

FILE COPY

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MAR 29 2023

OFFICE OF WATER

FORM 2: Application for uses other than irrigation (see instructions)

Mail to:	No. <u>8744-3</u> Hydrologic Unit <u>10170101</u>
SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182	Basin <u>Missouri River</u>
ph: (605) 773-3352	Newspaper <u>Leader-Courier, Elk Point (In US)</u> <u>Press's Dakotan, Yankton 605-7811</u>

Application for Permit to Appropriate Water in South Dakota

Check use(s) of water:

<input type="checkbox"/> Municipal	<input type="checkbox"/> Water Distribution System	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Institutional
<input type="checkbox"/> Rural Water System	<input type="checkbox"/> Commercial	<input type="checkbox"/> Fish & Wildlife	<input type="checkbox"/> Geothermal
<input type="checkbox"/> Domestic (over 18 gpm)	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other _____	

Type of Application: (check one)

New Vested Right (if so, predates Mar 2, 1955) Future Use Reservation
 Place to Beneficial Use Water Reserved by Future Use Permit No. _____
 Amendment/Correction to Permit No. 6557-3

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

We are requesting to use the existing well to fill a canal once per year and to occasionally add water if needed.

1. Name to Appear on Water Permit Dakota Bay
 Mailing Address 32926 482nd Avenue Jefferson SD 57033
(Address) (City) (State) (Zip Code)
 Phone _____ Mobile 712-898-9173 Email mjchicoine21@gmail.com

2. Amount of water claimed 1.55 *CFS or _____ **GPM and 28.6 ***AF or _____ Gallons
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acres Feet - storage capacity of the non-diversion disposal unit

3. Source of water supply ground water

4. Location of point of diversion NE 1/4 SE 1/4 Sec 16 Twp 89N 48W County Union
(example: SW 1/4 sec 14 NE 1/4 section 12 T104N R57W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? Yes No
If "Yes," where will water be used? _____

5. County or counties where water will be used Union
(example: SW 1/4 sec 14 T104N R57W)

6. Annual period during which water is to be used year round only as needed

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
See Attached

I, Mike Chicoine owner Dakota Bay the applicant, certify under penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

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

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) Drilling new well(s) Using existing well(s)

- a) If new wells, how many _____ Have test holes been drilled? Yes No Drilled by _____
(if yes, please provide copies of logs)
- b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Dakota Drilling & Backhoe, Inc.
(if yes, please provide copies of logs)
attached

For either existing or proposed wells:

- c) Well Depth (required) 150' Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest domestic well on applicant's property unused Property owned by others over 1 mile
submersible well

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) None on property
- b) System Capacity (gallons) 650 GPM Year Constructed 2005
- c) Connected to the City of None ^{Not} Connected Sanitary System

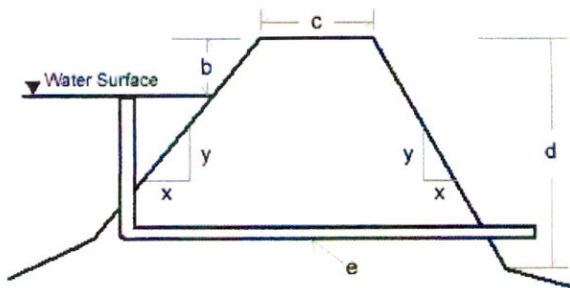
3. Dugout Information N/A

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams N/A

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 (e.g. 3 to 1 is a typical slope)
 Upstream _____
 Downstream _____
- h) Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



Below are the engineer's calculations for the amount of water needed for the canal.

Water to fill the canal – 20.61 AF

Water for evaporation – 7.90 AF

Water for seepage – .09 AF

There will also be the rainfall that lands on the water surface along with some draining from the backyards of the existing houses to the east. The water falling on the canal alone is 30" which is slightly more than the evaporation. We have not taken these figures in to account in the above "water needed" calculations. However, this will reduce the amount of water needed based on the amount of rainfall in any given year.

The total use for the canal is 28.6 acre-feet (AF). In comparison to the agriculture use which is up to 120 acre-feet (AF).

At a rate of 1.55 cfs from the well the total water for the canal would take 9.3 days of continuous pumping. The vast majority of this pumping would be during the spring prior to the start of the of annual ag irrigation usage.

Cropland Soils

MIKE CHICOINE
UNION
Date: 12/13/2004

Kevin G. Beermann RCT

ELK POINT FIELD OFFICE
NRCS
Kevin G. Beermann



Legend

- Planned Land Units
- Soils Map
 - Ad
 - Fb
 - Ha
 - SoA
 - W
- Resource Inventory (lines)



500 0 500 1000 1500 2000 2500 3000 3500 4000 Feet



6557-3

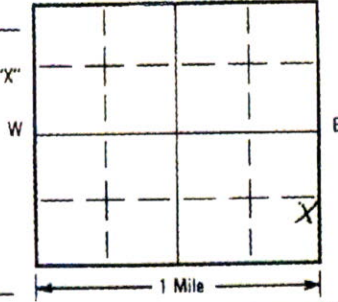
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6557-3
07-92

Location NE 1/4 SE 1/4 Sec 16 Twp 89N Rg 48W
County Union

Well Owner: Mike Chicoine
Business Name: _____
Address: 508 E. Clay
EIK Point, SD 57025

Please mark well location with an "X"



Well Completion Date

5-24-05

WELL LOG:	FORMATION	DEPTH	
		FROM	TO
	Heavy clay	0	8
	Sand	8	34
	Clay	34	55
	Gravel	55	62
	Sand	62	72
	Gravel	72	75
	Sand	75	110
	Med gravel	110	150

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2100 ft. from Any (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Mud Rotary

STATIC WATER LEVEL 13 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by Valve Reducers Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

CASING DATA:

- Steel Plastic Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>200</u> LB/FT	<u>12</u> IN	<u>0</u> FT	<u>150</u> FT	<u>15</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

WELL TEST DATA:

Pumped Describe: _____

Bailed _____

Other _____

Pumping Level Below Land Surface

49 ft. After 1 Hrs. pumped 900 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 650 GPM

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement +</u>	_____	_____ lb./gal	<u>30</u> ft.	<u>10</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure Pumped in

REMARKS

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JAN 23 2005

WATER RIGHTS PROGRAM

SCREEN: Perforated pipe Manufactured

Diameter 12 IN Length 40 FEET

Material PVC

Slot Size 60 Set From 110 Feet to 150 Feet

Other information _____

This well was drilled under license # 667

And this report is true and accurate.

Drilling firm Dakota Drilling & Backhoe, Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

WAS A PACKER OR SEAL USED? YES NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTATION: Was well disinfected upon completion?

Y YES, How: Chlorine mixed

_____ NO, Why Not? with gravel pack

Laboratory sent to for water quality analysis

No