

WATER PERMIT NO. 6069-3

Name of Applicant: **Ralland Janssen**

Address: **19832 465th Ave, Bruce SD 57220**

Phone: **605 8773-2669**

Amount of Water Claimed: **no additional**

Total Acres: **80 acres**

Source of Water Supply: **groundwater (existing well)**

Water to be used for: **irrigation**

County: **Brookings**

Type of Waste Disposal System: **NA**

Location: **4 miles north of Bruce**

PRIORITY Date Received: **4-2-1998**

Fee: **\$225**

Corrected Application Received: **4-13-1998**

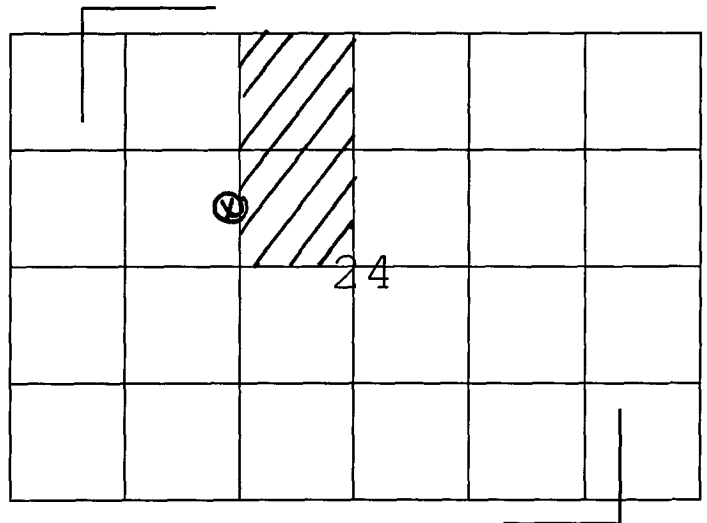
Period of Annual Use: **April 1 – September 30**

Remarks: **Going to use the well authorized by Water Right No. 2128-3**

Diversion Point: **S ½ NW ¼ Sec 24-T112N-R51W**

Land to be Irrigated: **E ½ NW ¼**

Sec 24-T112N-R51W



Depth of Well: **59 feet deep**

Well Driller: **Lacey Well Drilling**

Remarks:

Type of Map: **aerial**

Prepared by: **Paula Johnson, Brookings Co. FSA**

Reviewed and the Number Assigned on: **4-13-1998**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 6069-3

Date of first receipt of application April 2, 1998.

Date of return to applicant for corrections, amendments or changes April 6, 1998.

Date of receipt of corrected application April 13, 1998.

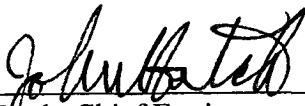
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6069-3 to Ralland Janssen, 19832 465th Ave, Bruce SD 57220 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6069-3 authorizes irrigation of 80 additional acres. Water Right No. 2128-3 appropriates 1.11 cubic feet of water per second from one existing well (Big Sioux:Brookings Aquifer) 59 feet deep located in the S $\frac{1}{2}$ NW $\frac{1}{4}$ Section 24 to irrigate 156 acres located in the W $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 24; all in T112N-R51W. This permit authorizes irrigation of 80 additional acres located in the E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 24-T112N-R51W from the existing well. This permit does not authorize any increase in the developed diversion rate.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: March 1 – October 31.
3. The date from which applicant may claim right is April 2, 1998.
4. The date of approval of Permit No. 6069-3 is June 22, 1998.
5. One-fifth of the construction is to be completed on or before December 22, 2000.
6. All construction is to be completed on or before June 22, 2003.
7. Water is to be put to beneficial use on or before June 22, 2007.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 26 1998

date



(See instructions)

No. 6069-J Hydrologic Unit 10170202
Basin Sioux River
Newspaper Register, Brookings, SD

Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

- Type of Application: ☐ New ☐ Vested Right ☒ Amend Permit No. 2128-3
- ☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
- ☒ Add Acreage ☐ Increase diversion rate ☐ Other _____
1. Name of Applicant Rolland Janssen Phone No. 605-873-2669
- Post Office Address 19832 465th Ave Bruce SD 57220 State SD Zip Code 57220
- (Street, RR or Box) (City)
2. Amount of water claimed (c.f.s.) No Additional Total acres irrigated 80 Acres
3. Source of Water supply Well
4. Location of point of diversion 300' East - 1300' S of the North West
Corner of Sec 24 T112N R51W S1/2 NW1/4
Brookings County County Brookings
5. Counties where water will be used Brookings
6. Annual period during which water is to be used Apr - Sep 7 March 1 - October 31
7. 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.
<u>N 1/2 of E 1/2 of NW 1/4 Sec 24</u>	<u>40</u>
<u>S 1/2 of E 1/2 of NW 1/4 Sec 24</u>	
<u>E 1/2 NW 1/4</u>	
<u>Sec. 24 - T112N - R51W</u>	

Land Description	No. Acres Irr.

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: Y Gun: _____ Other: _____ (Specify) _____
9. Crops to be Irrigated: Corn Beans HAY
10. Give a description of proposed project. (Attach sheet if more space is needed)

Add additional acres to existing Center Pivot
+ Well located in North 1/2 of NW 1/4 Sec 24
T-112-N - R51W

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)
County of Brookings) ss

I, Rolland Janssen, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed

Rolland Janssen

Subscribed and sworn to before me this

31st

day of

March

1998

My Commission Expires June 6, 2003

Notary Public



Supplemental Information

(type or print in ink)

NO info
Available

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

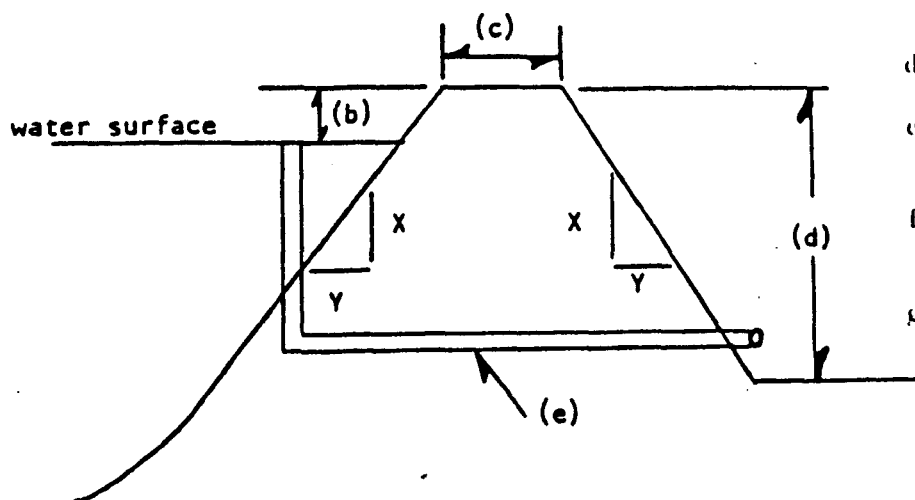
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Ralland Janssen
Signature of Applicant

File No.

Water Rights Program - File Documentation

NAME: Ralland Janssen

ADDRESS: 19832 465th Ave, Bruce SD

DATE: 4-6-1998 **COUNTY:** Brookings **TELEPHONE:** 605 873-2669

RE: Pending application

COMMENTS:

Ralland Janssen called regarding my April 6, 1998 letter. Mr. Janssen indicated he is proposing to use the same well as authorized by Water Right No. 2128-3. He will mark the well location on map and return it.



Karen Schlaak
Environmental Scientist



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

April 6, 1998

Ralland Janssen
19832 465th Ave
Bruce SD 57220

Dear Mr. Janssen:

Thank you for submitting your *Application for a Permit to Appropriate Water for Irrigation*. After reviewing the application, it was unclear as to whether you were planning to use the existing well authorized by Water Right No. 2128-3. Water Right No. 2128-3 indicates the well is located in the S $\frac{1}{2}$ NW $\frac{1}{4}$ Section 24-T112N-R51W. The application indicates the well is located in the N $\frac{1}{2}$ NW $\frac{1}{4}$ or 1300 feet east and 1300 feet south of the northwest corner of Section 24-T112N-R51W. Please mark the well location on the map with an "X" and let us know if this is the same well used to irrigate the lands authorized by Water Right No. 2128-3.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

DRILLER'S LOG OF WELL

Location of Well: SE 1/4, NW 1/4, Section 34, Township 112, Range 51
 Well to be drilled for: Audrey W. Edging
 (Name) (Address)
 Owner of land (if other than above): _____
 (Name) (Address)
 Date well drilling started 12-4 finished 12-6
 Purpose of well irrigation
 (domestic, irrigation, municipal, industrial, other)

Diameter		Describe kind of materials drilled through (add layers on back of form if necessary)	Ground Surface Elevation: _____ (If Available)
inches	Feet		
		<u>0-3' topsoil</u>	Kind and thickness of casing to be installed: <u>7/16" wall x 1 1/2" steel</u>
		<u>3-10' clay</u>	Size of casing to be installed: <u>38' 6"</u> feet of <u>14"</u> inches diameter
		<u>10-20' fine sand</u>	_____ feet of _____ inches diameter
		<u>static 20'</u>	_____ feet of _____ inches diameter
		<u>20-30' sand</u>	Type of Seal between casing sizes: <u>welded joints</u>
		<u>30-39' sand coarser but still fine</u>	Kind of perforated screen to be installed: Material <u>steel</u> (steel, wood, concrete, etc.)
		<u>39-48' coarse like small pea rock</u>	Size of Screen: Diameter <u>14"</u> inches
		<u>48-6" clay</u>	Length <u>10'</u> feet
			Size openings <u>0.80</u> inches
		Water bearing material	<u>Johnson Irrigator</u>
			Depth below ground surface to which water rises in well <u>20'</u> feet.

THIS IS TO CERTIFY THAT THE MICROPHOTOGRAPHIC IMAGE APPEARING ON THIS SLIDE OF MICROFILM IS AN ACCURATE REPRODUCTION OF THE ORIGINAL RECORD AND WAS MICROFILMED IN THE REGULAR COURSE OF BUSINESS ACCORDING TO THE PROVISIONS OF SOUTH DAKOTA COMPILATION LAW 1-27-4. IT IS FURTHER CERTIFIED THAT THE PHOTOGRAPHIC PROCESS USED FOR MICROFILMING OF THE ABOVE RECORDS WAS IN A MANNER AID ON MICROFILM WHICH MEET THE RECOMMENDED REQUIREMENTS OF THE NATIONAL BUREAU OF STANDARDS FOR PERMANENT MICROPHOTOGRAPHIC REPRODUCTIONS.

REDUCTION 25% ROLL NO. 1 DATE MICROFILMED 2-19-82 OPERATOR John H. Hays

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

415720

Pierre, April 2, 19 98

RECEIVED OF Ralland Janssen, 19832 - 465th Ave., Bruce, SD 57220

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

Fee for Application for Permit No. <u>6069-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	225	00
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. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

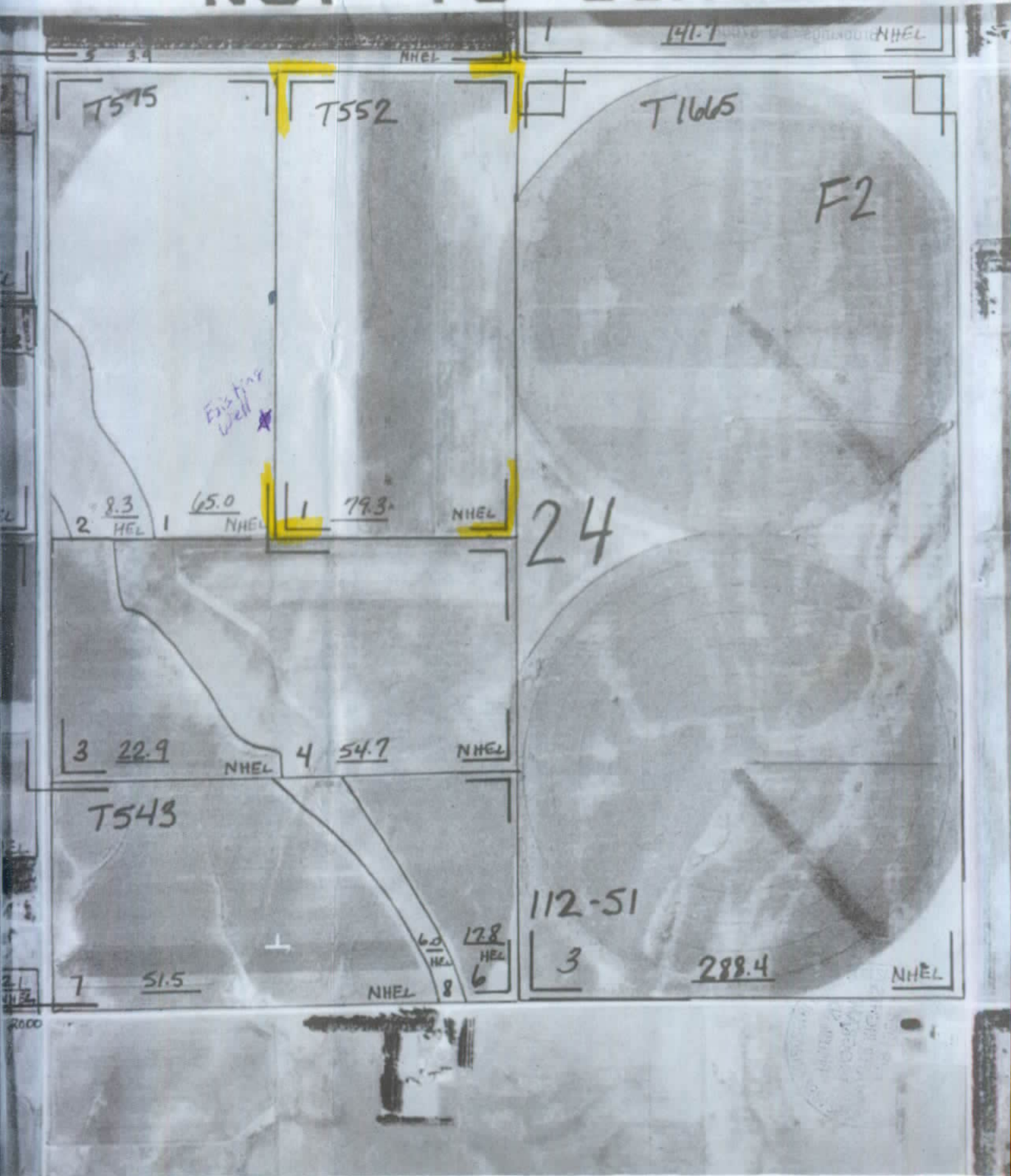
(Any Other Work Provided by Law)	Total	225 00

By _____
Chief Engineer

John Hatch

E 1/2 of the Wully Sec 24 T112N R51W

NOT TO SCALE



6069-3

CONVERSION LEGEND FOR
BROOKINGS COUNTY, SOUTH DAKOTA

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
w	w	36A	HeA	85D	BgD	54A	DaB
67B	AvB	36B	HeB	85E	BoE	54B	DaB
2	Pa	39	La	86E	BkE	62C	EtB
4	Ba	40	Ra	87C	BhC	67B	RsB
5	Hb	42	Ls	87E	BhE	68E	ShE
6	Mt	43	Ca	89E	BxE	82C	BgC
7	Mu	44	Lo	90	So	82D	BgD
8	Co	45	Lk	91	Od	82E	BoE
9	To	46	Mz	92	Mw	95	Co
10	Bf	47	Dn	93	Ct	143	Rp
11	Hc	48	Lm	94	Rp	144	Lu
12A	KrA	49	Mr	98	Or		
12B	KrB	50	Fa	99	Og		
13A	VbA	51	Ld	145	Lu		
13B	VbB	52	Lc	146	Lr		
14B	VnB	53B	DaB	210	Ar		
14C	VnC	55	Sp	220	Ch		
15A	DsA	56	Fb	225	Cm		
15B	DoB	57	Fc	230A	DcA		
16A	VaA	58	Aa	230B	DcB		
16B	VaB	60A	BeA	235	Dm		
17	SvA	60B	BeB	240B	EaB		
21A	SrA	61A	EsA	245A	EnA		
21B	SrB	61B	EsB	250C	EwC		
22B	StB	62B	EtB	255D	EvD		
23A	EgA	65A	FdA	260	Le		
23B	EgB	65B	FrB	265	Tr		
24A	MeA	66A	Rw	266	Wa		
24B	MaB	66B	RsB	270B	EeB		
24C	MaC	66C	Rsc	275A	WeA		
25A	SwA	66D	ShD	280	Wo		
25B	LnB	66E	ShE	3	Mw		
29	Gs	76A	ScA	6+	Hc		
30	Wb	76B	ScB	17A	SvA		
31A	PwA	77B	SbB	28	Wb		
31B	PwB	77C	BsC	28	Gs		
32B	PbB	81A	BbA	37C	PbC		
32C	PbC	81B	BbB	39	Lc		
32D	BpD	85B	BcB	41	Lu		
33E	BrD	85C	BgC	53A	DaB		



TABLE 1 - SOIL INTERPRETIVE GROUPS

BROOKINGS COUNTY, SOUTH DAKOTA

Progressive Survey

Sec. II-A

USDA:SCS

Map	Symbol	Map Unit Name	SSid	Slope	tg	Cap. Class	Range Site	Past. Group	Wbrk. Group	WEG(I)	K	T	Hyd. Group
2		Parnell silty clay loam, undrained	MN0035	0-1	e	Vw-2	SM	B2	10	7(38)	0.37	5	D
		drained	MN0035	0-1	e	IIIw-1	SM	A	2	7(38)	0.37	5	C
4		Badger silty clay loam	SD0475	0-2	e	IIw-1	LOv	A	1	7(38)	0.37	5	C
5		Hamerly-Badger complex		0-2									
		Hamerly loam	ND0033	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.24	5	C
		Badger silty clay loam	SD0475	0-2	e	IIw-1	LOv	A	1	7(38)	0.37	5	C
6		McIntosh-Badger silty clay loams		0-2									
		McIntosh	MN0074	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.28	5	C
		Badger	SD0475	0-2	e	IIw-1	LOv	A	1	7(38)	0.37	5	C
7		McIntosh-Lamoure silty clay loams		0-2									
		McIntosh	MN0074	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.28	5	C
		Lamoure, undrained	SD0176	0-1	e	IVw-3	Sb	B1	2K	4L(86)	0.28	5	C
		drained	SD0176	0-1	e	IIw-3	Sb	A	2K	4L(86)	0.28	5	C
8		Cubden-Badger silty clay loams		0-2									
		Cubden	SD0497	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.28	5	C
		Badger	SD0475	0-2	e	IIw-1	LOv	A	1	7(38)	0.37	5	C
9		Tonka silty clay loam, undrained	ND0229	0-1	e	IVw-4	WM	B2	10	7(38)	0.37	5	D
		drained	ND0229	0-1	e	IIw-4	WM	A	2	7(38)	0.37	5	C
10		Brookings silty clay loam	SD0160	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
11		Hamerly-Cavour-Badger complex		0-2									
		Hamerly loam	ND0033	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.24	5	C
		Cavour clay loam	SD0150	0-1	e	IVs-3	Cp	C	9W	6(48)	0.32	3	D
		Badger silty clay loam	SD0475	0-2	e	IIw-1	LOv	A	1	7(38)	0.37	5	C
12A		Kranzburg-Brookings silty clay loams		0-2									
		Kranzburg	SD0161	0-2	e	I-2	Si	F	3	7(38)	0.28	5	B
		Brookings	SD0160	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
12B		Kranzburg-Brookings silty clay loams		1-6									
		Kranzburg	SD0161	2-6	e	IIe-3	Si	F	3	7(38)	0.28	5	B
		Brookings	SD0160	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
13A		Vienna-Brookings complex		0-2									
		Vienna silt loam	SD0231	0-2	e	I-2	Si	F	3	6(48)	0.28	5	B
		Brookings silty clay loam	SD0160	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
13B		Vienna-Brookings complex		1-6									

SOUTH DAKOTA TECHNICAL GUIDE

EASTERN

LRA 102A

Rev. 09-Feb-95



TABLE 1 - SOIL INTERPRETIVE GROUPS
BROOKINGS COUNTY, SOUTH DAKOTA
Progressive Survey

Sec. II-A

USDA:SCS

Map				Cap.	Range	Past.	Wbrk.					Hyd.
Symbol	Map Unit Name	S5id	Slope	tg	Class	Site	Group	Group	WEG(I)	K	T	Group
	Vienna silt loam	SD0231	2-6	e	IIe-2	Si	F	3	6(48)	0.28	5	B
	Brookings silty clay loam	SD0160	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
14B	Vienna-Buse complex		2-6									
	Vienna silt loam	SD0231	2-6	e	IIe-2	Si	F	3	6(48)	0.28	5	B
	Buse loam	MN0317	3-6	e	IIIe-6	TU	G	8	4L(86)	0.28	5	B
14C	Vienna-Buse complex		6-9									
	Vienna silt loam	SD0231	6-9	e	IIIe-1	Si	F	3	6(48)	0.28	5	B
	Buse loam	MN0317	6-9	e	IVe-2	TU	G	8	4L(86)	0.28	5	B
15A	Doland-Svea loams		0-2									
	Doland	MN0096	0-2	e	I-2	Si	F	3	6(48)	0.24	5	B
	Svea	ND0189	0-2	e	I-3	LOv	K	1	6(48)	0.24	5	B
15B	Doland loam	MN0096	2-6	e	IIe-2	Si	F	3	6(48)	0.24	5	B
16A	Venagro-Svea loams		0-2									
	Venagro	SD0557	0-2	e	I-2	Si	F	3	6(48)	0.24	5	B
	Svea	ND0189	0-2	e	I-3	LOv	K	1	6(48)	0.24	5	B
16B	Venagro-Svea loams		1-6									
	Venagro	SD0557	2-6	e	IIe-2	Si	F	3	6(48)	0.24	5	B
	Svea	ND0189	1-3	e	I-3	LOv	K	1	6(48)	0.24	5	B
17	Svea loam	ND0189	0-2	e	I-3	LOv	K	1	6(48)	0.24	5	B
21A	Strayhoss loam	SD0509	0-2	e	IIs-3	Si	F	3	6(48)	0.24	5	B
21B	Strayhoss loam	SD0509	2-6	e	IIe-2	Si	F	3	6(48)	0.24	5	B
22B	Strayhoss-Maddock complex		2-6									
	Strayhoss loam	SD0509	2-6	e	IIe-2	Si	F	3	6(48)	0.24	5	B
	Maddock sandy loam	ND0192	2-6	e	IIIe-7	Sy	H	5	3(86)	0.20	5	A
23A	Egeland-Embden complex		0-2									
	Egeland sandy loam	SD0140	0-2	e	IIIs-1	Sy	H	5	3(86)	0.20	5	B
	Embden fine sandy loam	ND0218	0-2	e	IIs-5	Sy	H	1	3(86)	0.20	5	B
23B	Egeland-Embden complex		2-6									
	Egeland sandy loam	SD0140	2-6	e	IIIe-7	Sy	H	5	3(86)	0.20	5	B
	Embden fine sandy loam	ND0218	2-4	e	IIIe-7	Sy	H	1	3(86)	0.20	5	B
24A	Maddock-Embden complex		0-2									
	Maddock sandy loam	ND0192	0-2	e	IIIs-1	Sy	H	5	3(86)	0.20	5	A
	Embden fine sandy loam	ND0218	0-2	e	IIs-5	Sy	H	1	3(86)	0.20	5	B

SOUTH DAKOTA TECHNICAL GUIDE

EASTERN

LRA 102A

Rev.09-Feb-95

TABLE 1 - SOIL INTERPRETIVE GROUPS

BROOKINGS COUNTY, SOUTH DAKOTA

Progressive Survey

Sec. II-A

USDA:SCS

Map				Cap.	Range	Past.	Wbrk.					Hyd.
Symbol	Map Unit Name	SSid	Slope	tg	Class	Site	Group	Group	WEG(I)	K	T	Group
24B	Maddock-Egeland sandy loams		2-6									
	Maddock	ND0192	2-6	e	IIIE-7 Sy	H	5	3(86)	0.20	5	A	
	Egeland	SD0140	2-6	e	IIIE-7 Sy	H	5	3(86)	0.20	5	B	
24C	Maddock-Egeland sandy loams		6-9									
	Maddock	ND0192	6-9	e	IVe-3 Sy	H	5	3(86)	0.20	5	A	
	Egeland	SD0140	6-9	e	IVe-3 Sy	H	5	3(86)	0.20	5	B	
25A	Swenoda-Lanona sandy loams		0-2									
	Swenoda	SD0143	0-2	e	IIs-5 Sy	H	1	3(86)	0.20	5	B	
	Lanona	ND0349	0-2	e	IIIE-7 Sy	H	5	3(86)	0.20	5	B	
25B	Lanona-Swenoda sandy loams		2-6									
	Lanona	ND0349	2-6	e	IIIE-7 Sy	H	5	3(86)	0.20	5	B	
	Swenoda	SD0143	2-4	e	IIe-1 Sy	H	1	3(86)	0.20	5	B	
29	Goldsmith silty clay loam	SD0556	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
30	Waubay silty clay loam	SD0259	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
31A	Poinsett-Waubay silty clay loams		0-2									
	Poinsett	SD0180	0-2	e	I-2	Si	F	3	7(38)	0.28	5	B
	Waubay	SD0259	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
31B	Poinsett-Waubay silty clay loams		1-6									
	Poinsett	SD0180	2-6	e	IIe-3 Si	F	3	7(38)	0.28	5	B	
	Waubay	SD0259	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
32B	Poinsett-Buse-Waubay complex		1-6									
	Poinsett silty clay loam	SD0180	2-6	e	IIe-3 Si	F	3	7(38)	0.28	5	B	
	Buse loam	MN0317	3-6	e	IIIE-6 TU	G	8	4L(86)	0.28	5	B	
	Waubay silty clay loam	SD0259	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
32C	Poinsett-Buse-Waubay complex		2-9									
	Poinsett silty clay loam	SD0180	6-9	e	IIIE-2 Si	F	3	7(38)	0.28	5	B	
	Buse loam	MN0317	6-9	e	IVe-2 TU	G	8	4L(86)	0.28	5	B	
	Waubay silty clay loam	SD0201	2-6	e	IIe-1 Si	K	1	7(38)	0.28	5	B	
32D	Buse-Poinsett complex		9-15									
	Buse loam	MN0317	9-15	e	VIe-3 TU	G	8	4L(86)	0.28	5	B	
	Poinsett silty clay loam	SD0180	9-15	e	IVe-1 Si	F	3	7(38)	0.28	5	B	
33E	Buse, very stony-Poinsett complex 1/		9-25									
	Buse loam	MN0310	9-25	e	VIIIs-1 TU	NS	10	8(0)	0.20	5	B	

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		Poinsett silty clay loam	SD0180	9-15	e	IVe-1 Si	F	3	7(38)	0.28	5	B	
36A		Hetland silty clay loam	SD0496	0-2	e	I-2 Si	F	4	4(86)	0.37	5	C	
36B		Hetland silty clay loam	SD0496	2-6	e	IIe-3 Si	F	4	4(86)	0.37	5	C	
39		La Prairie loam, occasionally flooded	ND0109	0-2	e	I-1 LOv	K	1	6(48)	0.24	5	B	
40		Rauville silty clay loam	SD0177	0-1	e	Vw-1 WL	NS	10	4L(86)	0.28	5	D	
42		Ludden silty clay, undrained	ND0032	0-1	e	IVw-2 WL	B1	10	4(86)	0.28	5	D	
		drained	ND0032	0-1	e	IIw-1 WL	B1	2	4(86)	0.28	5	C	
43		Castlewood silty clay, undrained	SD0478	0-1	e	IVw-2 WL	B1	10	4(86)	0.28	5	D	
		drained	SD0478	0-1	e	IIw-1 WL	A	2	4(86)	0.28	5	C	
44		Lowe loam, undrained	SD0455	0-1	e	IVw-3 Sb	A	10	4L(86)	0.24	5	D	
		drained	SD0455	0-1	e	IIw-3 Sb	A	2K	4L(86)	0.24	5	B	
45		Lamoure silty clay loam	SD0354	0-1	e	IIIw-2 Sb	A	2K	4L(86)	0.28	5	C	
46		Moritz-Lamoure complex		0-2									
		Moritz loam	SD0454	0-2	e	IIw-2 LSb	K	1K	4L(86)	0.28	5	B	
		Lamoure silty clay loam, undrained	SD0176	0-1	e	IVw-3 Sb	B1	2K	4L(86)	0.28	5	C	
		drained	SD0176	0-1	e	IIw-3 Sb	A	2K	4L(86)	0.28	5	C	
47		Divide loam	ND0429	0-2	e	IIIs-4 LSb	D1	1K	4L(86)	0.28	4	B	
48		Lamoure-Rauville silty clay loams, channeled		0-1									
		Lamoure	SD0176	0-1	e	VIw-1 Sb	NS	2K	4L(86)	0.28	5	C	
		Rauville	SD0177	0-1	e	Vw-1 WL	NS	10	4L(86)	0.28	5	D	
49		Marysland loam	MN0588	0-1	e	IVw-3 Sb	B1	2K	4L(86)	0.28	4	B	
50		Fairdale loam, channeled	ND0014	0-2	e	VIw-1 LOv	NS	1K	4L(86)	0.24	5	B	
51		LaDelle silt loam	SD0145	0-2	e	I-1 LOv	K	1	6(48)	0.28	5	B	
52		La Prairie loam, rarely flooded	ND0184	0-2	e	I-1 Si	K	1	6(48)	0.24	5	B	
53B		Darnen loam	MN0067	2-6	e	IIe-1 Si	F	1	6(48)	0.24	5	B	
55		Spottswood clay loam	SD0567	0-2	e	IIs-3 LOv	K	1	6(48)	0.24	4	B	
56		Fordtown loam	SD0526	0-2	e	IIs-3 Si	D1	6G	6(48)	0.24	4	B	
57		Fordtown-Spottswood complex		0-2									
		Fordtown loam	SD0526	0-2	e	IIs-3 Si	D1	6G	6(48)	0.24	4	B	
		Spottswood clay loam	SD0567	0-2	e	IIs-3 LOv	K	1	6(48)	0.24	4	B	
58		Allivar sandy loam	SD0585	0-2	e	IIIs-3 SwG	D2	6G	3(86)	0.20	3	B	
60A		Brandt silty clay loam	SD0450	0-2	e	I-2 Si	F	3	7(38)	0.28	5	B	
60B		Brandt silty clay loam	SD0450	2-6	e	IIe-3 Si	F	3	7(38)	0.28	5	B	

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Symbol	Map Unit Name	SSid	Slope	tg	Class	Site	Group	Group	WEG(I)	K	T	Group
61A	Estelline silt loam	SD0206	0-2	e	IIs-3	Si	D1	6G	6(48)	0.32	4	B
61B	Estelline silt loam	SD0206	2-6	e	IIE-5	Si	D1	6G	6(48)	0.32	4	B
62B	Estelline-Sioux complex		2-6									
	Estelline silt loam	SD0206	2-6	e	IIE-5	Si	D1	6G	6(48)	0.32	4	B
	Sioux gravelly loam	SD0052	2-6	e	Vis-3	VSw	NS	10	8(0)	0.20	2	A
65A	Fordville loam	SD0178	0-2	e	IIs-3	Si	D1	6G	6(48)	0.24	4	B
65B	Fordville-Renshaw loams		2-6									
	Fordville	SD0178	2-6	e	IIE-5	Si	D1	6G	6(48)	0.24	4	B
	Renshaw	SD0142	2-6	e	IVs-2	SwG	D2	6G	6(48)	0.28	3	B
66A	Renwash loam	SD0525	0-2	e	IIIs-3	SwG	D2	6G	6(48)	0.28	3	B
66B	Renshaw-Sioux complex		2-6									
	Renshaw loam	SD0142	2-6	e	IVs-2	SwG	D2	6G	6(48)	0.28	3	B
	Sioux gravelly loam	SD0052	2-6	e	Vis-3	VSw	NS	10	8(0)	0.20	2	A
66C	Renshaw-Sioux complex		6-9									
	Renshaw loam	SD0142	6-9	e	IVe-4	SwG	D2	6G	6(48)	0.28	3	B
	Sioux gravelly loam	SD0052	6-9	e	Vis-3	VSw	NS	10	8(0)	0.20	2	A
66D	Sioux-Renshaw complex		9-15									
	Sioux gravelly loam	SD0052	9-15	e	Vis-3	VSw	NS	10	8(0)	0.20	2	A
	Renshaw loam	SD0142	9-15	e	VIe-6	SwG	D2	6G	6(48)	0.28	3	B
66E	Sioux-Renshaw complex		15-40									
	Sioux gravelly loam	SD0052	15-40	e	VIIIs-2	VSw	NS	10	8(0)	0.20	2	A
	Renshaw loam	SD0142	15-25	e	VIe-6	SwG	D2	6G	6(48)	0.28	3	B
67B	Arvilla sandy loam	ND0007	2-6	e	IVs-2	SwG	D2	6G	3(86)	0.20	3	B
76A	Singsaas-Waubay silty clay loams		0-2									
	Singsaas	SD0212	0-2	e	I-2	Si	F	3	7(38)	0.28	5	B
	Waubay	SD0259	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
76B	Singsaas-Waubay silty clay loams		1-6									
	Singsaas	SD0212	2-6	e	IIE-2	Si	F	3	7(38)	0.28	5	B
	Waubay	SD0259	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
77B	Singsaas-Buse complex		2-6									
	Singsaas silty clay loam	SD0212	2-6	e	IIE-2	Si	F	3	7(38)	0.28	5	B
	Buse loam	MN0317	3-6	e	IIIe-6	TU	G	8	4L(86)	0.28	5	B
77C	Buse-Singsaas complex		6-9									

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	Buse loam	MN0317	6-9	e	IVe-2	TU	G	8	4L(86)	0.28	5	B
	Singsaas silty clay loam	SD0212	6-9	e	IIIe-1	Si	F	3	7(38)	0.28	5	B
81A	Barnes clay loam	ND0119	0-2	e	I-2	Si	F	3	6(48)	0.28	5	B
81B	Barnes clay loam	ND0119	2-6	e	IIe-2	Si	F	3	6(48)	0.28	5	B
85B	Barnes-Buse loams		2-6									
	Barnes	ND0119	2-6	e	IIe-2	Si	F	3	6(48)	0.28	5	B
	Buse	MN0317	3-6	e	IIIe-6	TU	G	8	4L(86)	0.28	5	B
85C	Buse-Barnes loams		6-9									
	Buse	MN0317	6-9	e	IVe-2	TU	G	8	4L(86)	0.28	5	B
	Barnes	ND0119	6-9	e	IIIe-1	Si	F	3	6(48)	0.28	5	B
85D	Buse-Barnes loams		9-20									
	Buse	MN0317	9-20	e	VIe-3	TU	G	8	4L(86)	0.28	5	B
	Barnes	ND0119	9-20	e	IVe-1	Si	F	3	6(48)	0.28	5	B
85E	Buse-Langhei complex		15-40									
	Buse loam	MN0317	15-40	e	VIIe-1	TU	NS	10	4L(86)	0.28	5	B
	Langhei clay loam	MN0476	15-40	e	VIIe-1	TU	NS	10	4L(86)	0.28	5	B
86E	Buse-Lamoure, channeled, complex		0-40									
	Buse loam	MN0317	15-40	e	VIIe-1	TU	NS	10	4L(86)	0.28	5	B
	Lamoure silty clay loam	SD0176	0-1	e	VIw-1	Sb	NS	2K	4L(86)	0.28	5	C
87C	Buse-Barnes loams, very stony 2/		2-9									
	Buse	MN0310	3-9	e	VIIIs-1	TU	NS	10	8(0)	0.20	5	B
	Barnes	ND0120	2-9	e	VIIIs-1	Si	NS	10	8(0)	0.20	5	B
87E	Buse-Barnes loams, very stony 3/		9-40									
	Buse	MN0310	9-40	e	VIIIs-1	TU	NS	10	8(0)	0.20	5	B
	Barnes	ND0120	9-25	e	VIIIs-1	Si	NS	10	8(0)	0.20	5	B
89E	Buse-Sioux complex		9-40									
	Buse loam	MN0317	9-40	e	VIIe-1	TU	NS	10	4L(86)	0.28	5	B
	Sioux gravelly loam	SD0052	9-40	e	VIIIs-2	VSw	NS	10	8(0)	0.20	2	A
90	Southam silty clay loam	ND0248	0-1	e	VIIIw-1	(NA)	NS	10	4L(86)	0.37	5	D
91	Oldham silty clay loam, undrained	SD0563	0-1	e	Vw-2	WL	B2	10	4(86)	0.37	5	D
	drained	SD0563	0-1	e	IIIw-1	WL	A	2K	4(86)	0.37	5	C
92	Minnewaukan loamy sand	ND0144	0-2	e	IVw-1	Sb	A	2	2(134)	0.17	5	A/D
93	Cubden-Tonka silty clay loams		0-2									

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Symbol	Map Unit Name	Ssid	Slope	tg	Class	Site	Group	Group	WEG(I)	K	T	Group
	Cubden	SD0497	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.28	5	C
	Tonka, undrained	ND0229	0-1	e	IVw-4	WM	B2	10	7(38)	0.37	5	D
	drained	ND0229	0-1	e	IIw-4	WM	A	2	7(38)	0.37	5	C
94	Rauville silty clay loam, ponded	SD0588	0-1	e	Vw-1	(NA)	NS	10	4L(86)	0.28	5	D
98	Orthents, loamy 5/	SD3004	0-9	e	IVe-2	TU	G	8	4L(86)	0.28	5	B
99	Orthents, gravelly 4/	SD3003	0-40	e	VIIIs-1VSw		NS	10	5(56)	0.20	3	A
145	Ludden, saline-Ludden silty clays		0-1									
	Ludden, saline	ND0301	0-1	e	IVw-4	SL	J	10	4(86)	0.28	5	D
	Ludden	ND0032	0-1	e	IVw-2	WL	B1	10	4(86)	0.28	5	D
146	Lowe-Ludden complex		0-1									
	Lowe loam	SD0455	0-1	e	IIIw-3	Sb	A	2K	4L(86)	0.28	5	B
	Ludden silty clay	ND0032	0-1	e	IVw-2	WL	B1	10	4(86)	0.28	5	D
210	Arlo loam	SD0349	0-1	e	IIIw-3	Sb	A	2K	4L(86)	0.28	4	B
220	Chaska loam, channeled	MN0065	0-2	e	VIw-1	Sb	NS	1K	4L(86)	0.28	5	D
225	Clamo silty clay, undrained	SD0542	0-1	e	IVw-2	COv	B1	10	4(86)	0.28	5	D
	drained	SD0542	0-1	e	IIw-2	COv	A	2	4(86)	0.28	5	C
230A	Davis loam	SD0274	0-2	e	I-1	LOv	K	1	6(48)	0.24	5	B
230B	Davis loam	SD0041	2-6	e	IIe-1	Si	F	3	6(48)	0.24	5	B
235	Dimo clay loam	SD0031	0-2	e	IIs-3	LOv	K	1	6(48)	0.24	4	B
240B	Egan-Ethan complex		2-6									
	Egan silty clay loam	SD0025	2-6	e	IIe-3	Si	F	3	7(38)	0.28	5	B
	Ethan loam	SD0040	2-6	e	IIIe-6	TU	G	8	4L(86)	0.28	5	B
245A	Enet loam	SD0545	0-2	e	IIs-3	Si	D1	6G	6(48)	0.24	4	B
250C	Ethan-Egan complex		6-9									
	Ethan loam	SD0040	6-9	e	IVe-2	TU	G	8	4L(86)	0.28	5	B
	Egan silty clay loam	SD0025	6-9	e	IIIe-2	Si	F	3	7(38)	0.28	5	B
255D	Ethan-Clarno loams		9-15									
	Ethan	SD0040	9-15	e	VIe-3	TU	G	8	4L(86)	0.28	5	B
	Clarno	SD0021	9-15	e	IVe-1	Si	F	3	6(48)	0.24	5	B
260	Lamo silty clay loam	NE0051	0-1	e	IIw-3	Sb	A	2K	4L(86)	0.32	5	C
265	Trent silty clay loam	SD0100	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
266	Wakonda-Chancellor silty clay loams		0-2									
	Wakonda	SD0065	0-2	e	IIs-4	LSb	F	1K	4L(86)	0.28	5	B

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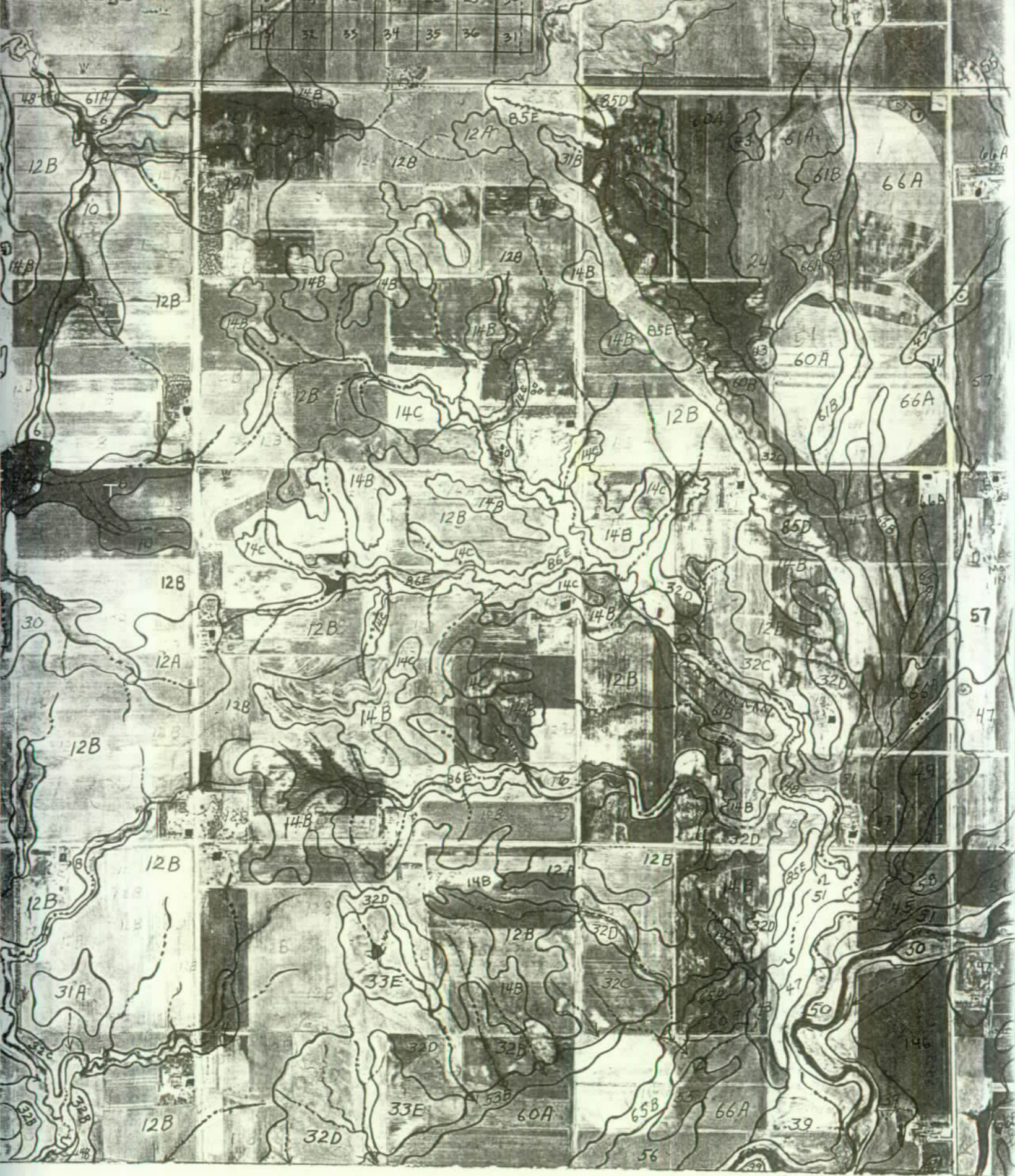
USDA:SCS

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270B	Chancellor Egan-Wentworth-Trent silty clay loams	SD0064	0-1 1-6	e	IIw-1	LOv	A	1	7(38)	0.28	5	C
	Egan	SD0025	2-6	e	IIe-3	Si	F	3	7(38)	0.28	5	B
	Wentworth	SD0047	2-6	e	IIe-3	Si	F	3	7(38)	0.28	5	B
	Trent	SD0100	1-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
275A	Wentworth-Trent silty clay loams		0-2									
	Wentworth	SD0047	0-2	e	I-2	Si	F	3	7(38)	0.28	5	B
	Trent	SD0100	0-2	e	I-3	LOv	K	1	7(38)	0.28	5	B
280	Worthing silty clay loam, undrained	SD0046	0-1	e	Vw-2	SM	B2	10	4(86)	0.37	5	D
	drained	SD0046	0-1	e	IIIw-1	SM	A	2	4(86)	0.37	5	D
w	Water			e	VIIIw-1 (NA)		NS	10				

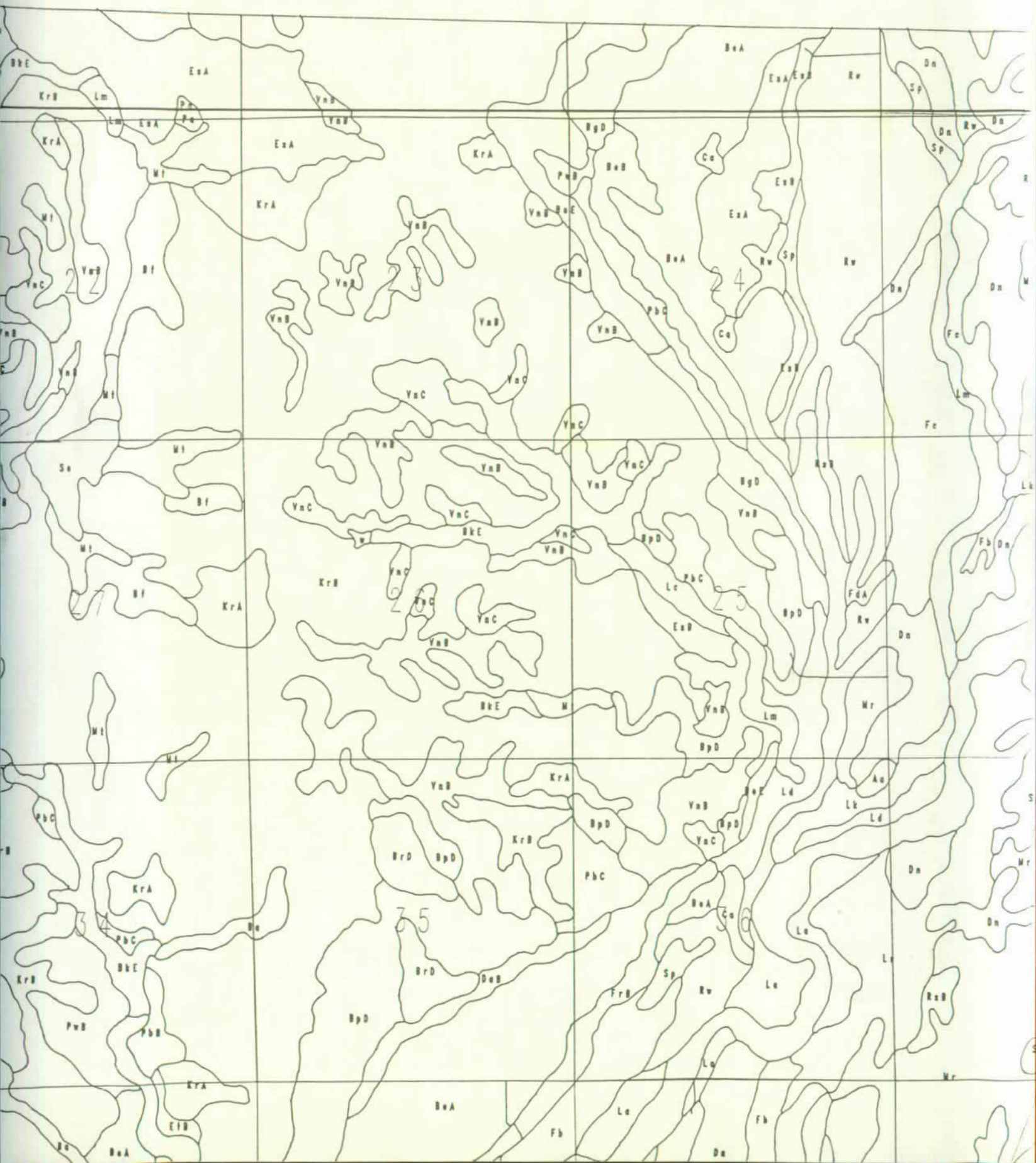
(NA) - Not Assigned

- 1/ If stones picked, use interpretations from 32D.
- 2/ If stones picked, use interpretations from 85C.
- 3/ If stones picked, Buse: LCC=VIIe-1; WEG=4L(86); K=.28; Barnes: LCC=VIe-1; WEG=6(48); K=.28
- 4/ Interpretations may vary due to thickness of topsoil replaced, slope, soil texture and water table depth.
- 5/ These areas have been excavated for fill material and topsoil generally replaced. Interpretations may vary.



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REPORT ON WATER PERMIT NO. 6069-3

for Ralland Janssen

May 19, 1998

Application No. 6069-3 proposes to irrigate an additional 80 acres. Water Right No. 2128-3 appropriates 1.11 cfs (500 gpm) from one well approximately 59 feet deep located in the S 1/2 NW 1/4 of Section 24 to irrigate 156 acres located in the W 1/2 NW 1/4, N 1/2 SW 1/4 of Section 24; all in T112N-R51W in Brookings County. This application is to irrigate 80 additional acres located in the E 1/2 NW 1/4 of Section 24, T112N-R51W from the existing well. This application does not authorize any increase in the developed diversion rate.

AQUIFER - BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a surficial outwash (sand and gravel) which is under water table conditions in this area. The Big Sioux Brookings aquifer underlies 74,500 acres and contains an estimated 245,850 acre feet of recoverable water in storage in Brookings County (Hedges, 1982). The Big Sioux aquifer underlies 540 square miles and contains an estimated 2.0 million acre feet of water in storage in Brookings and Kingsbury Counties with most of the water in Brookings County (Hamilton, 1989). The Big Sioux Brookings is a portion of the Big Sioux aquifer which has been delineated out based upon hydrologic reasons for management purposes. Groundwater movement is from north to south and toward the Big Sioux River in this area. The aquifer extends into Hamlin County to the north, into Moody County to the south and is hydraulically connected to the Big Sioux River which behaves as a recharge/discharge boundary.

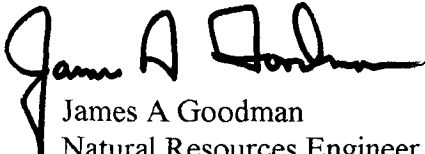
The Water Rights Program monitors seven observation wells in a one mile radius of this application. One of these observation wells, BG-75J, is located about one-half mile northeast of the well for this application. Water levels for this well show good correlation with climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. A hydrograph for this well is included with this report. In general, the hydrograph indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1998).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are two existing irrigation water rights and two rural water system wells within the same section as this application. The wells for the irrigation rights are both about one-half mile east of the well for this application and one of the rural water system wells is located about one-half mile northeast of the well for this application. Interference is not a concern. These wells have been in existence for many years with no apparent problems. Drawdown will be created by pumping but at the distance between wells that drawdown should not be significant and not cause adverse interference.

CONCLUSIONS

1. Water is available from the Big Sioux Brookings aquifer.
2. The aquifer is under water table conditions in this area. Significant drawdown created by pumping does not extend very far from individual production wells in this aquifer. Interference is not a concern.
3. This application does not request any additional diversion rate and only proposes to add 80 acres to the Water Right No. 2128-3.
4. This is an existing well which has been in use for many years and the diversion rate will remain at 1.11 cfs.



James A Goodman
Natural Resources Engineer

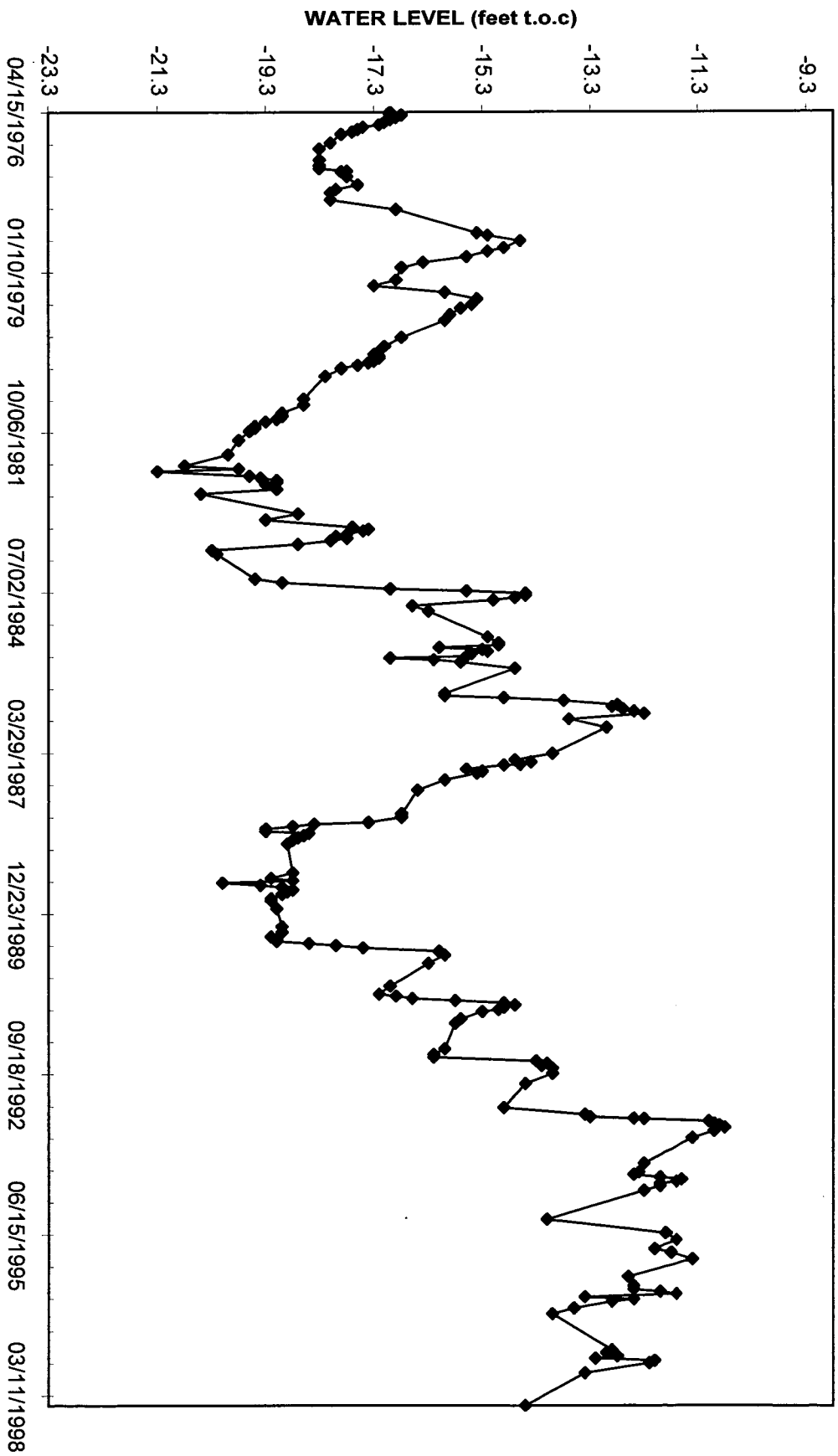
BIBLIOGRAPHY

Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota, Water Resources Investigations Report 88-4185, USGS, Huron, SD, 57350.

Hedges, L.S., et al., 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 1998, Unpublished Observation Well Data for Brookings County, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
BG-75J**



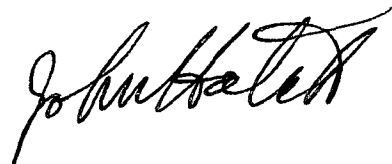
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6069-3, Ralland Janssen**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6069-3, c/o Ralland Janssen, 19832 465th Avenue, Bruce, SD 57220.

The Chief Engineer is recommending APPROVAL of Application No. 6069-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

A handwritten signature in black ink, appearing to read "John Hatch", with a stylized flourish at the end.

JOHN HATCH, Chief Engineer
May 27, 1998



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

May 28, 1998

Ralland Janssen
19832 465th Ave.
Bruce, SD 57220

Dear Mr. Janssen:

Water Permit Application No. 6069-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Register printed at Brookings, SD (Ph # (605) 692-6271). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

May 28, 1998

Register
P.O. Box 177
Brookings, SD 57006-0177

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 6069-3 to Appropriate Water to be published twice. Please publish the first notice on June 4, 1998, with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Ralland Janssen, 19832 465th Ave., Bruce, SD 57220 (Ph # (605) 873-2669).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6069-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of May 28, 1998, enclosing Notice of Hearing to Appropriate Water by Application No. 6069-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on June 4, 1998, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6069-3 to Appropriate Water

Notice is given that Ralland Janssen, 19832 465th Ave, Bruce SD 57220 has filed an application for a water permit to irrigate 80 additional acres. Water Right No. 2128-3 appropriates 1.11 cubic feet of water per second from one existing well (Big Sioux-Brookings Aquifer) 59 feet deep located in the S $\frac{1}{2}$ NW $\frac{1}{4}$ Section 24 to irrigate 156 acres located in the W $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 24; all in T112N-R51W. This application is to irrigate 80 additional acres located in the E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 24-T112N-R51W from the existing well. This application, if approved, does not authorize any increase in the developed diversion rate.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6069-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and chief engineer. The applicant must file a petition if contesting the chief engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 22, 1998.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

**PROOF OF PUBLICATION**

STATE OF SOUTH DAKOTA)

County of Brookings) SSI, Nancy Skyberg

certify that the attached printed Notice was taken

from the Brookings Registerprinted and published in BrookingsCounty of Brookings and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

June 4, 1998June 11, 1998Cost of Printing twenty-two dollars
and eighty cents = \$22.80Nancy Skyberg
(Signature)Legal Ad Coordinator
(Title)June 11, 1998
(Date Signed)

Legal 388, 2x, 6/4, 11

NOTICE OF

APPLICATION NO. 6069-3

to Appropriate Water

Notice is given that Ralland Janssen, 19832 465th Ave, Bruce SD 57220 has filed an application for a water permit to irrigate 80 additional acres. Water Right No. 2128-3 appropriates 1.11 cubic feet of water per second from one existing well (Big Sioux:Brookings Aquifer) 59 feet deep located in the S 1/2 NW 1/4 Section 24 to irrigate 156 acres located in the W 1/2 NW 1/4, N 1/2 SW 1/4 Section 24; all in T112N-R51W. This application is to irrigate 80 additional acres located in the E 1/2 NW 1/4 Section 24-T112N-R51W from the existing well. This application, if approved, does not authorize any increase in the developed diversion rate.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6069-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

SEP 4 1998

Ralland Janssen
19832 465th Ave.
Bruce, SD 57220

Dear Mr. Janssen:

Enclosed is Water Permit No. 6069-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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 Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

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

enclosures

PLEASE NOTE: Certain changes may be made to your water permit usually without affecting the priority date. The location of a point of diversion may be changed or additional points of diversion may be approved if the water source remains unchanged; no additional water is appropriated; and, if irrigating, no additional land is irrigated. The change may be allowed without application or publication, if the Water Rights Program is contacted and the chief engineer makes a finding that the change does not increase the potential for interference with existing diversions.

A new water permit application is required to change water sources, increase the permitted diversion rate, or increase the irrigated acreage. If the application is approved, the water permit will receive a new priority date.

NOTICE OF COMPLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE



Date Nov 122/98

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Ralland Janssen 19832 465th Ave
(name) (address)
Bruce SD 57220 873 2669
(city) (state) (zip) (phone)

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 6069-3.

Water Permit No. 6069-3 states that the diversion system is to be constructed by June 22/2003, and that the water is put to beneficial use by
(date)

June 22 2002
(date)

The diversion system was completed on Oct/1/98
(date)

Applying the water to beneficial use was completed on Oct/1/98
(date)

You may schedule an inspection so that the Water License may be issued.

Ralland Janssen
(signature)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

August 16, 2001

6069-3

Ralland Janssen
19832 465th St
Bruce, SD 57220

Dear Mr. Janssen:

On June 27, 2001, the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 6069-3, was completed by Ron Duvall, a staff engineer with our program. Your final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee from you, we will complete processing your water license. The check or money order for the fee should be made payable to the "Water Rights Program".

Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

70-416905

Pierre, August 28, 20 01

RECEIVED OF Rolland Janssen, 19832 465th Ave., 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 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>6069-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By

Darland Erbe

Chief Engineer

gm

Permit No. 6069-3
Big Sioux River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, June 27, 2001, made a thorough examination of the water use system constructed by Ralland Janssen of 19832 465th Street, Bruce SD 57220 holder of Permit No. 6069-3, bearing the priority of April 2, 1998 authorizing the diversion of no additional (1.11 cu. ft. per second authorized by No. 2128-3) of the waters of ground water (Big Sioux – Brookings aquifer) for irrigation purposes, in Brookings County.

Inspection contact & relationship to permit holder, if applicable: **Ralland Janssen**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lacey
- 2) No. of Wells 1
- 3) Depth(s) 40 feet
- 4) Well log is available Y? (see file)

Casing\Screen:

- 1) Diameter 16 inches
- 2) Type Stainless steel

Motor\Pump:

- 1) Make Electric
- 2) Pump unknown
- 3) Horsepower rating 40 hp

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

- 1) Type Aluminum
- 2) Size 6 inches
- 3) Length ≈ 850 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley (towable)
- 2) Number of towers 7
- 3) End gun Y
- 4) Low pressure 40 psi
- 5) Capacity 500 GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: none

The system is in good condition with the point of diversion located as follows: Well: ≈ 2,200 feet S and ≈ 1,320 feet E from the NW corner section 24-T112N-R51W (S½NW¼). The works are capable of diverting and

Report of Examination of Works

Permit No. 6069-3

conveying to the place of use 1.11 cu. ft. per second of water which is to be used for irrigation purposes. Water has been put to beneficial use to the maximum extent as follows:

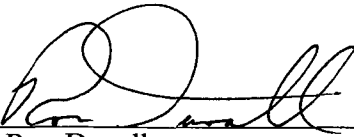
NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec 24-112N-51W 34 acres

SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec 24-112N-51W 34 acres

comprising a total of 68 acres of land and the license should be issued for 0.97* cfs.

Comments or other permit(s) associated with the project: **2128-3*** | All structures, wells and lands on map Y

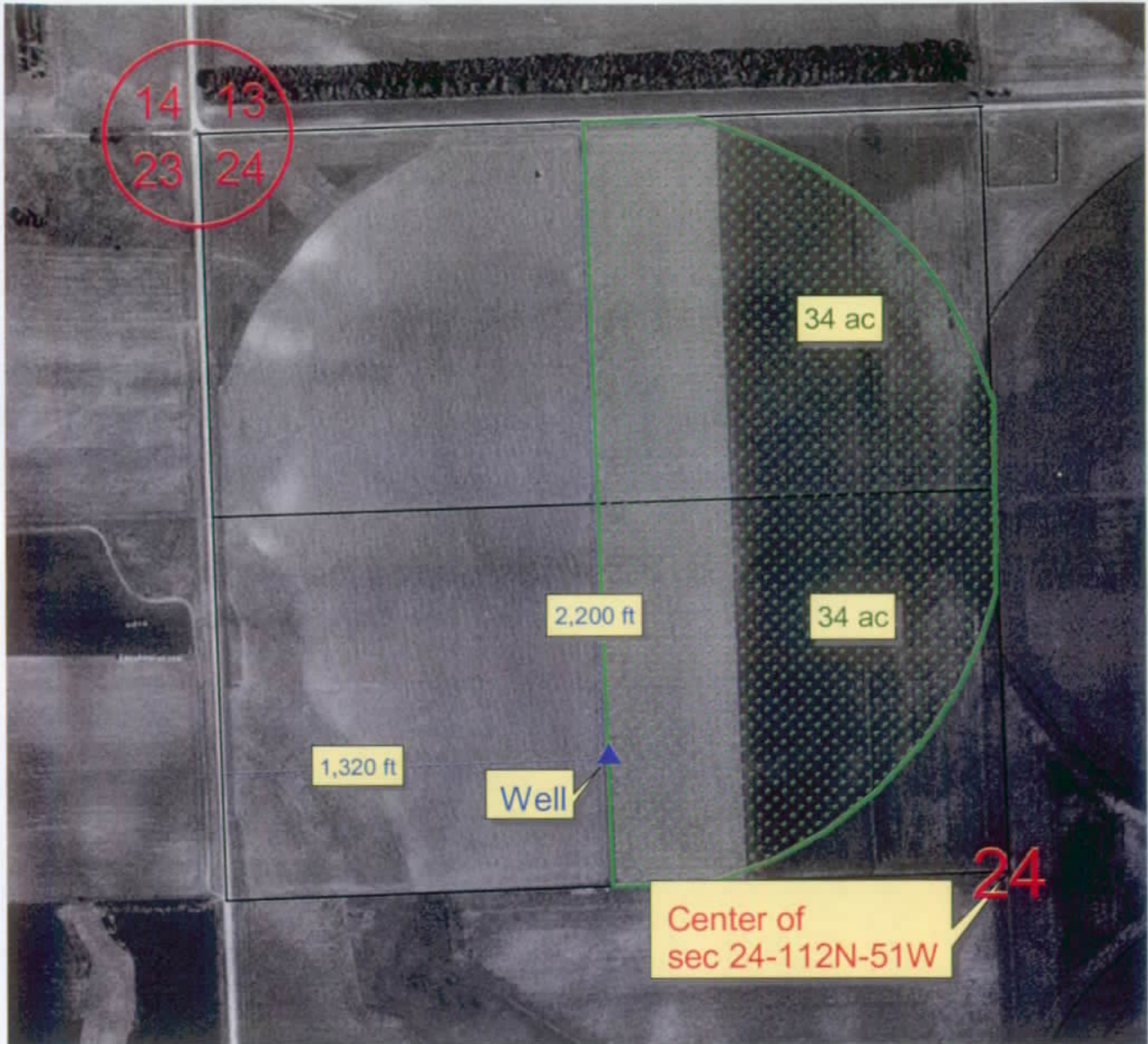
***Combined diversions under No. 6069-3 and No. 2128-3 may not exceed 1.11 cfs. The same well is used for irrigation under each of these water rights. Since the irrigated acreage is owned by more than one property owner, the water rights should NOT be incorporated.**



Ron Duvall
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: August 15, 2001

600 0 600 Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Ron Duvall, Nat. Res. Engineer
August 15, 2001

No. 6069-3

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6069-3

(1) Ralland Janssen, 19832 465th St, Bruce, SD 57220 made Application No. 6069-3, April 2, 1998 for a water permit to authorize irrigation of an additional 80 acres of land with no increase in the developed diversion rate authorized under Water Right No. 2128-3. The land is located in Brookings County, South Dakota. Permit No. 6069-3, with a priority date of April 2, 1998 was approved June 22, 1998 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 22, 2003 and for the application to beneficial use of said water on or before June 22, 2007.

Water Right No. 2128-3 appropriates 1.11 cfs from one well to irrigate 156 acres in the W $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 24, T112N, R51W. Water Permit No. 6069-3 authorizes use of the same well to irrigate additional acres.

On November 24, 1998, the permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*". The "*Notice*" indicated that the water use system had been completed and the water was applied to beneficial use on October 1, 1998.

(2) It is certified that the permit holder 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 0.97* cubic feet of water per second for beneficial use. The location of the diversion point is $\approx 2,200'S$ and $\approx 1,320'E$ of the NW corner of Section 24, T112N, R51W (S $\frac{1}{2}$ NW $\frac{1}{4}$).

***The combined diversions under No. 6069-3 and Water Right No. 2128-3 may not exceed 1.11 cfs. The same well is used for irrigation under each of these water rights. Since the irrigated acreage is owned by more than one property owner, the water rights are not being incorporated.**

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

Section 24, T112N, R51W	NE $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
	SE $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
	Total	68 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Ralland Janssen, 19832 465th St, Bruce, SD 57220 the holder and/or owner of Water Right No. 6069-3 is issued a license to appropriate water, the right to use 0.97 cubic feet of water per second from ground water (one well) with a priority date of April 2, 1998 from the location specified in (2) of this license. The water 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 Right No. 6069-3 and subject to South Dakota State Law.


Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

SEP 24 2001

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

SEP 24 2001

6069-3

Ralland Janssen
19832 465th St.
Bruce, SD 572201

Dear Mr. Janssen:

Enclosed is Water License No. 6069-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 416905 in the amount of \$50.00 which you paid for the investigation 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 well authorized by Water Right No. 6069-3, 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 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.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

6069-3

SD EForm - 1621LD V1

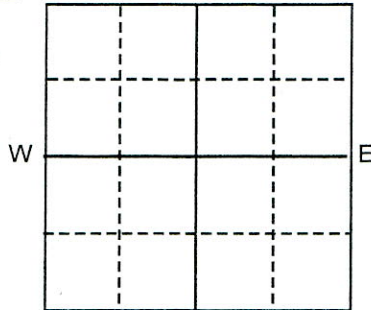
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE ¼ NW ¼ Sec 24 Twp 112 Rg 51

County Brookings

North

Please mark well
location with an "X"

Well Completion Date

February 13, 2013

1 Mile

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

PROPOSED USE:

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

METHOD OF DRILLING:

mud rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	12.00 IN	2.0 FT	40.0 FT	18.00 IN
LB/FT	IN	53.0 FT	57.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Quick Grout	12	Lb/gal	0.0 Ft	30.0 Ft
Red Flint	23	Lb/gal	30.0 Ft	57.0 Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12.00 Inches Length 13.0 Feet

Material Stainless Steel

Slot Size 100 Set From 40.0 Feet to 53.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?

☐ No, Why Not?
Lab to which water
quality sample sent for analysis

Well Owner: Ralland Janssen

Business Name:

Address: 19832 465th Ave

City, State, Zip: Bruce SD 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	Blk	M
Clay	Tan	M
Sand	Gravel	
Clay	Gry	

STATIC WATER LEVEL 15.0 FEET

If flowing: closed in pressure PSI

GPM flow through Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

33.4 Ft. After 6.0 Hrs. pumped 650.0 GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate: GPM

REMARKS

Production Well #2

44 29 51.3N

96 54 01.3W

Elev 1628

This well was drilled under license # 463 and this report is true and accurate.

Drilling firm: Steffl Drilling & Pump Inc / Kris VanHeuveln

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: March 7-2013

RECEIVED
SEP 12 2013
WATER RIGHTS
PROGRAM