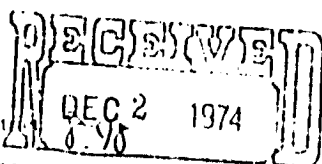


2156-3

1. Considered JANUARY 22, 1975
2. Name of Applicant MARVIN SAENSON
3. Post Office Address SIOUX FALLS
4. Amount of water claimed 1.8
5. Source of water supply GROUND WATER (4.5')
6. Water to be used for ~~4.5'~~ IRRIGATION
Acres to be irrigated 128
7. Water to be diverted and used in TURNER county
about 1 1/2 miles of PARKER
8. Proof of Publication Received 1ST
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks:

Map No. 1550-3 Water Division No. 3 VERMILLION RIVER District 1
 (Blanks to be filled by the Engineer for the W. R. C.)



STATE WATER RIGHTS COMMISSION
 DES MOINES, IOWA

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE-Draw a line through items not applicable)

1. Name of Applicant Martin Swanson
 Postoffice address 1100 E 38th St Sioux Falls State S. Dakota 57105
 If a corporation show date and place of incorporation Not A.
2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct Labor
3. Name of diversion work S 77 Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 1.8
5. Source of water supply Well
6. Location of point of diversion 2240' N 62° W of SW corner of
Sec 9 - 99 - 53
- County Turner
7. Annual period or periods during which water is to be used April through October
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 128

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>NW 1/4 of SE 1/4 of Sec 9 - 99 - 53</u>	<u>31</u>		
<u>NE 1/4 of SE 1/4 of Sec 9</u>	<u>34</u>		
<u>SW 1/4 of SE 1/4 of Sec 9</u>	<u>34</u>		
<u>SE 1/4 of SE 1/4 of Sec 9</u>	<u>29</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Three years. Additional time required to complete application of water to the proposed beneficial use Five years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication New Era - Payroll 20
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source. Deep well Turbine with Electric Motor

B. Works proposed to transport water to place of use. closed Rendant - Aluminum Pipe

C. Works proposed to apply water to beneficial use Sprinkler System - Food lines & Hose pull

Estimated Total Cost \$ 25,000

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 Brown)

I, Martin Swanson 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 Martin SwansonSubscribed and sworn to before me this 14 day of November 19 74

John E. Bales
 Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2156-3 Marvin
MARVIN SWENSON 1100 E. 38TH ST., SIOUX FALLS
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57104 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 DECEMBER 2 19 75⁷⁴
 Date of return to applicant for correction, amendments or changes required — 19 —
 Date of receipt of corrected application — 19 —
 Approved JANUARY 23 19 75 Recorded in Book 13 Page 184
 WATER RIGHT PERMIT NO. 2156-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2156-3 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 DECEMBER 2 19 74
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 23 19 76
3. The whole of said work is to be completed on or before JANUARY 23 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 23 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 1.8 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 JANUARY 23 19 81; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 6TH day of MARCH 19 75

WATER RESOURCES COMMISSION

By: Donald D. Merrill
 Chief Engineer, Executive Officer

Certificate of Construction Issued SEPTEMBER 22 19 80

Water License Issued SEPTEMBER 22 19 80

Section

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 32", Depth 45'
- (2) Casing, Type Steel (wood, concrete, steel, etc), Diameter 12" Thickness 1/4"
- (3) Perforated Screen.
Type Solenoid type for, Diameter 12", Length 10'
- (4) Gravel Pack, Thickness 3", Length of gravel pack 20'

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 0-1' top soil; 1' to 16' dry gravel;
16' to 18' blue clay; 18' to 44' sand rock size gravel;
over 44' - blue clay

Depth to top of water bearing material 18'

Depth to bottom of water bearing material 44'

Thickness of water bearing material 26'

Depth to water (ground surface to water level) 12'

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

On same owner's property 80 rds. On property owned by others 120 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.

M. M. M. M. M.
Signature of Applicant

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: Alisa J. J. J.
11/23/24

Disapproved: _____

NAME: Mervin Sorenson

ADDRESS: 1100 E 38th St Sioux Falls South Dakota 57105

COUNTY: Land in Turner County - Owner in immediate

LEGAL DESCRIPTION

1. WELL LOCATION: 2240' N 62°W of SW corner of Sec 9 - 99-55
2. AREA TO BE IRRIGATED: SE 1/4 of Sec 9 - 99-53

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): center pivot
4. CROPS TO BE IRRIGATED: Alfalfa & Corn

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: mostly level (0-2%)
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: See note above and attached map. (Soils considered acceptable)

WATER QUALITY (To Be Completed by Commission)

7. SAMPLE NO: 74-907 (upper vein) 74-908 (lower vein)
8. SALINITY: 74-907 = 1053 $\mu\text{m}/\text{cm}$; 74-908 = 1022 $\mu\text{m}/\text{cm}$ (both mod-hi)
9. SODIUM: SAR of 74-907 = 0.74 (low); SAR of 74-908 = 0.72 (low)

SCS-CONS 2-69 Rev. 5-69
(File Code C-4)



OUR SOIL ★ OUR STRENGTH

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION
cooperating with

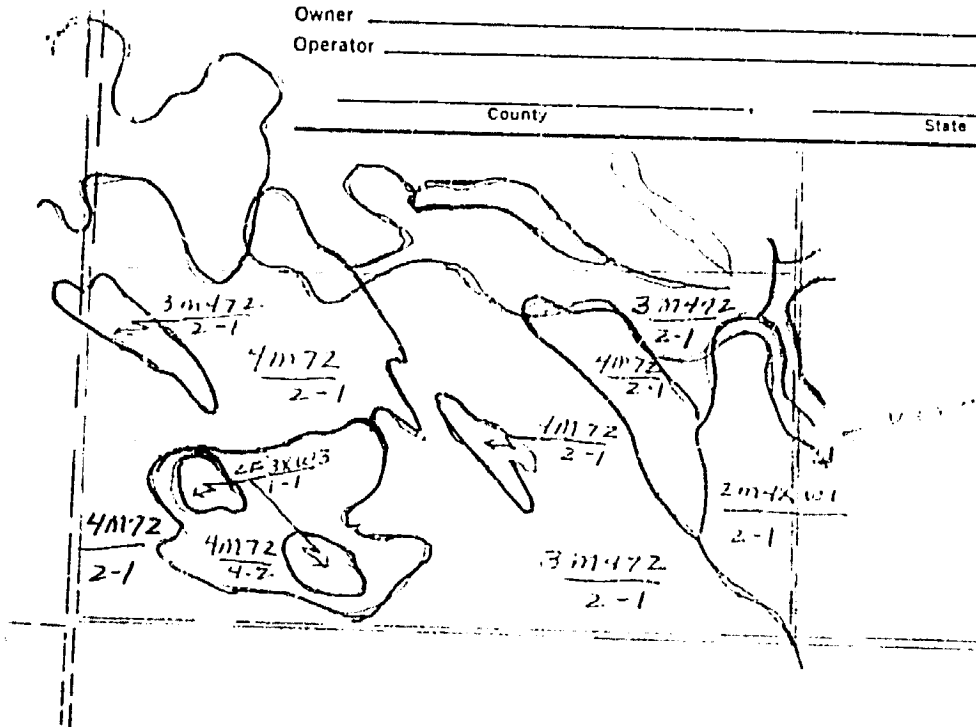
Conservation District _____

Owner _____ Plan No. _____
Operator _____ Scale _____ Approximate

County _____

State _____

Photo No. _____



DATE MICROFILMED

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

Submitted by: Marvin Swenson
Address: Sioux Well Drilling
Box 754
Sioux Falls, SD 57101

Date Rec'd October 28, 1974
Sample No. 74-908
Identification #2 Lower Vein
SE1, Sec. 23, T 100N, R 52W

WATER ANALYSIS

Calcium (Ca)	170	ppm*	8.50	me/l**
Magnesium (Mg)	56	ppm	4.59	me/l
Sodium (Na)	42	ppm	1.93	me/l
Potassium (K)	10	ppm	0.27	me/l
Sulfate (SO ₄)	367	ppm	7.63	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	8	ppm	0.21	me/l
Bicarbonate (HCO ₃)	354	ppm	5.80	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)		ppm		
Alkalinity (Methyl Orange)	290	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1022	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.72			
Sodium	12.04	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.56			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 15.19 me/l
Total anions 13.64 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$6.00 PAID

Make checks payable to: Water Quality Laboratory

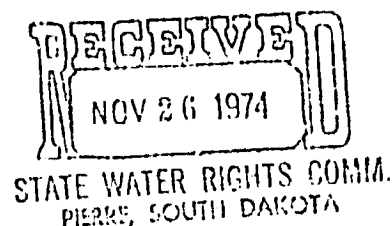
Cut along dotted line and return the lower portion with payment

Sample No. 74-908

Amount Enclosed \$

Signed

November 18, 1974



Mr. Marvin Swenson
1100 East 39th Street
Sioux Falls, SD 57105

Dear Mr. Swenson:

Enclosed please find the original copies of water analysis reports for your two samples from the upper vein and lower vein of a well on the SE $\frac{1}{4}$ of Sec 23 T100N R52W in Turner County.

Also, enclosed you will find Extension Circular 654 with the approximate quality of these waters designated by an encircled red cross on the back cover. You will note that they are classified as moderately high in total salinity but low in sodium hazard. This means that as far as all salts are concerned, there is a fairly considerable amount of total salts but the sodium salts are relatively minor. This, there may at times be small evidences of gray or white crusts of salt on the soil surface but normally, the leaching we get by rainfall in that part of the county should take care of this. If not, a very heavy fall irrigation once in a while should be used to reduce the salt content in the surface soil. However, contact your county agent or an extension water or soil specialist before taking such a leaching program.

The waters, thus, are fairly compatible with the soils you have and internal drainage of these soils is quite good. Thus, there should be no difficulty in using these waters on the soils as indicated.

A copy of this letter and of both analyses and your WI-1 forms are being forwarded to the State Conservation Commission.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:111

Enclosures

CC: State Conservation Commission /
Merlin Pietz, Turner County Agent
Darrel Pahl



WATER LICENSE NO. 2156-3

(1) WHEREAS, On the 2nd day of December A. D. 1975
Marvin Swanson

made Water Right Application No. 2156-3 for a permit to use 1.8 cubic feet per second of the waters of groundwater (one well)

County of Turner, State of South Dakota, for irrigation

_____ purposes; and

(2) WHEREAS, On the 23rd day of January A. D. 1975

Permit No. 2156-3, with a date of priority of December 2, 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 23rd day of January A. D. 1975 and for the application to beneficial use of said water on or before the 23rd day of January A. D. 1975

WHEREAS, on the 26th day of September, 1978 Permit No. 2156-3 was transferred to Roger Ihnen of Hurley, South Dakota.

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 1.28 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 portions of the following lands all in Section 9, T99N, R53W

	Acres
SW $\frac{1}{4}$ SE $\frac{1}{4}$	36
NW $\frac{1}{4}$ SE $\frac{1}{4}$	24
NE $\frac{1}{4}$ SE $\frac{1}{4}$	17
SE $\frac{1}{4}$ SE $\frac{1}{4}$	13
TOTAL	90 ACRES

(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 Roger Ihner

of Turner Co

the holder _____ and owner _____ of said permit No. 2156-2 a water right, dating from December 2, 1974

to use of 1.28 cubic feet per second of the waters of groundwater (one well)

in the County of Turner and State of South Dakota, or so much thereof as may be necessary for the purposes hereinafter mentioned, to be diverted at a point north 62° west 290 feet from the SE corner, Section 8, T99N, R53W

and conducted to and upon portions of land all in Section 9, T99N, R53W more fully described on the face of this license

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2156-2 and subject to the laws of the State of South Dakota

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 22nd day of September A. D.
Nineteen Hundred and Eighty

WATER MANAGEMENT BOARD

By:

John Hatch
Chief Engineer, Executive Officer
JOHN HATCH

Permit No. 2156-3

Water Diversion No. 3 Vermillion River Water District
10176102

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Roger Thuen

_____ the holder _____ of
Permit No. 2156-3, issued upon Application No. 2156-3, bearing date of priority of December 2, 1974

_____ authorizing the diversion of 1.8 cu. ft. per second of the waters of _____
groundwater (1 well) County of Turner, State of South Dakota at _____
a point north 62° west 2900 feet from the SE corner, Section 9, T99N, R53W

_____, for irrigation

purposes, has S 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 1.77 cu. ft. per second of water.

Date September 22, 1990


JOHN HATCH, Chief Engineer
Water Rights Division

Form C - Notice of Intent to Appropriate Water

2156-3
Publish first publication, on or before January 8, 1975

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

~~December 7~~, 1974

Notice is hereby given that Harvin Swenson
whose post office address is Sioux Falls, 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
1.6 cubic feet of water per second of time from the ground water through the
_____, the point of diversion of which is to be located in the _____

SE 1/4 SE 1/4
of Section 9, Twp. 99N, Range 53W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:

SE 1/4, Section 9, T99N, R53W

This application No. 2156-3 will be considered by the Water Resources Commission at their office at
Pierre upon the 22nd day of January, 1975, at 2:30 P. M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/ls

cc: Harvin Swenson, 1100 East 36th Street, Sioux Falls, S.D. 57105

Affidavit of Publication

STATE OF SOUTH DAKOTA)
) ss.
COUNTY OF TURNER)

EARL J. BORMANN

of said County and State, being duly sworn, on his oath says:

THE NEW ERA is a weekly newspaper of general circulation, printed and published in Parker, in Turner County and State of South Dakota by Earl J. Bormann, and has been such a newspaper during the times hereinafter mentioned; that the said newspaper is a legal newspaper, that is has a bonafide circulation of more than 200 copies weekly, that it has been published within said county of Turner in the English language for more than fifty-two successive weeks next prior to the publication of the notice hereinafter mentioned, and has been printed during said period and at the present time, in whole or in part in an office maintained at the said place of publication; and that I, the undersigned, am

Owner--Publisher

of said newspaper, in charge of the advertising department thereof, and have personal knowledge of all facts stated in this affidavit: that the advertisement headed 2156-3 Notice Intent To

Appropriate Water

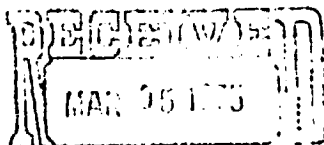
a printed copy of which is hereto attached, was printed and published in the said newspaper for two weeks; that said notice was published in the issues of said newspaper on the dates as follows, to-wit:

The first publication being made on Thurs., December 12, 1974;
the second publication on Thursday, December 19th, 1974;
the third publication on 19.....;
the fourth publication on 19.....;
the fifth publication on 19.....;
the sixth publication on 19.....;
and the last publication on 19.....;

that \$ 10.38, the full amount of the fee charged for publication of the annexed notice, insures sole to the benefit of the publishers of the said newspaper; that no arrangements or understanding for a division thereof has been made with any person, and that no part thereof has been agreed to be paid to any person whomsoever.

Earl J. Bormann
Subscribed and sworn to before me this 4th
day of March, 1975.

Notary Public, Turner County, South Dakota.



STATE WATER RIGHTS CENTER
PIERRE, SOUTH DAKOTA

No. 2156-3 NOTICE INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501
December 7, 1971

Notice is hereby given that Marvin Swenson, whose post office address is Sioux Falls, 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 1.8 cubic feet of water per second of time from ground water through the point of diversion of which is to be located in the SW1/4SE1/4 of Section 9, Twp. 99N, Range 53W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SE1/4, Section 9, T99N,
R53W.

This application No. 2156-3 will be considered by the Water Resources Commission at their office at Pierre, upon the 22nd day of January, 1975, at 2:30 p.m. All interested persons may appear and be heard.

WATER RESOURCES
COMMISSION

By: BURTON F. JONES

Water Rights Specialist

BFJ/bw

cc: Marvin Swenson, 1100 East
38th St., Sioux Falls, S. D. 57105.
(2tc38—Dec. 12 & 19, 1974)

Publication Fees \$ 10.38

Received Payment,

NOTICE OF TRANSFER OF WATER PERMIT

TO: Water Rights Commission
Foss Building
Pierre, South Dakota 57501

March 14, 1978

This is to notify you that title to the lands described as follows:

128 acres on portions of Section 9, T99N, R53W

formerly owned by Marvin Swenson, 1100E 38th St., Sioux Falls, SD 57101

has been transferred to Roger Ihnen, Hurley, SD 57036

together with any rights to the beneficial use of water thereon as evidenced by Water Right Permit No. 2156-3 as provided for in Section 61.0127 of the 1960 Supplement to the South Dakota Code of 1939.

You are therefore hereby requested to file this "Notice of Transfer of Water Permit" in its appropriate file at the Office of Water Rights Commission as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is hereto attached to cover filing fees as required under Section 61.0159 of the 1960 Supplement to the South Dakota Code of 1939..

STATE OF SOUTH DAKOTA)
) SS.
County of Turner)

I, Roger Thuen being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and I know of my own personal knowledge that the information herein stated is true.

R. J. R. R.
(Signed)

Subscribed and sworn to before me this

19 78.

22nd day of Sept.
M. J. Lammery
(Notary Public)



Notary Public, STATE OF SOUTH DAKOTA
My Commission Expires February 11, 1964

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7700

PIERRE, _____, 19__

RECEIVED OF Boyer Thoen, Hurley, SD 57036
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. <u>2156-7</u>		50.00
Fee for inspecting Beneficial Use, and issuing Water License No. <u>2156-5</u>		
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 [Signature]
Chief Engineer, Executive Officer
JOHN H. HATCH

Permit No. 2156-3Water Division 3 VERMILLION RIVER Water DistrictREPORT 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 ROGER
THVEN of HURLEY holder
of Permit No. 2156-3 bearing date of priority of DECEMBER 2, 1974
authorizing the diversion of 1.8 cu. ft. per second of the waters of GROUNDWATER
for IRRIGATION purposes, in TURNER 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:

45' DEEP WELL WITH 12" STEEL CASING - 10' SS SCREEN
WESTERN LAND ROLLER 8" PUMP # BM 8684 - 4 STAGE - 12" B.H. BOWL
POWERED BY # 283 CUMMINS DIESEL MOTOR

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

1090' OF 8" BURIED PLASTIC LINE TO CENTER OF
PILOT

C. Works used to apply water to beneficial use.

8 TOWER LOCKWOOD CENTER PILOT SYSTEM - ELECTRIC
WITH # 200 END GUN

The system is in the following condition: GOOD

The point of diversion is located N 62° W 2900' FROM THE SE CORNER,
SECTION 9, T 99N, R 53W

The works are capable of diverting and conveying to the place of use 1.77 (800 GPM.)
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 9, T 99N, R 53W

<u>SW⁴ SE⁴</u>	<u>36 AC</u>
<u>NW⁴ SE⁴</u>	<u>24 AC</u>
<u>NE⁴ SE⁴</u>	<u>17 AC</u>
<u>SE⁴ SE⁴</u>	<u>13 AC</u>

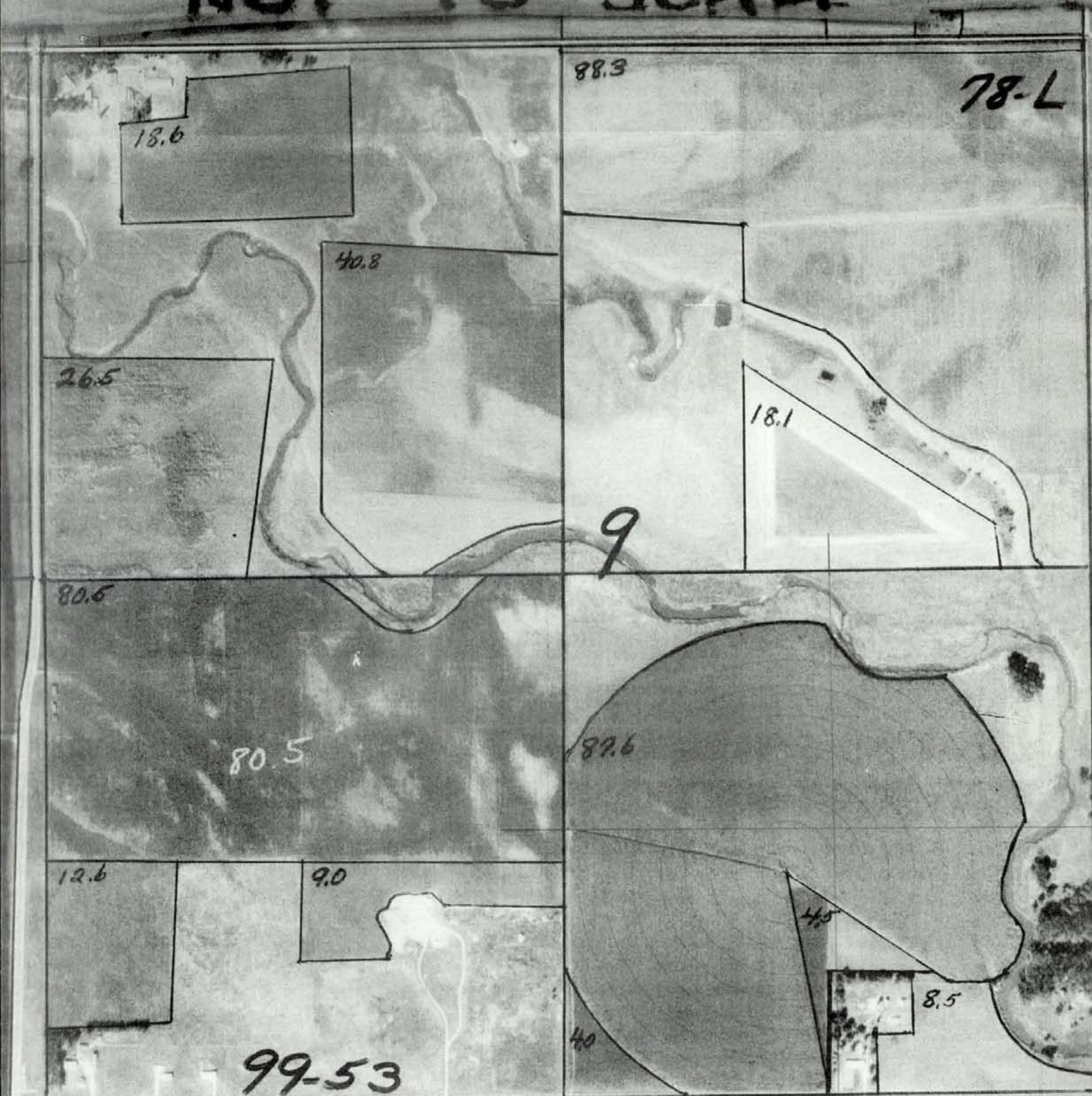
comprising a total of 90 acres of land. 1.28 cfs

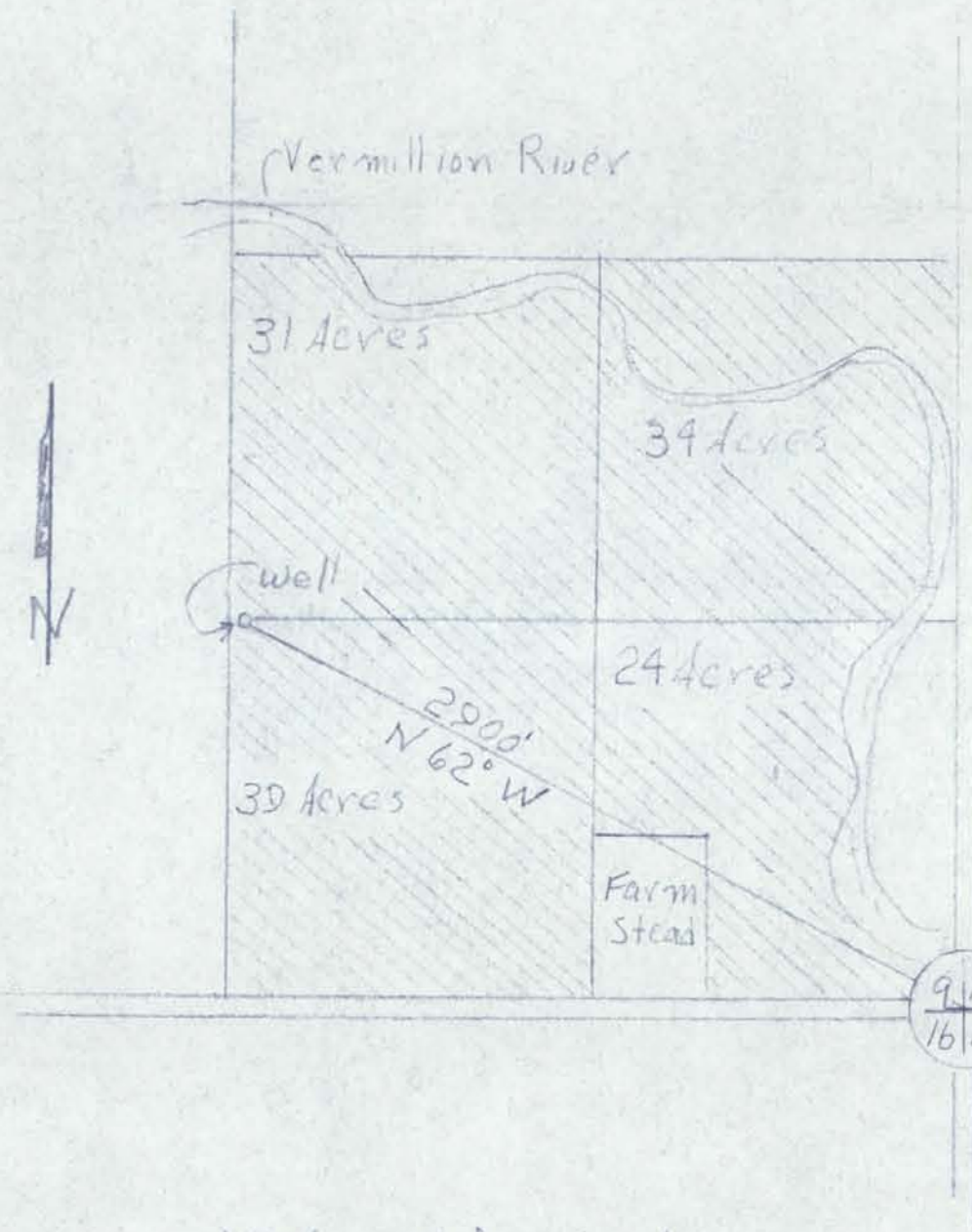
Date JUNE 19, 1980

(Signature)

NOT TO SCALE

2156-3





Scale - 8" = 1 Mile

Area to be Irrigated	Acres
NW 1/4 of SE 1/4 Sec 9 - 99-53	31
NE 1/4 of SE 1/4 Sec 9	34
SW 1/4 of SE 1/4 Sec 9	39
SE 1/4 of SE 1/4 Sec 9	24
total acres	128

Water Claimed - 1.8 cfs

Cross hatch indicates Irrigated Acres

Point of Diversion - 2900' N 62° W of SE corner Sec 9
Turner County

T 99 - R 53

S 77 IRRIGATION PROJECT

NUMBER ONE
MARVIN SWENSON

OWNER

1100 E 38th STREET
SIOUX FALLS S. DAKOTA

57105

LAND IN TURNER CO.

Surveyor's Certificate

I, John L. Wiersma, do hereby certify that this map identifies a reasonably accurate record of the land of:

Marvin Swenson

Sioax Falls, South Dakota

Land in Turner County

Drawn by J.L.W.

11-14-74

John L. Wiersma

P.E.# 1916

Brookings South Dakota

MAP NO. 1550-3 APPL NO. 2156-3

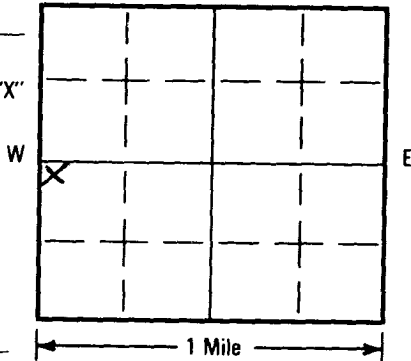
SOUTH DAKOTA WATER WELL COMPLETION REPORT

2165-3

07-92

Location SW 1/4 SE 1/4 Sec 9 Twp 99 Rg 53
 County Turner

Please mark well location with an "X"



Well Completion Date

6/23/09

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 750 ft. from Farm place (identify source).

PROPOSED USE:

- ☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Boring Machine

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
____ LB/FT	<u>18</u> IN	<u>0</u> FT	<u>27</u> FT	<u>30</u> IN
____ LB/FT	____ IN	____ FT	____ FT	____ IN
____ LB/FT	____ IN	____ FT	____ FT	____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
____	____	____ lb./gal	____ ft	____ ft
____	____	____ lb./gal	____ ft	____ ft

Describe grouting procedure Cement grout from 9' to top of casing

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 18 IN Length 20 FEET

Material PLASTIC

Slot Size 0.00 Set From 27 Feet to 47 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

____ YES, How: _____

☒ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Roger Ihnen

Business Name: PO Box 213

Address: 421 S. Academy St
Lennox SD. 57039

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top soil</u>	<u>0</u>	<u>4'</u>
<u>gravel</u>	<u>4'</u>	<u>9'</u>
<u>water bearing sand & gravel</u>	<u>9'</u>	<u>44'</u>

STATIC WATER LEVEL 9' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: _____

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

____ ft. After _____ Hrs. pumped _____ GPM

____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 750 GPM

REMARKS

RECEIVED

FEB - 1 2010

WATER RIGHTS
PROGRAM

This well was drilled under license # _____

And this report is true and accurate.

Drilling firm Reiners Well Drilling

Signature of License Representative: Don Reiner

Signature of Well Owner or Equitable Property Holder:

Roger Ihnen

Date: 10-6-09



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

February 9, 2010

Roger Ihnen
PO Box 213
Lennox SD 57039

Dear Mr. Ihnen:

I am writing in regard to a well driller's report filed by Reiners Well Drilling. The report shows they completed a new well for you on June 23, 2009. A review of our files indicates Water Right No. 2165-3 authorizes 1.28 cubic feet of water per second from one well, approximately 45 feet deep located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 9-T99N-R53W for irrigation of 90 acres.

Since this well appears to be located in the approximately the same location, am I correct in assuming this is a replacement well? Please call or email me regarding the status of this new well. At that time, we can determine if any additional action needs to be taken.

Thank you in advance for your response.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

*Roger called - 2/12/10
replacement well
15' from original
well - same depth
no add'l water*



2156-3

**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

June 23, 2023

Roger R Ihnen
PO Box 213
Lennox SD 57039

2156-3

Dear Mr. Ihnen :

I am writing in regard to your Water Right No. 2156-3. The water permit authorizes diversion of water from ground water, one well, completed into the Vermillion West Fork Aquifer, for the irrigation of 90 acres within SE ¼ Section 9, T99N, R53W.

In reviewing your 2022 irrigation questionnaire, we have found discrepancies in the amount of water used and have some concerns. Enclosed is a copy of your questionnaire for reference purposes.

Water Right No. 2156-3 allows you to use up to three acre-feet (ac-ft) (36 inches) of water, per acre, per year. On the questionnaire you reported substantially more water use. The following information is what was reported and what is authorized:

- 90 acres irrigated
- Reported water use – 291.7 ac-ft of water (approximately 39 inches)
- Authorized water use – 270 acre-feet (90 acres x 3 ac-ft per year)

We realize that water use depends greatly on climactic conditions and may vary year to year. However, it is very rare that irrigators come close to the 36 inches per acre that is authorized. Typical water use is between 8 and 12 inches per acre. Often, irrigators do not keep track of their days or hours actually pumped and estimate numbers for the questionnaires in an effort to get them completed and back in on time. While we appreciate returning the forms in a timely manner each year, we need the forms to reflect accurate information to ensure everyone is limiting their use to the amount of water appropriated to them.

The information we receive each year from irrigators across the state is very valuable. The water use data supplied by irrigators is one of the tools we use to help determine whether an aquifer or stream is nearing full appropriation.

If you do in fact apply as much water as claimed on your questionnaire, you are exceeding the limits of your water license and will have to reduce your discharge to stay within the authorized limit. If you simply estimated your water use, we ask that you please ensure the information reported is as accurate as possible. As stated before, the information you provide to us is very valuable. If you have any questions, please contact me.

Sincerely,

Amanda Dewell
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us