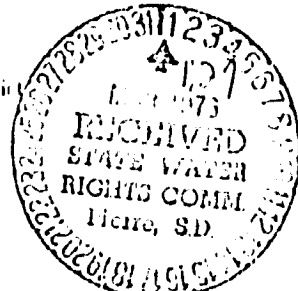


2615-3

1. Considered 3-17, 1976
2. Name of Applicant ROBERT ENDRES
3. Post Office Address WATERTOWN
4. Amount of water claimed 2.23
5. Source of water supply GROUND WATER
6. Water to be used for IRRIGATION
Acres to be irrigated 160
7. Water to be diverted and used in CODINGTON county
about 3E, 4S miles of WATERTOWN
8. Proof of Publication Received 3-16-76
Not received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks:

No. 2615-3
 Map No. 1982-3 Water Division No. 3 Big Sioux River District _____
 (Blanks to be Filled by the Engineer for the W. S. 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 Robert Endres
 Postoffice address RR 4, Watertown, State South Dakota
 If a corporation show date and place of incorporation N.A.
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work Endres Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.23
5. Source of water supply underground (well)
6. Location of point of diversion center of Sd. Section 22-116N-57W

County Codington

7. Annual period or periods during which water is to be used May - August
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 160 acres

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.

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2-5 years. Additional time required to complete application of water to the proposed beneficial use 5-0 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Watertown Public Opinion
12. Principal Features of the Proposed Water Supply System.

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

pump

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

pipe

C. Works proposed to apply water to beneficial use.

sprinkler system

Estimated Total Cost \$ 65,000.00

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 Codington)

I, _____ 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 Robert EndresSubscribed and sworn to before me this 27th day of February 19 76

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2615-3ROBERT ENDRES

(Applicant)

R.R. #4, WATERTOWN

(Post Office Address)

SOUTH DAKOTA 57201

(State)

With the following modifications:

The irrigation well approved under this Permit will be located near domestic wells and other irrigation 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 or in irrigation wells having prior water rights.

Date of first receipt of application MARCH 1, 1976

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

Date of receipt of corrected application MARCH 4, 1976Approved MARCH 17, 1976, Recorded in Book 15 Page 39WATER RIGHT PERMIT NO. 2615-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2615-3 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 MARCH 1, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17, 1978
3. The whole of said work is to be completed on or before MARCH 17, 1981
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17, 1981
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 2.23 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 17, 1981; said water to be used during the following described annual period: MAY - AUGUST

Witness my hand this 25TH day of MARCH, 1976

WATER RIGHTS COMMISSION

By:

J. H. M. [Signature]
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

March 15, 1976

Robert L. Endres
P.R. #4
Watertown, SD 57201

Dear Mr. Endres:

I am enclosing herewith the original copy of the report of analysis of water sample #76-174 submitted here March 2. Also enclosed you will find a copy of AES publication #13 with the approximate quality of this water for irrigation purposes designated by the red cross on the outside back cover. You will see that it is moderately high in total salinity but low in sodium. This means that there is some hazard of this water adding salt to your soil and by this I mean salts of all kinds, not common table salt as your water is very low in sodium. This salt hazard, however, should not present any problem in the climatic zone of Codington County and with the very permeable Fordville soils which you intend to irrigate. If there should be difficulty with the salt accumulation on the surface as evidenced by poor performance of crops or gray salt crusts, get in touch with your extension office or someone at SDSU in soil or water work for management advice on the problem.

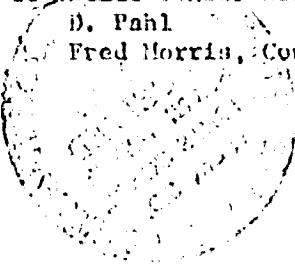
A copy of this letter, and of the water analyses plus your WI 1 form are being sent to the State Conservation Commission for their formal action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures
cc: State Conservation Commission
D. Pahl
Fred Morris, County Extension Agent



CONSERVATION
COMMISSION
WI #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 Albert L. H. H.

DISAPPROVED _____

NAME Robert L. Endres
ADDRESS Rural Route 4, White Plains, S.D.
COUNTY Codington

LEGAL DESCRIPTION

1. WELL LOCATION Sec 22 - 116 - 52
2. AREA TO BE IRRIGATED Sec 22 - 116 - 52

TYPE OF IRRIGATION

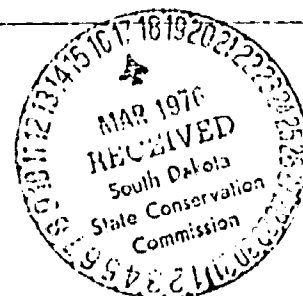
3. GRAVITY _____ SPRINKLER (INDICATE TYPE) center-pivot
4. CROPS TO BE IRRIGATED Corn + alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE 0-3%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION Fertile - B. 32 of
Soil map

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NUMBER 76-174
8. SALINITY EC = 901 μ mhos/cm (moderately high)
9. SODIUM SAR = 0.53 (low)



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.

Robert L. Endres
by Joan S. Endres

SUBSCRIBED AND SWORN BEFORE ME THIS

17 DAY OF Oct 1976
Joan S. Endres

(TITLE)



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

Submitted by: Robert L. Indres
 Address: Rt. 4
Revertown, ND 57201

Date Rec'd March 2, 1976
 Sample No. 76-174
 Identification Well-
SW4, Sec. 22, T. 116N, R. 52E

WATER ANALYSIS

Calcium (Ca)	72	ppm*	3.60	me/l**
Magnesium (Mg)	51	ppm	4.18	me/l
Sodium (Na)	24	ppm	1.04	me/l
Potassium (K)	3	ppm	0.08	me/l
Sulfate (SO ₄)	118	ppm	2.45	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	16	ppm	0.46	me/l
Bicarbonate (HCO ₃)	390	ppm	6.40	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)	320	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	901	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.53			
Sodium	11.68	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.55			

*ppm=parts per million

**me/l=millequivalents per liter

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



COMMENTS: Total cations 8.90 me/l
 Total anions 9.31 me/l

By: Shirley Mitten

Service Performed	Amount Due
Irrigation analysis	\$8.00
Make checks payable to: Water Quality Laboratory	
Cut along dotted line and return the lower portion with payment	
Sample No. <u>76-174</u>	Amount Enclosed \$
	Signed

Form 6 - Notice of Intent to Appropriate Water

No. 2615-3

Publish first publication, on or before March 8, 1976

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

March 4, 1976

Notice is hereby given that Robert Endres
whose post office address is Watertown, 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
2.23 cubic feet of water per second of time from the ground water through the
Endres Irrigation Project No. 1, the point of diversion of which is to be located in the _____

_____ Center of the SE 1/4 _____
of Section 22, Twp 116N, Range 58W. Said water to be used for the purpose
of providing irrigation ^{portions of} on the following described land:

SW 1/4, Sec. 22, T116N, R52W

This application No. 2615-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 17th day of March, 1976, at 1:00 P.M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc Robert Endres
R. R. #4
Watertown, SD 57201

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. 2615-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Codington) ss.

I, John R Lowrie hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Watertown Public Opinion

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 Watertown

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

March 6, 1976

March 13, 1976

(Signature)

General Manager

(Title)

March 13, 1976

(Date Signed)

PUBLIC NOTICE

NO. 2615-3

NOTICE

INTENT TO

APPROPRIATE WATER

Pierre, South Dakota 57501

March 4, 1976

NOTICE IS HEREBY GIVEN that
Robert Endres whose post office
address is Watertown, 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 2.23 cubic feet of water per
second of time from the ground
water through the Endres Irrigation
Project No. 1, the point of diversion
which is located in the Center of
the SW 1/4 of Section 22, Twp. 116N,
Range 52W. Said water to be used for
the purpose of providing irrigation
on portions of the following
described land: SW 1/4, Sec. 22,
T116N, R52W.

This application No. 2615-3 will be
considered by the Water Rights
Commission at their office at Pierre
upon the 17th day of March, 1976, at
1:00 P. M. All interested persons
may appear and be heard
WATER RESOURCES
COMMISSION
BURTON F. JONES
Water Right Specialist
(March 6, 13, 1976)

3/4 @ 2.23 x 2 = 1.462



26153 Port Enders

7-12

Reagle CP 11430 6570

for #46-6115 in Case 1364C

Well #1

11430 1130 ft 11430 1130 ft

8" Underground pipe to CP

Motor G.E. Model 5K6234XMS01A

for #E.M.J. 519303, 20 HP, 1730 RPM

Pump: "No Name" "No Tag"

Well #2

11430 1130 ft 660' N of CP

Motor G.E. 50 HP, 1730 RPM

T.D. = 11-6231-01-781 R20955 44'

Pump Fairbanks Morse (CP furnished)

Size 12" 2400, 3400

for #A for #13A 780' E = 8"

8" underground to CP

(over)

Well #1 (West)

Depth 25 ft - 13' to water

Est pumping 200 gpm

Well #2 (WV)

Depth 27 ft - To water 9 ft

Est pumping 600 gpm

Total pumping 800 gpm both wells

Note:

12-1-78

Permit 3724-3 is for ^{improved} WV-22 which
has two wells but dug but one. May not
dig 2nd. Permit 2615-3 has two wells
dug and in use but permit for but one well.
If 2nd well on #3724-3 is not used it
is possible to allow it for 2nd well on #2615-3
without a new permit. If 4 wells are needed
a new permit will be required.



2615-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 5 1992

2615A-3

Robert Endres
RR 4, Box 8
Watertown, SD 57201

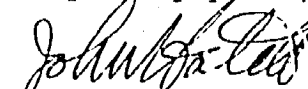
Dear Mr. Endres:

Enclosed is Water License No. 2615A-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413124 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 wells authorized by Water Right No. 2615A-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 Nos. 2615-3 and 5327-3 are incorporated into this Water License No. 2615A-3.

Appl. # 2615-3

116-52

79.4

3-22 7c

22

13.1

96.3

151.2

NW $\frac{1}{4}$ SW $\frac{1}{4}$ - 34A0

NE $\frac{1}{4}$ SW $\frac{1}{4}$ - 34A0

950'

Well #2

1200'

8" PVC
PIPE

Well #1

890'

SW $\frac{1}{4}$ - 34A0

SE $\frac{1}{4}$ SW $\frac{1}{4}$ - 34A0

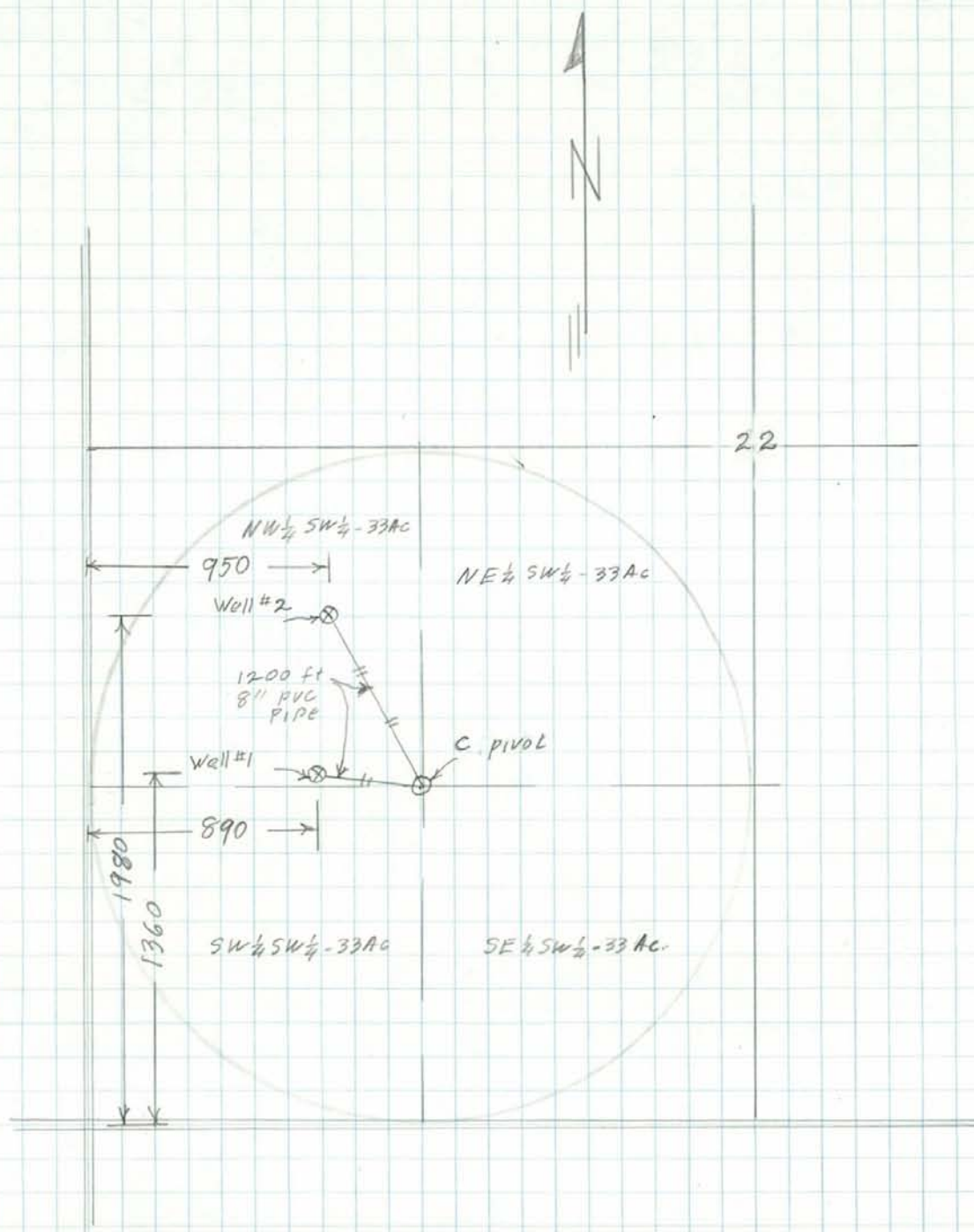
1360'

Robert Endres

Permit # 2615-3

116-52

MAP # 116-52 1982-3



Scale 1" = 660'
8" = 1 mile

map by J. J. Harnough
12-1-78

Robert Endres

permit #2615-3