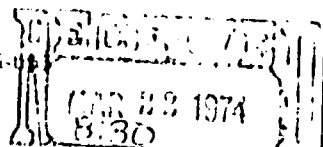


Water Right Number 2071-3

1. Considered 5-15, 19 74
2. Name of Applicant FRIEDA E. HOLTER
3. Post Office Address BRUCE
4. Amount of water claimed 1.5
5. Source of water supply GROUND WATER
6. Water to be used for IRRIGATION
Acres to be irrigated ~~160~~ 160
7. Water to be diverted and used in BROOKINGS County
about 3N, 1E Miles of BRUCE
8. Proof of Publication
Received 1-18-74
Not received
9. Application
Approved
Subject to
Not approved
Action deferred
10. Remarks:

No. 2071-3
 Map No. 1474-3 Water Division No. 3 BIG SIOUX RIVER District 1
 (Blanks to be filled by the Engineer for the W. R. C.)


APPLICATION FOR PERMIT STATE WATER RIGHTS CLAIMS SIOUX, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant Frieda E. Holter
 Postoffice address BRUCE State S.D.
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) EMPLOYMENT OF OTHERS
3. Name of diversion work Holter Irrigation Project
4. Amount of water claimed (cubic feet per second) 1.5
5. Source of water supply Well
6. Location of point of diversion APPROXIMATE CENTER NW 1/4 SEC 32 T 112 R 50
 _____ County Brookings
7. Annual period or periods during which water is to be used MAY - SEPTEMBER
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 13,600

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>NE 1/4 NW 1/4 SEC 32 T 112 R 50</u>	<u>40</u>		
<u>NW 1/4 NW 1/4 SEC 32 T 112 R 50</u>	<u>40</u>		
<u>SE 1/4 NW 1/4 SEC 32 T 112 R 50</u>	<u>40</u>		
<u>SW 1/4 NW 1/4 SEC 32 T 112 R 50</u>	<u>40</u>		

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 BROOKINGS REGISTER
12. Principal Features of the Proposed Water Supply System.

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

Well, Turbine Pump.

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

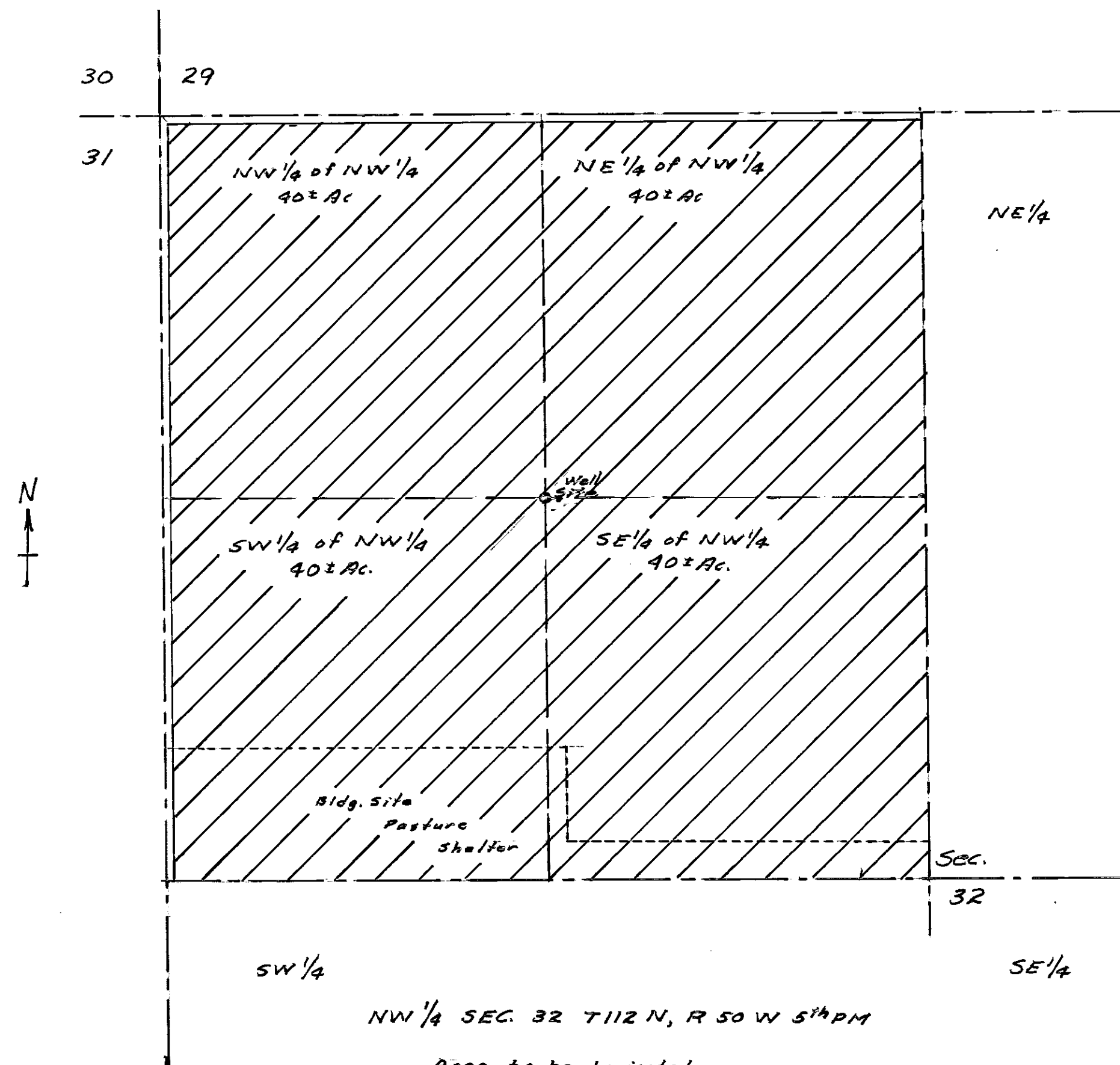
Aluminum pipe, rubber hose

C. Works proposed to apply water to beneficial use.

E 2 Rain Traverser, Nelson Volume GunEstimated Total Cost \$ 13,000.00
 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 Brookings
 I Frieda E. Holter 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 Frieda E. HolterSubscribed and sworn to before me this 20th day of March 1974
Delmar M. Byrke
 Notary Public (or other qualified officer)
My Commission Expires 7-25-76



Area to be Irrigated

NE 1/4 of NW 1/4	40± Ac.
NW 1/4 of NW 1/4	40±
SW 1/4 of NW 1/4	40±
SE 1/4 of NW 1/4	40±
Total	160± Ac.

SURVEYOR'S CERTIFICATE

STATE OF SOUTH DAKOTA } ss
COUNTY OF BROOKINGS }
I, Emory E. Johnson, a registered engineer and land surveyor, do certify that at the request of the owner, I prepared this map showing irrigable land in the property of the owner for which application for water right is being made and this map is a true representation thereof.
In witness whereof I have hereunto set my hand and seal this 14th day of March, 1974.

Emory E. Johnson
Registered Engineer and
Land Surveyor

STATE OF SOUTH DAKOTA } ss
COUNTY OF BROOKINGS }
On this 14th day of March, 1974, before me, L.J. Larson, the undersigned officer, personally appeared Emory E. Johnson, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purpose therein contained.
In witness whereof I hereunto set my hand and official seal.

L.J. Larson
Notary Public

My commission expires Feb. 10, 1977

MAP
SHOWING AREA AND PUMP SITE
FOR PERMIT TO APPROPRIATE WATER
FRIEDA HOLTER OWNER
Scale 1"=400'
March 14, 1974

Emory E. Johnson
Registered Engineer
and Land Surveyor

MAP NO 1474-3 (APPL NO 2071-3)

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2071-3
FRIEDA E. HOLTER BRUCE
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57220 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 MARCH 22 19 74
 Date of return to applicant for correction, amendments or changes required _____ 19 ____
 Date of receipt of corrected application MARCH 27 19 74
 Approved MAY 15 19 74 Recorded in Book 13 Page 8

WATER RIGHT PERMIT NO. 2071-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2071-3 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 22 19 74
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 15 19 75
3. The whole of said work is to be completed on or before MAY 15 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MAY 15 19 79
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 1.5 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 MAY 15 19 79; said water to be used during the following described annual period: MAY - SEPTEMBER

Witness my hand this 17TH day of MAY 19 74

WATER RESOURCES COMMISSION

By: Donald R. Russell
 Chief Engineer, Executive Officer

Certificate of Construction Issued SEPTEMBER 9 19 81

Water License Issued SEPTEMBER 9 19 81

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 2 1/2", Depth 40'
(2) Casing, Type STEEL Diameter 12" Thickness 1/2"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type Jackson Firewater, Diameter 12", Length 10'
(4) Gravel Pack. Thickness 4", Length of gravel pack 30'

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 0-4' till 4-25
Fairly coarse sand 25-40' coarse
sand very clean 40' clay (bottom)

Depth to top of water bearing material 6'

Depth to bottom of water bearing material 40'

Thickness of water bearing material 34'

Depth to water (ground surface to water level) 6'

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

On same owner's property 80 rds. On property owned by others 160 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.

Yvonne C. Halter
Signature of Applicant

March 25, 1974



Mrs. Frieda Holter
Bruce, SD 57220

Dear Mrs. Holter:

This is in response to your WI-1 form and water sample recently received. The water quality of this source is quite good. It is extremely low in sodium and has a conductivity of only 542. This is "medium" level salinity. The soils which you propose to irrigate in the NW 1/4 of Sec 12 are Hecla sandy loam and Fordville loam and are entirely compatible with this water. There should be no problem.

However, I am enclosing Extension Circular 654 for your guidance in irrigation practices on this land. Above all, be careful not to over irrigate and raise the water table.

Sincerely yours,

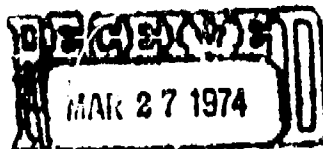
Lawrence O. Fine

Lawrence O. Fine
Water Quality Lab

LOF:111

Enclosures

CC: State Conservation Commission
Al Aho, Brookings County Agent
Darrel Pahl



STATE WATER RIGHTS COM.
MISSOURI, SOUTH DAKOTA

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57306

Submitted by: Dave Polton, Bruce, S.D. Date Rec'd: March 15, 1974
 Address: Elroy Sample No.: 74-230
Trent, South Dakota Identification: Well-14
57065 W-1, Sec. 32, T 112N, R 50W

WATER ANALYSIS

Calcium (Ca)	63	ppm*	3.15	me/l**
Magnesium (Mg)	34	ppm	2.79	me/l
Sodium (Na)	5	ppm	0.23	me/l
Potassium (K)	3	ppm	0.07	me/l
Sulfate (SO ₄)	49	ppm	1.02	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	5.5	ppm	0.15	me/l
Bicarbonate (HCO ₃)	332	ppm	5.44	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)	272	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	10	ppm (as CaCO ₃)		
Electrical Conductivity	542	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.13			
Sodium	3.58	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	8.09			
Others:				

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

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

COMMENTS: Total cations 6.34 me/l
 Total anions 6.61 me/l

By: Shirley Helgeson

Service Performed

Amount Due

Irrigation analysis

\$6.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 74-230

Amount Enclosed \$

Signed

Conservation
Commission
Form 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: OK

Soils Capability: CC

Approved: H. S. J. 3/2/11

Disapproved: _____

NAME: FRIEDA
DAVID KOLTER

ADDRESS: BRUCE SD, DAK.

COUNTY: BROOKINGS

LEGAL DESCRIPTION

1. WELL LOCATION: Geographical center of NW 1/4 Sec 32 - T112 R50
2. AREA TO BE IRRIGATED: SE 1/4 - SEC 32 - T112 - R50, NW 1/4 32, T112N R50W

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): Big Gun
4. CROPS TO BE IRRIGATED: Corn Beans alfalfa Etc.

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0 - 2
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: Hecla sandy loam (Hb);
and Farkville loam (Fm)

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 74-130
8. SALINITY: 542 micromhos/cm (Medium)
9. SODIUM: SAR = 0.13 (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

Brookings County Soil Survey

and:

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

Frieda E. Holter

Subscribed and sworn before me this

20 day of March 19 74.

Helmer O. Bule

Notary Public

(Title)

expires May 15, 1975

WATER LICENSE NO. 2071-3

(1) WHEREAS, On the 22nd day of March A. D. 19 74
Frieda A. Holter

made Water Right Application No. 2071-3 for a permit to use 1.5 cubic feet per second of the waters of groundwater (one well) County of Brookings, State of South Dakota, for irrigation purposes; and

(2) WHEREAS, On the 15th day of May A. D. 19 76
Permit No. 2071-3, with a date of priority of March 22, 1974
was issued to said applicant for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 15th day of May A. D. 19 77 and for the application to beneficial use of said water on or before the 15th day of May A. D. 19 79

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.5 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent,

to irrigate a 128 acre circle in the NW 1/4, Section 22, T112N, R50W

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to Frieda A Holter

_____ of Bruce
the holder _____ and owner _____ of said permit No. 2071-3 a water right, dating from March 22, 1981
_____ to use of 1.5 cubic feet per second of the waters
of groundwater (one well)

in the County of Brockings and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned to be diverted at _____ a point 100 feet south of the center of the
NW 1/4, Section 32, T112N, R50W

_____ a 128 acre circle in the NW 1/4, Section 32, T112N, R50W
and conducted to and upon _____

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2071-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 9th day of September A. D.
Nineteen Hundred and Eighty-one

WATER MANAGEMENT BOARD

By:

John Hatch
Chief Engineer, Executive Officer
JOHN HATCH

Permit No 2071-3

Water Diversion No 5 Big Sioux River Water District

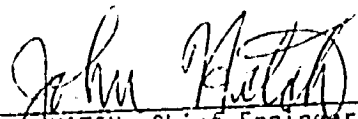
CERTIFICATE OF CONSTRUCTION

This is to Certify, That Frieda A Holter

_____ the holder _____ of
Permit No. 2071-3, issued upon Application No. 2071-3, bearing date of priority of March 22,
1974 authorizing the diversion of 1.5 cu. ft. per second of the waters of _____
groundwater (one well) County of Brookings, State of South Dakota at _____
a point 100 feet south of the center of the NW 1/4, Section 22, T112N, R50W
_____, for irrigation

_____ purposes, has _____ complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.66 cu. ft. per second of water.

Date September 9, 1981


JOHN HATCH, Chief Engineer
Water Rights Division

2071-3

Publish first publication, on or before May 2, 1974

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

April 3, 1974

Frieda Holter

Notice is hereby given that _____

whose post office address is Bruce, 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

1.5 cubic feet of water per second of time from the ground water through the Holter Irrigation Project, the point of diversion of which is to be located in the _____

Center of the NW 1/4

of Section 32, Twp. 112N, Range 50W. Said water to be used for the purpose of providing irrigation on the following described land:

NW 1/4, Section 32, T112N, R50W

This application No. 2071-3 will be considered by the Water ~~Resources~~ ^{Rights} Commission at their office at Pierre upon the 15th day of May, 1974, at 2:30 P. M. All interested persons may appear and be heard.

~~WATER RESOURCES COMMISSION~~
WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BEJ/bw

cc: David Holter, Bruce, S.D. 57220

No. 2071-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Brookings) ss.

I, Beverly Myers hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Brookings Daily Register

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 Brookings

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

April 9

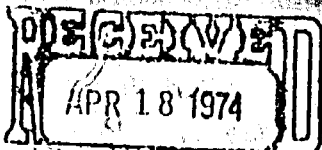
April 17

Robert D. Snare
(Signature)

Editor - Brookings
(Title)

4-17-74
(Date Signed)

No. 977 -- April 9 & 17, 1974
NOTICE OF INTENT TO APPROPRIATE WATER
Pierre, South Dakota 57501
April 3, 1974
Notice is hereby given that Frieda
Holler, whose present address is
Bruce, 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 1.5 cubic feet of water per
second of time from ground water
through the Holler Irrigation Project,
the point of diversion which is to be
located in the NW 1/4 of
Section 32, Township 12N, Range 40W, Said
water to be used for the purpose of
providing irrigation on the following
described land: T12N, R40W, S32
N1/4, Section 32, T12N, R40W, S32
(This application No. 2071-3 will be
considered by the Water Rights
Commission at their office at Pierre
upon the 14th day of May, 1974 at 2:30
P.M. All interested persons may
appear and be heard.)
WATER RIGHTS COMMISSION
By: BURTON F. JONES
Water Rights Specialist



STATE WATER RIGHTS COMMISSION
PIERRE, SOUTH DAKOTA

20713 David Holt, Jr. 2500 ft. 1000 ft.
5-11-75 Well depth 20 ft 1000 ft.
Stumping 480 ppm
Water 30 ft 45 ft. 1000 ft.
10" 2000 ft. R-775 R2015501
We. Co. Paul Holt, Jr.
No. 700.
2-700 ft 600 ft. 1000 ft.

660 ft 45 ft 1000 ft.

EL. 1000 ft. Model M54

Se. # 54108-10

Water Run 1-200 Se. # CC3064

Wegh Log 1-4' dia

Permit No. 2071-3Water Division 3 Big Sioux River Water District

**REPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE**

TO: WATER RIGHTS, WATER MANAGEMENT BOARD / FOSS BLDG., PIERRE, SOUTH DAKOTA 57501

I have this day made a thorough examination of the water use system constructed by FRIEDA A.
HOLTER of BRUCE holder
of Permit No. 2071-3, bearing date of priority of MARCH 22, 1974
authorizing the diversion of 1.5 cu. ft. per second of the waters of GROUNDWATER
for IRRIGATION purposes, in BROOKINGS County.

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

The Water Use System consists of,

A. Works used to divert the water:

38' DEEP WELL WITH 14" STEEL CASING - 10' SS SCREEN
WESTERN 140' ROLLER 8" PUMP - NO TAG
POWERED BY 50 HP US ELECTRIC MOTOR @ 1765 RPM

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

100' OF 8" ALUMINUM PIPE TO CENTER OF PIVOT

C. Works used to apply water to beneficial use.

8 TOWER ELECTROGATOR CENTER PIVOT MODEL #L80-1246' LONG
SERIAL #678C 5239 WITH NELSON #100 END GUN

The system is in the following condition: GOOD

The point of diversion is located 100' S OF CENTER OF THE NW⁴
SECTION 32, T112N, R50W

The works are capable of diverting and conveying to the place of use 1.66 (150 GPM)cu. ft. per second of water which is to be used for IRRIGATIONWater has been put to beneficial use to the maximum extent as follows: FOR IRRIGATING A 128 ACRE CIRCLE IN THE

NW⁴, SECTION 32, T112N, R50W

comprising a total of 128 acres of land.

1.66 1.5 gpm/ft for

COP. NAME

L. H. H. H.

L. H. H. H.

Date AUGUST 11, 1981

[Signature]
(Signature)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 8447

PIERRE, September 3, 1911

RECEIVED OF Dave Holter, Box 336, Bruce, SD 57220

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

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for inspecting Construction, and Issuing Cert. of Construction No. 2071-3	50	00
Fee for inspecting Beneficial Use, and Issuing Water License No. 2071-3		
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	50	00

WATER RIGHTS COMMISSION

By (John H. Hatch)
Chief Engineer, Executive Officer
JOHN HATCH

NOT TO SCALE

100044943
2071-3

111-50

136.2

49.7

53R

581

32

52.1

23.4

95.2

2.4

14.1

112-50