96.589274). The works are capable of diverting and conveying to the place of use 0.30 cu. ft. per second of water which is to be used for municipal purposes. Water has been put to beneficial use to the maximum extent as follows:

Municipal water distribution system

The license should be re-issued for 0.30 cfs.

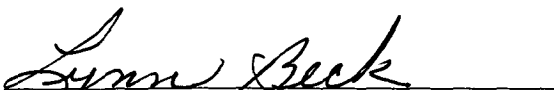
All structures, wells and lands on map yes

Comments or other permit(s) associated with the project: **City of Canton Water Right Nos. 1262-3, 4312-3, 5216-3, 5217-3 and 5218-3**

Water Right No. 1262-3 should be split into A, B and C. There is a validated VR 1262-3, see VR 1262-3 report; LC 1262-3, see this report; and FU 1262-3, see documentation. The LC portion of 1262-3 originally consisted of well #5 div. rate 0.22 cfs and #6 div. rate 0.33 cfs with 3-16-66 priority dates, well #5 is no longer in use. LC 1262-3 needs to be reissued for one diversion point, well #6, and 0.30 cfs diversion rate.

The VR portion of 1262-3 originally consisted of well #2 div. rate 0.15 cfs, well #3 div. rate 0.17 cfs, well #4 div. rate 0.11 cfs and well #7 div. rate 0.22 cfs with 1937, 1946, 1950 and 1918 priority dates respectively. Well #3 is no longer used; diversion from well #2 transferred to well #9 authorized by Permit No. 5216-3; diversion from well #4 transferred to well #11 authorized by Permit No. 5217-3.

FU 1262-3 needs to be re-evaluated for portion left for future use. Portion of Permit Nos. 4312-3, 5216-3 and 5217-3 will be licensed using reserves from FU 1262-3.



Lynn Beck
Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: March 8, 2004

Canton No 6

Well #6

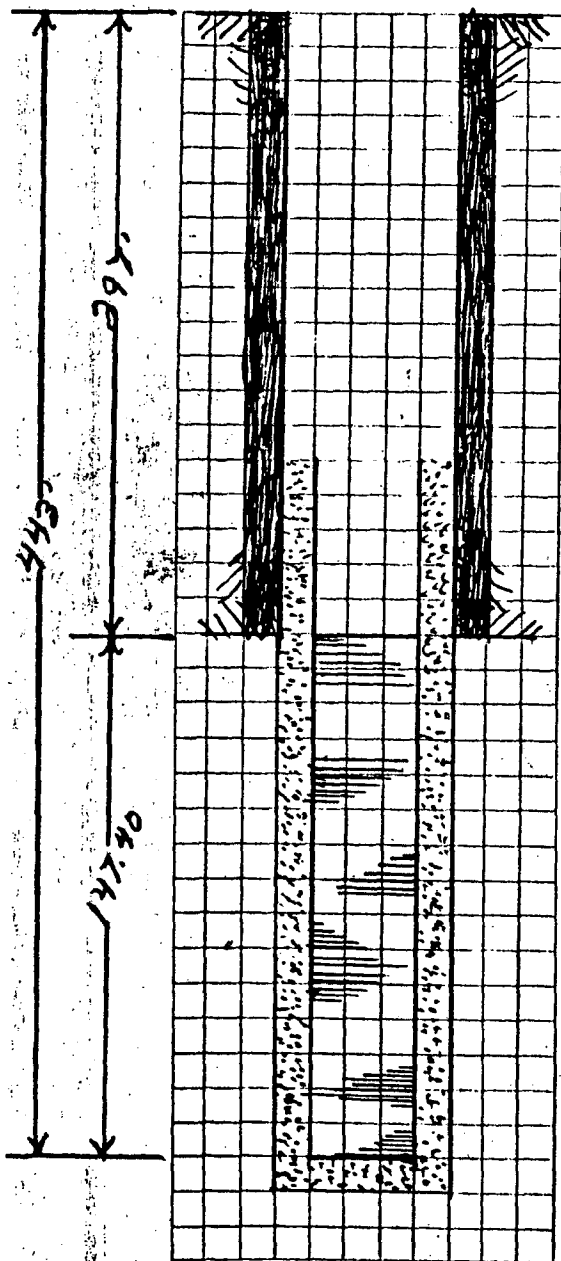
FREDERICKSON'S INC. WELL DESIGN

COMPLETION REPORT

Owner City of Canton, So. Dak. Location (HOWARD & SEVENTH ST) Frederickson Well #2

Date Started Nov. 13, 1965Date Completed Nov. 30, 1965Type of Drilling Equipment RotaryStatic Water Level 174 ft.Pumping Rate 150 GPM.Drawdown 78 ft.Total Depth 443 ft.Total Casing 297 ft.Size of Casing or Casings 10 3/4"Weight of Casing or Casings 34.20Hole Size 15"O.D. of Casing 10 3/4"Cement (No. of Bags) 175 4000 lbs sandType of Screen Johnson Stainless SteelLength of Screen 147.40 O.D. 4 3/4" I.D. 4"Slot opening of Screen 30Length of Leader 20 ft. O.D. 5" I.D. 4 1/2"Type of Leader Stainless SteelPacker NoneUnderream Size None 10" holeFilter Pack Size 10-20 Red Flint sandCubic Ft. of Filter Pack 105Development Method High pressure waterjetting + air.

Remarks: Specific capacity of well
after 24 hr. pumping test
1.92 GPM. per ft. of Drawdown.

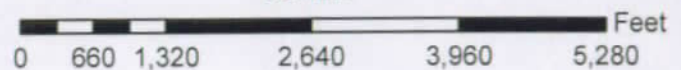


J.T.D.

WATER RIGHT NOS. 1262-3, 4312-3, 5216-3, 5217-3 & 5218-3 CITY OF CANTON



SCALE



Lynn Beck

Lynn Beck
 Natural Resources Engineer Specialist
 DENR, Water Rights Program
 March 1, 2004



STATE OF SOUTH DAKOTA
REISSUED WATER LICENSE NO. 1262A-3
DIVISION OF NO. 1262-3 INTO NOS. 1262A-3, 1262B-3 & 1262C-3

(1) City of Canton, 210 N Dakota St, Canton SD 57013 was issued Water License No. 1262-3, December 9, 1968 for a water permit to divert 1.45 cubic feet of water per second (cfs) from groundwater (seven wells), Lincoln County, South Dakota for municipal purposes. Permit No. 1262-3, with priority dates of 1918, 1936, 1937, 1946, 1950 and March 16, 1966 was issued with construction of the described water supply system completed and the application to beneficial use of water completed.

On October 15, 2003, an investigation of the entire water use system for the City was conducted. Water License No. 1262-3 is being divided and will separate the vested right portion and the future use portions from the water right. The following indicates the city's water usage as it existed at the time of this investigation:

Water Right No. 1262A-3 – authorizing 0.30 cfs from Well # 6 located in the NE ¼ NW ¼ Section 23-T98N-R49W – Priority date of March 16, 1966.

Vested Water Right No. 1262B-3 – authorized 0.22 cfs from Well #7 (standby well) located in the SW ¼ NE ¼, 0.15 cfs from Well #9 located in the NE ¼ NE ¼ and 0.11 cfs from Well #11 located in the SW ¼ NE ¼; all in Section 23-T98N-R49W. Priority dates of January 1, 1918 (Well #7), January 1, 1939 (Well #9) and January 1, 1950 (Well #11). The Water Management Board validated the vested right portion of No. 1262-3 on September 27, 1989. The applicable portions of 1262B-3 (Wells #9 and #11) are incorporated into Nos. 5216-3 and 5217-3.

Future Use Permit No. 1262C-3 – reserves 3.0 cfs (Dakota Formation) located in the N ½ Section 23 and NW ¼ Section 24; all in T98N-R49W to provide future municipal supplies to the City. Priority date – March 16, 1966. The Water Management Board allowed the permit to remain in effect for 674 acre-feet annually on December 2, 1998.

(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. 1262A-3 is issued a license, bearing a priority date of March 16, 1966 to appropriate 0.30 cubic feet of water per second from Well # 6.

Well #6 is located: 620 feet south and 3,410 feet west of the northeast corner of Section 23-T98N-R49W (NE ¼ NW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 1262-3.

Garland Erbele

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

JUN 23 2005

date





JUN 23 2005

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

City of Canton
Jeff Fossum, Water Superintendent
210 N Dakota St
Canton SD 57013

Dear Mr. Fossum:

Enclosed are the following: Reissued Water License Nos. 1262A-3, 1262B-3 and 1262C-3, Water License Nos. 5216-3, 5217-3, 5218-3 and Water Permit and License No. 6499-3. These are the final water right documents completing the city's process of obtaining Water Rights.

Also enclosed for your records is a map showing the location of each of the wells and an information sheet listing the applicable information for each well. All the required fees have been paid. Enclosed are three receipts for license fees submitted earlier.

As long as the city uses the water beneficially, as stated in the Water Licenses, State Water Laws provides that the city has a continuing right to use the water.

Sincerely,

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

enclosures

File Nos. 5216-3, 5217-3, 5218-3, 5219-3, 6499-3,
1262A-3, 1262B-3, 1262C-3, 6743-3, 4401-3,
4982-3, 5647-3, 6490-3, 6311-3, 6300-3,
6435-3, 6456-3, 6727-3

Water Rights Program File Documentation

DATE: 04/02/2008

The table below represents the water use reported from the Dakota Formation from Lincoln County by the major water users (City of Canton, Town of Worthing, Town of Fairview and South Lincoln Rural Water Sytem).

	Canton	Worthing	Fairview	SLRWS
	Acre-feet per year*			
2006	406	110	10	863
2005	403	34	8	769
2004	411	37	5	904
2003	384	48	9.2	725
2002	352	NA	NA	786
2001	331	NA	NA	877
2000	370	NA	NA	843
1999	384	4	9.4	781
1998	395	33	12	693
1997	427	36	9	663
1996	394	34	13	689
1995	397	30	11	707
1994	383	25	13	766
1993	351	24	12	630
1992	345	26	8	680
1991	391	28	10	696
1990	401	26	9	669
1989	402	31	NA	650
1988	388	26	20	660
1987	430	32	14	453
1986	330	25	22	370
1985	334	27	22	370
1984	346	27	24	368
1983	330	27	NA	341

* Numbers shown in black originated from Non Irrigation Questioner Data Base

Numbers in blue originated from 4/2/2008 personal correspondence with John Sievers (SLRWS manager)

Numbers shown in red originated from Jim Goodman's report on Application Nos. 5155-3 and 5156-3 (with permit files)

NA= not available

Ken Buhler
Natural Resources Engineer

**Water Rights Program
File Documentation**

NAME OF PERSON OR FILE: Jordan Leinen, City of Canton Utilities Supervisor

DATE: June 29, 2022

TELEPHONE: (712) 441-4757

RE: Plugging an old city well

COMMENTS:

Jordan Leinen Utilities Supervisor for the City of Canton informed DANR the city had hired Goodland Pump, SD Pump Installer No. 13, to plug "Well #6" associated with Water Right No. 1262A-3. I spoke with Jordan to verify the well number and the water right number and contacted Barry Hoogland of Goodland Pump to remind him a well plugging report needed to be submitted. The plugging report is attached.



Adam Mathiowetz

Natural Resources Engineer

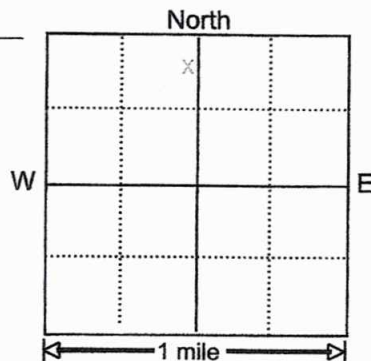
DANR-Water Rights Program

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT 11-02

Location NE 1/4 NW 1/4 Sec 23 Twp 98N Rg 49W

County Lincoln

Please mark well location with an "X"



Plugging Completion Date 6/23/2022

Well Owner:

Name: City of Canton

Address: 1006 W 5th St

City, State, Zip: Canton SD 57013

Comments:

Well collapsed at 265'

CHECK APPROPRIATE BOX

EXISTING WELL ☒	TEST HOLE ☐
Well depth <u>443'</u>	Hole depth _____
Casing material <u>Steel</u>	Hole size _____
Casing size(s) <u>10 3/4"</u>	
Casing condition <u>Poor</u>	

Describe plugging procedure:

Gravel was placed from 265'-115'. From static water level of 115' we tremied grout from 115'-30'. From 30'-6' we poured Bariod Hole Plug Bentonite. There was a cement cap of 1' at the top. From 5'-Ground level was back filled with dirt.

Describe grout or plugging material:

BH 20 Grout
Bariod Hole Plug
Cement

Type of non-slip plug: N/A

This well or test hole was plugged under license # 10091 and this report is true and accurate.

Drilling firm: Goodland Pump and Supply Co

Signature of Licensed Representative: _____

Signature of Well Owner: _____

Date: 7-5-22

RECEIVED

JUL 07 2022

**OFFICE OF
WATER**