

**Department of
Water & Natural Resources**Joe Foss Building
Pierre, South Dakota 57501Water Rights, Water Management Division
(605) 773-3352

October 10, 1979

Mr. Harvey Gapp
Box 1282
Huron, SD 57350

Dear Mr. Gapp:

Enclosed herewith is your Water Right Permit No. ~~4435-3~~ as approved by the Board of Water Management, authorizing you to construct your water diversion system and apply the water to beneficial use, not exceeding the limits as specified in said Water Right Permit No. ~~4435-3~~.

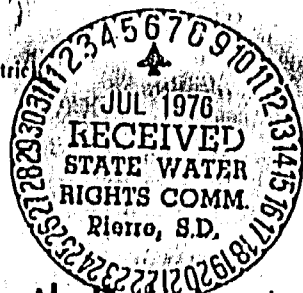
Also enclosed is FORM 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Board of Water Management when you have completed the system and/or have put the water to beneficial use. The Board can then schedule an inspection so that your Certificate of Construction and/or Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights, WMDJH: bt
enclosure

NOTE: The applicable portions of Permit No. 2831-3 have been incorporated into this Permit No. 4435-3, and Permit No. 2931-3 has been placed in a cancelled status.

Equal Opportunity Employer

No. 21331-3
 Map No. 2167.3 Water Division No. 3 JAMES 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 Darlo F. Bloodgood
 Postoffice address 1367 McDonald Drive, Huron, State South Dakota 57359
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct Labor
3. Name of diversion work Darlo F. Bloodgood Unit #3
4. Amount of water claimed (cubic feet per second) 2.2
5. Source of water supply Ground Water
6. Location of point of diversion APPROX. CENTER W 1/2, SEC. 1-T109N-R61W
- County Beadle
7. Annual period or periods during which water is to be used March - November
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 328
 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.
N.W. 1/4 of 1-109-61	164		
S.W. 1/4 of 1-109-61	164		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 2 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Daily Plainman, Huron, South Dakota
12. Principal Features of the Proposed Water Supply System.

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

Pump Bowl

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

Main Line

C. Works proposed to apply water to beneficial use.

Center Pivot

Estimated Total Cost \$ _____

 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 Beadle) ss.
 I, Darlo F. Bloodgood 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 Darlo F. BloodgoodSubscribed and sworn to before me this 12th day of July, 1976

Notary Public (or other qualified officer)

COMMISSION EXPIRES
MARCH 4, 1984.

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2831-3
DARIN F. BLOODEMAN 1367 MC DONALD DR. HURON
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57350 With the following modifications:
 (State)

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

*Cancelled 9/27/79
Incorporated into # 4435-3*
 Date of first receipt of application JULY 6 19 76
 Date of return to applicant for correction, amendments or changes required _____ 19 ____
 Date of receipt of corrected application _____ 19 ____
 Approved MARCH 28 19 79 Recorded in Book 20 Page 200

WATER RIGHT PERMIT NO. 2831-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2831-3 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 JULY 6 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 28 19 81
3. The whole of said work is to be completed on or before MARCH 28 19 84
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 28 19 86
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 2.2 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 thereof, and if for the irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 28 19 86 said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 3RD day of APRIL 19 79

WATER RIGHTS COMMISSION

By: John H. Allen
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

PAGE NO.

S.W. & N.W. 1-109-61

3/6/76

10

Lloyd Peterson

JOB NAME:

LOCATION Beadle Co. DATE

RIC NO.

FOREMAN Jr.

[illegible]

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 _____, Depth _____

(2) Casing, Type _____ Diameter _____ Thickness _____
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type _____ Diameter _____, Length _____

(4) Gravel Pack, Thickness _____ Length of gravel pack _____

E. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout. * Log will be furnished by driller

(1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

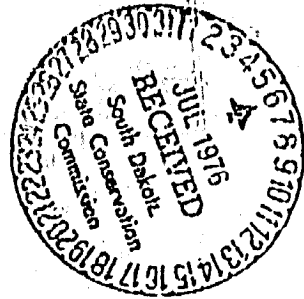
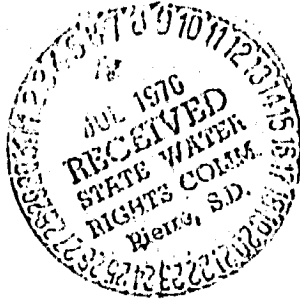
On same owner's property 800 rds. On property owned by others 240 rds.

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.

Charles B. Hodgson
Signature of Applicant

July 1, 1966



Mr. Dario F. Bloodgood
1367 McDonald Drive
Huron, SD 57350

Dear Mr. Bloodgood:

Your water sample #75-816 in the well in section 1 has been analyzed and the results are reported on the accompanying copy of analysis. You should take care to preserve this report. As you see, it is very close in quality to #715 and there is no particular difficulty with this water except for the fact that it, like the others, carries a considerable salt load, approximately 1 ton or slightly less of salts per acre foot of water.

Therefore, you should observe the same precautions in irrigating that I have pointed out with respect to the other areas and you should by all means avoid waterlogging soils that have claypan under them or that carry appreciable salts. There are spots in the Houdek-Prosper soil area which do have salts or claypan and you should be careful to either conduct the water off this land or fill the soil areas with soil dragged in from the surrounding area to prevent ponding.

If this is not done, the salinity which is naturally in these soils will very soon rise to the surface and cause severe reductions in crop yields.

A copy of this letter is accompanying the water analysis and WI-1 form and other application materials to the State Conservation Commission in Pierre for their action.

I have plotted all three of these water qualities in the chart on the outside back cover of the bulletin I am sending you and you will be able to distinguish between them by the number assigned. There is very little difference among them, however.

Sincerely yours,

L O Fine

L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures

cc: State Conservation Commission
D. Pahl
Dick Fadgen, County Extension Agent

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

Submitted by: Dr. R. L. Woodford
 Address: 1367 McDonald Drive
Huron, SD 57350

Date Rec'd: June 20, 1976
 Sample No. 76-716
 Identification 3 Well-
14, Sec. 1, T 109N, R 61

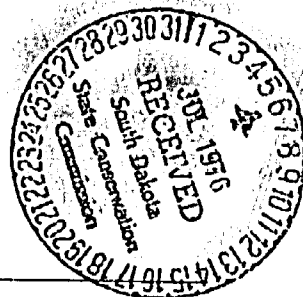
WATER ANALYSIS

Calcium (Ca)	130	ppm*	6.50	me/l**
Magnesium (Mg)	38	ppm	3.12	me/l
Sodium (Na)	36	ppm	1.57	me/l
Potassium (K)	6	ppm	0.08	me/l
Sulfate (SO ₄)	148	ppm	3.07	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	24	ppm	0.68	me/l
Bicarbonate (HCO ₃)	400	ppm	6.56	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)	328	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	947	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.72			
Sodium	13.93	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.03			
Others:				

*ppm==parts per million

**me/l==millequivalents per liter

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



COMMENTS: Total cations 11.27 me/l
 Total anions 10.31 me/l

By: Shirley M. Hien

Service Performed	Amount Due
Trig. Ion Analysis	8.00 FID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-716

Amount Enclosed \$

Signed

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 Darbo F. Bloodgood

ADDRESS 1367 McDonald Drive, Huron, South Dakota 57350

COUNTY Beadle County

LEGAL DESCRIPTION

1. WELL LOCATION Center of W. 1/2 of the N.W. & S.W. - Sec. 1-109-61
2. LOCATION OF AREA TO BE IRRIGATED N.W. & S.W. 1/2 of 1-109-61

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____
4. CROPS TO BE IRRIGATED Corn, Alfalfa, Small Grain

WATER QUALITY

5. SAMPLE NUMBER 76-716
6. SALINITY (EC X 10⁶) 947 (high)
7. SODIUM (SAR) 0.72 (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 Beadle 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.

Darbo F. Bloodgood
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
10 DAY OF March 19 84

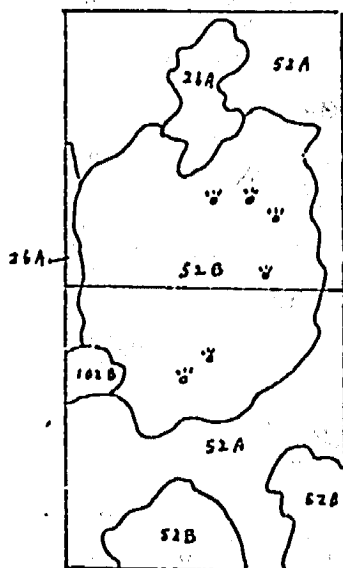
(TITLE OR SEAL)

COMMISSION EXPIRES
MARCH 4, 1984.

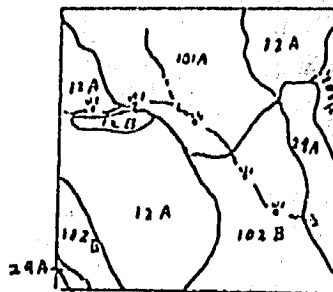
Albert J. J. (signature)
APPROVED/DISTRICT APPROVED

(SOILS INFORMATION ON REVERSE SIDE)

SOIL MAP



SW 1/4 & NW 1/4-1-109-61



NE 1/4 27-110-61

SOILS LEGEND

- 12A** Enet loam, 0 to 2 percent slopes
These are well drained soils with 20 to 40 inches of loam over sand and gravel. Permeability is moderate in the loamy upper part and rapid in the sands and gravels. Clay loam glacial till is at depths below 40 inches in some places.
- 12B** Enet loam, 2 to 6 percent slopes
This soil is described in the mapping unit 12A above. The unit differs primarily in the degree of slope.
- 26A** Dudley-Stickney silt loam, 0 to 3 percent slopes
This unit consists of moderately well drained soils with 4 to 10 inches of friable loamy surfaces over dense claypan subsoils. These soils have slow permeability and salts in the subsoil. Included within these units are small areas of enclosed depressions.
- 29A** Tetonka-Dudley silt loams, 0 to 2 percent slopes
This unit consists of poorly drained soils in enclosed depressions and in swales. Permeability is very slow and surface drainage is very slow to lacking. Dense compact subsoils limit these soils for irrigation when not drained.
- 52A** Carthage fine sandy loam, 0 to 3 percent slopes
This unit consists of moderately well drained soils on nearly level to gently undulating uplands. The soils have sandy loam surfaces and subsoils which grade to clay loam till at 20 to 40 inch depths. Permeability is moderately rapid in the sandy loam upper part and moderate in the underlying clay loam materials. Surface runoff is medium.

Darlo Bloodgood Unit

52B Carthage fine sandy loam, 3 to 6 percent slope

This unit has soils as described above in the 52A mapping unit. It differs in the degree of slope.

101A Houdek-Prosper loams, 0 to 2 percent slopes

This unit consists of deep, well and moderately well drained loamy soils with calcareous substratum. The subsoils contain 30-35% clay. Depth to the calcareous clay loam substratum ranges from 18 to 30 inches. Permeability is moderately slow. Included within these areas are small enclosed depressions and small areas of soil with claypan subsoils which contain salts. Drainage or fill of these included areas may become desirable to prevent ponding and excessive wetness.

102B Houdek-Prosper loams, 2 to 6 percent slopes

The Houdek and Prosper soils are described in the 101A mapping unit above. This unit differs primarily in the degree of slope.

Darlo Bloodgood Unit

Soil Conservation Service
Beadle County

No. 2831-3

Publish first publication, on or before

July 12, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

July 7, 1976

Notice is hereby given that Darlo F. Bloodgood

whose post office address is, Huron, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 2.2 cubic feet of water per

second of time from the ~~xxx~~ ground water through the

Bloodgood #3, the point of diversion of which is to be located in the _____

Center of the Wd

of Section 1, Twp. 109N, Range 61W. Said water to be used for the purpose of providing irrigation on the following described land:

W1/2, Section 1, T109N, R61W

This application No. 2831-3 will be considered by the Water Rights Commission at the Court House in Winner, S.D.

upon the 21st day of July, 1976 at 10:00 A. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

Jones
BFJ/bw
cc:

Darlo F. Bloodgood, 1367-McDonald Drive, Huron, S.D. 57350

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

No. 2831-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Beadle) ss.

I, Dorothy Murphy hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Huron Daily Plainsman

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the

City of Huron

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

July 12, 1976

July 19, 1976

Dorothy Murphy
(Signature)

Bookkeeper
(Title)

July 19, 1976

(Date Signed)

F.P. 7, 1274 (L.P. 7, 1274)
NOTICE OF INTENT TO
APPROPRIATE WATER
PIERRE, SOUTH DAKOTA 575
July 17, 1976
Notice is hereby given that David
P. Bloodgood, a resident of the State of
South Dakota, whose office
address is Huron, South Dakota, has
made an application in accordance
with the provisions of the Water Laws
of South Dakota for a permit to
appropriate for a beneficial use 2.2
cubic feet of water per second of
time from ground water through the
Bloodgood #10, 113, the point of
diversion of which is to be located
in the center of the W1/2 of Sec. 1, T.
2N, R. 10W, Range 31W, S. 19N, water
to be used for the purpose of
providing irrigation on the following
described land: S. 19N, Section 1,
T. 10N, R. 10W, S. 19N, water.
This application No. 2831-3 will be
considered by the Water Rights
Commission at the Court House in
Winner, S.D. upon the 21st day of
July, 1976 at 10:00 A.M. All in-
terested persons may appear and be
heard.
WATER RIGHTS COMMISSION
BY: BURTON F. JONES,
Water Rights Specialist
No. 175 (adv.)



SOUTH DAKOTA
Department of Natural Resource Development

WATER RIGHTS COMMISSION

Joe Foss Building, Pierre, South Dakota 57501
Phone 605/224-3151

November 15, 1976

Darlo F. Bloodgood
R. R.
Cavour, S. D. 57324

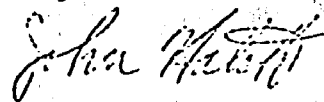
Dear Sir:

The Water Rights Commission will be meeting in Huron, November 16, 17 and 18, 1976. Wednesday afternoon, November 17, at 3:15 p.m., a discussion on Beadle County Water Supplies is scheduled. Part of the discussion will be in regard to 40 deferred Water Right applications in Beadle County. Since your application is one of those in deferred status, you may wish to attend this meeting.

We would also like to know your answer to the following two questions:

1. Would you develop your application during 1977 if approved or would you wait two or three years before development?
2. Would you be interested in a temporary trial permit with no pumping during July and August? If the results of the trial pumping were successful, the Commission maybe able to approve a permanent full-time permit after a one to two year trial period.

Very truly yours,



John Hatch, Chief Engineer
Water Right Commission

JH/kb

2830-3 (2831-3 & 2829-3)

March 4, 1977

Mr. Darlo Bloodgood
Huron, South Dakota

Dear Mr. Bloodgood:

In answer to a letter by Mr. Harvey Gapp concerning Water Right Applications Nos. 2830-3, 2831-3 and 2829-3, the applications will be advertised for the May 1977 Commission meeting. Two applications have been approved for the Floyd aquifer in which you are located. The Staff is recommending that the Commission defer any other applications in the Floyd for at least one pumping season. If at the end of the season data looks favorable the Commission may be able to approve applications according to priority.

Please contact this office if you have any questions.

Sincerely,

GALE N. SELKEN
Water Resources Engineer I

GS/bw

cc: Huron Steel Structures, Harvey Gapp, 430 Nevada SW Huron, SD

HURON DRILLING INC.
WELL LOCATION MAP

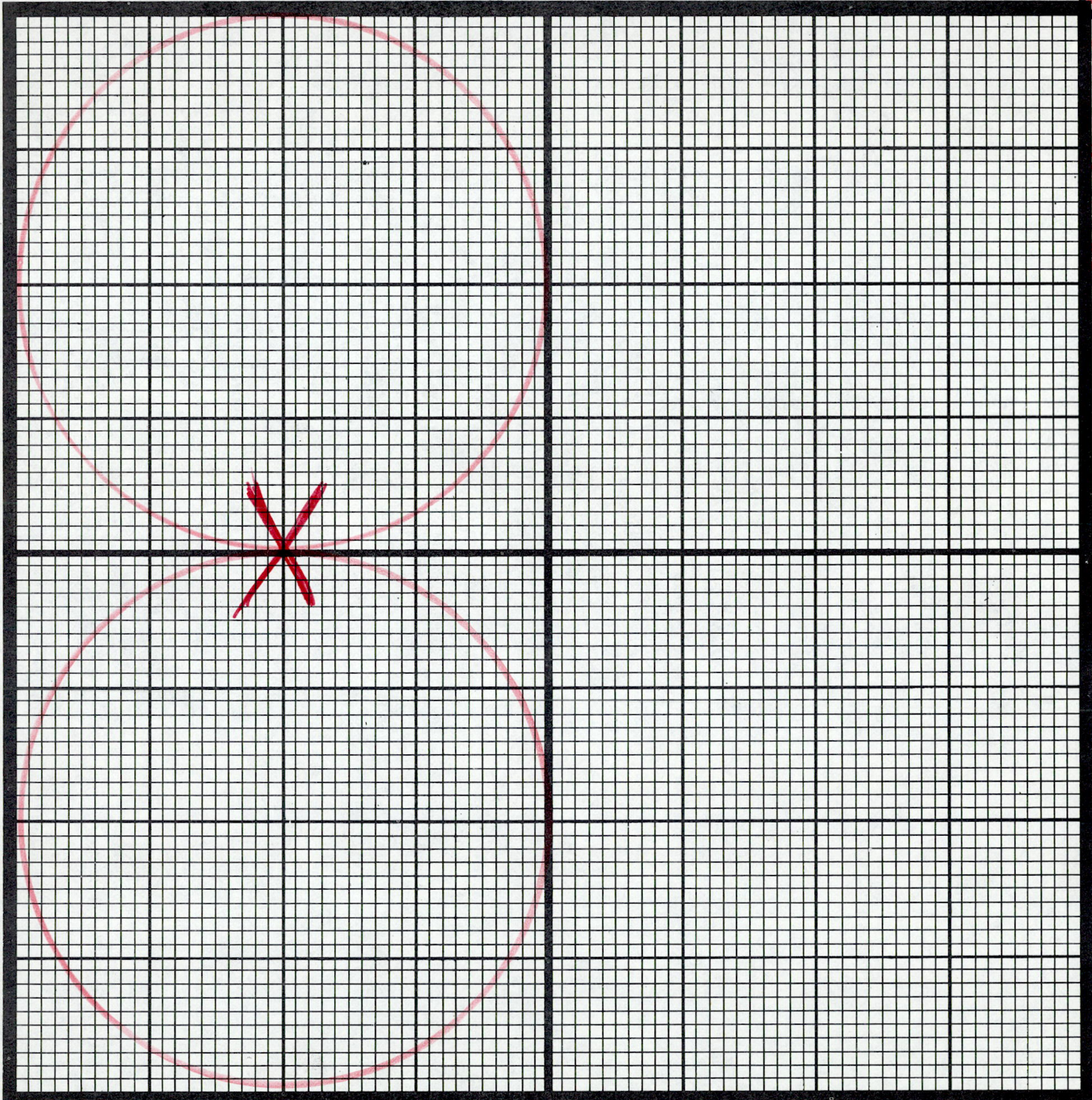
NAME Darlo F. Bloodgood

DATE March 10 19 76

WELL NO. #3

Center of N.W. & S.W. QUARTER, SECTION 1

TWP. 109 RANGE 61 IN Beadle COUNTY



X — PROPOSED LOCATION

Prepared By Dick Fadgen

Dick Fadgen
Beadle County Extension Agent

MI AP DE 2167-3 (APP) NO 2831-3