

No. 2336-3Map No. 1716-3 Water Division No. 3 MISSOURI RIVER District 01810557075
(Blanks to be Filled by the Engineer for the W. R. C.)APPLICATION FOR PERMIT JUN 25 1975STATE WATER RIGHTS COM.
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant Albert Kirchenmann
Postoffice address Faroka, State South Dakota
If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) direct labor
3. Name of diversion work Albert Kirchenmann Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2 cu. ft./sec
5. Source of water supply ground
6. Location of point of diversion #1 80 rds S 145 rds E of the NW corner of Sec. 33-126-71, #2 28 rds W 63 rds S of the NE corner of Sec. 33-126-71 County McPherson
7. Annual period or periods during which water is to be used April through Sept.
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation
9. For irrigation use, 145000 Total number of acres to be irrigated 248

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 NE ⁴ Sec. 33-126-71	32	SE ¹ NW ⁴ Sec. 33-126-71	40
NW ¹ NE ⁴ Sec. 33-126-71	40	NE ¹ NW ⁴ Sec. 33-126-71	40
SW ¹ NE ⁴ Sec. 33-126-71	40	NW ¹ NW ⁴ Sec. 33-126-71	16
SW ¹ NE ⁴ Sec. 33-126-71	40		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 3 years. Additional time required to complete application of water to the proposed beneficial use 2 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Northwest Blade
12. Principal Features of the Proposed Water Supply System.
- A. Works proposed to divert water from its natural source. pump from wells
- B. Works proposed to transport water to place of use. pipeline
- C. Works proposed to apply water to beneficial use. Towline - sprinkler

Estimated Total Cost \$ 18000.00Attachment: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
(See instructions concerning preparation.)

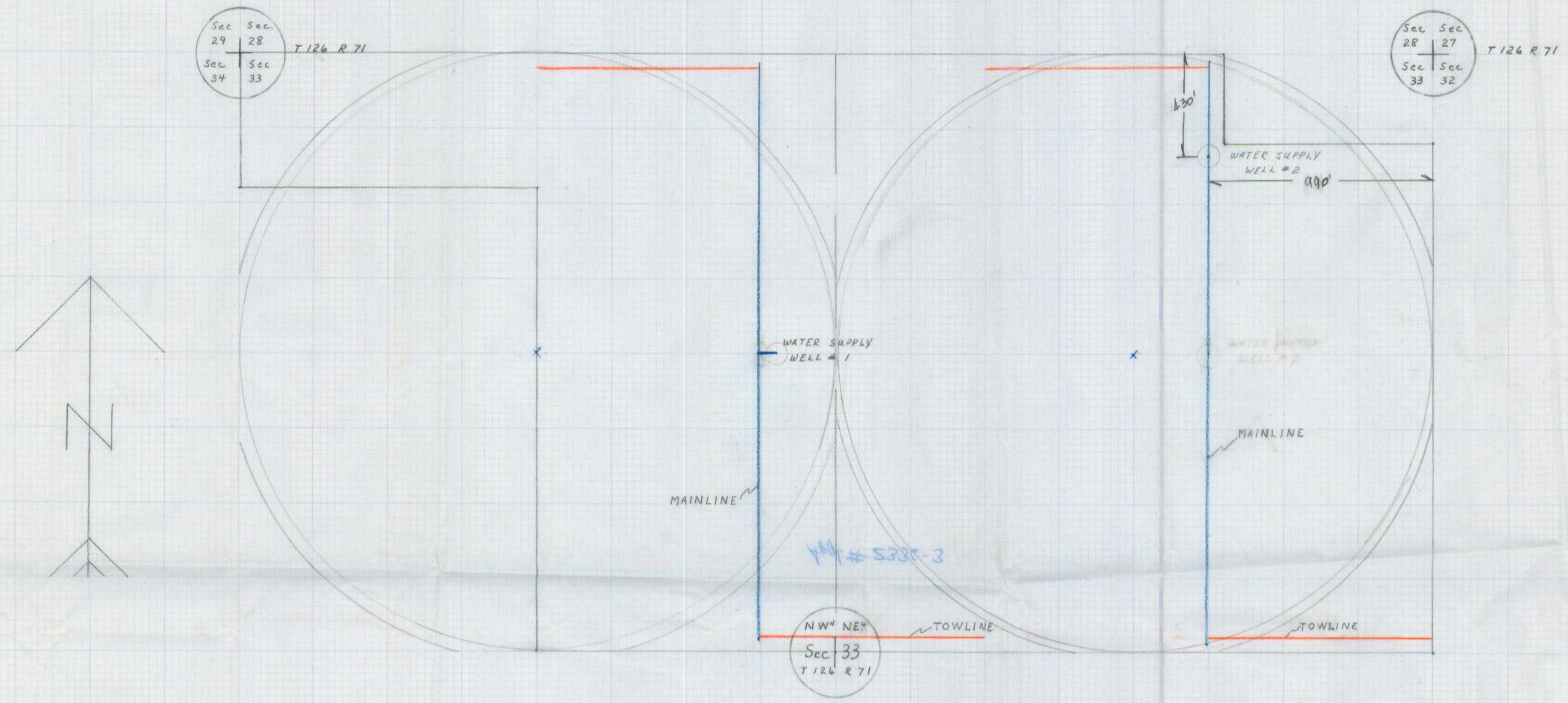
STATE OF SOUTH DAKOTA

County of McPhersonI, Albert Kirchenmann, 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 constructionSigned Albert KirchenmannSubscribed and sworn to before me this 21 day of JUNE, 1975.

Notary Public (or other qualified officer)

LYNN KARY
NOTARY PUBLIC, SOUTH DAKOTA
COMMISSION EXPIRES 3-26-83

W-1JIP-3



Scale - 16" = 1 mi.

ALBERT KIRSCHENMAN
IRRIGATION PROJECT # 1

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed.....	Date.....	Approved by.....
Drawn <u>JR Schaffer</u>		Title.....
Traced.....		Title.....
Checked.....	Sheet No. of.....	Drawing No.

MAP ~~1716-3~~ APPL # 2336-3

SCS-313B (APRIL 1963)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2336-3

ALBERT KIRSCHENMANN
(Applicant)

EUREKA
(Post Office Address)

SOUTH DAKOTA 57437
(State) With the following modifications:

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.

Cancelled
7/14/80
See W/L 4129-3

Date of first receipt of application JUNE 25, 19 75

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

Date of receipt of corrected application SEPTEMBER 16, 19 75

Approved NOVEMBER 13, 19 75, Recorded in Book 14, Page 73

WATER RIGHT PERMIT NO. 2336-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2336-3, 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 SEPTEMBER 16, 19 75
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 13, 19 77
3. The whole of said work is to be completed on or before NOVEMBER 13, 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 13, 19 80
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 2.0 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 NOVEMBER 13, 19 80; said water to be used during the following described annual period: APRIL THRU SEPTEMBER

Witness my hand this 17TH day of NOVEMBER, 19 75

WATER RIGHTS COMMISSION

By:

John H. Hark
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION

Location of well: NW 1/4 NE 1/4 Section 33 Township 126 Range 71

Well owner ALBERT KIRSEHENMANN EUREKA, S.D.
(Name) (Address)

Date well drilling completed 2-28-75 Purpose of well TEST HOLE
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer
<u>0-5</u>	<u>TOPSOIL</u>
<u>5-8</u>	<u>FINE SAND</u>
<u>8-25</u>	<u>COURSE SAND</u>
<u>25-71</u>	<u>" "</u>
	<u>STONES</u>
<u>75-81</u>	<u>GRAY CLAY</u>
<u>81-82</u>	<u>ROCKS</u>
<u>82-85</u>	<u>CLAY</u>

Attach sheet if more space is needed

Depth to top of water producing aquifer 8 ft.
Depth to static water level _____ ft.
Name of producing aquifer (if known) _____
Total depth of drill hole 85 ft.
Depth to bottom of casing 85 ft.

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

4" - 160 lbs., PLASTIC

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

45'

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

DUANE MAATZ

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

COPIED BY HAND OFF ORIGINAL.

Thomas A Gardin

THOMAS A GARDIN

WATER RESOURCES ENGINEER

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 30", Depth 70'
(2) Casing, Type concrete Diameter 30" Thickness 2"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type _____, Diameter _____, Length _____
(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 SANDS + GRAVELS

Depth to top of water bearing material 8'
Depth to bottom of water bearing material 75'
Thickness of water bearing material 67'
Depth to water (ground surface to water level) 6'

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

On same owner's property 160 rds. On property owned by others 320 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.

Alfred K. Richardson
Signature of Applicant

2336-3

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County McPherson) ss.

I, Arlo C. Mehlhaff hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Northwest Blade Inc.

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the North-
west Blade Inc. of Eureka, S. Dak.

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

September 25, 1975

October 2, 1975

Arlo C. Mehlhaff
(Signature)

Publisher
(Title)

October 23, 1975
(Date Signed)

NOTICE
INTENT TO APPROPRIATE
WATER

Notice is hereby given that
Albert Kirschenmann whose
post office address is Eureka,
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 2.00 cubic feet of water per
second of time from the ground
water through the Kirschen-
mann No. 1, the point of divers-
ion of which is to be located in
the SE $\frac{1}{4}$ NW $\frac{1}{4}$ and NE $\frac{1}{4}$ NE $\frac{1}{4}$
of Section 33, Twp. 126N, Range
71W. Said water to be used for
the purpose of providing irri-
gation on portions of the fol-
lowing described land: NE $\frac{1}{4}$,
E $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec-
tion 33, T126N, R71W.

This application No. 2336-3
will be considered by the Water
Resource Commission at their
office at Pierre upon the 12th
day of November, 1975, at 2:30
P.M. All interested persons
may appear and be heard.

Water Resource
Commission

By: Burton F. Jones
Water Rights
Specialist

9 - 25 - 10 - 2 - 75

August 21, 1975

Mr. Albert Kirschenmann
Eureka, SD 57437

Dear Mr. Kirschenmann:

We have received your WI 1 form and the water sample which you submitted back in March has been analyzed long since, of course. I believe you received the original copy of this water analysis report back in March. This is your copy to keep.

I am enclosing a copy of extension circular 654 with considerable information about the water quality and soil compatibility. On the outside back cover of this circular, you will find a red encircled cross indicating the approximate quality of this water for irrigation use. You will note that it's high in salinity and low to medium in sodium hazard. For these reasons, this water should be used in large quantities and rather infrequently. Thus, I would recommend that you irrigate with 3 to 4 inches application each time and do not use it more than 3 times a growing season at the most, preferably less. The frequent use of this water in small quantities will accelerate the accumulation of salt in the upper part of the soil and cause difficulties in crop germination and growth.

The soils which you have are moderately suitable and if you begin to see evidence of salt accumulation as indicated by greyish crusts on the surface, either cease irrigation or get in touch with your extension service for information on techniques to reduce the damage of salt which is accumulating.

A copy of this letter, the WI 1 forms and a copy of the water analysis are being sent to the State Conservation Commission.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOFickb
cc: State Conservation Commission
D. Pahl
Wayne Nashy, County Extension Agent
Enclosures



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

Submitted by: Albert Kirschmann
 Address: Sioux Falls, SD 57437

Date Rec'd March 3, 1975
 Sample No. 75-132
 Identification Well-80
NE1, Sec. 33, T. 126N, R. 71W

WATER ANALYSIS

Calcium (Ca)	91	ppm*	4.55	me/l**
Magnesium (Mg)	28	ppm	2.30	me/l
Sodium (Na)	204	ppm	8.87	me/l
Potassium (K)	17	ppm	0.44	me/l
Sulfate (SO ₄)	470	ppm	9.78	me/l
Nitrate (as N)	0.15	ppm	0.01	me/l
Chloride (Cl)	26	ppm	0.71	me/l
Bicarbonate (HCO ₃)	268	ppm	4.40	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)		ppm		
Alkalinity (Methyl Orange)	220	ppm (as CaCO ₃)		
Alkalinity (Penolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1286	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	4.79			
Sodium	54.88	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.19			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 16.16 me/l
 Total anions 14.90 me/l

This water is considered satisfactory for all livestock.

By: Shirley Witten

Service Performed	Amount Due
Determinations shown above.	\$8.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 75-132

Amount Enclosed \$ _____

Signed _____

Conservation
Commission
Form WL #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 Well Irrigation Only)

FOR COMMISSION USE ONLY

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: _____

NAME: Albert Kirschenmann

ADDRESS: Eureka, S. Dak.

COUNTY: McPherson

LEGAL DESCRIPTION

1. WELL LOCATION: #1 NW 1/4 Sec 33-126-71 #2 NW 1/4 NE 1/4 Sec 33-126-71

2. AREA TO BE IRRIGATED: N 1/2 Sec 33-126-71

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): Gun and Trough

4. CROPS TO BE IRRIGATED: Corn, Alfalfa, Beans

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 3-6%

6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: Lehr, Bouldie and Wabak

Soils. Lehr soil, about 60% of area to be irrigated.

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 75-132

8. SALINITY: EC = 12.86 (High)

9. SODIUM: SAR = 4.79 (Low-medium)

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

_____ and:

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

Alfred Kirschman

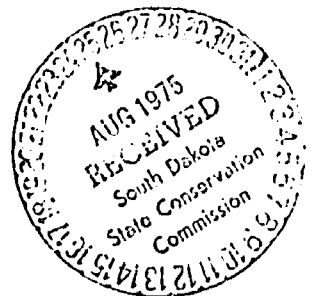
Subscribed and sworn before me this

21 day of JUNE 1975.

Robert Kary

ROBERT KARY
NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 4-20-77

(Title)



SOUTH Dakota Department of
Water & Natural Resources

Joe Foss Building Water Rights, Water Management Division
Pierre, South Dakota 57501 (605) 773-3352

July 14, 1980

Albert Kirschenmann
Eureka,
South Dakota 57437

Dear Mr. Kirschenmann:

Enclosed herewith are, Water License No. 4129-3 and Certificate of Construction.

Water License No. 4129-3 is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights, WMD

JH:kw

enclosures

NOTE: The applicable portions of Permit No. 2336-3 have been incorporated into this Water License, and Permit No. 2336-3 has been cancelled.

2336-3 M-33 less 9A 1977 copy 4
16-105

NOT TO SCALE

