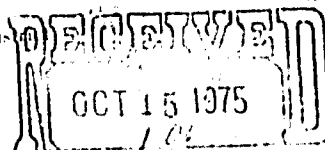


Map No. 1797-3 Water Division No. 3 BIG SIOUX RIVER District 1
(Blanks to be Filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

STATE WATER RIGHTS COMMISSION
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

(NOTE - Draw a line through items not applicable)

- Name of Applicant Lawrence J. Spilde
- Post-office address Estelline State SD
- If a corporation show date and place of incorporation _____
- Method of accomplishing work (contract, employment of others, or by direct labor) employment of others
- Name of diversion work Spilde #4
- Amount of water claimed (cubic feet per second) 2.33
- Source of water supply W211
- Location of point of diversion 700 yards west of center of NE 4 10-113-51
- County Hamlin
- Annual period or periods during which water is to be used April thru October
- Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation
- For irrigation use, Total number of acres to be irrigated 172

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.
NE 4	NE 4 10-113-51	38	Portion of NE 4 NW 4 east of railroad	22
NW 4	NE 4 10-113-51	39	Portion of SE 4 NW 4 west of railroad	1
SE 4	NE 4 10-113-51	38		
SW 4	NE 4 10-113-51	37		

- 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 Estelline Journal
- Principal Features of the Proposed Water Supply System:
 - Works proposed to divert water from its natural source. 6" horse power motor over turbine pump
 - Works proposed to transport water to place of use. 500 yards of open ground 8" pipe
 - Works proposed to apply water to beneficial use. center pivot system

Estimated Total Cost \$ 30000

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 Hamlin

I, Lawrence J. Spilde, 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.

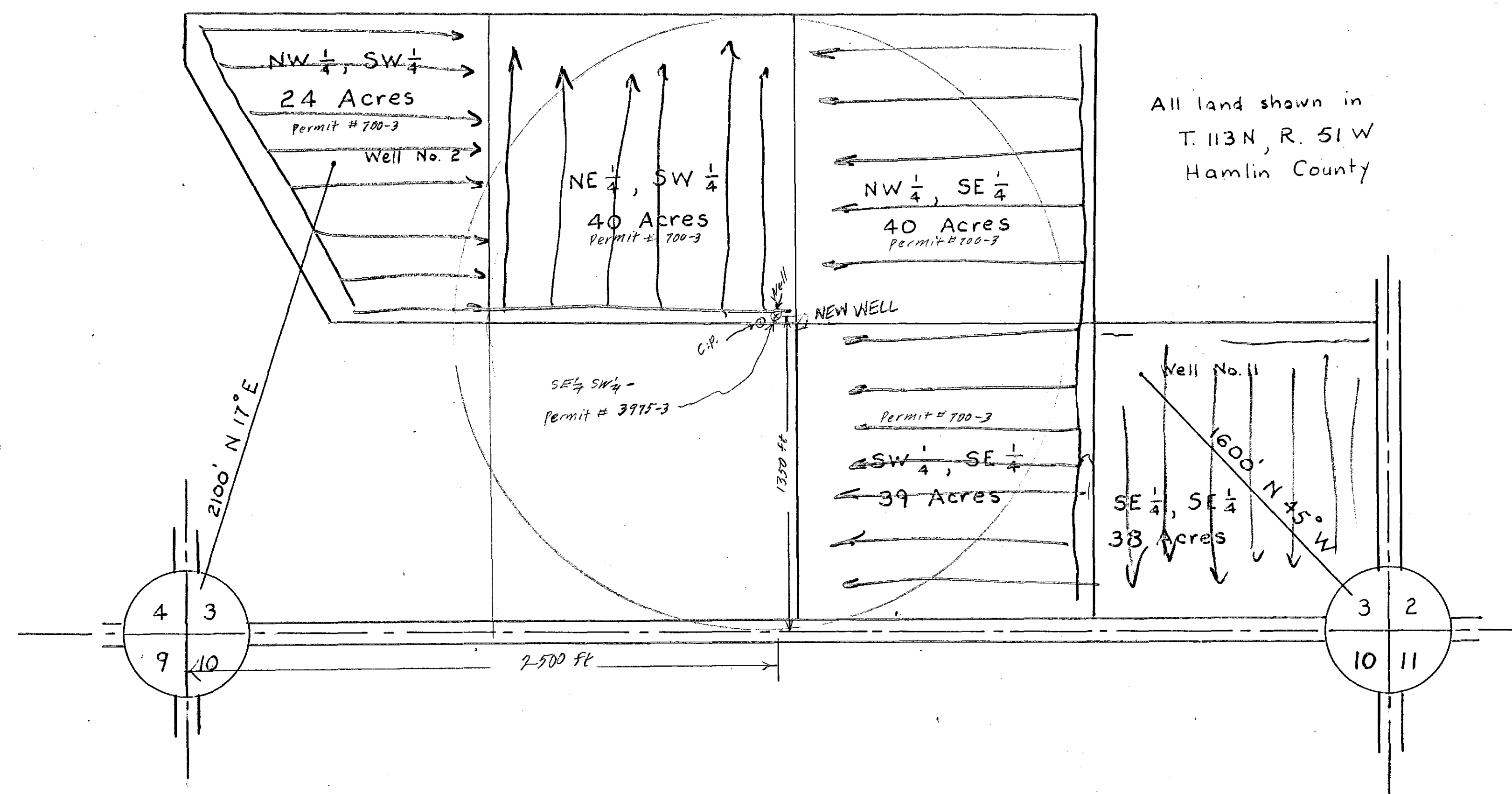
Signed Lawrence J. Spilde

Subscribed and sworn to before me this 10 day of Oct 1971

MERLAINE EISNACH
Notary Public, Hamlin County, S. Dakota
My Commission Expires June 18, 1982

Cancelled
See 2420-3A

LAWRENCE F. SPILDE IRRIGATION PROJECT NO. 1



All land shown in
T. 113 N, R. 51 W
Hamlin County

LOCATION OF LAND TO BE IRRIGATED
LAWRENCE F. SPILDE ----- OWNER
ESTELLINE, SOUTH DAKOTA
Sec. 3, T. 113 N, R. 51 W

AREA	ACRES
NW $\frac{1}{4}$, SW $\frac{1}{4}$	24
NE $\frac{1}{4}$, SW $\frac{1}{4}$	40
NW $\frac{1}{4}$, SE $\frac{1}{4}$	40
SW $\frac{1}{4}$, SE $\frac{1}{4}$	39
SE $\frac{1}{4}$, SE $\frac{1}{4}$	38

TOTAL 181

SCALE: 1" = 400'

Note: All land to be irrigated
with portable mainline.

Certified correct: Martin M. Fogel
Martin M. Fogel
Extension Irrigation Specialist
South Dakota State College
Brookings, South Dakota

Subscribed and sworn to before me
this 16th day of February, 1960
Geneva Croll

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2420-3
LAWRENCE F. SPILDE ESTELLINE
 (Applicant) (Post Office Address)

SOUTH DAKOTA 57234 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.

*Cancelled
5/24/79*

WRC

See 2420-3A

Date of first receipt of application OCTOBER 15, 1975
 Date of return to applicant for correction, amendments or changes required _____, 19____
 Date of receipt of corrected application OCTOBER 27, 1975
 Approved NOVEMBER 13, 1975, Recorded in Book 14 Page 148

WATER RIGHT PERMIT NO. 2420-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2420-3 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 OCTOBER 15, 1975
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 13, 1978
3. The whole of said work is to be completed on or before NOVEMBER 13, 1980
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 13, 1983
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 2.33 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, 1983; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 21ST day of NOVEMBER, 1975

WATER RIGHTS COMMISSION

By:

John Hetch
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

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 24", Depth 45'
(2) Casing, Type Steel, Diameter 12", Thickness 7"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type Johansen, Diameter 12", Length 20'
(4) Gravel Pack, Thickness 6", Length of gravel pack 25'

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 Coarse sand and gravel

Depth to top of water bearing material 10'

Depth to bottom of water bearing material 45'

Thickness of water bearing material 35'

Depth to water (ground surface to water level) 10'

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

On same owner's property 160 rds. On property owned by others 150 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.

Lawrence F. Spital
Signature of Applicant

Conservation
Commission
Form WL 71

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 OF

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: [Signature]

Disapproved: _____

NAME: Lawrence F. Spilde

ADDRESS: Festelline S.D. 57234

COUNTY: Hamlin

Spilde #4

LEGAL DESCRIPTION

1. WELL LOCATION: West of center of Quarter 200 yards

2. AREA TO BE IRRIGATED: NE 4 10-113-51 portion of NW 4
East of railroad track 10-113-51

TYPE OF IRRIGATION

3. GRAVITY gated pipe SPRINKLER (Indicate Type): and center pivot

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

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0 to 2%

6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: CONSERVATION SURVEY

0.5"/hr intake

1"/hr intake

6AC - MOODY

15" AC - FORDVILLE

Loren P. Holwarth, D.C., SCS, Hamlin

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 75-934

8. SALINITY: EC = 920 μ mhos/cm. (mod. high)

9. SODIUM: SAR = 0.26 (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

Loren Holzworth, DC, SCS, Hart, S.D.

and:

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

Lawrence F. Speilb.

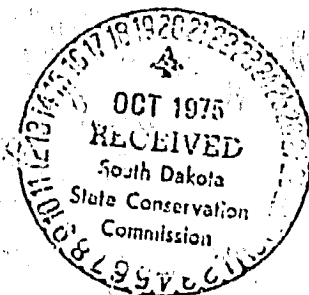
Subscribed and sworn before me this

29 day of Sept 1975.

Merlaine Eisnach

MERLAINE EISNACH
Notary Public, Hamlin County, S. D.
My Commission Expires June 18, 1983

(Title)



Conservation
Commission
Form WL #1

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

FOR COMMISSION USE OF
Irrigation System: _____
Water Quality: _____
Soils Capability: _____
Approved: ALB J. P. W.
Disapproved: _____

NAME: Lawrence F. Spilde

ADDRESS: Estelline S.D. 57234

COUNTY: Hamilton

Spilde #4

LEGAL DESCRIPTION

1. WELL LOCATION: West of center of Quarter 200 yards
2. AREA TO BE IRRIGATED: NE 1/4 10-113-51 + portion of NW 1/4 East of railroad track 10-113-51

TYPE OF IRRIGATION

3. GRAVITY gated pipe SPRINKLER (Indicate Type): center pivot
4. CROPS TO BE IRRIGATED: Corn, Alfalfa, Oats

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0 to 2%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: CONSERVATION SURVEY
0.5"/hr intake 1"/hr intake
6AL - MOODY 150AL - FORDVILLE
Loc. 1746, W. 1/4, Sec. 1, T. 1, R. 1, S. 1

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: _____
8. SALINITY: _____
9. SOURNESS: _____

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

Loren Holbworth, D.C., SCS, Hag. S.D.
and:

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

Lawrence Speck

Subscribed and sworn before me this

29 day of Sept 1975.

Merlaine Eismach

MERLAINE EISMACH
Notary Public, Hamlin County, S. D.
My Commission Expires June 18, 1983

(Title)



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

Submitted by: Lawrence F. Sillde
 Address: Estelline, SD 57234

Date Rec'd: September 30, 1975
 Sample No.: 75-934
 Identification: #4 Mc11-
NE1, Sec. 10, T. 113N, R. 51E

WATER ANALYSIS

Calcium (Ca)	110	ppm*	5.50	me/l**
Magnesium (Mg)	51	ppm	4.18	me/l
Sodium (Na)	13	ppm	0.57	me/l
Potassium (K)	2	ppm	0.06	me/l
Sulfate (SO ₄)	208	ppm	4.34	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	12	ppm	0.32	me/l
Bicarbonate (HCO ₃)	215	ppm	3.52	me/l
Carbonate (CO ₃)	43	ppm	1.44	me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	176	ppm (as CaCO ₃)		
Alkalinity (Penolphthalein)	72	ppm (as CaCO ₃)		
Electrical Conductivity	920	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.26			
Sodium	5.52	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	8.18			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 10.32 me/l
 Total anions 9.62 me/l

By: Shirley Mitten

Service Performed	Amount Due
Irrigation analysis	\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 75-934

Amount Enclosed \$

Signed

a. 2420-3

Publish first publication, on or before November 19, 1975

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 28, 1976

Notice is hereby given that Lawrence F. Spilde
whose post office address is Estelling, 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

2.33 cubic feet of water per second of time from the ground water through the
Spilde #1, the point of diversion of which is to be located in the

NW $\frac{1}{4}$ NE $\frac{1}{4}$
of Section 10, Twp. 113N, Range 51W. Said water to be used for the purpose
of providing irrigation on portions of the following described land:

NE $\frac{1}{4}$, E $\frac{1}{4}$ NW $\frac{1}{4}$, Section 10, T113N, R51W

This application No. 2420-3 will be considered by the Water Rights 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 RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw
cc:

Lawrence F. Spilde, Estelling, S.D. 57234

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

DEPARTMENT OF NATURAL RESOURCE DEVELOPMENT
DIVISION OF WATER RIGHTS
JOE FOSS BUILDING

Post Office

Eatonville, S.D.

Date

June 15, 1976

TO: **PIERRE, SOUTH DAKOTA 57501**
Water Resources Commission
State Office Building No. 2
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. 2420-3.

Water Right Permit No. 2420-3 states that the diversion system is to be constructed by November 13, 1980 and that the water is to be put to beneficial use by November 13, 1978.

The diversion system was completed on June 15, 1976. Applying the water to beneficial use was completed on June 15, 1976.

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.

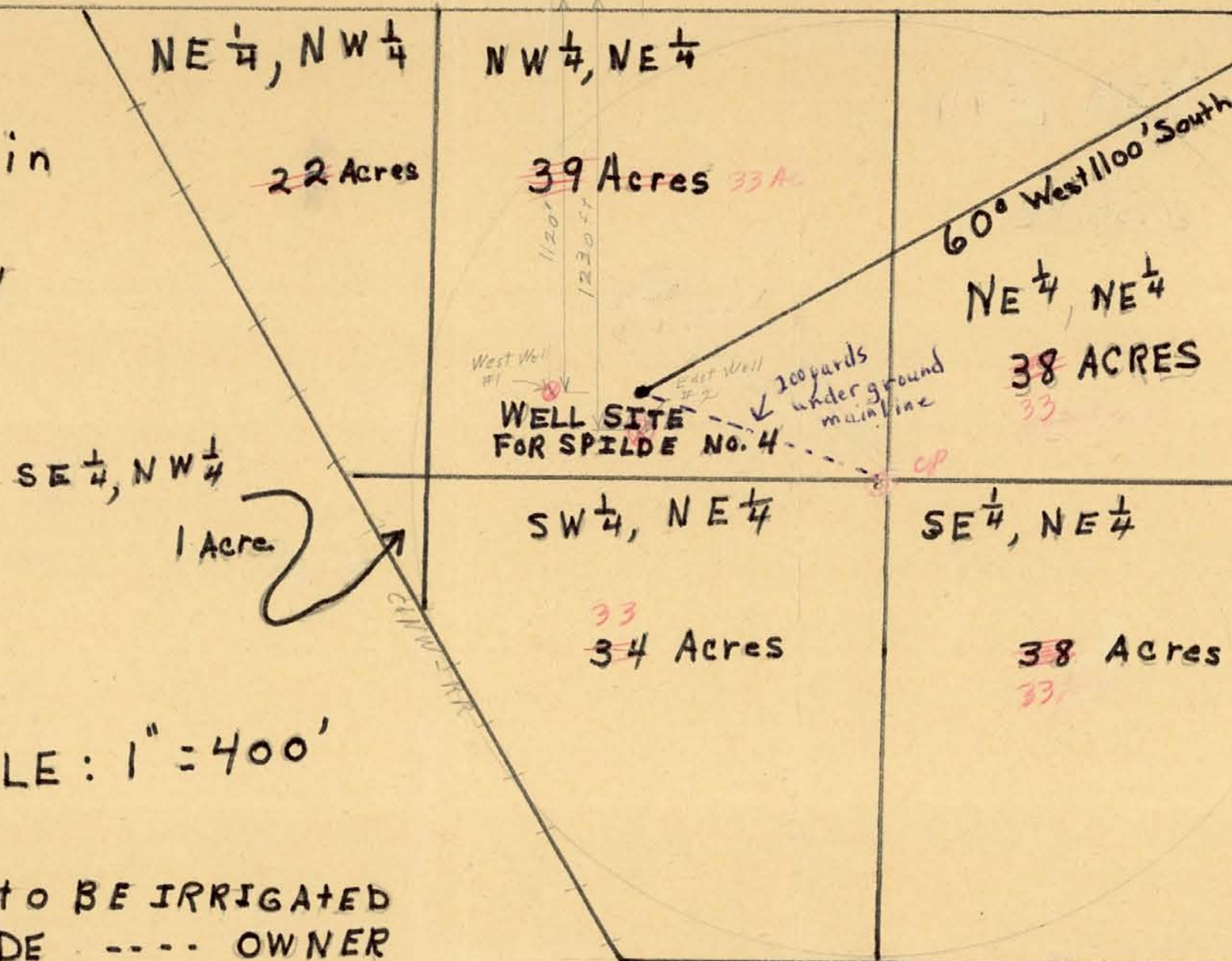
Lawrence F. Spidel
(Signature)



LAWRENCE F. SPILDE IRRIGATION PROJECT NO. 4

4 3
9 10

All land shown in
T. 113N, R. 51W
Hamlin County



SCALE: 1" = 400'

LOCATION OF LAND TO BE IRRIGATED
LAWRENCE F. SPILDE ----- OWNER
ESTELLINE SO. DAK.

Sec. 10 T. 113N, R. 51W

AREA	ACRES
NE 1/4, NW 1/4	22
NW 1/4, NE 1/4	39
NE 1/4, NE 1/4	38
SE 1/4, NW 1/4	1
SW 1/4, NE 1/4	34
SE 1/4, NE 1/4	38

TOTAL 172

Certified correct

H. P. Campbell
County Extension Agent

Subscribed and sworn to before me
this 10 day of Oct, 1970

Merline Eismann

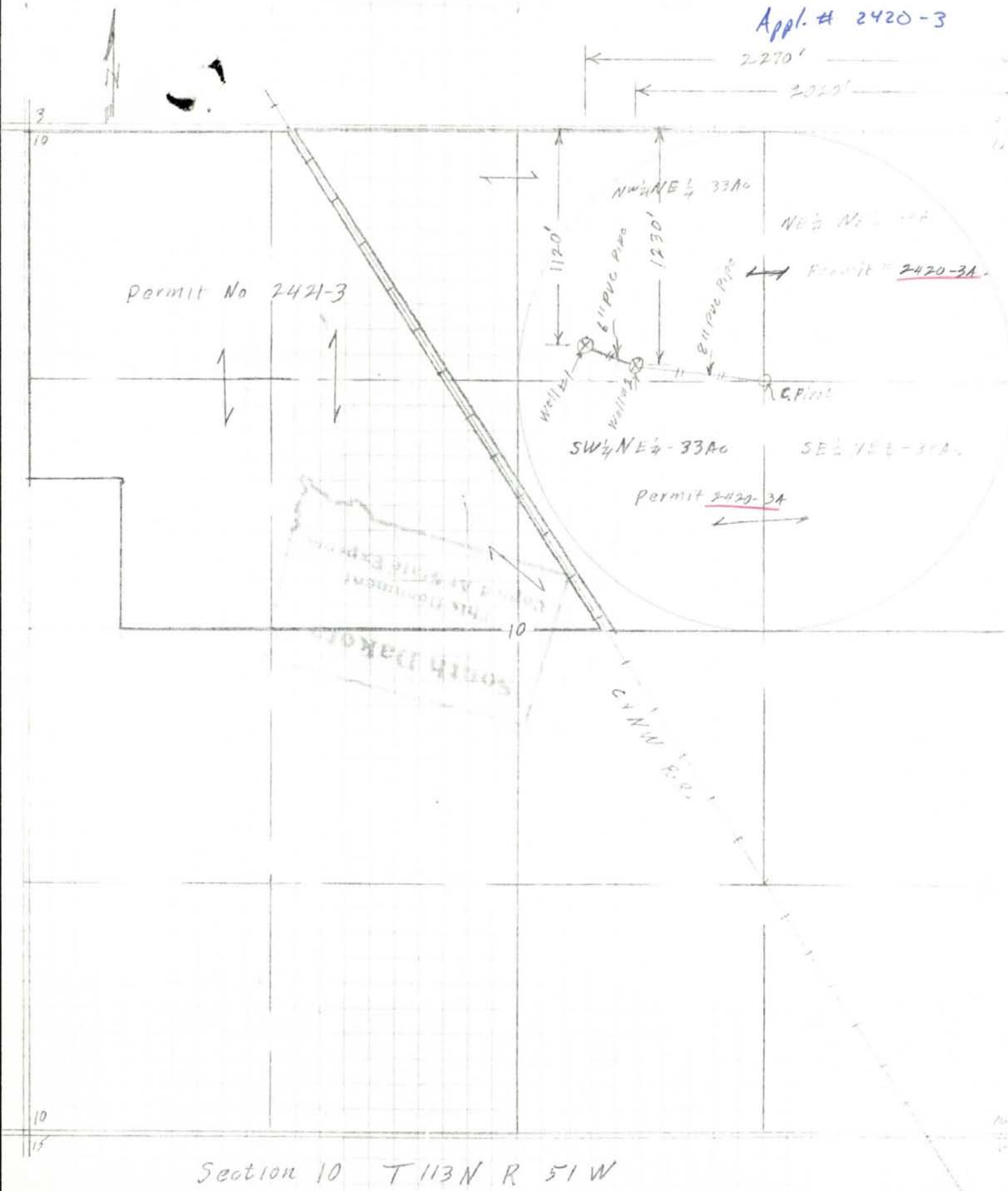
Notary Public

My Commission Expires June 18, 1983
Notary Public, Hamlin County, S. D.
MERLAINE EISMANN

Debra A. May
Clerk

2420-3A
APPL NO 2420-3

Appl. # 2420-3



Section 10 T113N R 51W

Scale 1" = 660'
8" = 1 mile

Lawrence Spilde

Hamlin County

~~APPL # 2420-3~~ APPL # 2420-30

2



Lawrence Spilde
Hamlin County

NOT TO SCALE

2420-3
2421-3

113-51

118.5

6.7

23

70

144.0

379-200-L

42

10

20.3

52.0

49.0

22.0

41.6

10.0

113-1

2420-3