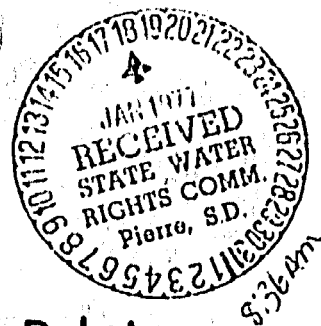


Water Right Number 3556-3

1. Considered 12-23, 19 77
2. Name of Applicant James J. Jorgensen, Jr.
3. Post Office Address W. Clinton
4. Amount of Water claimed 4.3
5. Source of Water supply 2-46' wells
6. Water to be used for irrigation
Acres to be irrigated 302
7. Water to be diverted and used in Dawson County
about 64, 15 miles of Prue
8. Proof of Publication Received 2-18-77
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks =

Map No. 2836-3 Water Division No. 3 BIG SIOUX RIVER District
 (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 Fred Jurgens Jr.
 Postoffice address Estelline, State South Dakota 57234

If a corporation show date and place of incorporation

2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract Direct Labor

3. Name of diversion work Fred Jurgens Irrigation Project #1

4. Amount of water claimed (cubic feet per second) 4.3

5. Source of water supply 2 wells.

6. Location of point of diversion Well #1 - 1860' N 135° E of NW corner sec 8 - 112-50
Well #2 - 1860' ~~1860'~~ N 135° W of NE corner of sec 8 - 112-50

7. Annual period or periods during which water is to be used April through October
 County Brookings

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 302

List below each fraction, division, or lot, or fraction thereof and show number of acres to be irrigated in each.

Lot, Fraction, Division, or Lot	No. Acres Irr.	Land Description	No. Acres Irr.
NW 1/4 Sec 8-112-50	33	NW 1/4 NE 1/4 Sec 8-112-50	39
NE 1/4	30	NE 1/4	38
SW 1/4	39	SW 1/4	40
SE 1/4	40	SE 1/4	39

Attach sheet if more space is needed

10. Time required to construct water supply system Five years. Additional time required to complete application of water to the proposed beneficial use three 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. 2 wells with log well turbine pumps

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

C. Works proposed to apply water to beneficial use. conveyer pool irrigation machines.

Estimated Total Cost \$24,000

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 Brookings

I, Fred Jurgens Jr. 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 Fred Jurgens Jr.Subscribed and sworn to before me this 13 day of Jan, 1977

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3556-3

FRANK JURGENS, JR.

ESTELLINE 345111 (Rd.)
(Post Office Address)

SALLIS, CA 93701
SOUTH DAKOTA 57234
(State)

With the following modifications:

The irrigation well approved under this Permit will be located near domestic wells and other irrigation wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in irrigation wells having prior water rights.

See # 4233-3
add Diversion

Date of first receipt of application JANUARY 18, 19 77

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

Date of receipt of corrected application FEBRUARY 1, 19 77

Approved FEBRUARY 24, 19 77, Recorded in Book 17 Page 251

WATER RIGHT PERMIT NO. 3556-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3556-3 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 JANUARY 28, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before AUGUST 24, 19 79
3. The whole of said work is to be completed on or before FEBRUARY 24, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is FEBRUARY 24, 19 85
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 4.3 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-seventh (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 FEBRUARY 24, 19 85; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 15TH day of APRIL, 19 77

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued —, 19 —

Water License Issued —, 19 —

2 nearly identical wells

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 8", Depth 46'
- (2) Casing, Type Steel Diameter 1 1/4" Thickness 3/16"
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Cent. Slot, Diameter 1 1/4", Length 15'
- (4) Gravel Pack. Thickness 5", 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' to 3' overburden, 3' to 10' mixed sand & clay, 10' to 46' water bearing material

Depth to top of water bearing material 10'

Depth to bottom of water bearing material 46'

Thickness of water bearing material 36'

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

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

On same owner's property well #1 - 160 On property owned by others well #2 - 160 yds.

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.

Fred W. Jorgensen
Signature of Applicant

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: _____

Soils Capability: _____

Approved: _____

Disapproved: _____

NAME: _____

ADDRESS: _____

COUNTY: _____

LEGAL DESCRIPTION

1. WELL LOCATION: Center of N² of Sec 8 - 112 - 50

2. AREA TO BE IRRIGATED: N² of Sec 8 - 112 - 50

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): Center pivot

4. CROPS TO BE IRRIGATED: Corn & alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: See attached map

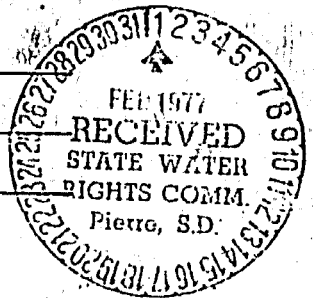
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: _____

WATER QUALITY (To Be Completed by Commission)

7. SAMPLE NO: 76-2138

8. SALINITY: EC = 686 μ mhos/cm (medium)

9. SODIUM: SAR = 0.31 (low)



the land capability for irrigation information has been acquired from

and:

irrigated is true and correct.

Fred W. Jinger

Subscribed and sworn before me this

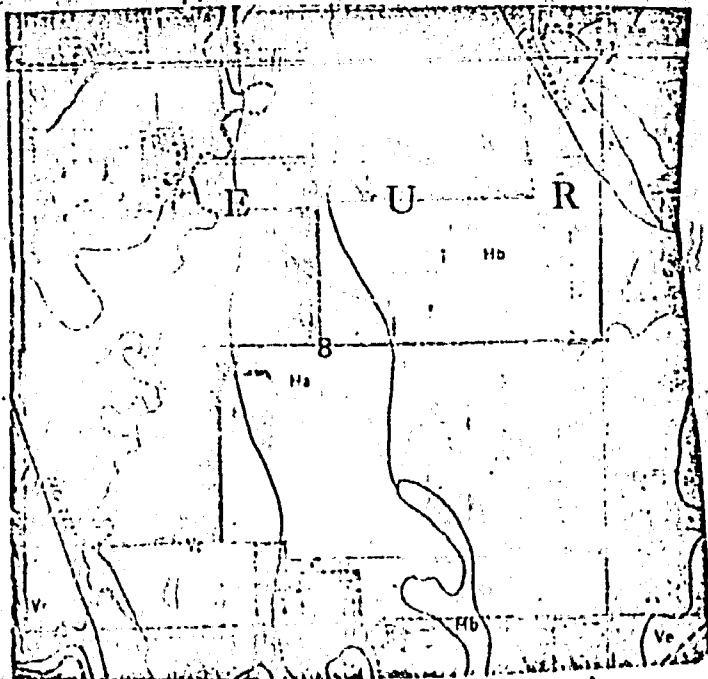
30th day of June 1976.

John L. Harrison

B. F. # 1916

(Title)

N² of Sec 8-112-50



Hb - Hecla sandy loam
nearly level

1-a - Hecla - loam nearly
b.w.l

UP - Volga silty clay

Ulcera sandy loam
undulating

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

Submitted by: Fred W. Jurgens, Jr.
 Address: Emelline, SD 57234

Date Rec'd December 30, 1976
 Sample No. 76-2138
 Identification Well-50'
N¹, Sec. 8, T 112N, R 50W

WATER ANALYSIS

Calcium (Ca)	102	ppm*	5.10	me/l**
Magnesium (Mg)	31	ppm	2.54	me/l
Sodium (Na)	14	ppm	0.61	me/l
Potassium (K)	2	ppm	0.05	me/l
Sulfate (SO ₄)	53	ppm	1.10	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	6	ppm	0.15	me/l
Bicarbonate (HCO ₃)	390	ppm	6.40	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	320	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	686	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.31			
Sodium	7.34	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.63			

Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 8.30 me/l
 Total anions 7.65 me/l

By: Shirley Mittan

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-2138

Amount Enclosed \$.....

Signed.....



January 18, 1977

Mr. Fred Jurgens, Jr.
Estelline, SD 57234

Dear Mr. Jurgens:

Your water sample (Lab. No. 76-2138) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

Your water, as indicated by this analysis, is satisfactory for use on the soils you indicate will be irrigated. If a salt problem or a water table problem should develop, contact extension personnel for assistance.

The WI-1, soils information, and a copy of the water analysis are being forwarded to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

Form 6 - Notice of Intent to Appropriate Water

No. 3556-3

Publish first publication, on or before February 10, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

February 3, 1977

Notice is hereby given that Fred Jurgens, Jr.
whose post office address is Estelline, South Dakota, has made application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
4.3 cubic feet of water per second of time from the ground water through the
Jurgens # 1, the point of diversion of which is to be located in the

center of the NW 1/4 and Center of the NE 1/4

of Section 8, Twp. 112N, Range 50W. Said water to be used for the purpose
of providing irrigation of portions of the following described land:

1/4, Section 8, T112N, R50W

This application No. 3556-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 23rd day of February, 1977, at 10:00 A.M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Fred Jurgens, Jr. Estelline, SD 57234

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

No. 3556-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Brookings) ss.

I, James M. McLellan Jr. 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 Brookings of _____

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

Feb. 10, 1977

Feb. 17, 1977

James M. McLellan Jr.
(Signature)

Editor - General Manager
(Title)

2-17-77

(Date Signed)

Legal no. 706 Feb. 10 and 17
**NOTICE INTENT TO
APPROPRIATE WATER**
Pierre, South Dakota 57501
February 3, 1977

Notice is hereby given that Fred
Jurgens, Jr. whose post office address is
Estelline, 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 4.3 cubic feet of water per
second of time from ground water
through the Jurgens No. 1, the point of
diversion of which is to be located in the

center of the NW $\frac{1}{4}$ and Center of the
NE $\frac{1}{4}$ of Section 8, Twp. 112N, Range
50W. Said water to be used for the
purpose of providing irrigation on
portions of the following described land:
N $\frac{1}{2}$, Section 8, T112N, R50W.

This application No. 3556-3 will be
considered by the Water Rights
Commission at their office at Pierre
up to the 23rd day of February, 1977, at
10:00 A.M. All interested persons may
appear and be heard.

WATER RIGHTS COMMISSION
By: Burton F. Jones
Water Rights Specialist



RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 6389

PIERRE, March 9, 1978

RECEIVED OF Gerald A. Peterson, 345 Williams Rd., BX Sallinas, CA 93901

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.		
Fee for inspecting Beneficial Use, and Issuing Water License No.		
Fee for Issuing Location Certificate-Dry Draw, No.		
Fee for filing transfer of Water Right # 3556-3	2	50
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law.)		
TOTAL	2	50

WATER RIGHTS COMMISSION

By: *John Hatch*
Chief Engineer, Executive Officer
JOHN HATCH 6Y

NOTICE OF TRANSFER OF WATER PERMIT

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

Date: _____



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

N4 Section 8, T112N, R50W

formerly owned by Fred Jurgens, Jr. Estelline SD

has been transferred to Jerald A. Peterson, 345 Williams Rd., Salinas, CA 93901

together with any rights to the beneficial use of water thereon as evidenced by Water Right Permit No. 3556-3 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)
 County of Minnehaha) SS.

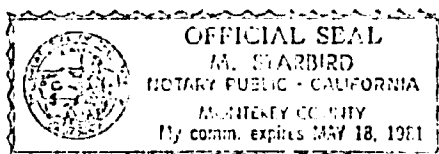
I, Jerald A. Peterson being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and I know of my own personal knowledge that the information herein stated is true.

Jerald A. Peterson
 (Signed)

Subscribed and sworn to before me this 6 day of March

19 78.

M. Starnard
 (Notary Public)





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Water Rights Division
605 773-3352

December 30, 1983

3556-3
4233-3
4362-3
4507-3
4940-3

Jerauld A Peterson
Rt 1, Box 36A
Bruce SD 57220

Dear Mr. Peterson:

This will acknowledge receipt of your 1983 Irrigation Questionnaire. In regard to your request for a list of your permits and the lands covered under each, the following is a description of each of the permits.

- Permit No. 3556-3: 302 acres, N $\frac{1}{2}$ Section 8, T112N, R50W
4.3 cfs - from 2 wells in centers of NW $\frac{1}{4}$ & NE $\frac{1}{4}$ Section 8
- Permit No. 4233-3: 302 acres - N $\frac{1}{2}$ Section 8, T112N, R50W
(same land and cfs as under Permit No. 3556-3)
this permit is for 2 additional wells in the E $\frac{1}{2}$ NW $\frac{1}{4}$
and W $\frac{1}{2}$ NE $\frac{1}{4}$ Section 8
- Permit No. 4362-3: 147 acres - SW $\frac{1}{4}$ Section 8, T112N, R50W
2.0 cfs - from 2 wells in NW $\frac{1}{4}$ SW $\frac{1}{4}$ & SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8
- Permit No. 4507-3: 252 acres - SE $\frac{1}{4}$ Section 17, NW $\frac{1}{4}$ Section 20, T112N, R50W
3.59 cfs - from 2 wells in NW $\frac{1}{4}$ NW $\frac{1}{4}$ & NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 20
- Permit No. 4940-3: 156 acres - SE $\frac{1}{4}$ Section 8, T112N, R50W
2.2 cfs - from 1 well in approximate center of SE $\frac{1}{4}$ Sec 8

If you have any questions or need further information, contact this office.

Sincerely,

GENNY MCMATH
Natural Resources Analyst

GM:ks

Equal Opportunity Employer

**South Dakota Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

December 10, 1987

4940-3
4362-3
3556-3

Jerald A Peterson
RR #1 Box 36A
Bruce, SD 57220

Dear Mr. Peterson:

The inspection of your water use systems and inspection of the extent of the application of water to beneficial use as developed under Water Permit Nos. 4940-3, 4362-3 and 3556-3 has been completed. The final water right document, the Water License, can now be issued for these permits.

I am contacting Grimshaw Drilling to try and obtain well logs for the your wells. The well logs are needed to complete the permit files for licensing purposes.

Statutes require that we charge a \$50.00 fee (each) for inspection and issuance of a Water License. Upon receipt of \$150.00 from you, Water License Nos. 4940-3, 4362-3 and 3556-3 can be issued. South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the license fees are paid.

If you have any questions, please contact us.

Sincerely,

Genny McMATH

GENNY MCMATH
Natural Resources Analyst
605 773-3352



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

December 10, 1987

Grimshaw Drilling
%Larry Wold
Box 81
Chester, SD 57016

Dear Mr. Wold:

Our office is in the process of issuing water licenses for permits held by Jerald Peterson, Bruce, SD. The lands covered under his permits were formerly owned by John Hovey. In order to complete his files and before the licenses can be issued, well logs are needed for the following described wells.

Three wells - Brookings County

1. 1325' east and 1450' north of the SW corner Section 8, T112N, R50W (NW 1/4 SW 1/4)
2. 1300' east and 1275' south of the NW corner Section 8, T112N, R50W (NW 1/4 NW 1/4)
3. 1300' west and 1350' south of the NE corner Section 8, T112N, R50W (SE 1/4 NE 1/4)

(Note: the test holes for these wells were drilled in 1978)

If you still have copies of the well logs for the above referenced wells, please forward a copy of each to our office. The water licenses are ready to be issued but cannot be done until this information is obtained.

Your prompt attention in this matter will be appreciated. If you have any questions, please contact me.

Sincerely,

GENNY MCMATH
Natural Resources Analyst
605 773-3352

cc: Jerald Peterson

Permit No. 3556-3BIG SIOUX RIVER Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

TO: Chief Engineer, Division of Water Rights, DWNR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by JERALD A. PETERSON of BRUCE, SD holder of Permit No. 3556-3, bearing the priority of JANUARY 28, 19 77 authorizing the diversion of 4.3 cu. ft. per second of the waters of GROUNDWATER (2 WELLS) for IRRIGATION purposes, in BROOKINGS County.

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

A. Works used to divert the water:

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

C. Works used to apply water to beneficial use:

SEE SEPARATE SHEETS

The system is in the following condition GOOD

The points of diversion are located (NW 1/4) 1300' E AND 1275' S OF NW CORNER OF SECTION 8, T112N, R50W. (NE 1/4) 1300' W AND 1350' S OF NE CORNER OF SECTION 8, T112N, R50W.

The works are capable of diverting and conveying to the place of use 3.57 (1600 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. ALL IN SECTION 8, T112N, R50W

<u>NW 1/4 NW 1/4 - 32 ACRES</u>	<u>NW 1/4 NE 1/4 - 31 ACRES</u>
<u>NE 1/4 NW 1/4 - 28 ACRES</u>	<u>NE 1/4 NE 1/4 - 34 ACRES</u>
<u>SE 1/4 NW 1/4 - 33 ACRES</u>	<u>SE 1/4 NE 1/4 - 35 ACRES</u>
<u>SW 1/4 NW 1/4 - 34 ACRES</u>	<u>SW 1/4 NE 1/4 - 31 ACRES</u>

comprising a total of 258 acres of land and the license should be issued for 3.57 cfsApplicable permit qualifications have been complied with Yes ☒ NoExceptions to compliance are: DON'T HAVE PRODUCTION WELL LOGS Date 4-1-87

(NOT AVAILABLE)

Signature Thomas M. Brander

A. WORKS USED TO DIVERT WATER

(NW $\frac{1}{4}$)

1. 38' DEEP WELL WITH 16" CASING AND 15' JOHNSON SS SCREEN
A WESTERN LAND ROLLER PUMP, 700-800 GPM CAPACITY, SERIAL # E78170
POWERED BY 60 HP U.S. ELECTRIC 'HIGH THRUST' MOTOR, 1770 RPM, TYPE-RH
ID # R-6234-03-440

(NE $\frac{1}{4}$)

1. 46' DEEP WELL WITH 14" CASING AND 15' JOHNSON SS SCREEN
A WESTERN LAND ROLLER PUMP, HEAD NO. 8M, 5-12 CH, 700-800 GPM CAPACITY,
SERIAL # E7855
POWERED BY 75 HP U.S. ELECTRIC 'HIGH THRUST' MOTOR, 1770 RPM, TYPE-RH,
ID # R-6324-03-223 R2114014

B. WORKS USED TO TRANSPORT WATER TO PLACE OF USE

(NW $\frac{1}{4}$)

CENTER PIVOT - 20' OF 8" SS PIPE TO CENTER PIVOT
GUN - 1800' OF 6" PIPE AND 660' OF 4" RUBBER HOSE

(NE $\frac{1}{4}$)

CENTER PIVOT - 10' OF 8" SS PIPE TO CENTER PIVOT

C. WORKS USED TO APPLY WATER TO BENEFICIAL USE

(NW $\frac{1}{4}$)

a. AN 8 TOWER GE ELECTROGATOR CENTER PIVOT, MODEL 480,
HIGH PRESSURE SYSTEM WITH END GUN; (70 PSI) 800 GPM CAPACITY,
SERIAL # 978C5328

b. EASY RAIN GUN, MODEL 66 WATER WINCH DRIVER, ESTIMATE - 450 GPM CAPACITY
SERIAL # 02-20-03502-066

(NE⁴)

AN 8 TOWER GE ELECTROGATOR CENTER PIVOT, MODEL 680,
LOW PRESSURE SYSTEM (25 PSI), END GUN, 800 GPM CAPACITY,

SERIAL # 578C5177

GRIMSHAW DRILLING CO

DRILLING
LOG

924 South Melrose
Sioux Falls, S.D. 57106
Phone 605-332-6974

Job # 5705
1-24-78

Name JERRY PETERSON Date 1-12-78
Address 345 Williams Rd. Salinas, Calif.
County San Kings Sec. _____ Twp. _____ Range 73901

NO. FT.	DIA.	RATE	CASING	TOTAL
90'	4 3/4"	\$3.00	—	\$270.00
Land of Fred Torgens by Route 512				

BALANCE DUE:

#1 Hole [middle of 10 Quarts] [middle of E. Quartz]

0 ft. to 3 ft. Topsoil	0 ft. to 2 ft. Topsoil
3 ft. to 6 ft. Brown clay	2 ft. to 5 ft. Brown clay
6 ft. to 10 ft. Red medium Gravel	5 ft. to 11 ft. Red Gravel
10 ft. to 32 ft. Gray Sand with coarse medium to fine sand	11 ft. to 25 ft. Gray coarse sand
32 ft. to 38 ft. Gray Sand & shale stone	25 ft. to 30 ft. Gray Sand & shale stone
38 ft. to 42 ft. Brown clay	30 ft. to 40 ft. Shale & blue clay
42 ft. to 50 ft. Blue clay	
600 to 700 gpm	500 to 600 gpm

Both Holes
STATIC WATER LEVEL 10' ft. Larry M. Wall
OWNER

REMARKS: #1 Hole proved best - 22' water bearing sand - #2 Hole was coarser material but only 15' water bearing [OVER]

What is the depth of the well?

GRIMSHAW DRILLING CO.

DRILLING LOG

924 South Melrose
Sioux Falls, S.D. 57106
Phone 605-332-6974

Name Dr. Jerry Peterson Date 2-16-78
Address Badlands, Calif.
County San Diego Sec. 112 Twp N Range 5000

NO	FT	DIA.	DATE	CASING	TOTAL

BALANCE DUE

0 ft to 1 ft Topsoil
1 ft to 3 ft Brown Clay
3 ft to 15 ft Red Gravel
15 ft to 48 ft Blue Clay (10 ft to 20 ft)
48 ft to 50 ft Blue Clay (10 ft to 20 ft)
50 ft to 53 ft Blue Clay (10 ft to 20 ft)
53 ft to 54 ft Blue Clay (10 ft to 20 ft)
54 ft to 55 ft Blue Clay (10 ft to 20 ft)
55 ft to 56 ft Blue Clay (10 ft to 20 ft)
56 ft to 57 ft Blue Clay (10 ft to 20 ft)
57 ft to 58 ft Blue Clay (10 ft to 20 ft)
58 ft to 59 ft Blue Clay (10 ft to 20 ft)
59 ft to 60 ft Blue Clay (10 ft to 20 ft)
60 ft to 61 ft Blue Clay (10 ft to 20 ft)
61 ft to 62 ft Blue Clay (10 ft to 20 ft)
62 ft to 63 ft Blue Clay (10 ft to 20 ft)
63 ft to 64 ft Blue Clay (10 ft to 20 ft)
64 ft to 65 ft Blue Clay (10 ft to 20 ft)
65 ft to 66 ft Blue Clay (10 ft to 20 ft)
66 ft to 67 ft Blue Clay (10 ft to 20 ft)
67 ft to 68 ft Blue Clay (10 ft to 20 ft)
68 ft to 69 ft Blue Clay (10 ft to 20 ft)
69 ft to 70 ft Blue Clay (10 ft to 20 ft)
70 ft to 71 ft Blue Clay (10 ft to 20 ft)
71 ft to 72 ft Blue Clay (10 ft to 20 ft)
72 ft to 73 ft Blue Clay (10 ft to 20 ft)
73 ft to 74 ft Blue Clay (10 ft to 20 ft)
74 ft to 75 ft Blue Clay (10 ft to 20 ft)
75 ft to 76 ft Blue Clay (10 ft to 20 ft)
76 ft to 77 ft Blue Clay (10 ft to 20 ft)
77 ft to 78 ft Blue Clay (10 ft to 20 ft)
78 ft to 79 ft Blue Clay (10 ft to 20 ft)
79 ft to 80 ft Blue Clay (10 ft to 20 ft)
80 ft to 81 ft Blue Clay (10 ft to 20 ft)
81 ft to 82 ft Blue Clay (10 ft to 20 ft)
82 ft to 83 ft Blue Clay (10 ft to 20 ft)
83 ft to 84 ft Blue Clay (10 ft to 20 ft)
84 ft to 85 ft Blue Clay (10 ft to 20 ft)
85 ft to 86 ft Blue Clay (10 ft to 20 ft)
86 ft to 87 ft Blue Clay (10 ft to 20 ft)
87 ft to 88 ft Blue Clay (10 ft to 20 ft)
88 ft to 89 ft Blue Clay (10 ft to 20 ft)
89 ft to 90 ft Blue Clay (10 ft to 20 ft)
90 ft to 91 ft Blue Clay (10 ft to 20 ft)
91 ft to 92 ft Blue Clay (10 ft to 20 ft)
92 ft to 93 ft Blue Clay (10 ft to 20 ft)
93 ft to 94 ft Blue Clay (10 ft to 20 ft)
94 ft to 95 ft Blue Clay (10 ft to 20 ft)
95 ft to 96 ft Blue Clay (10 ft to 20 ft)
96 ft to 97 ft Blue Clay (10 ft to 20 ft)
97 ft to 98 ft Blue Clay (10 ft to 20 ft)
98 ft to 99 ft Blue Clay (10 ft to 20 ft)
99 ft to 100 ft Blue Clay (10 ft to 20 ft)

STATIC WATER LEVEL _____ ft. _____

REMARKS

GRIMSHAW DRILLING CO.

DRILLING LOG

924 South Melrose
Sioux Falls, S.D. 57106
Phone 605-332-6974

Name Dr. Jerry Peterson Date 8-28
Address Salmon Falls
County Be. Range Sec. 12 Twp. N Range 50

NO. FT.	DIA.	RATE	CASH	TOTAL

BALANCE DUE

0 ft. to 2 ft. Topsoil
2 ft. to 8 ft. Red gravel
8 ft. to 32 ft. gray sand & gravel
32 ft. to 40 ft. Blue clay
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.
____ ft. to ____ ft. ____ ft. to ____ ft.

STATIC WATER LEVEL 6 ft.

REMARKS

DRILLER

LICENSE FOR PERMIT NUMBER 3556-3 (Jerald A. Peterson)

1. Legal location of wells: Near center of NE $\frac{1}{4}$, Section 8,
T112N, R50W.

dams & structures: _____

2. Well information: Well Drilling Firm Grimshaw

No. of wells 1 Depth 46'

Casing a) diameter _____ Screen a) type _____

b) length _____ b) length _____

c) type _____ Static Water Level $\approx$ 7 feet (1987-Spring)

Pump a) make _____ Motor a) make _____

b) model _____ b) model no. _____

c) size _____ c) horsepower rating _____

d) capacity _____ GPM d) motor efficiency rating _____

e) turbine pump _____

no. of stages _____

3. Distribution lines:

a) size of lines _____

b) type _____

c) length _____

(Other information on
Examination Report.)

4. Dam information:

a) height to crest _____

b) height to spillway _____

c) crest width _____

d) crest length _____

e) spillway length _____

f) spillway width _____

g) approx. storage _____

h) Distribution lines or canals:

1) size _____

2) type _____

3) length _____

i) Outlet tubes:

1) diameter _____

2) type _____

3) valued (Y/N) _____

4) valve type _____

5) location on structure _____

5. System Type: a) sideroll:

1) length _____ feet

2) diameter of pipe _____

3) make, model & number of sprinklers _____

4) spacing of sprinklers _____

5) nozzle size _____

b) towline:

1) length _____ feet

2) make, model & number of sprinklers _____

3) spacing of sprinklers _____

4) nozzle size _____

5. System Type: c) center pivot

- 1) make _____
- 2) number of towers _____
- 3) distance between towers _____
- 4) overall length _____
- 5) End gun (Y/N) _____
- 6) high or low pressure _____
- 7) make & size of nozzles _____
- 8) PSI reading while system is running _____
- 9) GPM _____

g) Gun

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____
- 6) hose size _____
- 7) hose length _____

d) Gate Pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

e) Siphons

- 1) number _____
- 2) size _____

f) Portable boom

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____

h) Hydromatic

- 1) make _____
- 2) model _____
- 3) serial number _____
- 4) length _____
- 5) nozzle size _____
- 6) spacing _____
- 7) PSI _____
- 8) capacity (GPM) _____

YES

NO

Check Items

☒

1. Soil and water permit lands agree with lands being irrigated and lands listed on permit.

☒

2. Special Qualifications to permit being abided by.

☒

3. All Structures, wells and lands on map.

REMARKS:

The well logs for the production wells were not available.

LICENSE FOR PERMIT NUMBER 3556-3 (Jerald A. Peterson)

1. Legal location of wells: Near center of NW 1/4, Section 8,
T112N, R50W.

dams & structures: _____

2. Well Information: Well Drilling Firm Grimshaw

No. of wells 1 Depth 38'

Casing a) diameter _____ Screen a) type _____
b) length _____ b) length _____
c) type _____ Static Water Level = 7' (1987-Spring)

Pump a) make _____ Motor a) make _____
b) model _____ b) model no. _____
c) size _____ c) horsepower rating _____
d) capacity _____ GPM d) motor efficiency rating _____
e) turbine pump
no. of stages _____

Other Information on
Examination Report

3. Distribution lines:

a) size of lines _____
b) type _____
c) length _____

Have Distribution
Lines for Pivot and
for Traveling Gun
(see examination report)

4. Dam information:

a) height to crest _____
b) height to spillway _____
c) crest width _____
d) crest length _____
e) spillway length _____
f) spillway width _____
g) approx. storage _____
h) Distribution lines or canals:

- i) Outlet tubes:

1) diameter _____
2) type _____
3) valued (Y/N) _____
4) valve type _____
5) location on structure _____

5. System Type: a) sideroll:

1) length _____ feet
2) diameter of pipe _____
3) make, model & number of sprinklers _____
4) spacing of sprinklers _____
5) nozzle size _____

- b) towline:

1) length _____ feet
2) make, model & number of sprinklers _____
3) spacing of sprinklers _____
4) nozzle size _____

5. System Type: c) center pivot

- 1) make _____
- 2) number of towers _____
- 3) distance between towers _____
- 4) overall length _____
- 5) End gun (Y/N) _____
- 6) high or low pressure _____
- 7) make & size of nozzles _____
- 8) PSI reading while system is running _____
- 9) GPM _____

g) Gun

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____
- 6) hose size _____
- 7) hose length _____

d) Gate Pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

e) Siphons

- 1) number _____
- 2) size _____

f) Portable boom

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____

h) Hydromatic

- 1) make _____
- 2) model _____
- 3) serial number _____
- 4) length _____
- 5) nozzle size _____
- 6) spacing _____
- 7) PSI _____
- 8) capacity (GPM) _____

YES

NO

Check Items

☒

1. Soil and water permit lands agree with lands being irrigated and lands listed on permit.

☒

2. Special Qualifications to permit being abided by.

☒

3. All Structures, wells and lands on map.

REMARKS:

The well logs for the production wells were not available.

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 3556-3

(1) Fred Jurgens, Jr. of Estelline, South Dakota, 57234 made Application No. 3556-3, January 18, 1977 for a water permit to appropriate 3.57 cubic feet of water per second from groundwater (two wells), Brookings County, South Dakota for irrigation purposes. Permit No. 3556-3 with a priority date of January 28, 1977 was approved February 24, 1977 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before February 24, 1982 and for the application to beneficial use of said water on or before February 24, 1985.

On March 9, 1978, Water Permit No. 3556-3 was transferred to Jerald A. Peterson.

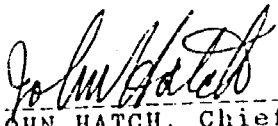
(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 3.57 cubic feet of water per second for beneficial use. The location of the diversion points are: 1) 1300'E and 1275'S of the NW corner of Section 8 (NW1/4 NW1/4); 2) 1300'W and 1350'S of the NE corner of Section 8 (SE1/4 NE1/4); all in T112N, R50W.

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T112K, R50W, Section 8 NW1/4 NW1/4	32 acres
NE1/4 NW1/4	28 acres
SE1/4 NW1/4	33 acres
SW1/4 NW1/4	34 acres
NW1/4 NE1/4	31 acres
NE1/4 NE1/4	34 acres
SE1/4 NE1/4	35 acres
SW1/4 NE1/4	31 acres

Total 258 acres

(4) Pursuant to Section 46-5-30.1 Jerald A. Peterson of RR #1,
Box 36A, Bruce, South Dakota 57220 the holder(s) and/or owner(s)
of Water Permit No. 3556-3 is issued a license to appropriate
water, the right to use 3.57 cubic feet of water per second from
groundwater (two wells) with a priority date of January 28, 1977
from the location specified in (2) of this license. The water is
to be conducted to and upon lands specified in (3) of this
license for the purpose of irrigation. This license is subject
to any limitations or qualifications listed in Water Permit No.
3556-3 and subject to South Dakota State Law.



JOHN HATCH, Chief Engineer
Water Rights Division
Department of Water and Natural
Resources

SEP 14 1989

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

q

Pierre, December 15, 1987

RECEIVED OF Dr. Jerald A. Peterson, RR 1, Box 36 A, Bruce, SD 57220

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>3556-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____ (Any Other Work Provided by Law)		
Total	50	00

By

John Hatch
Chief Engineer

JOHN HATCH (ms)

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

4362-3
3556-3

SEP 14 1989

Jerry Peterson
RR #1, Box 36A
Bruce, SD 57220

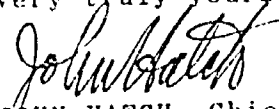
Dear Mr. Peterson:

Enclosed are Water License Nos. 4362-3 and 3556-3. They are the final water right documents completing your process of obtaining Water Rights. Enclosed are Receipt Nos. 411095 and 411096 in the amount of \$50.00 each which you paid for the inspection and issuance of the Water Licenses.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right Nos. 4362-3 and 3556-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,


JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures



Water Rights Program -- File Documentation

NAME: Jerald A Peterson

ADDRESS: 46727 197th St, Bruce SD 57220

DATE: September 17, 2001

COUNTY: Brookings

TELEPHONE: 873-2636

Cell 695-3163

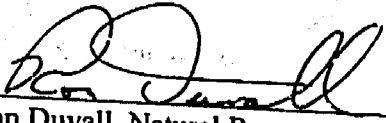
RE: Splitting Water Right No. 3556-3 into two separate water rights

COMMENTS:

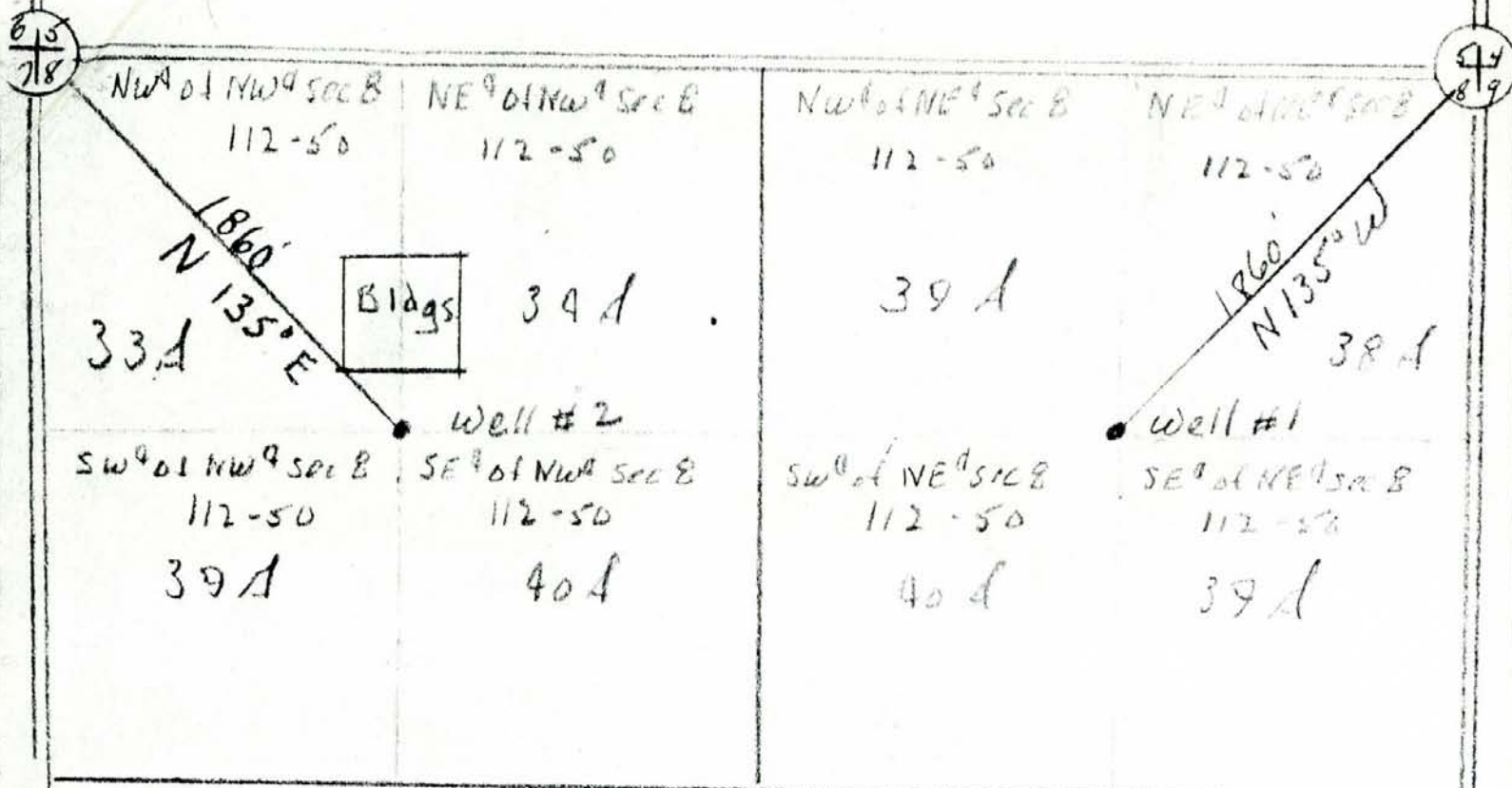
On September 17, 2001 I spoke with Jerald Peterson via phone on several permitting issues. Mr. Peterson requested that Water Right No. 3556-3 be split into two separate water rights to simplify reporting water use on the irrigation questionnaire. Currently, Water Right No. 3556-3 authorizes irrigation of 258 acres in the N $\frac{1}{2}$ section 8-112N-50W from two wells. The irrigation system consists of a center pivot in the NE $\frac{1}{4}$ and another pivot in the NW $\frac{1}{4}$ with a well located near the center of each pivot.

RECOMMENDED ACTION:

Water Right No. 3556-3 needs to be reissued under two separate water right numbers. Water Right No. 3556A-3 can be issued for irrigation of the NE $\frac{1}{4}$ and No. 3556B-3 for irrigation of the NW $\frac{1}{4}$ with the acreages and appropriated water divided accordingly.



Ron Duvall, Natural Resources Engineer
Water Rights Program



Fred Jurgens Jr.

Irrigation Project #1

Estelline Santa Fe Co.

57239

Land in Brookings Co.

Area Irrigated - N² of sec 8 - 112-50

Acres Irrigated - 302

water claimed - 9.3 cfs

1-13-77

certified correct

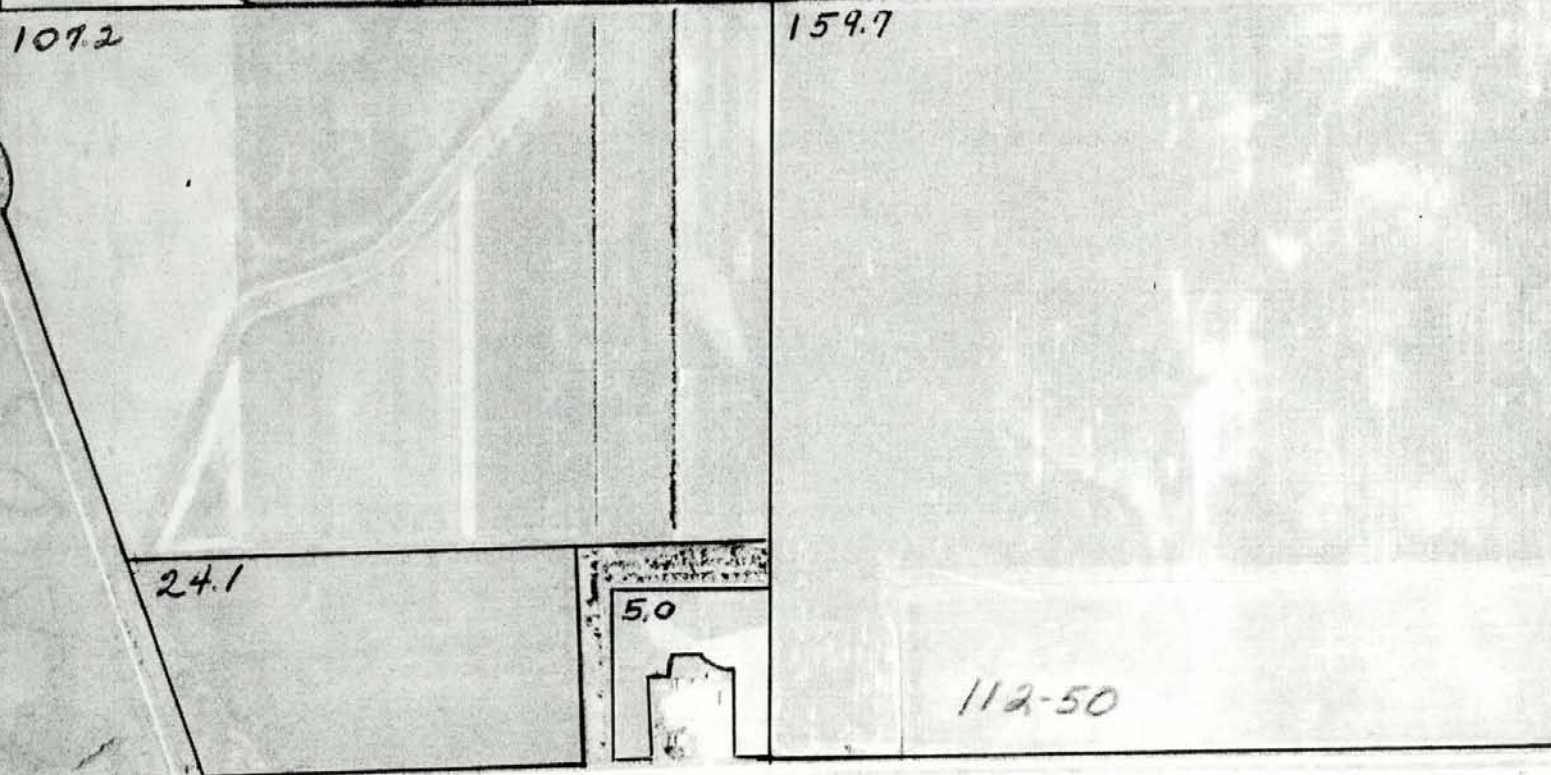
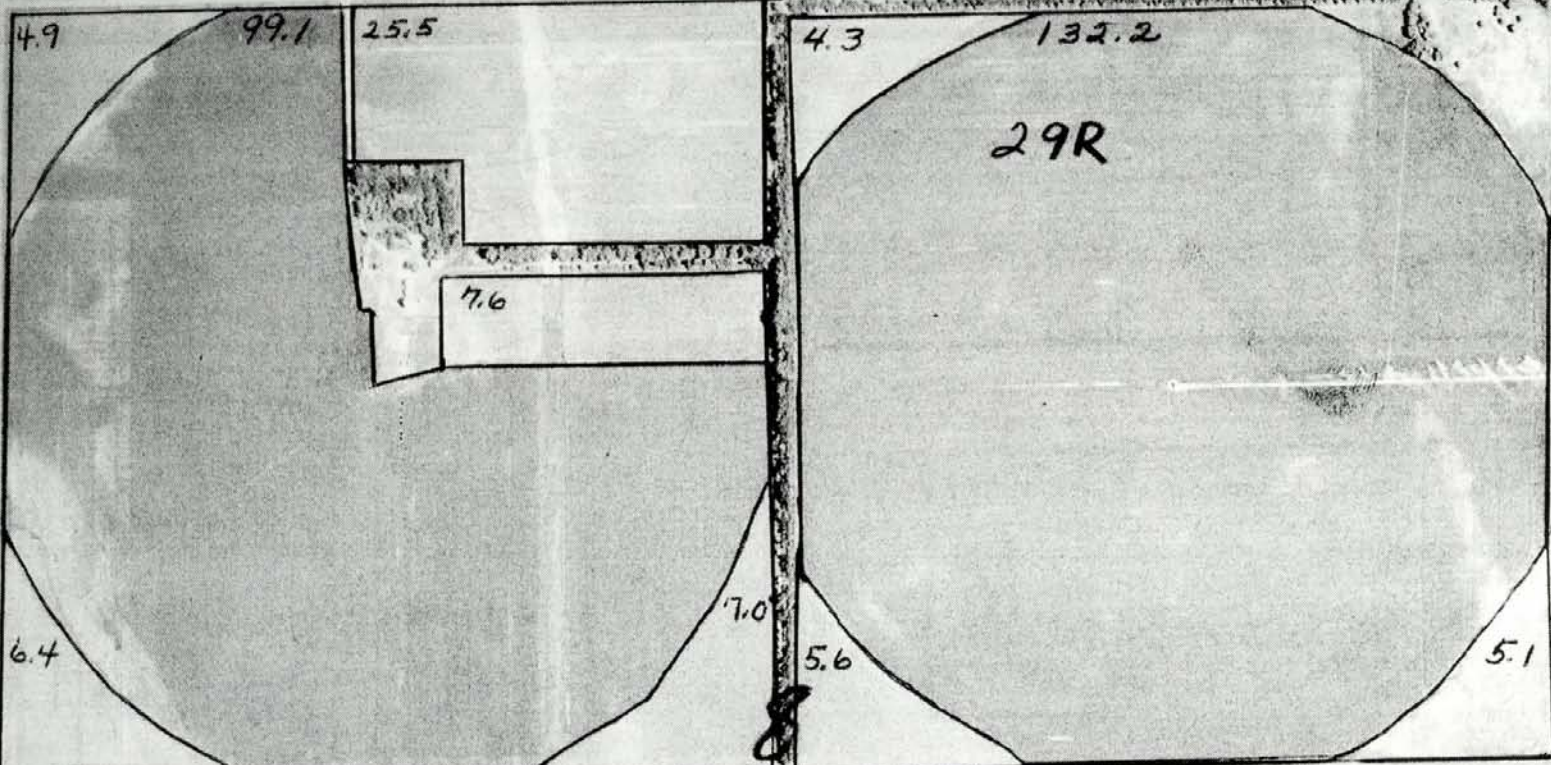
John L. [unclear]

Handwritten in red: 112-50-3 App. No. 3556-3

NOT TO SCALE

3556-3

112-50



NOT TO SCALE

