

index
10-30-79

Cancelled
4-7-82

7-9-80

11-4-80

Produced this p. 100
But don't need in this p. 100

REDUCED AD NO. 100
1670-2 KIEITH & ESTHER KATSCH OPERATOR
FAIRBURN, SD 5738

Wa Right No. 1670-2

To be Considered SEPT 27-1979

County CUSTER about 2S, 4 1/2

Miles EAST of CUSTER

APPLICATION

Name KEITH & ESTHER KATSCH Address FAIRBURN, SD

Date 1-18-79 Application Complete - Yes No ☒

Date 1-19-79 Reason Map did not have exact location

Returned 1-19-79 Reason Map did not have exact location

of the dam - no wa

Date Received 3-22-79 SOURCE Runoff

Corrected Appl. 3-22-79 SOURCE Runoff

USE IRR - WS ACRES 60 C.F.S. .86

ACRE-FEET Diversion Location

SE 1/4 SW 1/4 36-4S-8E

Land to be Irrigated SE 1/4 SW 1/4 36-4S-8E & NE 1/4 NE 1/4 1-5S-8E

Period of annual use Apr 1 - Nov 1

MAP Type of Map Aerial Prepared by SCS

Map No. 1433-2 Map located in W/R X Map File

FEE Received - Yes ☒ Amount 150.00 No. Date of letter

REASON

Date Returned Corrected

LOG Received w/App. - Yes ☒ No Date of Request

REASON

Date Received

DRILLER Licensed in SD Yes No.

DEPTH AND FORMATION Dam - 12.2' high - Depth - 9.2'

Storage - 34.1 ac ft - Surface area 3.3 acres.

OTHER INFORMATION
FILED WITH
ER RIGHT

WATER
QUALITY

Date Received June 22, 1979 Date Approved ()
and/or-Conditional by S.C.C. _____
(Circle one)

Date Disapproved by S.C.C. _____ Reason _____
Date Disapproved _____
Application Returned _____

RI-1 Land
Description- same as Application- yes _____ no _____ Remarks _____

REVIEWED

This application was reviewed within 30 days of receipt, accepted as complete,
Number assigned and written up for advertisement before the Board on
Sept 27, 1979

Betty Westlund
(Signed)

This Application was unable to be completed - Reason _____

PUBLICATION

Dates Published - 1st 8-23-79 2nd 10-4-79
Date _____
Affidavit Received _____ Remarks _____
Custer Co. Chronicle

PROTESTS

Letters/Petitions In File Yes _____ No _____ Remarks _____

STAFF REC-
OMENDATIONS

BOARD
ACTION

upon receipt of Affidavit
Date Approved 9-27-79 Qualifications Personal of this
Person authorized storage of 34.1 ac ft of
water annually
Deferred - Date _____ Reason _____

Denied - Date _____ Reason _____

REMARKS
F.F. & C. OF
LAW, FINAL
DECISIONS,
ETC.

No. 1670-2Map No. 1433-2 Water Division No. 2 BATTLE CREEK District UC
(Blanks to be Filled by the Engineer for the W. R. C.) 10120109

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant Kieth M. and Esther J. Katsch
Postoffice address Bathurst, 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) contract
3. Name of diversion work KATSCH IRRIGATION PROJECT
4. Amount of water claimed (cubic feet per second) 26 cubic feet per second
5. Source of water supply from well
6. Location of point of diversion SE 1/4 of SW 1/4 Sec. 24 T45N R22E
- County Custer
7. Annual period or periods during which water is to be used April 1 thru November 1
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation (water spreading)
9. For irrigation use, Total number of acres to be irrigated 60

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.
SE 1/4 of SW 1/4 Sec. 24 T45N R22E	20		
NE 1/4 of NE 1/4 Sec. 1 T45N R22E	30		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 years. Additional time required to complete application of water to the proposed beneficial use none years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Custer County Chronicle
12. Principal Features of the Proposed Water Supply System.

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

Rebuild existing dam and ditch. Also install level line ditches.

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

Ditch

C. Works proposed to apply water to beneficial use.

Level line ditches

Estimated Total Cost \$ 6,000.00Attachments: 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 Fall River)I, Kieth M. & Esther J. Katsch 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 Kieth M. Katsch & Esther J. KatschSubscribed and sworn to before me this 3rd day of January 1979

Notary Public (or other qualified officer)

RENE' ANDERSON, Notary Public

My commission expires:

April 16, 1981.

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 1670-2
KEITH M. & ESTHER J. KATSCH FAIRBURN
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57738 With the following modifications:
 (State)

Approval of this permit authorizes the storage of 34.1 acre feet of water annually.

Date of first receipt of application JANUARY 18, 19 79
 Date of return to applicant for correction, amendments or changes required JANUARY 19, 19 79
 Date of receipt of corrected application WQ JUNE 22, 19 79
 Approved SEPTEMBER 27, 19 79, Recorded in Book 21 Page 47

WATER RIGHT PERMIT NO. 1670-2

The Water Rights Commission hereby grants and issues this Water Right Permit No. 1670-2 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 JUNE 22, 19 79
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 27, 19 80
3. The whole of said work is to be completed on or before SEPTEMBER 27, 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is SEPTEMBER 27, 19 81
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 .86 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 2 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 SEPTEMBER 27, 19 81; said water to be used during the following described annual period: APRIL THRU NOVEMBER

Witness my hand this 4th day of OCTOBER, 19 79

WATER RIGHTS COMMISSION

By:

John Katsch
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCE 06-16.3, AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)

NAME Kiath M. and Esther J. Katsch 255-4489

ADDRESS Fairburn, South Dakota

COUNTY _____ Custer

LEGAL DESCRIPTION

1. WELL LOCATION

2. LOCATION OF AREA TO BE IRRIGATED SE¹ of SW¹ Sec. 16 T4 R8, NE¹ of NW¹ Sec. 1 T5 R8

TYPE OF IRRIGATION

3. GRAVITY Y TOWLINE _____ CENTER PIVOT _____ GUN _____

4. CROPS TO BE IRRIGATED Grass and Hay 11/2 in Dec. 1 if water @ 5 cfd

WATER QUALITY

5. SAMPLE NUMBER 79-229

6. SALINITY (EC X 10⁶)

7. SODIUM (SAR) 2.95

8. RESIDUAL SODIUM CARBONATE (meq/l.) 0.0

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 _____ Conservation District, _____ County Extension office or Soil Conservation Service.

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

APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
7th DAY OF May 19 79.

(TITLE OR SEAL) Notary Public

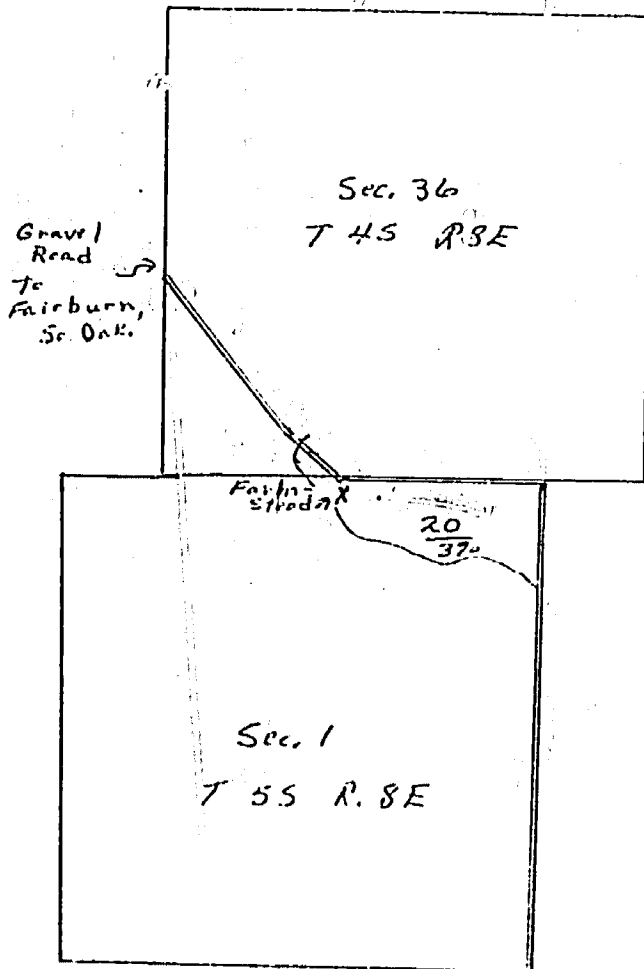
Commission Expires 4-5-82

(SOILS INFORMATION ON REVERSE SIDE)

(This Additional soils inf
clarifies original.)



Keith Katsch waterspreading soils information
(supplement)



Legend
20 Pierre clay

Kerry Stiner
SCS Custer

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57007

Submitted by: Kieth Katsch
 Address: Fairburn, SD 57738

Date Rec'd: May 9, 1979
 Sample No.: 79-229
 Identification: Lxm

WATER ANALYSIS

Calcium (Ca)	29	ppm*	1.45	me/l**
Magnesium (Mg)	4	ppm	0.31	me/l
Sodium (Na)	21	ppm	0.91	me/l
Potassium (K)	8	ppm	0.21	me/l
Sulfate (SO ₄)	33	ppm	0.69	me/l
Nitrate (as N)	6	ppm	0.17	me/l
Chloride (Cl)	59	ppm	0.96	me/l
Bicarbonate (HCO ₃)	24	ppm	0.80	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)	48	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	40	ppm (as CaCO ₃)		
Electrical Conductivity	328	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.95	Adjusted SAR	1.35	
Sodium	31.60	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	8.70			
Others:				

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

COMMENTS: Total cations 2.88 me/l
 Total anions 2.62 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$15.00

Make checks payable to: Water Quality Laboratory

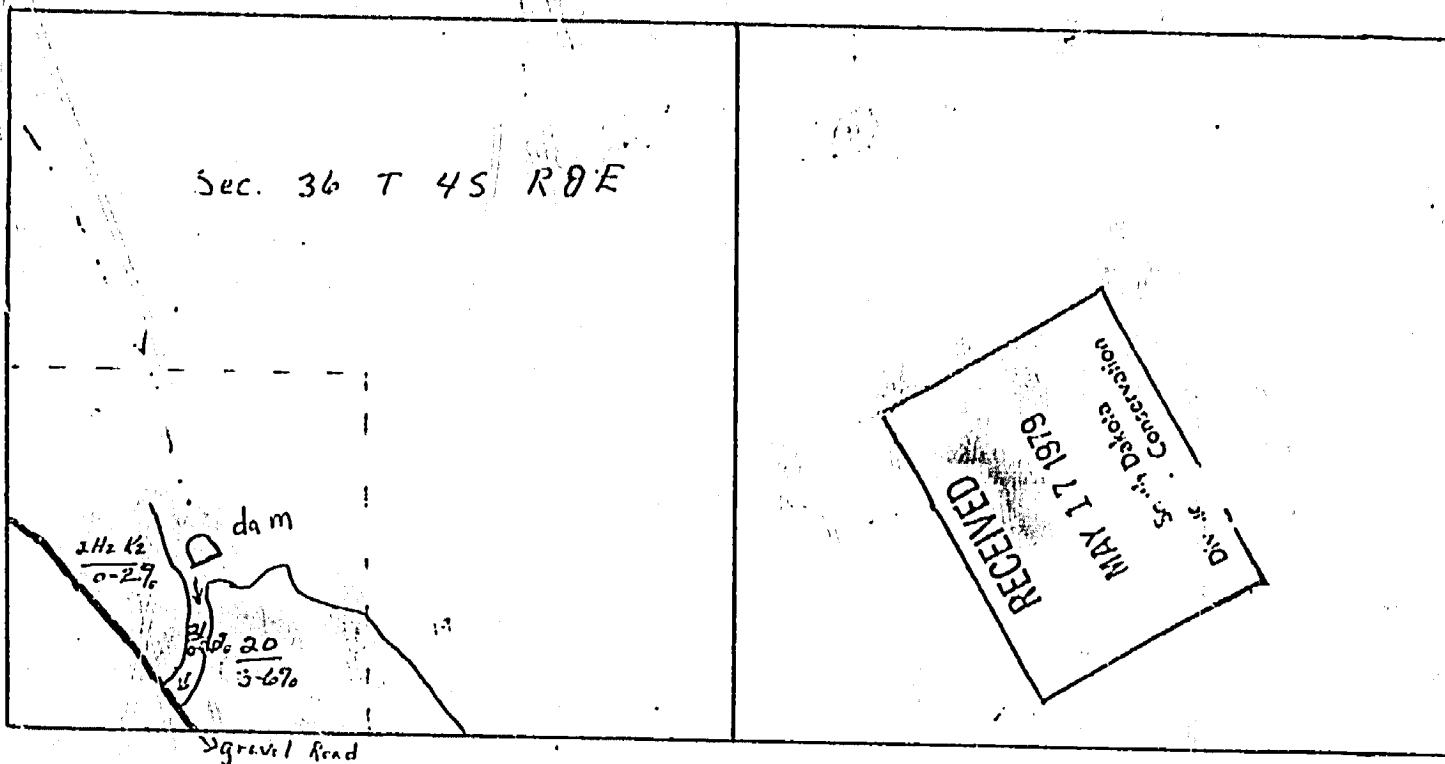
Cut along dotted line and return the lower portion with payment

Sample No. 79-229

Amount Enclosed \$

Signed

MAP



NARRATIVE

20- Pierre clay - slope 3-6%
Kyle clay complex

Kyle clay has .1 intake family

21- Pierre Samsil clay - not suited for irrigation or
water spreading.

2H2 K2 - Kyle clay 0-2% slope

Kyle clay has .1 intake family

Note: Above soils information taken from an outdated soil survey.
Since the information is for a water spreading system that is dependant
on runoff I believe the information is satisfactory.

Sincerely,
Kerry Steiner S. 'Cons. Service

Water Rights Copy

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

DIVISION OF CONSERVATION

NAME OF APPLICANT Keith M and Esther J. Katsch, Fairburn, SDSOIL RESTRICTIONS:THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:

21 Pierre-Sansil Clay

RECOMMENDED MANAGEMENT:

1. Water should not be applied more than times during the irrigation season.
2. Each uninterrupted application (one rotation of center pivot) should be of at least inches of water.
3. ☒ Yes ☐ No Surface drainage suggested on any area that tends to pond
4. ☐ Yes ☐ No Subsurface drainage suggested on water.
5. ☐ Deep tillage (for the purpose of aiding movement of water through dense subsoils.

COMMENTS: Occasional use will be beneficial.

6. ☐ Heavy fall application of irrigation water.
7. Type of irrigation system recommended for use on this application gravity.

GENERAL COMMENTS:

Part of your application calls for waterspreading and part of your application calls for controlled flooding from your dam by means of a pipe and valve assembly.

Because of the limited quality of water stored for irrigation purposes, water management becomes important. Timely amounts of water applications, crop selection, and deep tillage are some of your water management considerations.

Copy to applicant
Copy to Water Rights
Copy on File

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 _____, Depth _____

(2) Casing, Type _____ Diameter _____ Thickness _____
(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 _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property _____ rds. On property owned by others _____ 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.

Height of Dam: 12.2 Feet

Maximum water depth 9.2 Feet

Storage capacity 14.1 acre feet

Surface area 3.3 acre

Heath M. Fickel, Esq.
Signature of Applicant

No. 1670-2

Publish first publication, on or before August 31, 1979

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

August 13, 1979

Notice is hereby given Kleth M. & Esther Katsch whose post office address is Fairburn, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use .86 cubic feet of water per second of time from ~~xxxx~~ runoff-dam through the Katsch Irrigation Project, the point(s) of diversion of which is (are) to be located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$

of Section 36, Twp. 4S, Range 3E. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 36, T4S, R8E and NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 1, T5S, R8E

This Application No. 1670-2 will be considered by the Water Management Board at the Community Room, City Hall 222 E Dakota, Pierre, SD upon the 27th day of September, 1979

at 10 AM. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person 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 at the hearing. Decisions of the Board may be appealed to the Courts as provided by law.

WATER MANAGEMENT BOARD

BETTY WESTLUND
Water Rights Specialist

cc: Kleth M & Esther Katsch Fairburn, SD 57738

STATE OF SOUTH DAKOTA)
COUNTY OF CUSTER) SS.

notice of hearing

**NOTICE OF HEARING ON APPLI-
CATION TO APPROPRIATE WATER**
Pierre, South Dakota 57501
August 19, 1979

Notice is hereby given Kleith M. & Esther Katsch whose post office address is Fairburn, South Dakota, has made an application in accordance with the provisions of SDGL 46-1-1 thru 46-1-9, 46-1-14, 46-2-9 thru 46-2-11, 46-2-13, 46-5-1 thru 46-5-8, 46-5-10, thru 46-5-22, 46-5-41, and Board Rules ARSD 62010101 thru 52-01-01:13 for a permit to appropriate for beneficial use .86 cubic feet of water per second of time from run-off-dam through the Katsch Irrigation Project, the points of diversion of which is (are) to be located in the SE 1/4 SW 1/4 of Section 38, Twp. 44S, Range 6E. Said water to be used for the purpose of providing irrigation on portions of the following described land: SE 1/4 SW 1/4, Section 30, T4S, R8E and NE 1/4 NE 1/4, Section 1, T6S, R8E.

This Application No. 1670-2 will be considered by the Water Management Board at the Community Room, City Hall, 222 E. Dakota, Pierre, SD upon the 27th day of September, 1979, at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person 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 at the hearing. Decisions of the Board may be appealed to the Courts as provided by law.

WATER MANAGEMENT BOARD
/s/Betty Westlund
Water Rights Specialist

cc: Kleith M. & Esther Katsch, Fairburn, SD 57738
#228 8/30/79

that the full amount of the fees for the publication of the annexed notice is \$ 12.00.

My commission expires May 10, 1984

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 6718

PIERRE, January 19, 1979

RECEIVED OF Kleth H. Katsch, Fairburn SD 57738

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. 1670-2 (examination, processing, recording and filing)	150	00
Fee for Inspecting Construction, and issuing Cert. of Construction No.		
Fee for Inspecting Beneficial Use, and issuing Water License No.		
Fee for Issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	150	00

1-17-79
Personal ck. #3095

WATER RIGHTS COMMISSION

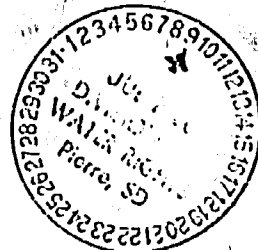
By John H. Hatter
Chief Engineer, Executive Officer

JOHN HATTER KJW

Form 10.

No. 1670-2

C. L. L.



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

Post Office Fairbairn S.D.

Date 7/6/80

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. _____.

Water Right Permit No. 1670-2 states that the diversion system is to be constructed by Sept., 1981 and that the water is to be put to beneficial use by Sept., 1981.

The diversion system was completed on June, 1980.
Applying the water to beneficial use was completed on _____,
19____. *No run off due to Drought.*

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.

Keith Kahle
(Signature)

for
Dam - point of diversion will
be a metal tube on west half
the dam. Area to be irrigated is
outlined below
Kerry Stiner
Silt Cons Service

← Area outlined is the
perimeter of water spread
area. The terrain is
such that every acre
within the inked line
will not receive water.

NOT TO SCALE

268-R

57.8

48.5

11.7

NE $\frac{1}{4}$ NE $\frac{1}{4}$
30 AC

104

62.7

41.4

Note: the N $\frac{1}{2}$ of sec 1 is
2900' X 5280' (approx)

50.1

3.0

12.3

Kieth + Esther
Katch

5-8

268-R

Permit No. 1670-2

