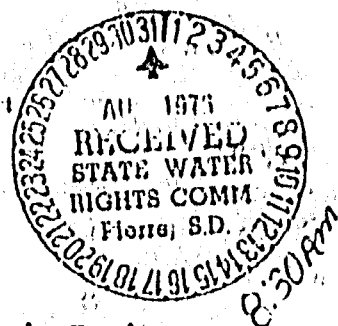


Water Right Number: 2987-3

1. Considered 11-17, 1976
2. Name of Applicant LARRY ALVEESON
3. Post Office Address CHESTER
4. Amount of water claimed 2.28
5. Source of water supply 85' DEEP WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 160
7. Water to be diverted and used in LAKE County
about 1N, 2W Miles 1ST of CHESTER
8. Proof of Publication Received 1ST
Not received _____
9. Application Approved _____
Subject to _____
Not approved _____
Action deferred _____
10. Remarks:

No. 2987-3

Map No. 2316-3 Water Division No. 3 BIG SIOUX 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)

- Name of Applicant LARRY ALMERSON
Postoffice address Chester State SD 57016
If a corporation show date and place of incorporation _____
- Method of accomplishing work (contract, employment of others, or by direct labor) Contract
- Name of diversion work _____
- Amount of water claimed (cubic feet per second) 2.3 228 MAXIMUM AVAILABLE
- Source of water supply Ground
- Location of point of diversion Center of NW 1/4 - 16 - 105 N - 51 W
County LAKE
- Annual period or periods during which water is to be used May 1 - October 1
- Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
- For irrigation use, Total number of acres to be irrigated 160

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.
<u>NW 1/4 - 16 - 105 N - 51 W</u>	<u>160</u>		

Attach sheet if more space is needed

- Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 3 years.
- Choice of newspaper for Notice of Intent to Appropriate Water publication Madison Daily Leader
- Principal Features of the Proposed Water Supply System.

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

Irrigation Well

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

Aluminum Pipe

C. Works proposed to apply water to beneficial use.

Center Pivot

Estimated Total Cost \$ 50,000

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, Larry Almerston 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 Larry Almerston
Subscribed and sworn to before me this 30th day of August 1971

[Signature]
Notary Public (or other qualified officer)
Commission expires March 8, 1982.

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2987-3

LARRY ALVERSON
(Applicant)

CHESTER
(Post Office Address)

SOUTH DAKOTA 57016 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 AUGUST 31, 19 76

Date of return to applicant for correction, amendments or changes required _____, 19 _____

Date of receipt of corrected application SEPTEMBER 10, 19 76

Approved NOVEMBER 17, 19 76 Recorded in Book 16 Page 95

WATER RIGHT PERMIT NO. 2987-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2987-3 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 AUGUST 31, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 17, 19 79
3. The whole of said work is to be completed on or before NOVEMBER 17, 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 17, 19 84
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 2.28 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 NOVEMBER 17, 19 84; said water to be used during the following described annual period: MAY 1 - OCTOBER 1

Witness my hand this 27TH day of NOVEMBER, 19 76

WATER RESOURCES COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

1964-1967

(1) WELL CONSTRUCTION

Location of well: 1/4 NW 1/4 Section 16 Township 105 N Range 51 W

Well owner LARRY FLVERSON CHESTER J.R.
(Name) (Address)

Date well drilling completed 1-24-11. Purpose of well IRRIGATION
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer _____ ft.
0-18	Sand-fine	Depth to static water level _____ 14 ft.
18-33	Fairly Coarse Gravel	Name of producing aquifer (if known) _____
33-60	Gravel	Total depth of drill hole _____ 84 ft.
60-84	GRAVEL & SAND	Depth to bottom of casing _____ 64 ft.
		Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used. 12" I.d. 33'
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.
		If a flowing well, flow of completed well _____ G.P.M.

Attach sheet if more space is needed

Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Ward Solid Fuel Model 1722 d 17 HP 17

Type of pump _____ Capacity of installed pump _____ G.P.M.

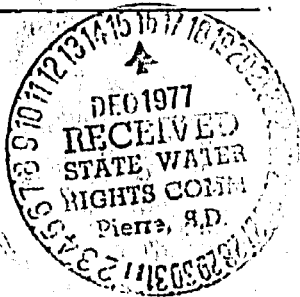
Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____,
tube material _____

Name of Pump Installation Contractor



Permit
2987

(1) WELL CONSTRUCTION

Location of well: _____ 1/4 _____ 1/4 _____ Section _____ Township _____ Range _____

Well owner James H. Hume West, Va.
(Name) (Address)

Date well drilling completed 3/27/70 Purpose of well Domestic
(domestic, irrigation, municipal, industrial, other)

WELL LOG

[illegible]

Attach sheet if more space is needed

(2) PUMP INSTALLATION

Company name and size of pump _____ HP _____

Type of pump _____ Capacity of installed pump _____ G.P.M. _____

Depth of pump placement 6-8 ft., Date of pump installation 12/77

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required. See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

Name of Pump Installation Contractor

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 17.5", Depth 85'
- (2) Casing, Type Steel (wood, concrete, steel, etc) Diameter 12" Thickness 3/8"
- (3) Perforated Screen.
Type SS wire wound, Diameter 11", Length 20'
- (4) Gravel Pack, Thickness ✓, Length of gravel pack _____

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 Sand + Gravel
Fairly coarse to coarse

Depth to top of water bearing material 45'

Depth to bottom of water bearing material 84'

Thickness of water bearing material 39'

Depth to water (ground surface to water level) 14'

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

On same owner's property 160 rds. On property owned by others 235 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.

Larry Alverson
Signature of Applicant

Conservation
Commission
Form WI #1

REC'D WPC
9-10-76

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)

FOR COMMISSION USE ONLY

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: _____

Disapproved: _____

NAME: LARRY ALERSON

ADDRESS: Chester, S.D.

COUNTY: LAKE

LEGAL DESCRIPTION

1. WELL LOCATION: Center of NW 1/4 - 16 - 105N - 51W
2. AREA TO BE IRRIGATED: NW 1/4 - 16 - 105N - 51W

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): Center Pivot
4. CROPS TO BE IRRIGATED: Corn - Alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0-6 %
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: L.O. Torvik Family
Modestly deep; well drained; in the salt realm
surface layer; underlain by gravel between 20-40 inches
from surface

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: _____

8. SALINITY: _____

9. SODIUM: _____



I do hereby certify that a chemical analysis of the ground water to be acquired for irrigation from South Dakota State University and:

the land capability for irrigation information has been acquired from

Lake Co S.D.S.

and:

that the legal description for the location of the well and land to be irrigated is true and correct.

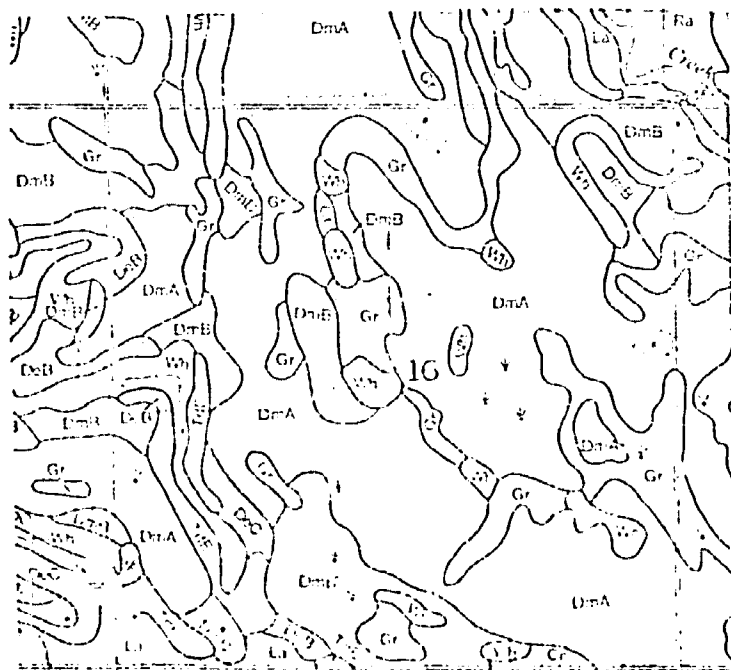
John F. Wessner

Subscribed and sworn before me this

4 day of Sept 1976.

John F. Wessner

(Title)



Dm A - Springwater Soil Series 6 to 24% clay
Dm B - Springwater Soil Series 2 to 6%
Wh - white loam 5, 11% clay loam
Gr - gravelly 5, 11% clay loam

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

Submitted by: Larry Alverson
 Address Rt. 1
Chester, SD 57016

Date Rec'd August 27, 1976
 Sample No. 76-1158
 Identification Well-84
Box 16, T 105N, R 91E

WATER ANALYSIS

Calcium (Ca)	144	ppm*	7.20	me/l**
Magnesium (Mg)	68	ppm	5.58	me/l
Sodium (Na)	34	ppm	1.48	me/l
Potassium (K)	11	ppm	0.29	me/l
Sulfate (SO ₄)	470	ppm	9.78	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	52	ppm	1.46	me/l
Bicarbonate (HCO ₃)	278	ppm	4.56	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	228	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1 221	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.59			
Sodium	10.17	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	6.86			
Others:				

*ppm=parts per million
 **me/l=millequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: Total cations 14.55 me/l
 Total anions 15.80 me/l



By: Shirley Witten

Service Performed	Amount Due
Irrigation analysis	\$3.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-1158

Amount Enclosed \$

Signed

No. 2987-3

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 _____ of Madison

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

Wednesday the 10th day of November, 1976

Wednesday the 17th day of November, 1976

Merrill D. Hunter
(Signature)

publisher

(Title)

November 17, 1976

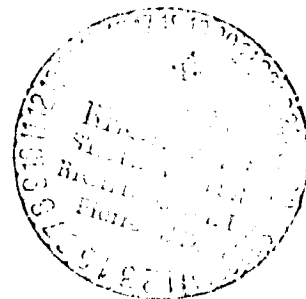
(Date Signed)

Nov. 10, 1976
NOTICE OF INTENT
TO APPROPRIATE WATER

Notice is hereby given that Larry Alverson whose post office address is Chester, 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 2.28 cubic feet of water per second of time from ground water through the Alverson No. 1, the point of diversion of which is to be located in the center of the NW 1/4 of Section 16, Twp. 105N, Range 51W. Said water to be used for the purpose of providing irrigation on the following described land: NW 1/4, Section 16, T105N, R51W.

This application No. 2987-3 will be considered by the Water Rights Commission at the Marvin Hughitt hotel in Huron, South Dakota upon the 17th day of November, 1976, at 10:00 a.m. All interested persons may appear and be heard.

Water Rights Commission
BURTON F. JONES
Water Rights Specialist



Form 6. - Notice Intent to Appropriate Water

No. 2987-3

Publish first publication, on or before

November 9, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

November 5, 1976

Notice is hereby given that Larry Alverson

whose post office address is Chester, 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 2.28 cubic feet of water per

second of time from ~~XX~~ ground water through the

Alverson # 1, the point of diversion of which is to

be located in the center of the NW1

of Section 16, Twp. 105N, Range 51W. Said water to be used for the purpose of providing irrigation on the following described land:

NW1, Section 16, T105N, R51W

This application No. 2987-3 will be considered by the Water Rights Commission at the Marvin Hughitt hotel in Huron, South Dakota

upon the 17th day of November, 1976 at 10:00 A.M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BFJ/bv
cc: Larry Alverson, Chester, SD 57016

12-27-76

2987-3

Larry Alverson

John Kery, Chester
called.

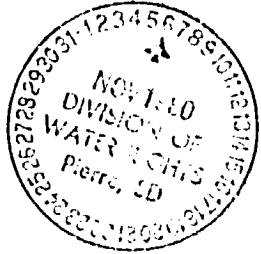
He has 20 acres
with well for livestock
use about 1.4 mile
from Alverson
irrigation well.

his well is 37' deep
with about 20' of
water. submersible
pump sitting at
about 27'.

I advised him of
domestic well clause
& protection providing
he has adequate
well.

Form 10.

No. 2787-3



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE

Post Office Chester, S.D. 57010

Date Nov 2, 1980

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

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 2987-3.

Water Right Permit No. 2987-3 states that the diversion system is to be constructed by Nov 17, 1981 and that the water is to be put to beneficial use by Nov 17, 1984.

The diversion system was completed on June 1, 1977.
Applying the water to beneficial use was completed on June 15, 1977.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Long Allen
(signature)

2987-3

 **Department of
Water & Natural Resources**

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

February 17, 1989

Larry Alverson
Rt. 1, Box 55
Chester, SD 57016

Dear Mr. Alverson:

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;

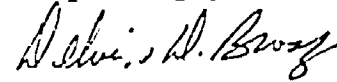


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

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 HATCH, Chief Engineer
Water Rights Division

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2987-3

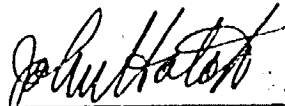
(1) Larry Alverson of RR 1, Box 55, Chester, SD 57016 made Application No. 2987-3, August 31, 1976 for a water permit to appropriate 2.28 cubic feet of water per second from groundwater (one well), Lake County, South Dakota for irrigation purposes. Permit No. 2987-3 with a priority date of August 31, 1976 was approved November 17, 1976 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before November 17, 1981 and for the application to beneficial use of said water on or before November 17, 1984.

(2) It is certified that the applicant 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 1.44 cubic feet of water per second for beneficial use. The location of the diversion point(s) is: 1620'E and 1390'S of the NW corner of Section 16, T105N, R51W (SE 1/4 NW 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T105N, R51W Section 16	NW 1/4 NW 1/4	32 Acres
	SW 1/4 NW 1/4	32 Acres
	NE 1/4 NW 1/4	32 Acres
	SE 1/4 NW 1/4	32 Acres
	Total-----	128 Acres

(4) Pursuant to Section 46-5-30.1 Larry Alverson of RR 1, Box 55, Chester, SD 57016 the holder(s) and/or owner(s) of Water Permit No. 2987-3 is issued a license to appropriate water, the right to use 1.44 cubic feet of water per second from groundwater (one well) with a priority date of August 31, 1976 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 2987-3 and subject to South Dakota State Law.

 MAR 23 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



GREAT FACES. GREAT PLACES.

MAR 23 1992

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

2987-3

Larry Alverson
RR 1, Box 55
Chester, SD 57016

Dear Mr. Alverson:

Enclosed is Water License No. 2987-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413036 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. 2987-3, 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

Form 12

Permit No. 2987-3

Big Sioux Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, DENR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Larry Alverson of RR 1 Chester, SD 57016 holder of Permit No. 2987-3, bearing the priority of August 31, 1976 authorizing the diversion of 2.28 cu. ft. per second and/or the storage of acre-feet of the waters of the Big Sioux Aquifer-North Skunk Creek Unit for irrigation purposes, in Lake County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

One Well - 65' deep, 50' of 14" Steel casing and 15.3' of 14" .080 slot Johnson Stainless Steel Screen; 3 Stage Johnston pump, Model No. JTA-2RH, 8", 700 GPM @ 30 PSI; US Electric Motor Model No. 324TP WPI 40 HP, 1600 Gallon Water Tank

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

330' of 8" PVC

C. Works used to apply water to beneficial use:

Valley Center Pivot, Model No. 4271, 7 Towers 1300' long with End Gun and Rain Bird Sprinklers, 650 GPM

The system is in the following condition Good. The point of diversion is located 1620' E and 1390' S of the NW corner of Section 16-T105N-R51W. The works are capable of diverting and conveying to the place of use 1.44 cu. ft. per second of water and/or storing acre-feet of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

Section 16-T105N-R51W:

NW1/4 NW1/4 = 32 acres

SW1/4 NW1/4 = 32 acres

NE1/4 NW1/4 = 32 acres

SE1/4 NW1/4 = 32 acres

comprising a total of 128 acres of land and the license should be issued for 1.44 cfs and/or acre-feet of storage.

Applicable permit qualifications have been complied with X Yes
No

Exceptions to compliance are: None Date 9/3/91



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

LICENSE FOR PERMIT NUMBER 2987-3

1. Legal location of wells: 1620' E and 1390' S of the NW corner of Section 16-T105N-R51W

Dams and Structures None

2. Well Information: Well Drilling Firm Gettling Industries

Completion Report? Yes X No No. of Wells 1 Depth(s) 65 feet

Casing a) diameter 14 inches Screen a) type Stainless Steel
.080 slot

b) length 50 feet

b) length 15.3 feet

c) type Steel

Static Water Level 31 feet

Pump a) make Johnston

Motor a) make US Electric

b) model JTA-ARH

b) model no. 324TP WPI

c) size 8"

c) horsepower rating 40

d) capacity 700 GPM

d) serial no. Unknown

e) turbine pump - no. of stages 3

f) operating PSI 30

3. Distribution lines or canals

a) size 8" inches

b) type PVC

c) length 330 feet

4. System Type a) sideroll:

b) towline:

c)gun:

d) center pivot:

- | | |
|----------------------------|--------------------------------------|
| 1) make | 1) make <u>Valley Model No. 4271</u> |
| 2) nozzle size | 2) number of towers <u>7</u> |
| 3) capacity (GPM) | 3) distance between towers |
| 4) hose size inches | 4) overall length <u>1300</u> feet |
| 5) hose length feet | 5) end gun (Y/N) <u>Y</u> |
| e) gated pipe: | 6) high or low pressure <u>High</u> |
| 1) length feet | 7) make and size of nozzles |
| 2) diameter inches | <u>Rain Bird Sprinklers</u> |
| 3) spacing of gates inches | 8) capacity (GPM) <u>650</u> |

NOTE: For Permits with additional wells or changes in well locations, record the following for each well: pumping capacity, date constructed, well driller and if a well log is available.

Indicate any other permit(s) which are associated with project

- | Yes | No | Check Items |
|----------|----|---|
| <u>X</u> | | 1. Soil and water permit lands agree with lands being irrigated and lands listed on permit? |
| <u>X</u> | | 2. Special qualifications to permit being abided by? |
| <u>X</u> | | 3. All structures, wells and lands on map? |
| <u>X</u> | | 4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period? |
| <u>X</u> | | 5. Is chemigation used? |
| <u>X</u> | | 6. If yes, does equipment comply with chemigation rules? |

REMARKS:



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

January 8, 1992

2987-3

Larry Alverson
RR 1
Chester SD 57016

Dear Mr. Alverson:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 2987-3, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Genny McMath
Natural Resources Analyst
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

415086

RECEIPT
Division of Water Rights
South Dakota Department of Water and Natural Resources

Pierre, January 28, 1992

RECEIVED OF Larry or Charlene Alverson, RR 1, Box 55, Chester, SD 57016
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
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 Works, confirming beneficial use and issuing Water License No. <u>2937-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By [Signature]
Chief Engineer

NOTICE OF WELL CONSTRUCTION

Permit
2987

(1) WELL CONSTRUCTION

Location of well: N1/4 1/4 Section 16 Township 105N Range 51W

Well owner _____ (Name) _____ (Address)

Date well drilling completed _____ Purpose of well _____ (domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer
1.0	CLAY
2.0	SAND
3.0	CLAY
4.0	SAND
5.0	CLAY
6.0	SAND
7.0	CLAY
8.0	SAND
9.0	CLAY
10.0	SAND
11.0	CLAY
12.0	SAND
13.0	CLAY
14.0	SAND
15.0	CLAY
16.0	SAND
17.0	CLAY
18.0	SAND
19.0	CLAY
20.0	SAND

Depth to top of water producing aquifer _____ ft.

Depth to static water level _____ ft.

Name of producing aquifer (if known) _____

Total depth of drill hole _____ ft.

Depth to bottom of casing _____ ft.

Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.

STEEL CASING

Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.

1.0' 2.0' 3.0' 4.0' 5.0' 6.0' 7.0' 8.0' 9.0' 10.0' 11.0' 12.0' 13.0' 14.0' 15.0' 16.0' 17.0' 18.0' 19.0' 20.0'

If a flowing well, flow of completed well _____ G.P.M.

Attach sheet if more space is needed

Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump _____ HP

Type of pump _____ Capacity of installed pump _____ G.P.M.

Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

Name of Pump Installation Contractor

NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION

Location of well: _____ 1/4 NW 1/4 _____ Section 16 Township 105 N Range 51 W

Well owner LARRY ALVERSON CHSTER S.D.
(Name) (Address)

Date well drilling completed 1-24-77 Purpose of well irrigation
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer _____ ft.
0-18	Sand-fine	Depth to static water level _____ 14 ft.
18-33	Fairly Coarse Gravel	Name of producing aquifer (if known) _____
33-60	Gravel	Total depth of drill hole _____ 84 ft.
60-84	Gravel & Sand	Depth to bottom of casing _____ 64 ft.
		Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.
		12" I.D. 33'
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.
		If a flowing well, flow of completed well _____ G.P.M.

Attach sheet if more space is needed

Name of Drilling Contractor

(2) PUMP INSTALLATION

PUMP INSTALLATION
Company name and size of pump Wm. H. Smith & Co. Inc. HP. 10

Type of pump _____ Capacity of installed pump _____ G.P.M.

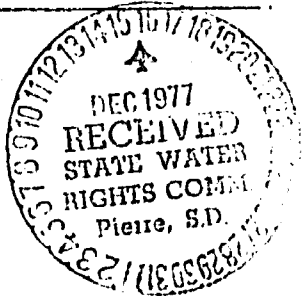
Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.409 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

Name of Pump Installation Contractor



SOUTH DAKOTA WATER WELL COMPLETION REPORT

SE NW 16 10A 5/11

Larry Allen
FBI Chicago

5206

3451

[illegible]

Black top rail
Y. Clay
Must Gravel
Grey Gravel

STATIC WATER LEVEL 27.6" Feet

if having it on pressure

through _____ PSI
_____ inch pipe

Controlled by: ☐ Valve ☐ Reducing ☐ Other

0.0500 1.0000

Conclude to completely shut out

WELL TEST DATA

References

☐ None

Pumping level Below Land Surface

_____ ft	After _____ hrs	pumped _____	GPM _____
_____ ft	After _____ hrs	pumped _____	GPM _____
_____ ft	After _____ hrs	pumped _____	GPM _____

REMARKS



CHANDLER CENTER

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

DATE

Larry Allen
FBI Chicago

5206

345.11

[illegible]

Black top rail
Y. Clay
Must Gravel
Grey Gravel

STATIC WATER LEVEL 27.6" Feet

if having it on pressure

through _____ PSI
_____ inch pipe

Controlled by: ☐ Valve ☐ Reducers ☐ Other

0.0500 1.0000

Conclude completely that of

WELL TEST DATA

References

☐ None

Pumping level Below Land Surface

_____ ft	After _____ hrs	pumped _____	GPM _____
_____ ft	After _____ hrs	pumped _____	GPM _____
_____ ft	After _____ hrs	pumped _____	GPM _____

REMARKS

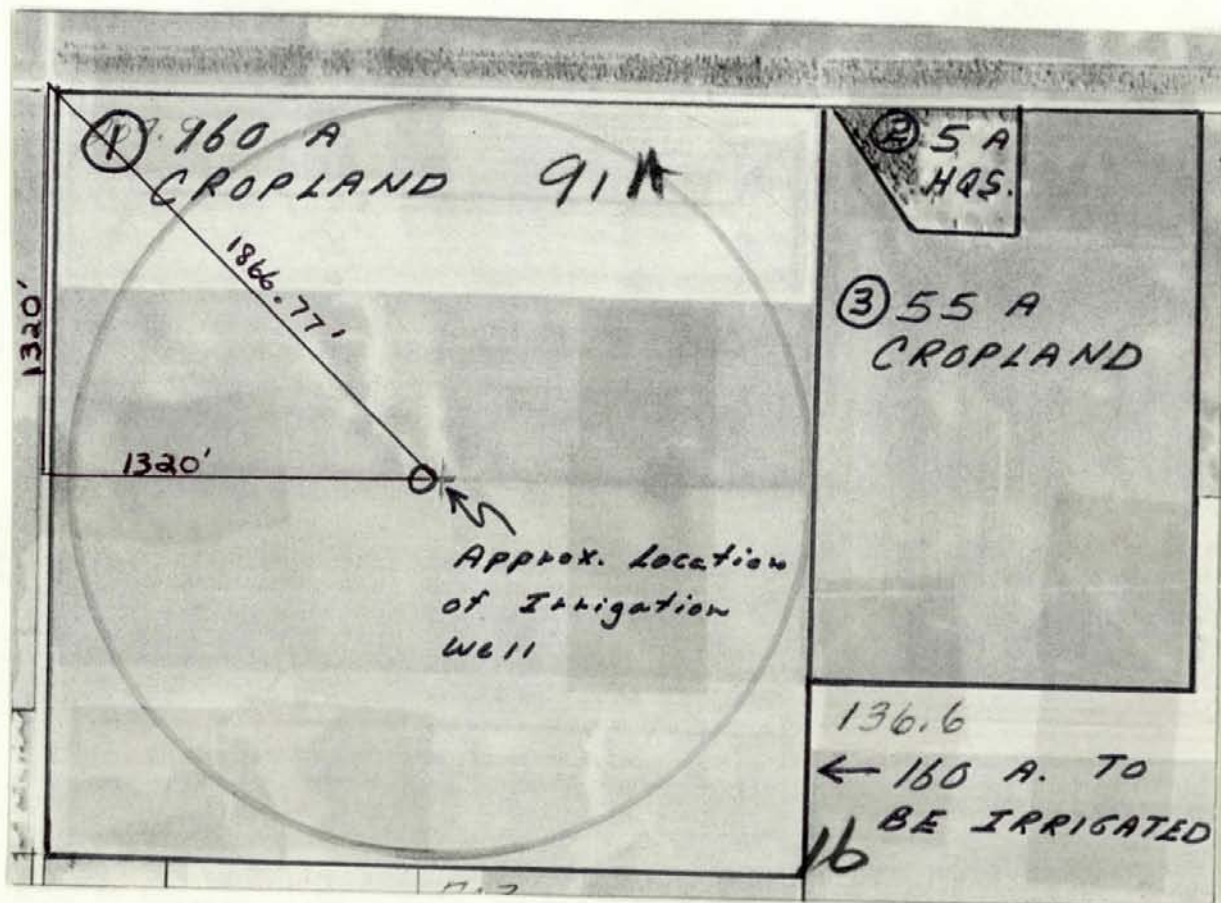


CHERRY STREET

CONSERVATION PLAN MAP

Owner Larry Alverson Operator Same
County Lake State South Dakota Date 8-27-76
Approximate acres 220 Approximate scale 8" = 1 Mile
Cooperating with Lake Co. Conservation District
N Plan identification _____ Photo number _____
Assisted by _____ USDA Soil Conservation Service

NW 1/4 - 16 - 105N - 51W



Certified Correct

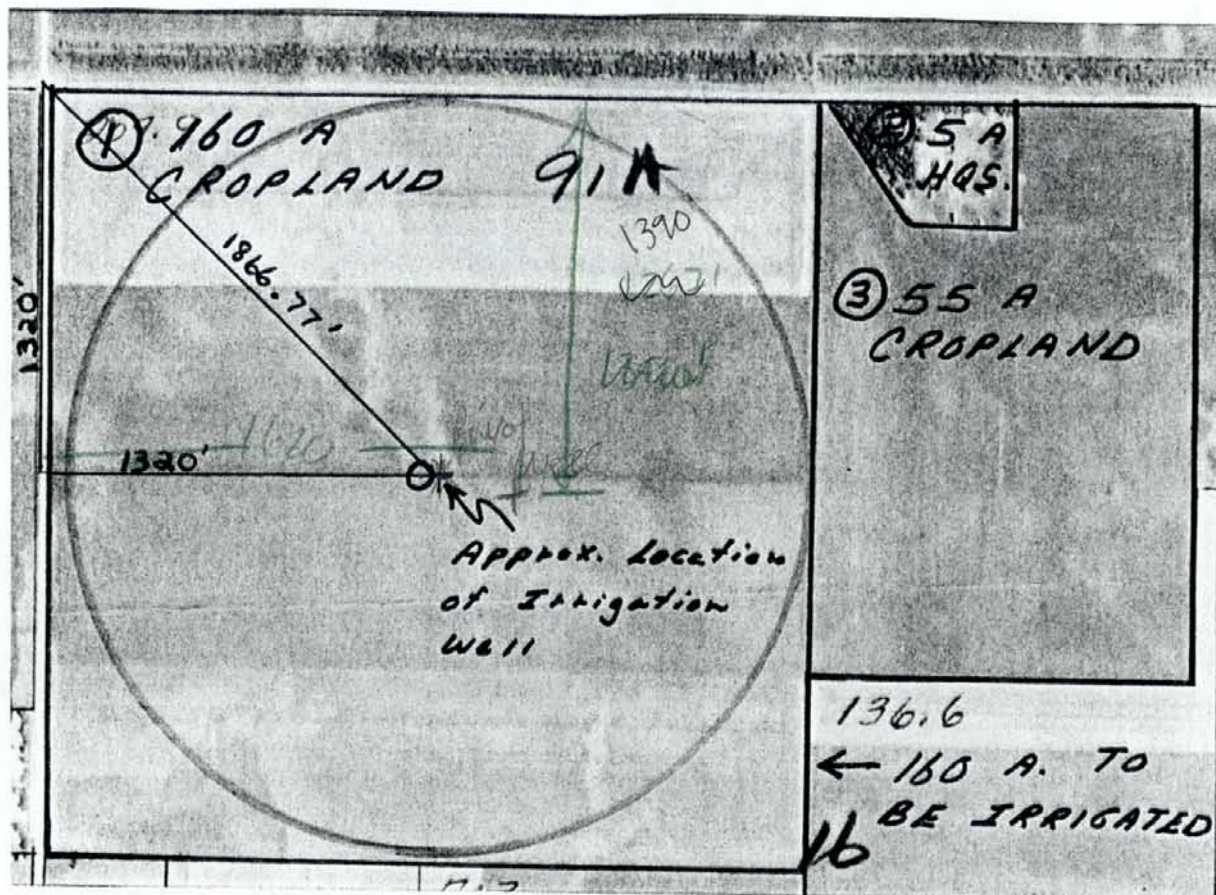
John Swenson

Map No 2316-3 App No 2987-3

CONSERVATION PLAN MAP

Owner Larry Alverson Operator Same
County Lake State South Dakota Date 8-27-76
Approximate acres 220 Approximate scale 8" = 1 Mile
Cooperating with Lake Co. Conservation District
N Plan identification _____ Photo number _____
Assisted by _____ USDA Soil Conservation Service

NW 1/4 - 16 - 105N - 51W



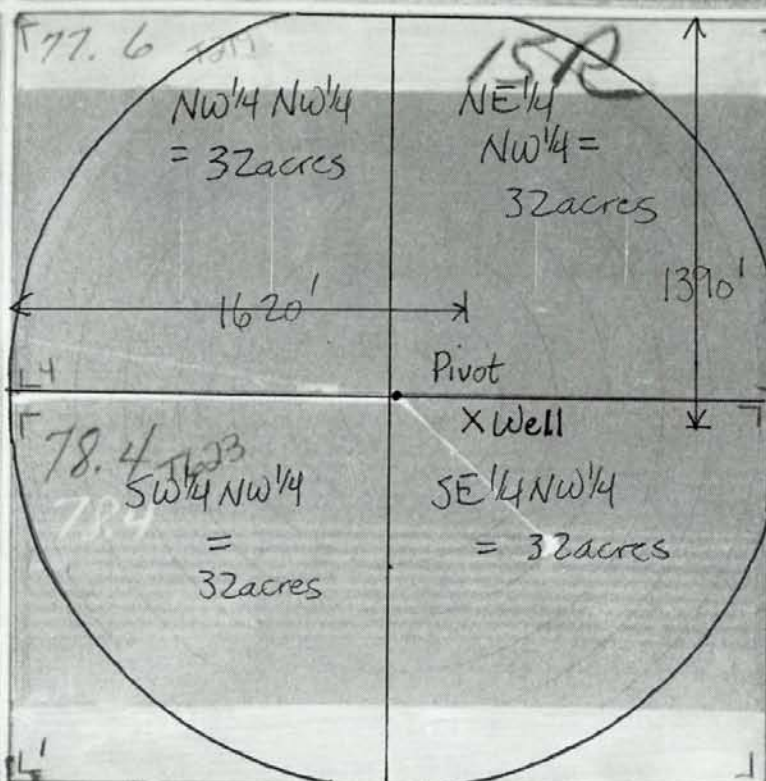
Certified Correct

John Swenson

Map No 2316-3 App No 2987-3

NOT TO SCALE

Section 16 T-105N-R51W:



Section 16 T-105N-R51W:

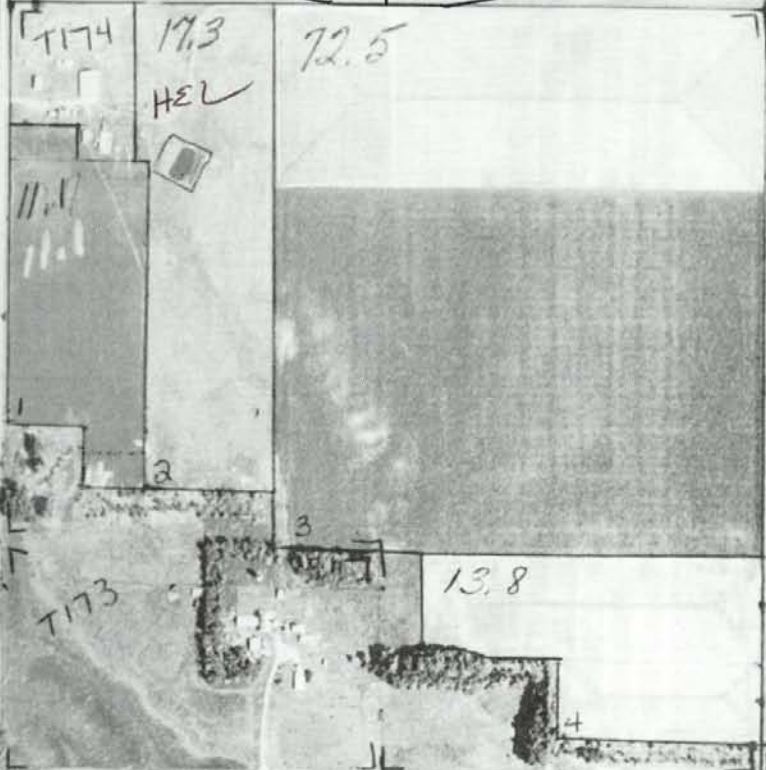
NW¹/₄ NW¹/₄ = 32 acres
 SW¹/₄ NW¹/₄ = 32 acres
 NE¹/₄ NW¹/₄ = 32 acres
 SE¹/₄ NW¹/₄ = 32 acres

Total = 128 acres

136.6 Application #2987-3
 16 TMD Larry Alverson

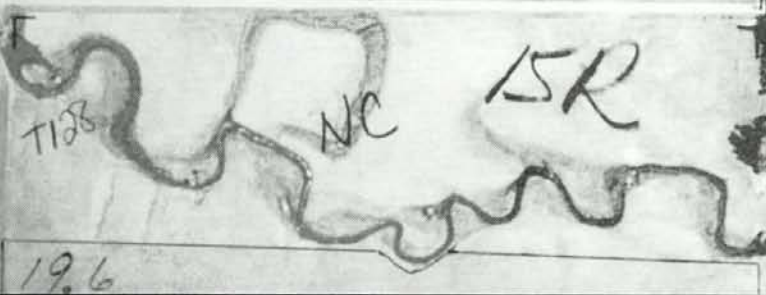
Drawn by:

Gregory C. Johnston
 Gregory C. Johnston
 Natural Resources Engineer
 DENR, Water Rights
 9/16/91



72.8
 T326

105-51



93.3
 93.3

29873



2987-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 18, 2008

NOTICE

TO: LARRY ALVERSON, 46257 240TH ST, CHESTER, SD 57016

FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2007 Irrigation Questionnaires

Our records indicate that the 2007 Irrigation Questionnaires have not been submitted. The request for the Questionnaires was dated October 19, 2007. The Water Management Board has directed that owners of water permits who have not submitted the 2007 Irrigation Questionnaires be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine if Permit No(s) 2987-3 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 5422A-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **10:00 am, March 11, 2008** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 5422A-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 2987-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is(are) received in this office on/or before **March 3, 2008**, you will no longer be in violation of your permit and your name will be deleted from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352. If you prefer, you can complete the questionnaire on-line at the following link:

<https://www.state.sd.us/eforms/secure/eforms/E0455V6-IQ.pdf>

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 29, 2008

2987-3
5422A-3

Larry Alverson
46257 240th St
Chester SD 57016

Dear Mr. Alverson:

I am writing to acknowledge receipt of your 2007 irrigation questionnaires. You may disregard the January 18, 2008, "Notice" concerning reporting requirements for Water Right Nos. 2987-3 and 5422A-3.

The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352