

1. Considered 3-17, 1976 2559.3
2. Name of Applicant DUANE C KANKRATZ
3. Post Office Address FREEMAN
4. Amount of water claimed 3.9
5. Source of water supply GROUND WATER (3-30' WELLS)
6. Water to be used for IRRIGATION
- Acres to be irrigated 2.77
7. Water to be diverted and used in BROOKINGS county
about JUST N miles of BRUCE
8. Proof of Publication Received 3-15-76
 Not Received
9. Application Approved
 Subject to
 Not Approved
 Action deferred
10. Remarks:

Map No. 1930-3 Water Division No. 3 BIG SIOUX RIVER District 36
(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 Duane C. Parkratz
Postoffice address Freeman State South Dakota 57029
If a corporation show date and place of incorporation N/A
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contracted Direct Labor
3. Name of diversion work Duane C. Parkratz Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 3.9
5. Source of water supply 3 wells
6. Location of point of diversion Well #1 - 1450' N 33° E at SW corner section 1-11-51
Well #2 - 2650' N 172° E at NW corner of sec 12-11-51
Well #3 - 3500' N 133° E at NW corner sec 12-11-51 County Brookings
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 277

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>See attached sheet</u>		

Attach sheet if more space is needed

10. 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.
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.
3 wells with electrically driven deep well turbines
- B. Works proposed to transport water to place of use.
closed conduit
- C. Works proposed to apply water to beneficial use.
Hose pull with big gun

Estimated Total Cost \$60,000Attachments: 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 BrookingsI, Duane Parkratz, 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 Duane ParkratzSubscribed and sworn to before me this 10 day of Feb 1976

Notary Public (or other qualified officer)

P. E. H 1976

WATER RIGHT APPLICATION APPROVAL. 2559-3

The Water Rights Commission hereby approves Water Right Application No. ~~2565-3~~DUANE C. PANKRATZ

(Applicant)

FREEMAN

(Post Office Address)

SOUTH DAKOTA 57029

(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 existing domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application FEBRUARY 12, 1976Date of return to applicant for correction, amendments or changes required ---, 19---Date of receipt of corrected application FEBRUARY 23, 1976Approved MARCH 17, 1976, Recorded in Book 14 Page 338WATER RIGHT PERMIT NO. 2559-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2559-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is FEBRUARY 12, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17, 1978
3. The whole of said work is to be completed on or before MARCH 17, 1981
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17, 1984
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.

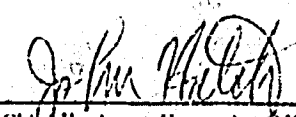
7. The amount of the appropriation herein granted shall not exceed 3.9 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation 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 MARCH 17, 1984; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 23RD day of MARCH, 1976

WATER RIGHTS COMMISSION

By:


 Chief Engineer, Executive Officer
Certificate of Construction Issued ---, 19---Water License Issued ---, 19---

BEST IMAGE POSSIBLE FROM POOR ORIGINAL

Duane Pankratz
Freeman

Land to be irrigated

Acres

NW ⁴ of SW ⁴ of sec 1 - 111-5-1	18
NE ⁴ " " " " " "	25
SW ⁴ " " " " " "	32
SE ⁴ " " " " " "	6
NW ⁴ of NW ⁴ of sec 12 - 111-5-1	40
NE ⁴ " " " " " "	15
SW ⁴ " " " " " "	37
SE ⁴ " " " " " "	17
NW ⁴ of SW ⁴ of sec 12 - 111-5-1	28
NE ⁴ " " " " " "	19
SW ⁴ " " " " " "	23
SE ⁴ " " " " " "	17

3 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 24", Depth 30'
(2) Casing, Type Steel (wood, concrete, steel, etc) Diameter 14" Thickness 3/16"
(3) Perforated Screen.
Type Continuous Slot, Diameter 14", Length 10'
(4) Gravel Pack, Thickness 5", Length of gravel pack 20'

E. Dugout Information or Estimates.

(1) Surface dimensions N.A., Depth N.A.

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'-5' overburden; 5' to 10' fine sand; 10'-30' mixed sand and gravel

Depth to top of water bearing material 5'
Depth to bottom of water bearing material 30'
Thickness of water bearing material 25'
Depth to water (ground surface to water level) 5'

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

On same owner's property _____ rds. On property owned by others _____ 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.

X Distance to water supplies

	own property	property others
well #1	80 rds	160 rds
well #2	180 rds	80 rds
well #3	180 rds	100 rds

Quone Parker
Signature of Applicant

February 13, 1976



Mr. Duane C. Pankratz
Freeman, SD 57029

Dear Mr. Pankratz:

I am enclosing herewith the original copies of the report of analysis of water samples #76-043 and 76-044 being a well 22 feet deep and the Sioux River, respectively. Both these water samples are acceptable for irrigation purposes and the choice between the two is mostly a matter of convenience, although the Sioux River is slightly lower in total salt, than the well sample, the difference is not significant.

Since I have no indication which of these two supplies you plan to develop, or whether it will be both of them, I am sending both the water analyses on to the State Conservation Commission. I see that the WI-1 form specifies that you will have a well in the southwest quarter of section 1 and that you also will perhaps have a well in the northwest quarter of section 12.

The enclosed reports are yours to keep and you should have them for possible future reference.

As indicated above, copies of the analyses and of this letter, and the WI-1 form are being sent to the State Conservation Commission.

Sincerely yours,

L. G. Fine

L. G. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Leroy Johnke, County Extension Agent

CONSERVATION
COMMISSION
W1 #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 [Signature]
DISAPPROVED _____

NAME DUKE C. PANIKRATZ
ADDRESS FREEMAN, S. D. THE ADDRESS WHERE THE WATER WILL BE USED IS BRUCE, S.D.
COUNTY HUTCHINSON IN BROOKINGS COUNTY.

LEGAL DESCRIPTION

1. WELL LOCATION CENTER OF SW 1/4 SECTION 12 - 111-51 + NW 1/4 of Sec 12 - 111-51
2. AREA TO BE IRRIGATED VARIOUS PARTS OF QUARTER - See soils map on pages 19 of 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 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794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

TYPE OF IRRIGATION

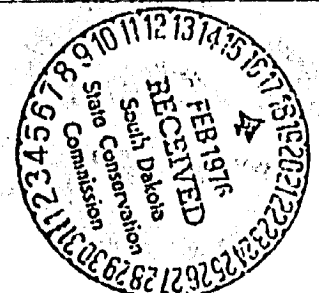
3. GRAVITY _____ SPRINKLER (INDICATE TYPE) BIG GUN
4. CROPS TO BE IRRIGATED CORN, BARLEY, SOY BEANS AND ALFALFA.

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE FLAT
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION See pages 19 of Brookings co soils map. Made of all the measures. The Salomon and law doing. In many will not be irrigated.

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NUMBER 76-043 76-044
8. SALINITY 834 μ mhos/cm 715 μ mhos/cm
9. SODIUM 0.21 0.46



TAP

AND:

Lucas P. McG

John S. Wallace

(TITLE)



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

Submitted by: Ernie C. Burkatz
 Address: Brookings, SD 57009

Date Rec'd January 26, 1976
 Sample No. 7-043
 Identification Cell 221
SWR, Sec. 1, T 111N, R 51E

WATER ANALYSIS

Calcium (Ca)	105	ppm*	5.25	me/l**
Magnesium (Mg)	44	ppm	3.61	me/l
Sodium (Na)	21	ppm	0.91	me/l
Potassium (K)	12	ppm	0.30	me/l
Sulfate (SO ₄)	162	ppm	3.37	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	2	ppm	0.07	me/l
Bicarbonate (HCO ₃)	342	ppm	5.60	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)	130	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	334	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.21			
Sodium	9.03	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.33			
Others:				

*ppm=parts per million
 **me/l=milliequivalents per liter
 ***g.p.g.=grains per gallon



COMMENTS: Total cations 10.07 me/l
 Total anions 9.04 me/l

By: Shirley Linton

Service Performed	Amount Due
Irrigation analysis	\$8.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 7-043

Amount Enclosed \$

Signed

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

Submitted by: Dwight G. Benkert
 Address: Brookings, SD 57027

Date Rec'd: January 23, 1976
 Sample No. 76-244
 Identification SLURRY RIVER
NE 1/4, Sec. 12, T 11N, R 51W

WATER ANALYSIS

Calcium (Ca)	97	ppm*	4.35	me/l**
Magnesium (Mg)	34	ppm	2.79	me/l
Sodium (Na)	21	ppm	0.90	me/l
Potassium (K)	10	ppm	0.26	me/l
Sulfate (SO ₄)	106	ppm	2.20	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	4	ppm	0.10	me/l
Bicarbonate (HCO ₃)	332	ppm	5.44	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)	272	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	715	microhmhos per cm at 25° C.		
Sodium Adsorption Ratio	0.46			
Sodium	10.22	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.33			

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 7.74 me/l

By: Shirley Mitten

Service Performed	Amount Due
Irrigation analysis	18.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-244

Amount Enclosed \$

Signed

Form 6 - Notice of Intent to Appropriate Water

No. 2559-3

Publish first publication, on or before March 4, 1976

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

February 24, 1976

Duane C. Pankratz

Notice is hereby given that _____

whose post office address is Freeman, 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 Pankratz Project #1, the point of diversion of which ^sare to be located in the _____

SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 1; SW $\frac{1}{4}$ NW $\frac{1}{4}$ and SE $\frac{1}{4}$ NW $\frac{1}{4}$

of Section 12, Twp. 111N, Range 51W. Said water to be used for the purpose

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

SW $\frac{1}{4}$, Section 1; W $\frac{1}{2}$ Section 12, T111N, R51W

This application No. 2559-3 will be considered by the Water Rights Commission at their office at Pierre upon the 17th day of March, 1976 at 1:00 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

DUANE C. PANKRATZ, Freeman, South Dakota 57029

No. 2559-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Brookings)

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 _____ of Brookings

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

March 4, 1976

March 11, 1975

J. H. K. Teller, Jr.
(Signature)

Gen. Mgr.
(Title)

11 March 1974
(Date Signed)

Legal No. 101 — March 4 & 11

NOTICE

INTENT TO APPROPRIATE WATER

Notice is hereby given that Duane C. Pankratz whose post office address is Freeman, 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 ground water through the Pankratz Project No. 1, the points of diversion of which are to be located in the SW¹/₄, SW¹/₄, Section 1; SW¹/₄ NW¹/₄ and SE¹/₄ NW¹/₄ of Section 12, Twp. 11N, Range 51W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SW $\frac{1}{4}$, Section 1; W $\frac{1}{2}$ Section 12,
T111N, R51W

This application No. 2559-3 will be considered by the Water Rights Commission at their office at Pierre upon the 17th day of March, 1976, at 1:00 P.M. All interested persons may appear and be heard.

**WATER RESOURCES
COMMISSION**
BURTON F. JONES
Water Rights Specialist



SOUTH DAKOTA
Department of
Water & Natural Resources

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

2701A-3

APR 25 1990

Duane C. Pankratz
RR #3 Box 36
Freeman, SD 57029

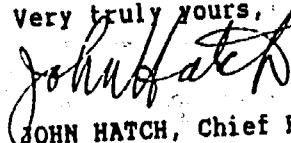
Dear Mr. Pankratz:

Enclosed is Water License No. 2701A-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 411810 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right No. 2701A-3, constructs replacement wells and does not plan to use the old wells, then the old wells will be 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 License, 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

NOTE: The applicable portions of Water Permit Nos. 2559-3, 2559A-3, 4239-3 and 2701-3 are incorporated into this Water License No. 2701A-3. Priority dates as they pertain to the land irrigated are described in (3) of this License.

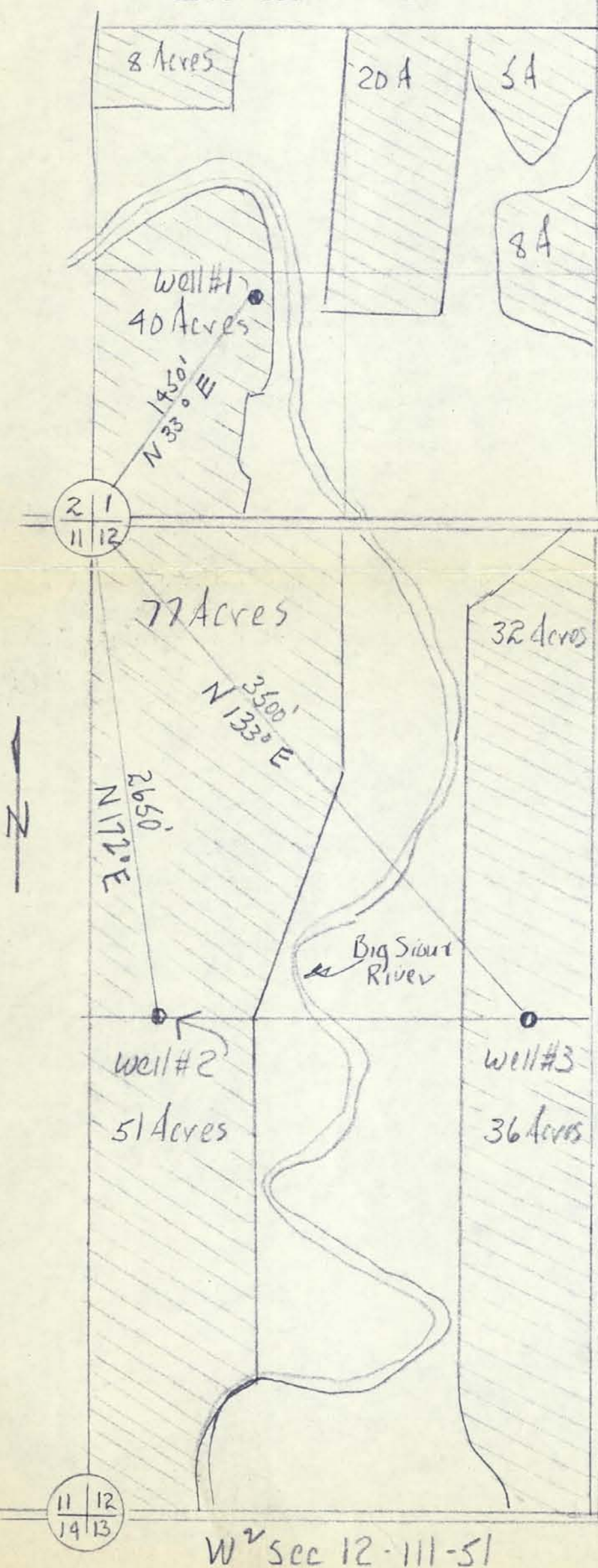
Scale 8" = 1 Mile

SW⁴ Sec 1 - 111-51

DUANE C PANKRATZ

IRRIGATION PROJECT #1
Freeman 57029 South Dakota
Land in
Brookings County

Acres Irrigated - 277
water claimed - 3.9 cfs



Points of Division: 3 wells

Well #1 - 1450' N 33° E of SW corner
Sec 1 - 111-51

Well #2 - 2650' N 172° E of NW corner
Sec 12 - 111-51

Well #3 - 3500' N 133° E of NW corner
Sec 12 - 111-51

Surveyor's Certificate

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

Duane C. Pankratz
Freeman South Dakota
2-14-76
Drawing SW
P.E. 1916
Brookings
S. Dak.



MAP NO 1930-3 APRIL NO 2559-3