

Water Right Number 3621-3

1. Considered 3-23, 1977
2. Name of Applicant GRACEVALE COLONY
3. Post Office Address WINFRED
4. Amount of Water claimed 3.0
5. Source of Water supply 64' WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 240
7. Water to be diverted and used in LAKE County
about 55, 3E miles of WINFRED
8. Proof of Publication Received ~~SE~~ 5-10-77
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action Deferred _____

10. Remarks:

No. 3621-3
 Map No. 2896-3 Water Division No. 3 VERMILLION RIVER District _____
 (Blanks to be Filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

1. Name of Applicant Gracevale Colony
 Postoffice address Winfred, State SD 57076
 If a corporation show date and place of incorporation _____
 2. Method of accomplishing work (contract, employment of others, or by direct labor) contract
 3. Name of diversion work Gracevale #2
 4. Amount of water claimed (cubic feet per second) 3
 5. Source of water supply Well
 6. Location of point of diversion on line dividing north and south 1/2 of the west 1/2 of
SE 1/4 of Sec. 3 - 105 - 54 - Clarno Township
 _____ County Lake
 7. Annual period or periods during which water is to be used May - November
 8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
 9. For irrigation use, _____ Total number of acres to be irrigated 240

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
NE 1/4 of SE 1/4 of Sec. 3-105-54	25	NE 1/4 of SW 1/4 of Sec. 3-105-54	40
SE 1/4 of SE 1/4 of Sec. 3-105-54	25	SE 1/4 of SW 1/4 of Sec. 3-105-54	40
NW 1/4 of SE 1/4 of Sec. 3-105-54	40	NW 1/4 of SW 1/4 of Sec. 3-105-54	40
SW 1/4 of SE 1/4 of Sec. 3-105-54	40	SW 1/4 of SW 1/4 of Sec. 3-105-54	40

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 1 years. Additional time required to complete application of water to the proposed beneficial use 5 years.
 11. Choice of newspaper for Notice of Intent to Appropriate Water publication Madison Daily Leader
 12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Well

B. Works proposed to transport water to place of use.

Pump and pipe (well at pivot location for center pivot unit)

C. Works proposed to apply water to beneficial use.

Center pivot irrigation systemEstimated Total Cost \$ 50-60,000

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA)

County of Lake) ss.

I, Gracevale Colony the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed Gracevale Colony Paul HoffSubscribed and sworn to before me this 27 day of January, 1977

Notary Public (or other qualified officer)

My Comm. Expires 12-24-84

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3621-3

GIRACEVALE COLONY
(Applicant)

WINIFRED
(Post Office Address)

SOUTH DAKOTA 57076 With the following modifications:
(State)

The irrigation well approved under this Permit is located near domestic wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in existing domestic wells.

Date of first receipt of application FEBRUARY 8, 19 77
Date of return to applicant for correction, amendments or changes required _____, 19 ____
Date of receipt of corrected application FEBRUARY 9, 19 77
Approved MARCH 23, 19 77, Recorded in Book 18 Page 134

WATER RIGHT PERMIT NO. 3621-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3621-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is FEBRUARY 8, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 23, 19 77
3. The whole of said work is to be completed on or before MARCH 23, 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 23, 19 82
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 3.0 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 23, 19 82 said water to be used during the following described annual period: MAY - NOVEMBER

Witness my hand this 15th day of JUNE, 19 77

WATER RIGHTS COMMISSION

By:

John Halick
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

12 Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

- (1) Drill Hole, Diameter 30", Depth 90' 6 1/4'
- (2) Casing, Type PVC Diameter 16" Thickness 7/16 (estimated)
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Johnson Stainless, Diameter 16", Length 30
- (4) Gravel Pack, Thickness 7", Length of gravel pack 90' 6 1/4'

E. Dugout Information or Estimates

- (1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials (Please attach a copy to test well log if available.)

Character of Water bearing materials pea sized sands in lower 40' with finer sands above

Depth to top of water bearing material 30'

Depth to bottom of water bearing material 90' 6 1/4'

Thickness of water bearing material 34'

Depth to water (ground surface to water level) 20'

- (2) Distance to nearest existing household or livestock watering wells.

On same owner's property 80 rds. On property owned by others 640 rds.

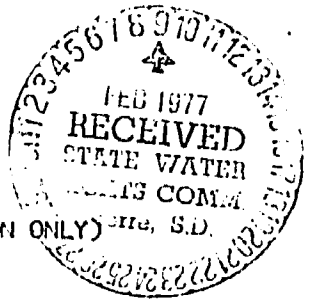
G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

Granville Colony Paul Wofor
Signature of Applicant

CONSERVATION
COMMISSION
FORM W1 #1

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)



NAME Gracevale Colony

ADDRESS Winfred, SD 57076

COUNTY Lake

LEGAL DESCRIPTION

1. WELL LOCATION SE $\frac{1}{4}$ 3 - 105 - 54 (on the line dividing N & S $\frac{1}{2}$ of the W $\frac{1}{2}$ of SE $\frac{1}{4}$ - 3 - 1-5 - 54)
2. LOCATION OF AREA TO BE IRRIGATED SE & SW $\frac{1}{4}$ 3- 105- 54

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____
4. CROPS TO BE IRRIGATED Corn and alfalfa

WATER QUALITY

5. SAMPLE NUMBER 77-144
6. SALINITY (EC X 10⁶) 1207 (high)
7. SODIUM (SAR) 0.28 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from Lake County Conservation District, County Extension office or Soil Conservation Service.
and:
that the legal description for the location of the well and land to be irrigated is true and correct.

Gracevale Colony Paul Steyer
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
27th DAY OF January 19 77.

Notary Public Lake

(TITLE OR SEAL)

my commission expires 3-24-84

Alfred J. Hoff

APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57006

Submitted by: Paul Hofer Date Rec'd: January 27, 1977
 Address: Gracevale Colony Sample No. 77-144
Winfred, SD 57076 Identification Well-
SE 1/4, Sec. 3, T. 105N, R. 54W

WATER ANALYSIS

Calcium (Ca)	183	ppm*	9.15	me/l**
Magnesium (Mg)	76	ppm	6.23	me/l
Sodium (Na)	18	ppm	0.73	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	400	ppm	8.32	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	11	ppm	0.31	me/l
Bicarbonate (HCO ₃)	393	ppm	6.44	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)	322	ppm (as CaCO ₃)		
Alkalinity (Methyl Orange)	0	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	1207	micromhos per cm at 25° C.		
Electrical Conductivity	0.28			
Sodium Adsorption Ratio	4.77%	of cations		
Sodium	0.00	me/l		
Residual sodium carbonate	7.62			
pH				
Others:				

*p.p.m.=parts per million
 **me/l=millequivalents per liter
 ***g.p.g.=grains per gallon

COMMENTS: Total cations 16.32 me/l
 Total anions 15.07 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$15.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 77-144

Amount Enclosed \$.....

Signed.....



February 2, 1977

Gracevale Colony
Winfred, SD 57076

Dear Mr. Hofer:

Your water sample (Lab. No. 77-144) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

This water is marginal for use on the soils you intend to irrigate and should be considered for use only/ under the following conditions:

(1) It will be used no more than 3 times (preferably less) in any growing season.

(2) The soil will be completely filled with water so natural leaching can occur, by irrigating in the late fall just before freeze-up, at least one year out of 3.

(3) Water applications will be made each irrigation to completely re-wet the entire depleted soil within the rooting zone of the crop being grown. This may require 3-5 inches of water each irrigation with fine soils.

(4) If a salt problem or soil dispersion occurs, contact extension personnel or this office for management recommendations.

Sincerely yours,

L.O. Fine

L. O. Fine
Water Quality Lab

IOF:ckb

Enclosures

cc: State Conservation Commission

P.S. The area of Whitewood silty clay loam in the drainageway will give real grief (getting stuck, water table rise, salt build-up, crops drowning, etc.). Either drain it or avoid irrigating it. In any case, keep it and soil area CeD in permanent hay crops such as grass-alfalfa (or grass-alsike clover) for the low area.

No. 3821-3

Publish first publication, on or before March 10, 19 77

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

March 1, 19 77

Notice is hereby given that Gracevale Colony

whose post office address is Winfred, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use

3.0 cubic feet of water per second of time from the ground water through the

Gracevale #2, the point of diversion of which is to be located in the

Center of W $\frac{1}{2}$ S $\frac{1}{2}$

of Section 3, Twp. 105N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

S $\frac{1}{2}$ Section 3, T105N, R54W

This application No. 3821-3 will be considered by the Water Rights Commission at their office at Pierre upon the 23rd day of March, 19 77, at 10:00 A. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

~~XXXXXXXXXXXXXXXXXXXX~~ JAMES WINTERTON

Water Rights Specialist

BFJ/bw

cc: Gracevale Colony, Winfred, S.D. 57076

No. 3621-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Lake) ss.

I, Merrill D. Hunter hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Madison Daily Leader

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the
City Madison of Lake

County of Lake and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

Tuesday the 8th day of March, 1977

Tuesday the 15th day of March, 1977

Merrill D. Hunter
(Signature)

Publisher
(Title)

March 15, 1977
(Date Signed)

Mar. 8, 1977

NOTICE

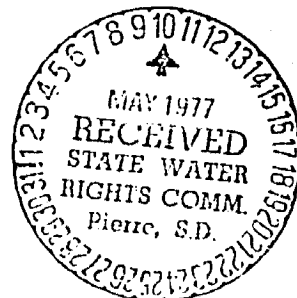
INTENT TO

APPROPRIATE WATER

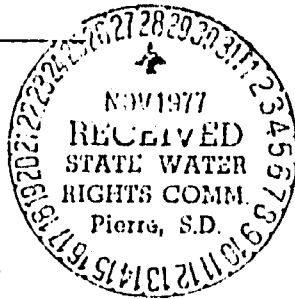
Notice is hereby given that Gracevale Colony whose post office address is Winfred, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 3.0 cubic feet of water per second of time from ground water through the Gracevale No. 2, the point of diversion of which is to be located in the Center of W $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 3, Twp. 105N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land: S $\frac{1}{4}$ Section 3, T105N, R54W.

This application No. 3621-3 will be considered by the Water Rights Commission at their office at Pierre upon the 23rd day of March, 1977, at 10:00 a.m. All interested persons may appear and be heard.

Water Rights Commission
JAMES WINTERTON
Water Rights Specialist



Sam Dwyer
Gracevale Colony



APPLICATION FOR EXTENSION OF TIME

TO: Water Rights Commission
Foss Building
Pierre, South Dakota 57501

Date Nov 23, 1977

Dear Sirs:

In Water Right Permit No. 3621-3 it is specified that the water diversion system is to be completed by March 23, 1978 and that the water is to be put to the limit of beneficial use by March 23, 1982.

I hereby request that the date for completing the diversion system be extended to March 23, 1982 and that the date for putting the water to the limit of beneficial use be extended to March 23, 1984.

The extension of time for the completion of these works is requested for the following reasons: a center pivot location in the SW $\frac{1}{4}$, Section 3, T105N,
R54W had been planned but does not have time to construct the pivot pad
and pipes thereto.

Enclosed herewith is a fee of Two Dollars and Fifty Cents (\$2.50) to pay the cost of filing this Request for extension of time.

Ann Hope, General's Colony
(Signed)

3621-3
Permit Number

APPROVED: 12-1-77

WATER RIGHTS COMMISSION

BY: Anton Jones

Water level in the bed frame - 1.2

3621-3 Gravelly clay

11-1-77 Well capacity 1750 gpm

Depth 64 ft - Depth to water 44 ft

30 ft. Stairless steel screen

Discharge 200 gpm

Pump Byron Pump

H. C. Unit 1 K654 X M521A

Lot # BNV 216402, 60 H.P.

Richard D. Clark

Model 2200 Lot # 341077

11-1-77 Observation Well 30.5' to water

3621-3
44680-3

South Dakota Department of
Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 17, 1989

Gracevale Colony
RR 1, Box 170
Winfred, SD 57076

Dear Sirs:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;

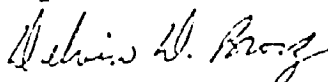


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,



John JOHN HATCH, Chief Engineer
Water Rights Division

South Dakota

3621-3

GREAT PLACES GREAT PLACES.

NOV 24 1992

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501 3181

4680-3

Sam Hofer, Jr.
Gracevale Colony
RR 1, Box 170
Winfred, SD 57076

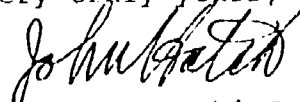
Dear Mr. Hofer:

Enclosed is Water License No. 4680-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413398 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 4680-3, 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 License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures

NOTE: The applicable portions of Water Permit No. 3621-3 have been incorporated into Water License No. 4680-3.

● NOT TO SCALE



20D

36.4

28.1

y

3

92.9

y

~~150.1~~
93.9

To be irrigated
center pivot at well

x well

See
p. 42

2.6

105-54

y

2.4

144.0

20D

155.7

S. Cabely Star D.C.
Soil Conservation Service

Map No. 2498-3 Apr. 1962-1-3

NOT TO SCALE

No. 3621-3
All in Section 3 - T105N - R54W 2 L

SW $\frac{1}{4}$ SE $\frac{1}{4}$ = 38 acres
NW $\frac{1}{4}$ SE $\frac{1}{4}$ = 39 acres
NE $\frac{1}{4}$ SE $\frac{1}{4}$ = 19 acres
SE $\frac{1}{4}$ SE $\frac{1}{4}$ = 18 acres
NE $\frac{1}{4}$ SW $\frac{1}{4}$ = 9 $\frac{1}{2}$ acres
SE $\frac{1}{4}$ SW $\frac{1}{4}$ = 9 $\frac{1}{2}$ acres

46.8 Total = ~~132~~ acres

(65) 132

1" = 660'

75.1 Application No. 3621-3
+ 4680-3
Gracevale Colony

Drawn by: Gregory C. Johnston

Gregory C. Johnston
Natural Resources Engineer
Water Rights Division, DENR

10/31/91

Section 3 - T105N - R54W:

NE $\frac{1}{4}$ SW $\frac{1}{4}$
= 9 $\frac{1}{2}$ acres
52.9

NW $\frac{1}{4}$ SE $\frac{1}{4}$
144.0 = 39
acres
144.0

NE $\frac{1}{4}$ SE $\frac{1}{4}$ =
19 acres

SE $\frac{1}{4}$ SW $\frac{1}{4}$
= 9 $\frac{1}{2}$ acres

SW $\frac{1}{4}$ SE $\frac{1}{4}$ =
38 acres

SE $\frac{1}{4}$ SE $\frac{1}{4}$ =
18 acres
1848'

Well
Pivot

1350'

105-54

154.4

No. 4680-3

Section 10 - T105N - R54W:

NW $\frac{1}{4}$ NE $\frac{1}{4}$ = 33 acres

SW $\frac{1}{4}$ NE $\frac{1}{4}$ = 33 acres

NE $\frac{1}{4}$ NE $\frac{1}{4}$ = 33 acres

SE $\frac{1}{4}$ NE $\frac{1}{4}$ = 33 acres

Total = 132 acres

NW $\frac{1}{4}$ NE $\frac{1}{4}$
= 33 acres
T316

NE $\frac{1}{4}$ NE $\frac{1}{4}$ =
33 acres

Well on No 3621-3
supplies
4680-3
Pivot

SW $\frac{1}{4}$ NE $\frac{1}{4}$ =
33 acres

SE $\frac{1}{4}$ NE $\frac{1}{4}$ =
33 acres

10

307.5

307.5

4680-3