

8-16-77
C

8-11-77

4 1/2' - 14" 15' SB Section

Payson Jackson E-List # 7717210
Velocity 8"

50 HP GE Electric Motor @ 1750

Aluminum 8.6m CP

Model # 2-5E6 371.6 2776

1284' Army with End Gpm

Pump @ 800 GPM

8' of 10" Line from Well to Center of Parrot

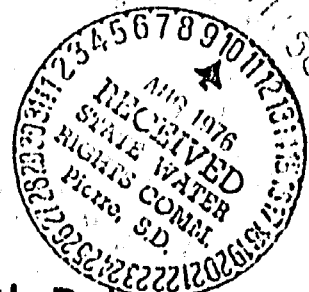
2011-3 GERALD KAUSBECK
81076 ESTELLINE, S.D. 572

Water Right Number 2911-3

1. Considered 1-36, 19 77
2. Name of Applicant GERALD KALSBECK
3. Post Office Address ESTELLINE
4. Amount of water claimed 3.9
5. Source of water supply 42' DEEP WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 275
7. Water to be diverted and used in DEUEL County
about 25, 1E Miles of ESTELLINE
8. Proof of Publication
Received 1-3-77
Not received
Approved
Subject to
Not approved
Action deferred
9. Application
10. Remarks:

Form 2 - Application for Permit to Appropriate Water-Original (Includes Approval and Permit)

Map No. 2243-3 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 it, as not applicable)

- Name of Applicant Gerald Kalsbeck St. 2, Box 17
Postoffice address Estelline State South Dakota
If a corporation show date and place of incorporation _____
- Method of accomplishing work (contract, employment of others, or by direct labor) Contract Direct Labor
- Name of diversion work Gerald Kalsbeck Irrigation Project #1
- Amount of water claimed (cubic feet per second) 3.9
- Source of water supply Well
- Location of point of diversion 2500' N 57° E at SW corner Section 31
112-50

County Deuel

- Annual period or periods during which water is to be used April through October
- Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
- For irrigation use, _____ Total number of acres to be irrigated 275

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.
1/4 NW 1/4 Sec 31-113-50	25	1/4 NW 1/4 Sec 31-113-50	37
1/4 NE 1/4 " " " "	40	1/4 NE 1/4 " " " "	30
1/4 SW 1/4 " " " "	32	1/4 SW 1/4 " " " "	34
1/4 SE 1/4 " " " "	39	1/4 SE 1/4 " " " "	38

Attach sheet if more space is needed

- Time required to complete construction of water supply system Five years. Additional time required to complete application of water to the proposed beneficial use three years.
- Choice of newspaper for Notice of Intent to Appropriate Water publication Water town Public Opinion
- Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source. Well with electrically driven deep well turbine

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

C. Works proposed to apply water to beneficial use. center pivot irrigation machine

Estimated Total Cost \$46,000

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 Brinkley

I, Gerald Kalsbeck, 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 Gerald Kalsbeck

Subscribed and sworn to before me this 4 day of Aug, 1976

John J. W. [Signature]
Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2911-3

GERALD KALSBECK
(Applicant)

ESTELLINE
(Post Office Address)

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.

Date of first receipt of application AUGUST 10, 19 76

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

Date of receipt of corrected application AUGUST 25, 19 76

Approved JANUARY 26, 19 77, Recorded in Book 17 Page 15

WATER RIGHT PERMIT NO. 2911-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2911-3 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 AUGUST 10, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 26, 19 79
3. The whole of said work is to be completed on or before JANUARY 26, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 26, 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 3.9 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 26, 19 85; said water to be used during the following described annual period: APRIL THEN OCTOBER

Witness my hand this 1ST day of APRIL, 19 77

WATER RIGHTS COMMISSION

By:

John H. H. H.
Chief Engineer, Executive Officer

Certificate of Construction Issued SEPTEMBER 15, 19 81

Water License Issued SEPTEMBER 15, 19 81

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 30", Depth 42'
(2) Casing, Type Steel, Diameter 14", Thickness 3/16"
(wood, concrete, steel, etc)
(3) Perforated Screen,
Type Cont. slot, Diameter 14", 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 2' Comp. Sand, 5' to 6' Sand & clay, 6' to 45' gravel & gravel, 45' + clay

Depth to top of water bearing material 7'

Depth to bottom of water bearing material 47'

Thickness of water bearing material 35'

Depth to water (ground surface to water level) 8'

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

On same owner's property 85 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.

Herald A. Mahbeck
Signature of Applicant

August 19, 1976



Gerald Kalsbeck
Estelline, SD 57234

Dear Mr. Kalsbeck:

I am enclosing the original copy of the report of analysis of the well water sample of sec 31-112-30. This is your copy to keep. I am also enclosing a copy of AES publication 13. The chart on the outside back cover is a means of classifying water for irrigation use, and you will see that the red cross indicated that you are in the high salinity, low sodium category.

Accordingly, this water is moderately well suited to irrigation use in the climatic zone of Deuel County. The salt load which it carries is approximately 1 ton per each acre foot of water, and therefore you should consider this in your application of water. You should not use frequent, light applications in the warm part of the growing season.

The soils are moderately well suited to irrigation except that the Volga silty clay loam, moderately poorly drained, is a slow draining soil, and there will be a tendency for salt to build up in this soil or a water table, before the other soils which you irrigate. Therefore, you should watch carefully for signs of salinity development as evidenced by grayish crusts on the soils surface or reduced crop yield. If such should take place, get in touch with someone in extension soils work or water specialist for advice on management of this water or possible leaching procedures.

A copy of this letter is accompanying your WE-1 form and your application materials to the State Conservation Commission in Pierre.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

cc: State Conservation Commission
D. Fohl
Kate Wittala, County Extension Agent

LOP:jad
Enclosures

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)

NAME Gerald Kalsbeek

ADDRESS Es J. Hill S. Dak.

COUNTY Dewar



LEGAL DESCRIPTION

1. WELL LOCATION About center of SW 1/4 Sec 31 - 113 - 50
2. LOCATION OF AREA TO BE IRRIGATED S 2 of Sec 31 - 113 - 50

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED Corn & alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-939
6. SALINITY (EC X 10⁶) 1245 (high)
7. SODIUM (SAR) 0.53 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from _____ Conservation District, County Extension office or Soil Conservation Service.
and:
that the legal description for the location of the well and land to be irrigated is true and correct.

Gerald Kalsbeek
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
4 DAY OF Aug 19 76

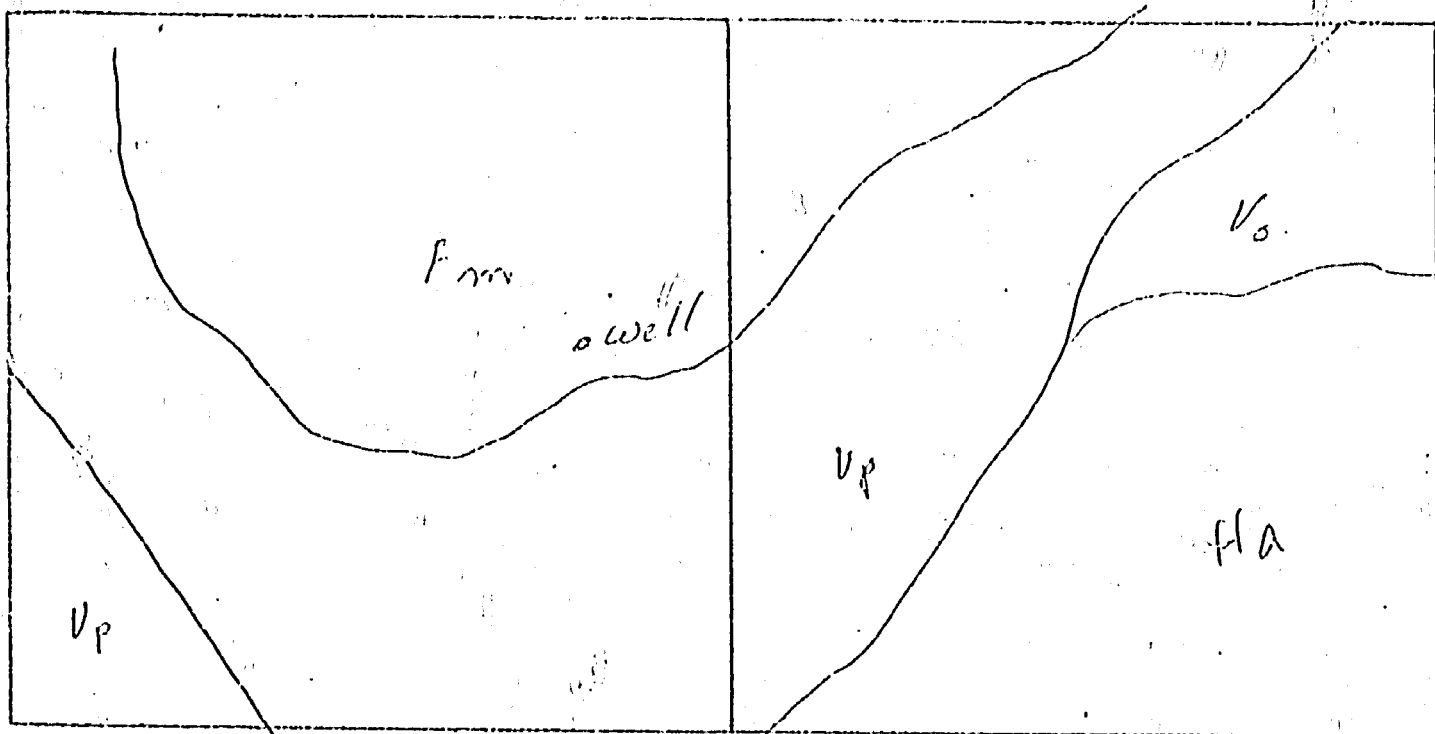
John S. Williams
(TITLE OR SEAL)

William H. Smith
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

32 of 31-13-50

MAP



NARRATIVE

Railroad

- V_o - Volga & Silty clay loam
- V_p - Volga Silty clay loam, moderately poorly drained
- F_m - Fordville
- $H.A.$ - Hicla loam

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

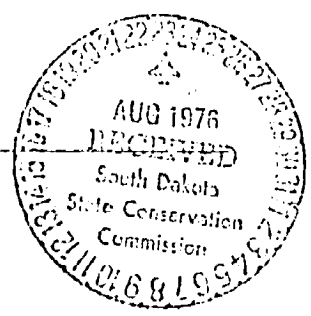
Submitted by: _____
 Address: _____

Date Rec'd: _____
 Sample No.: _____
 Identification: _____

WATER ANALYSIS

Calcium (Ca)	112	ppm*	7.67	me/l**
Magnesium (Mg)	107	ppm	6.77	me/l
Sodium (Na)	34	ppm	2.12	me/l
Potassium (K)	3	ppm	0.19	me/l
Sulfate (SO ₄)	155	ppm	9.64	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	11	ppm	0.69	me/l
Bicarbonate (HCO ₃)	130	ppm	8.10	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)	220	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1245	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.93			
Sodium	34	% of cations		
Residual sodium carbonate	0.06	me/l		
pH	7.14			
Others:				
*ppm=parts per million				
**me/l=millequivalents per liter				
***g.p.g.=grains per gallon				

COMMENTS: Total cations 17.33 me/l
 Total anions 16.19 me/l



By: _____

Service Performed	Amount Due
ANALYSIS: 1:11	8.00 F.T.D.

Make checks payable to: Water Quality Laboratory
 Cut along dotted line and return the lower portion with payment
 Sample No. 7712
 Amount Enclosed \$
 Signed

WATER LICENSE NO. 2911-3

(1) WHEREAS, On the 10th day of August A. D. 19 77

Cerald Kellogg

made Water Right Application No. 2911-3 for a permit to use 3.9 cubic feet per second of the waters of groundwater (one well)

County of Deuel, State of South Dakota, for irrigation

purposes; and

(2) WHEREAS, On the 25th day of January A. D. 19 77

Permit No. 2911-3, with a date of priority of August 10, 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 25th day of January A. D. 19 82 and for the application to beneficial use of said water on or before the 25th day of January A. D. 19 82

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,

~~to irrigate a 132 acre circle in the 1 1/2 - NW 1/4 and W 1/2 SW 1/4, Section 22,~~
~~29113H, R50W~~

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

_____ of Estelline, South Dakota

the holder _____ and owner _____ of said permit No. 2611-3 a water right, dating from August 10, 1973

_____ to use of 1.79 cubic feet per second of the waters of groundwater (one well)

in the County of Deuel and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at a point north 57° east, 2700' from the SW corner, Section 31, T113N, R50W

and conducted to and upon a 132 acre circle in the E 1/2 SW 1/4 and W 1/2 SE 1/4, Section 31, T113N, R50W

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2611-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 15th day of September A. D.
Nineteen Hundred and Eighty-one

WATER MANAGEMENT BOARD

By:

John H. H. H.
Chief Engineer, Executive Officer
JOHN HATCH

Permit No. 2911-3

Water Diversion No. 3 Big Sioux River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Gerald Kalsbeck

_____ the holder _____ of
Permit No. 2911-3, issued upon Application No. 2911-3, bearing date of priority of August 10,
1976 authorizing the diversion of 3.9 cu. ft. per second of the waters of _____
groundwater (one well) County of Dauel, State of South Dakota at _____
a point north 37° east, 2700' from the SW corner, Section 31, 1113N, R50W

_____, for irrigation

purposes, has B 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 1.78 c. ft. per second of water.

Date September 15, 1981

John Hatch
JOHN HATCH, Chief Engineer
Water Rights Division

No. 2411-3

Publish first publication, on or before January 13, 1977.

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

December 20, 1976

Notice is hereby given that Gerald Kalsbeck
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
3.9 cubic feet of water per second of time from the ground water through the
Kalsbeck # 1, the point of diversion of which is to be located in the

center of the E $\frac{1}{2}$ SW $\frac{1}{4}$

of Section 31, Twp. 113N, Range 50W. Said water to be used for the purpose
of providing irrigation on portions of the following described land:

S $\frac{1}{2}$, Section 31, T113N, R50W

This application No. 2411-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 26th day of January, 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: Gerald Kalsbeck, Estelline, SD 57234

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 8441

PIERRE, September 1, 1931

RECEIVED OF Gerald Falsbeck, Rt. 2, Box 17, Estelline, SD 57734

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. 2911-3	50	00
Fee for inspecting Beneficial Use, and issuing Water License No. 2911-3		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for		
(any other work as provided by law)		
TOTAL	50	00

WATER RIGHTS COMMISSION

By (John Hatch)
Chief Engineer, Executive Officer
JOHN HATCH / (b)

Permit No. 2911-3
 Water Division 3 Big Sioux River Water District

10170302

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

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

I have this day made a thorough examination of the water use system constructed by GERALD
KALSBECK of ESTELLE holder
 of Permit No. 2911-3, bearing date of priority of AUGUST 10, 1976
 authorizing the diversion of 3.9 cu. ft. per second of the waters of GROUNDWATER
 for IRRIGATION purposes, in DEUEL 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:

42' DEEP WELL - 14" STEEL CASING - 15' SS SCREEN
 BYRON JACKSON VERT. LINE 8" PUMP #7717210
 POWERED BY 50 HP GE ELECTRIC MOTOR @ 1750 RPM

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

8' OF 10" ALUMINUM LINE FROM WELL TO PNDT CENTER.

C. Works used to apply water to beneficial use.

ALUMIGATOR E TOWER CENTER PNDT - MODEL Z-566
 SER # 37141404 - 1284' LONG WITH NELSON #100 LINDGON

The system is in the following condition: GOOD

The point of diversion is located N 57° E, 2700' FROM THE SW CORNER,
SECTION 31, T113N, R50W

The works are capable of diverting and conveying to the place of use 1.78 (800 GPM)
 cu. ft. per second of water which is to be used for IRRIGATION

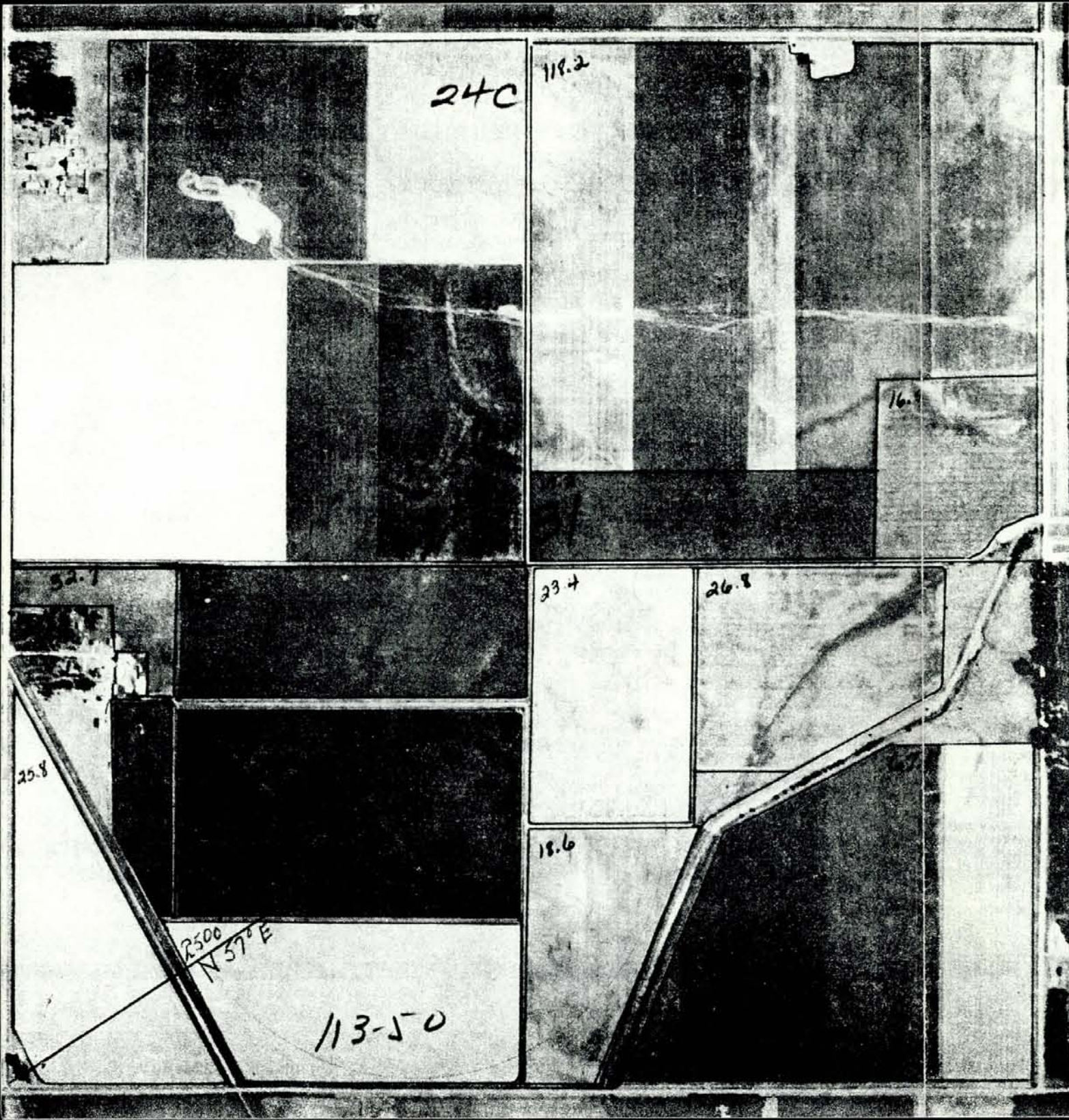
Water has been put to beneficial use to the maximum extent as follows:

FOR IRRIGATING A 132 ACRE CIRCLE IN THE E 1/4 SW 1/4 & W 1/4 SE 1/4,
SECTION 31, T113N, R50W

comprising a total of 132 acres of land.

Date AUGUST 11, 1981

Austin Jones
 (Signature)



GERALD A. KALSBECK

Irrigation Project #1
Estelline South Dakota

Area Irrigated - S² Section 31-113-50

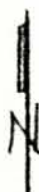
Acres Irrigated - 275

Water claimed - 3.9 cfs

Point of Diversion - 2500' N 57° E of

SW corner Sec 31-113-50

Scale - 1" = 660'



Surveyor's Certificate

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

Gerald A. Kalsbeck

Estelline

S. Dakota

Deuel County

8-9-76

Drawn by J. L.

P. E. H. 1976

John L. Wilersma

BOOKING

APR 11 1977



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

October 28, 2019

2911-3

Gerald Kalsbeck
2137 Goldenrod Trail
Brookings SD 57006

Dear Mr. Kalsbeck:

Enclosed is a "Notice" dated October 18, 2019 concerning the 2019 irrigation questionnaire.

The notice was originally mailed to 19558 466th Ave, Estelline SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures