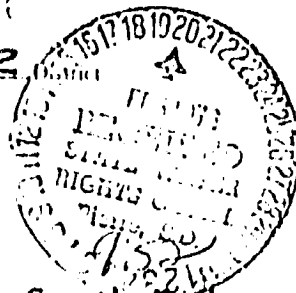


2550.3

1. Considered 3-17, 1976
2. Name of Applicant RICHARD HAMILTON
3. Post Office Address HUDSON
4. Amount of water claimed 2.28
5. Source of water supply GROUND WATER (33' DEEPWELL)
6. Water to be used for IRRIGATION
- Acres to be irrigated 160
7. Water to be diverted and used in UNION county
about 1W, 4S miles of HUDSON
8. Procf of Publication Received ~~1st~~ 3-22-76
- Not received _____
9. Application Approved _____
- Subject to _____
- Not Approved _____
- Action deferred _____

10. Remarks:

Map No. 1921-3 Water Division No. 3 BIG SIOUX RIVER
 (Blanks to be Filled by the Engineer for the W. R. 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 Richard Hamilton
 Post-office address Hudson, State NE
 If a corporation show date and place of incorporation None
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work Hamilton Irrigation Project
4. Amount of water claimed (cubic feet per second) 2.7045 2.78 MAXIMUM AVAILABLE
5. Source of water supply Well
6. Location of point of diversion 1320' west and 1320' north of S.E. corner of Section 2 T95N R48W
 County Union
7. Annual period or periods during which water is to be used June through 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 160 AC

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>SE 1/4 Section 2, T95N R48W</u>	<u>160 AC</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Five (5) years. Additional time required to complete application of water to the proposed beneficial use Five (5) years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Leader-Courier, Elk Point, S.D.
57025
12. Principal Features of the Proposed Water Supply System.

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

None

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

None

C. Works proposed to apply water to beneficial use.

Center PivotEstimated Total Cost \$ 40,000.00
 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 UnionI, Richard Hamilton, 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 Richard HamiltonSubscribed and sworn to before me this 29 day of January, 1976

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2550-3

RICHARD HAMILTON
(Applicant)

HUDSON
(Post Office Address)

SOUTH DAKOTA 57034 With the following modifications:
(State)

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 FEBRUARY 20 19 76

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

Date of receipt of corrected application — 19 —

Approved MARCH 17 19 76, Recorded in Book 14 Page 330

WATER RIGHT PERMIT NO. 2550-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2550-3 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 FEBRUARY 20 19 76

2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17 19 78

3. The whole of said work is to be completed on or before MARCH 17 19 81

4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17 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 2.28 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 use, 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 19 81; said water to be used during the following described annual period: JUNE 1ST - SEPTEMBER

Witness my hand this 23RD day of MARCH 19 76

WATER RIGHTS COMMISSION

By: [Signature]
Chief Engineer, Executive Officer

Certificate of Construction Issued FEBRUARY 6 19 78

Water License Issued FEBRUARY 6 19 78

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 3 0", Depth 33'
- (2) Casing, Type CONCRETE (wood, concrete, steel, etc), Diameter 16" I.D., Thickness 1"
- (3) Perforated Screen
Type JOINTLESS IRB, Diameter 16" I.D., Length 20'
- (4) Gravel Pack, Thickness 6"-9", Length of gravel pack 26'

E. Dugout Information or Estimates

- (1) Surface dimensions None, Depth None

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 SAND & GRAVEL

Depth to top of water bearing material 6' ±

Depth to bottom of water bearing material 33' ±

Thickness of water bearing material 27' ±

Depth to water (ground surface to water level) 13' ±

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

On same owner's property 93 rds. On property owned by others 248 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. None

Richard C. Hamilton
Signature of Applicant

November 26, 1975



Mr. Richard Hamilton
Hudson, SD 57034

Dear Mr. Hamilton:

I am enclosing herewith the original copy of the report of analysis on sample #75-1067 received here about 2 weeks ago. This is your copy; please keep it in a safe place. I am also enclosing a copy of extension circular 654 with a red cross on the outside back cover designating the approximate quality of this water for irrigation purposes. The intersection of the two lines should represent approximately the electrical conductivity of 831 micromhos and a sodium adsorption ratio of 0.35. This water is moderate high in total salts but quite low in sodium.

It is thus considered suitable for irrigation of the soils which you plan to irrigate as indicated by the information on the WI-1 form. Although this information is very sketchy, it appears that there should be no difficulty in irrigating that land. You should, however, do all that you can to irrigate in substantial quantities and as infrequently as possible during the growing season. Management of this type tends to minimize the accumulation of salt in the upper part of the soil and improves the chances that natural rainfall will leach salts down and out of the root zone.

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

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. pahl

Louie DeSmet, County Extension Agent

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: Ally Hopper

Disapproved: _____

NAME: _____

ADDRESS: _____

COUNTY: _____

LEGAL DESCRIPTION

1. WELL LOCATION: _____

2. AREA TO BE IRRIGATED: _____

TYPE OF IRRIGATION

3. GRAVITY

SPRINKLER (Indicate Type): _____

4. CROPS TO BE IRRIGATED: _____

LAND CAPABILITY FOR IRRIGATION

X 5. PERCENTAGE OF SLOPE: _____

X 6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: _____

Deep medium textured
brownish clay soil with occasional layers of subsoil
in spring + fall in heavy rains

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 1 75-1067

8. SALINITY: EC = 831 μ mhos/cm (moderately high)

9. SODIUM: SAR = 0.35 (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.

Richard D. Smith

Subscribed and sworn before me this

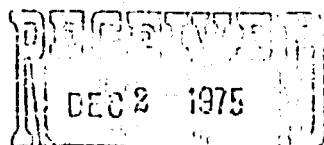
6th day of November 1975.

L. E. Van Heekeren

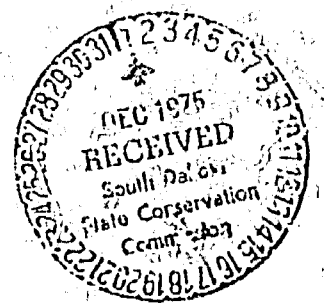
Notary Public

(Title)

Water sample
mailed - Nov. 12-75



STATE WATER RIGHTS
DIVISION, SOUTH DAKOTA



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

Submitted by: Richard Hamilton
 Address: Box 1
Madison, SD 57034

Date Rec'd: November 13, 1975
 Sample No.: 75-1067
 Identification: 111
Dec. 2, 1954, R 48

WATER ANALYSIS

Calcium (Ca)	100	ppm*	5.00	me/l**
Magnesium (Mg)	41	ppm	3.36	me/l
Sodium (Na)	16	ppm	0.72	me/l
Potassium (K)	4	ppm	0.12	me/l
Sulfate (SO ₄)	176	ppm	3.66	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	8	ppm	0.22	me/l
Bicarbonate (HCO ₃)	366	ppm	6.00	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)	300	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	251	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.35			
Sodium	2.82	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.27			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 9.20 me/l
 Total anions 9.88 me/l

By: Shirley Litten

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. 75-1067

Amount Enclosed \$

Signed

WATER LICENSE NO. 2550-3.

(1) WHEREAS, On the 20th day of February A. D. 1976

Richard Hamilton

made Water Right Application No. 2550-3 for a permit to use 2.25 cubic feet per second of the waters of ground water

County of Union, State of South Dakota, for Irrigation

purposes; and

(2) WHEREAS, On the 23rd day of March A. D. 1976

Permit No. 2550-3, with a date of priority of February 20, 1976

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 17th day of March A. D. 1981 and for the

application to beneficial use of said water on or before the 17th day of March A. D. 1981

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 1.78 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,

for irrigating a 120 acre circle in the SE $\frac{1}{4}$, Section 2, T9S11, R48W

(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 Richard Hamilton

_____ of Hudon
the holder _____ and owner _____ of said permit No. 2550-3 a water right, dating from February 20, 1973
_____ to use of 1.7 cubic feet per second of the waters
of ground water

in the County of Union and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at _____

a point 1290'W and 1260'N of the SE corner, Section 2, T95N, R43W

and conduct to and upon a 120 acre circle in the SE1/4, Section 2, T95N, R43W

for the purpose of Irrigation

Subject to any limitations listed in Water Right Permit No. 2550-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 6th day of February A. D.
Nineteen Hundred and seventy-eight

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

JOHN HATCH

Permit No. 2550-3

Water Diversion No. 3 Big Sioux River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Richard Hamilton

_____ the holder _____ of
Permit No. 2550-3, issued upon Application No. 2550-3 bearing date of priority of February 20,
1976 authorizing the diversion of 2.28 cu. ft. per second of the waters of _____
ground water County of Union, State of South Dakota at _____
a point 1290'W and 1200'N of the SE corner, Section 2, T95N, R48W

_____, for Irrigation

purposes, has 5 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 1.73 cu. ft. per second of water.

Date February 6, 1976

By:

WATER RIGHTS COMMISSION

John Hatch

JOHN HATCH Chief Engineer

No. 2500-3

Publish first publication, on or before March 1, 1976

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

February 23, 1976

Notice is hereby given that Richard Hamilton
whose post office address is Hudson, 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
2.28 cubic feet of water per second of time from the ground water through the
Hamilton Irrigation Project, the point of diversion of which is to be located in the _____

Center of the SE $\frac{1}{4}$

of Section 2, Twp. 95N, Range 49W. Said water to be used for the purpose

of providing irrigation on ^{portions of} the following described land:

SE $\frac{1}{4}$, Section 2, T95N, R49W

This application No. 2600-3 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

BFC/bw

cc:

Richard Hamilton, Hudson, South Dakota 57034

3164+
2-26
VFW
164

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Union) ss.

I, Lester E. Emerson hereby
certify that the annexed print copy of Notice of Intent to Appropriate
Water was taken from the Leader Occurion

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 Elk Point.

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

March 4, 1976

March 11, 1976

Lester E. Emerson
(Signature)

Publisher
(Title)

March 11, 1976
(Date Signed)

NOTICE OF INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
February 23, 1976

Notice is hereby given that
Richard Hamilton whose post
office address is Hudson, South
Dakota, has made an application
in accordance with the provision-
s of the water laws of South
Dakota for a permit to appropri-
ate for beneficial use 2.28 cubic
feet of water per second of time
from ground water through the
Hamilton Irrigation Project, the
point of diversion of which is to
be located in the Center of the
SE $\frac{1}{4}$ of Section 2, Twp. 95N,
Range 48W. Said water to be
used for the purpose of provid-
ing irrigation on portions of the
following described land: SE $\frac{1}{4}$,
Section 2, T95N, R48W.

This application No. 2550-3
will be considered by the Water
Rights Commission at their off-
ice at Pierre upon the 17th day
of March, 1976, at 1:00 p.m.
All interested persons may app-
ear and be heard.

WATER RESOURCES
COMMISSION

By: Burton F. Jones
Water Rights Specialist

Publish: March 4 and 11



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

TO: **PIERRE, SOUTH DAKOTA 57501**
Water Resources Commission
State Office Building No. 2
Pierre, South Dakota 57501

Post Office Hudson, SD
Date June 15, 1976

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. 2550-3.

Water Right Permit No. 2550-3 states that the diversion system is to be constructed by January, 1981 and that the water is to be put to beneficial use by January, 1981.

The diversion system was completed on May 26, 1976. Applying the water to beneficial use was completed on June 1st, 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.

Richard Hamilton
(Signature)



2550-3 Richard H. H. H.

9-7-77 Jaminator CP Model 307

Lot # 5769

Engine 3 Cyl Vert 73 HP

Type 151912

W/R 5541/61

Super Durbine 11/11/6

Size 11 H - 4 1/2 x 2 1/2

Lot # H 3 A 2 55708.78

Well 33 ft deep, 11 ft 6 in

pump 8 in to 12 in

pump 1000 to 600 at low pressure

Lot 1000 to 1000

1000 to 1000

Permit No. 2550-3Water Division 5 Big Sioux River Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: Water Resources Commission State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by Richard Hamilton of Hudson, South Dakota 57034 holder of Permit No. 2550-3, bearing date of priority of February 20, 1976 authorizing the diversion of 2.28 cu. ft. per second of the waters of Ground for Irrigation purposes, in Union 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:

Engine - Deutz, 5 cyl, Type F 57917, MR 5541/61
73 H.P.

Pump - Fairbanks Morris, Ser# N342807054X,
Size 11M - 4 Stage. Pump, 500 gpm

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

60 ft 8" dia Aluminum Pipe

C. Works used to apply water to beneficial use.

Zimmerman Center Pivot, Model 307, Ser# 5289.

The system is in the following condition: Excellent

The point of diversion is located 1290 ft West on 1200 ft N of SE corner of Sect 2, T75N R45W

The works are capable of diverting and conveying to the place of use 1.78

cu. ft. per second of water which is to be used for Irrigation

Water has been put to beneficial use to the maximum extent as follows: All in Section 2, T75N R45W
NW 1/4 SE 1/4 - 30 Ac., NE 1/4 SE 1/4 - 32 Ac., SW 1/4 SE 1/4 - 28 Ac., SE 1/4 SE 1/4 - 30 Ac.

comprising a total of 120 acres of land.

Well Data:

Depth 33 ft.

Depth to water 11 ft

Pumping 500 gpm high
water table, 600 gpm
low water table

Date November 17, 1977

Leroy J. McInerney
(Signature)

96-48

926

(13-M174)

1.8 5 3.0

15

2.5+

30A

155.2

$$(2-III) \quad (13-110)$$

59.2

(13-41)

878

(13-59)-

TRANSferred
To
Lincoln
Co.

95-48

147.8

(13-M145)

NW 1/4 SP 1/2 - 30 40

NE $\frac{1}{4}$ SE $\frac{1}{4}$ - 32 AC

SW $\frac{1}{4}$ SE $\frac{1}{4}$ - 30 AC

SE $\frac{1}{4}$ SE $\frac{1}{4}$ -30A-C

1320

1260'

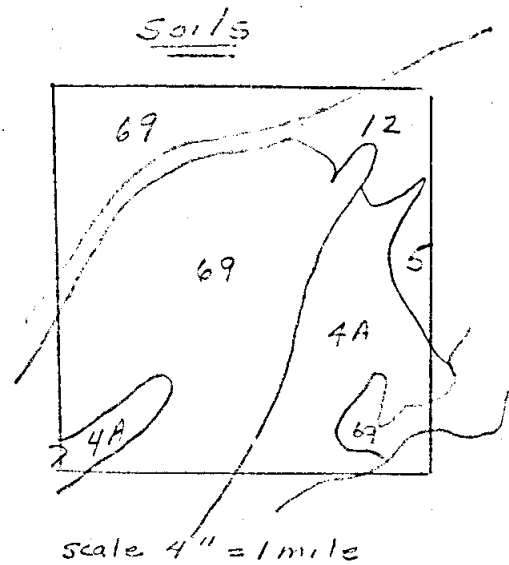
~~1320~~

1290

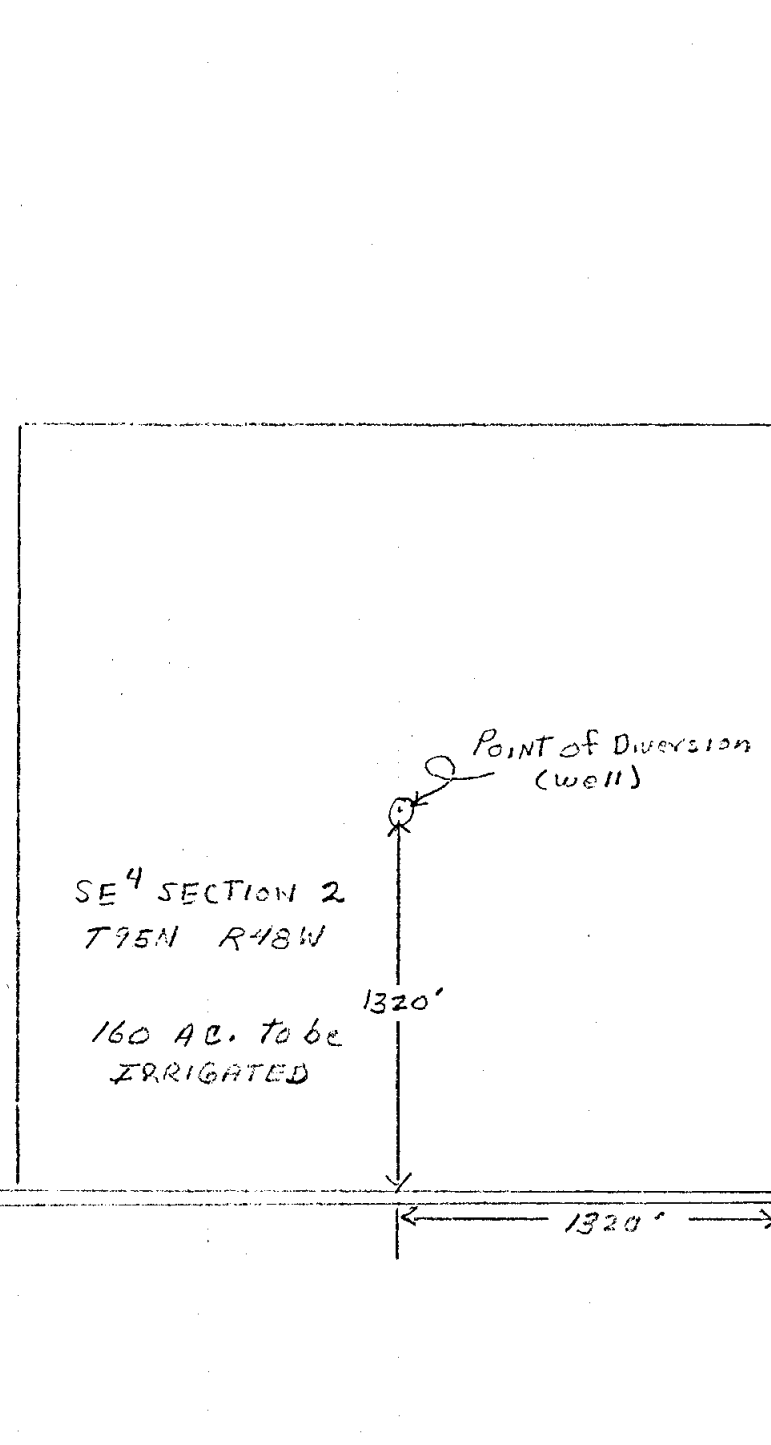
W/R 2550-3

Point of Diversion
(well)

Well - 10' S + 15' E of CP
ED - 40' Short & located
15' E of center of Field
116 - 120 AC



- ⑥9- Graceville silty clay loam Class I₃
Deep moderately well drained soils
High available water cap. for Irrig.
- ④A Kennebec silty clay loam Class I₁
Deep moderately well drained soils
High available water cap. for Irrig.
- ⑤ Davis loam Class I₁
Deep, well drained and mod. well drained soils
Favorable for Irrigation
- ⑫ Bonclare silty clay loam IIw₁
Deep, moderately well and poorly drained soils
Suitable for Irrigation
0.3" intake family



8" = 1 mile

Richard Hamilton Hudson, South Dakota 57034 Hamilton Irrigation Project 160 ACRES TO BE IRRIGATED			
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE			
Designed <u>J.M. Bolun 10/2/72</u>	Date <u>10/2/72</u>	Approved by <u>[Signature]</u>	Title <u>[Signature]</u>
Drawn <u>J.M. Bolun 10/2/72</u>			
Traced <u>[Signature]</u>			
Checked <u>[Signature]</u>			
Sheet No. <u>1</u>		Drawing No. <u>1</u>	

**Water Rights Program
File Documentation**

NAME OF PERSON OR FILE: Water Right No. 2550-3

DATE: 06/15/2016

RE: Aquifer designation

COMMENTS:

In reviewing permits for the Elk Point management unit of the Missouri aquifer it was determined that the aquifer designation on the database is not correct for Water Right No. 2550-3. A review of the available information for Water Right No. 2550-3 indicates that this water right is likely appropriating water from the South management unit of the Big Sioux aquifer rather than the Elk Point management unit of the Missouri aquifer. This is based on an examination of well depth (about 33 feet) and location (SE ¼ Sec. 2 T95N R48W) in relation to the areal extent and characteristics of the two management units.

A review of the file shows that the public notice did not specifically designate the water source. Therefore, the database can be changed for this water right to the South management unit of the Big Sioux aquifer without advertisement of the water right.

This file documentation will need to be included in the administrative record for this water right.


Whitney Kilts
Natural Resources Engineer

**Water Rights Program
File Documentation**

NAME OF PERSON OR FILE: Water Right No. 2550-3

DATE: 06/15/2016

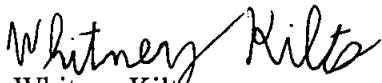
RE: Aquifer designation

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Whitney Kilts
Natural Resources Engineer