

Considered: 4-25-84

WATER PERMIT NO. 4996-3

10160011 JR

MAP No. 4996-3

Name of Applicant VERLYN F HAUCK

Post Office Address R.R. 1, Box 93, Olivet, S.D. 57052

Amount of Water Claimed 2.28 Total Acres 160.00

Source of Water Supply ~~221'~~ One 221' deep well

Water to be used for IRR County Hutchinson

About 7 N 1 miles EAST of OLIVET

PROOF OF PUBLICATION: Received 1st 3-22-84 Not Received

APPLICATION: Approved 4-25-84 Subject to

F.F. & C.L. Adopted Not Approved Deferred

PRIORITY 11-21-83 Date Received 11/21/83 Fee 250.00 Remarks

Corrected Application Received Period of Annual Use 4/1 8/31

WATER QUALITY APPROVAL RECEIVED 1-16-84 APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES X NO REMARKS

Diversion Point

Center of SE $\frac{1}{4}$, Sec. 35-T99N-R58W

Land to be Irrigated

SE $\frac{1}{4}$, Sec. 35-99-58

Well Log: Driller SDGS observation well HT 82B Licensed YES NO

Depth of Well 221' deep REMARKS

Type of Map aerial PREPARED BY Co. Agent Darrell Deneke Reviewed and the Number

assigned on 1-17-84 By B. J. Westlund

No. 4996-3 Hydrologic Unit JAMES RIVER
 Map No. 4996-3 Basin 10160011
 Newspaper Courier, Freeman, SD.

Application For Permit To Appropriate Water Within The State Of South Dakota

Type of Application: Check one or more of the following:

New ☒ Vested Right ☐ Future Use ☐

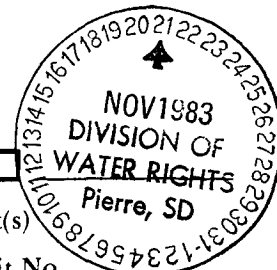
☐ Application to amend Permit No. _____ with old priority date retained

☐ Change diversion point(s) ☐ Add diversion point(s) ☐ Change acreage ☐ Other ☐

☐ Application to: ☐ Change use ☐ Change diversion point(s) ☐ Add diversion point(s)

☐ Add Acreage ☐ Increase diversion rate ☐ Other _____ See Permit No. _____

☐ Application to: ☐ Use ☐ Transfer water reserved by Future Use Permit No. _____



1. Name of Applicant Verlyn F. Hauck Phone No. 387-2351

Post Office Address RR 1 Box 93, OLIVET State SD Zip Code 57052
(Street, RR or Box)

2. Amount of water claimed (c.f.s.) 2.28 Total acres irrigated 160

3. Source of Water supply well

④ Location of point of diversion the well will be in the center of SE 1/4 of Sec 35

County Hutchinson

5. Counties where water will be used Hutchinson

6. Annual period during which water is to be used April - Aug

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>Sec 35 - 99 - 58 SE 1/4</u>	<u>160</u>

Land Description	No. Acres Irr.
<u>SE 1/4 of SE of Sec 35</u>	<u>40</u>
<u>SW 1/4 of SE of Sec 35</u>	<u>40</u>
<u>NE 1/4 of SE of Sec 35</u>	<u>40</u>
<u>NW 1/4 of SE of Sec 35</u>	<u>40</u>

Attach sheet if more space is needed

⑧ Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

the purpose of this project is to water crops to increase yield, and to help water crops in drought years.
I plan on using a center pivot system.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
 County of Hutchinson)^{ss}

I, Verlyn F. Hauck, the applicant, certify that I have read the foregoing application, 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 Verlyn F. Hauck

Subscribed and sworn to before me this 18th day of November 19 83

GLEND A ZEEB

Notary Public (or other qualified officer)

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 4996-3
Verlyn F. Hauck (Applicant) Rt. 1 Box 93 Olivet (Post Office Address)
South Dakota (State) 57052 (Zip Code) With the following qualifications.

The irrigation well approved under this Permit will be located near domestic wells and other 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 wells having prior water rights.

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

Date of first receipt of application November 21, 1983.

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

Date of receipt of corrected application —, 19—. Approved April 25, 1984.

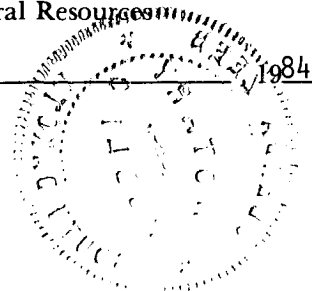
The Water Management Board hereby approves this Water Permit No. 4996-3 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is November 21, 1983.
2. One-fifth of the work is to be completed on or before September 25, 1986.
3. The whole of said work is to be completed on or before April 25, 1989.
4. The time limit for proof of beneficial use of water is April 25, 1993.
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 unlawfully impaired by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 2.28 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. For 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 April 25, 1993; said water to be used during the following described annual period: April 1st to August 31.

WATER MANAGEMENT BOARD

By: John Hatch
 Chief Engineer JOHN HATCH
 Division of Water Rights
 Dept. of Water and Natural Resources

May 3 1984



D Well Information

- (1) Drill Hole, Diameter 4 $\frac{3}{4}$, Depth 221
- (2) Casing, Type PVC, Diameter 2", Thickness _____
(wood, concrete, steel, etc)
- (3) Screen, Type 20' Slotted Sand P., Diameter 2", Length 25'
- (4) Gravel Pack, Thickness 2 $\frac{1}{2}$, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Depth to water (ground surface to water level) _____

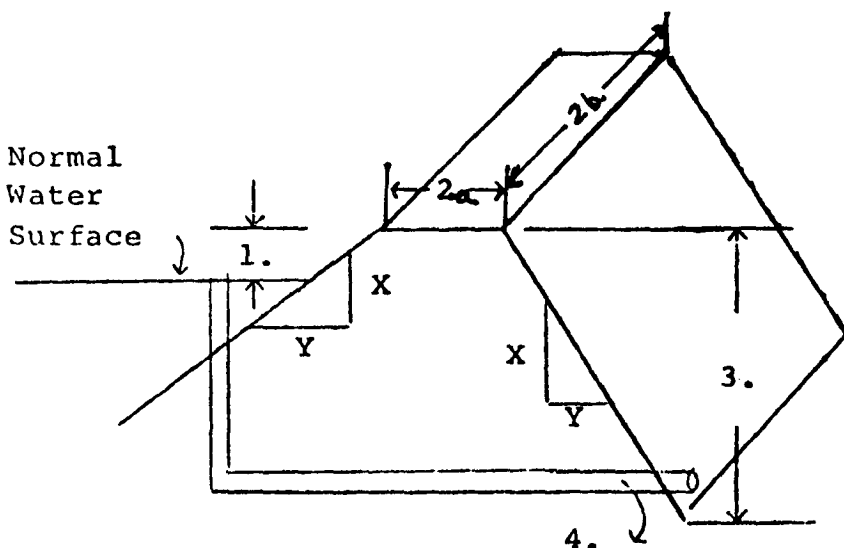
- (2) Distance to nearest existing household or livestock watering well ($\frac{1}{2}$ mile)

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, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____
- 2a Crest width _____ b. length _____
3. Height of Dam _____
4. Outlet dimensions:
Pipe diameter _____
Spillway width _____
- X & Y slope:
Upstream _____
Downstream _____
Surface area of impoundment _____
- Drainage area above dam _____

Verlynn J. H. Smith
Signature of Applicant

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 18" Depth 220 FT
- b) Casing Type PVC Diameter 14" Thickness sch 80
- c) Screen Type S.S. Diameter 14" Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 94 FT
- f) Depth of 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) Outlet Dimensions:
 Pipe diameter _____

Spillway width _____

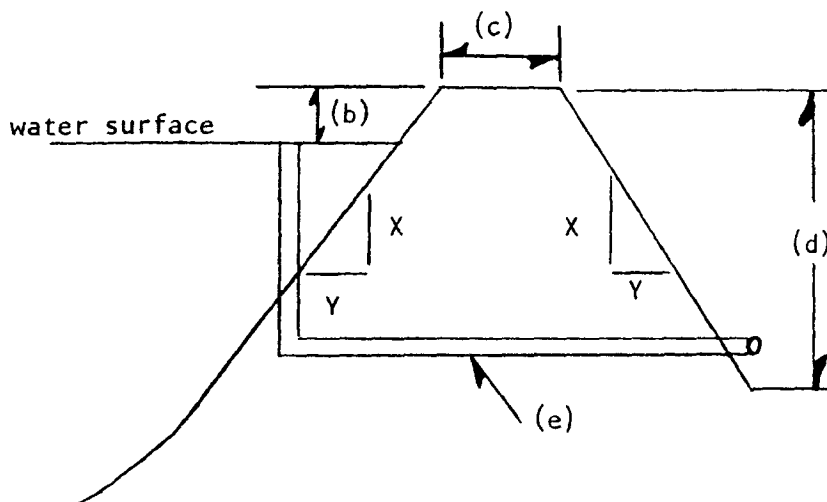
f) X & Y Slope
 Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

NOT TO SCALE



RECEIPT

Division of Water Rights

No 4 9425

South Dakota Department of Water and Natural Resources

Pierre, December 5, 19 83

RECEIVED OF Verlyn F. Houck, RR#1, Box 93, Olivet, SD 57052

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

Fee for Application for Permit No. 4996-3 to Appropriate Water, to construct works and to put water to beneficial use	250	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 Certified Copy of		
Fee for Print Copy of Map		
Fee for Certifying		
Fee for		
(Any Other Work Provided by Law)	Total	250 00

By John Hatch
Chief Engineer JOHN HATCH ms

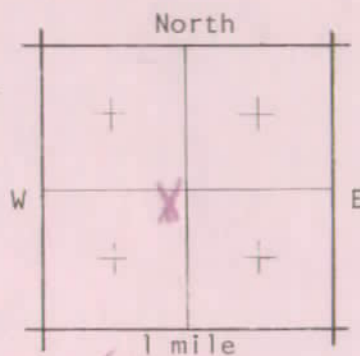
Jaakon	115-2	(D F Carlin- now owned by Kirby Briggs) land also covered under 550-2, could possibly be incorporated.
Hamlin	4216-3	(Circle B. Farms) possible cancellation
	5443-3	Jerald Peterson, ready for inspection
	5011-3	Ronald Jongeling - ready for inspection
	5038-3/5328-3	(Poinsett Hutterian) ready for inspection
	5268-3	Randy Hanson - ready for inspection
	5402-3	Mike Gratz - ready for inspection
Hand	5085-3	(Ed Watkins) ready for inspection
	5368-3	Miller Golf Course-ready for inspection
X Hanson	2774-3	(Cyril Haag) S/W problem Center NE 1/4 8-104-58 (g.w.) " NW 1/4 9-104-58
Engr. III	5185-3	(Hanson RWS) ready for inspection SE NE Sec 29-101-55 (g.w.) SW NW Sec 28-101-55
Lynn		
Hughes	1515-3	land owned by USA & Northwestern Bank in Chamberlain may be sold again - probably cancel.
Schaal		
	1532-2	Jim Korkow report on 1989 IQ he has not irrigated for several years-surface water-Medicine Creek
	5345-3	Harold J Downes-ready for inspection.
Δ Hutchinson	4996-3	(Verlyn Hauck) requested inspection SE 1/4 Sec 35-99-58 (g.w.)
Engr. III	5020-3	(Lynell Hofer) ready for inspection. SE SW 1/4 110-99-57 (g.w.)
Lynn	5348-3	Parkston Co. Club - ready for inspection 29-99-60 (ground H ₂ O 2 wells)
Hyde	5164-3	(James Faulstich) requests inspection
Jackson	1525-2	(May & Sons) possible irrigation of wrong lands
	914-2	(Duane Olson) reports on '88 IQ he only has part of system constructed
	1400-2A	Wrote to Grant Patterson 3 times for transfer
	1657-2	(Ronald Gartner) 1985 - reported irrigating more than permitted.
	1472-2	Marvis Letellier - ordered to cease pumping 7-14-87 for non-payment of license fee.
9 Jerauld	3395-3	(Wes Villbrandt) needs reinspecting, S/W problem (map & other data in file 13). SW 1/4 SE 1/4 8-107-67 (ground H ₂ O)
Engr. III		
Lynn	3513-3	(Federal Land Bank) they are in law-suit against Colony, Check to see if they will be irrigating again. Wessington Springs SW 1/4 NW 1/4 Sec 7 107-67 (ground H ₂ O)

STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location 1/4 Sec 35 Twp 99 Rg 58

County HUTCHINSON

Please mark well location with an "X"



Well Completion Date 7/25/84

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling: REVERSE ROTARY

WELL CONSTRUCTION:

Diameter of hole 26 inches Depth 210 feet

Casing: ☐ Steel ☒ Plastic ☐ Other
Specify _____

Pipe Weight Diameter From To
37.5 lb/ft 15 inches 0 feet 210 feet
_____ lb/ft _____ inches _____ feet _____ feet

Was a well screen used? ☐ Yes ☒ No

If Not Specify 40' SLOTTED PVC

Screen Type _____ Slot Size _____

Length _____ Diameter _____

Was Casing left open end? ☐ Yes ☒ No

Was a Packer or seal used? ☐ Yes ☒ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ No

Was well grouted? ☐ Yes ☒ No

Describe grouting procedure _____

To what depth? _____ Feet

What was grouting material? _____

If cement, how many sacks? _____

Location of packer(s) and screen or perforated pipe _____

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☐ No
If so how and with what material? _____

Well Owner:

Name VERLYN E. HAVCK RE

Address OLMIT SOUTH DAKOTA

Well Log: Depth

Formation	From	To
<u>TOPSOIL + BRN CLAY</u>	<u>0</u>	<u>20</u>
<u>BLUE CLAY W/ RACKS + PEBBLES</u>	<u>20</u>	<u>102</u>
<u>FINE TO MED HARD SAND</u>	<u>102</u>	<u>124</u>
<u>BLUE CLAY</u>	<u>124</u>	<u>127</u>
<u>FINE HARD SAND</u>	<u>127</u>	<u>140</u>
<u>BLUE CLAY</u>	<u>140</u>	<u>156</u>
<u>FINE SAND</u>	<u>156</u>	<u>190</u>
<u>FINE TO MED GRAVEL</u>	<u>190</u>	<u>220</u>
<u>COURSE GRAVEL + BOULDERS</u>	<u>220</u>	<u>225</u>

STATIC WATER LEVEL 110 Feet

If flowing: closed in pressure _____

GPM flow _____ through _____

Controlled by ☐ Valve ☐ Reducers

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Describe: _____

Pumping Level Below Land Surface

121 ft. After 1 Hrs. pumped 850 GPM

122 ft. After 1 Hrs. pumped 920 GPM

123 ft. After 1 Hrs. pumped 1040 GPM

Remarks:

80 GPM PER FT OF DRAWDOWN AT 1040 GPM

This well was drilled under license # 444

and this report is true and accurate.

CHRISTENSEN WELL CO. William J. Christensen

Drilling Firm

Signed by

7/27/84

Date

This guy has talked to
Goodman & Stuekel.

Apparently Stuekel told him
it would be ok to use
the water sample from the
SDGS OBR well.

R/CJ

Location

Section: $\phi 1$

T. 98 N

R. 58W

Well: HT-82B

Land Owner:

Date: 27 April 82 Elevation:

E-Log: NO

Samples:

Drilling Company: *SDGS*

Project: WATER RIGHTS

Geologist: G. Selken

Rotary: X

Auger:

Driller: M. Thompson

Thickness	Lithologic Description	From - to Feet
1	Topsoil, black	0-1
16	Clay, yellow brown, silty, pebbly (till)	1-17
19	Clay, gray, silty, pebbly (till)	17-36
2	Gravel	36-38
4	Clay, olive green, (lacustrine)	38-42
12	Clay, gray, silty, pebbly (till)	42-54
14	Clay, gray, silty, gravelly (till)	54-68
2	Gravel	66-68
26	Clay, gray, silty, pebbly (till)	68-94
27	Gravel, fine, clay layers interbedded	94-121
33	Clay, gray, silty, gravelly (till)	121-154
67	Gravel, fine, well sorted (Western)	154-221
	Quartzite? (Bedrock) poor return.	221
T.D. = 221 ft. Cased 205 ft. with 20 ft. slotted above 5 ft. sand point.		

1

REPORT OF ANALYSIS
Water Quality Laboratory
Water Resources Research Institute
South Dakota State University
Brookings, South Dakota 57007

Name: DWR HT-82B
Address Bill to: DNRD-DWR
Foss Building
Pierre, SD 57501

Date Rec'd Jun 01, 1982
Sample No. 82-1110
Identification WELL- 206.00ft.
098N 58W 01 b

WATER ANALYSIS

Calcium (Ca)	400	ppm*	19.96	me/l**
Magnesium (Mg)	48	ppm	3.95	me/l
Sodium (Na)	144	ppm	6.26	me/l
Potassium (K)	25	ppm	0.64	me/l
Sulfate (SO ₄)	1210	ppm	25.19	me/l
Nitrate (as N)	0.02	ppm	0.00	me/l
Chloride (Cl)	136	ppm	3.84	me/l
Bicarbonate (HCO ₃)	176	ppm	2.88	me/l
Carbonate (CO ₃)	0	ppm	0.00	me/l
Iron (Fe)	0.13	ppm	0.00	me/l
Fluoride (F)		ppm		me/l
Manganese (Mn)		ppm		
Boron (B)	0.55	ppm		
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Total solids	2196	ppm		
Total Cations			30.81	me/l
Total Anions			31.91	me/l
Alkalinity (Methyl Orange)	144	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2450	micromhos per cm at 25 C		
Sodium Adsorption Ratio	1.81	Adjusted SAR	4.57	
Sodium	20.32	% of Cations		
Residual sodium carbonate	0.00	me/l		
pH	7.59			

Others:
*ppm=parts per million
**me/l=millequivalents per liter

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

COMMENTS

By: Shirley Mittan

Service Performed:
Analysis for Water Rights

Total Cost: \$ 24.00
Amount Received: 0.00
Balance Due: 24.00

Make checks payable to: "SDSU Water Quality Lab"

Please write lab number on your check!

Lab No. 82-1110

RECORD TYPE POBSERVATION WELL NUMBER HT-82B

READING

Le... ..

1

1

1 2 3 4 5 6 7 8 9 10 11 12

Age Group	Percentage
18-24	10
25-34	35
35-44	25
45-54	15
55-64	10
65-74	5
75-84	2
85+	1

1

1

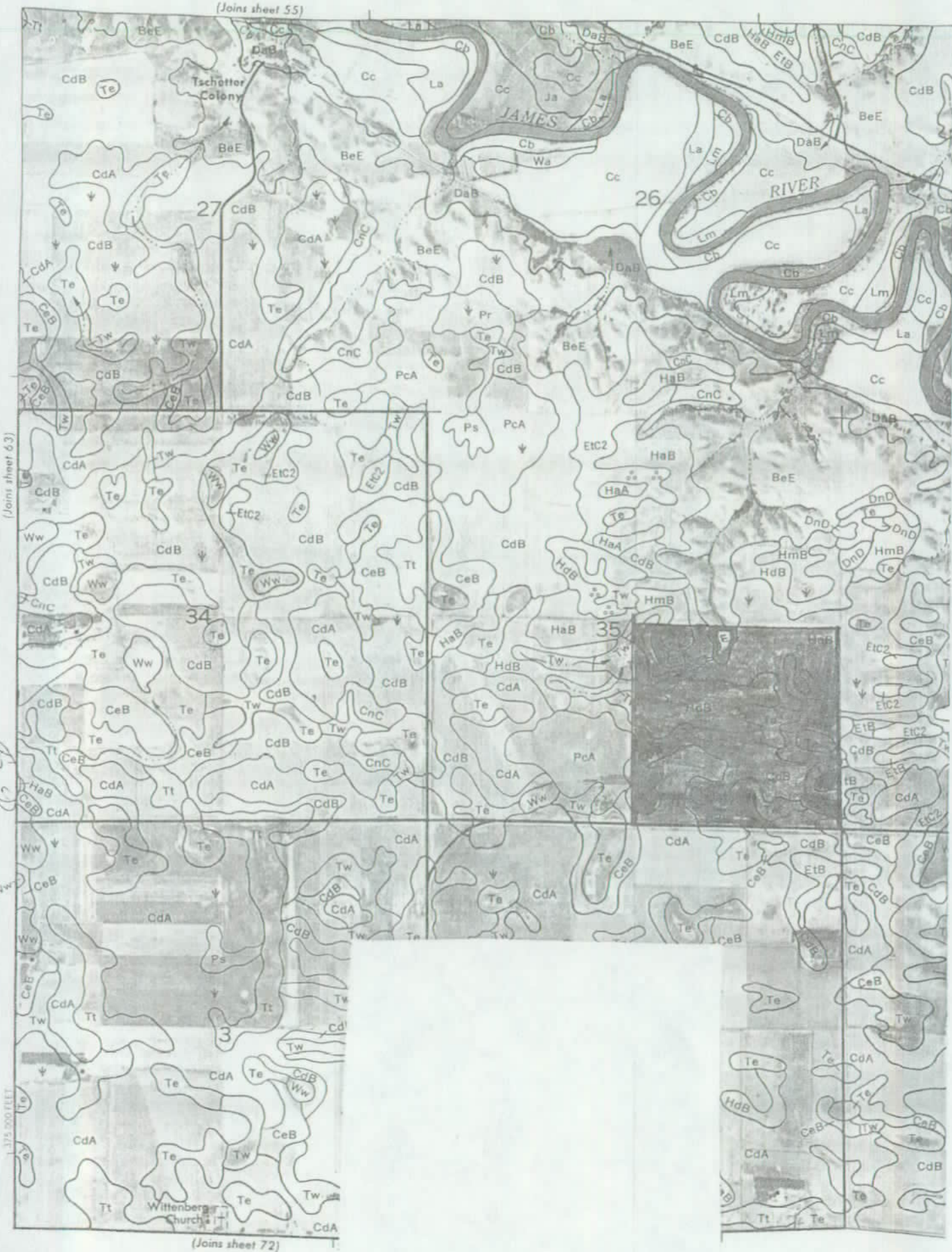
[illegible][illegible][illegible]

--	--	--	--	--	--	--

(Joins sheet 55)

Scale 1:20000

(Joins sheet 63)



(Joins sheet 72)



Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322

Pierre, South Dakota 57501

Phone 605/773-3258

November 30, 1983

Verlyn Hauck
RR 1, Box 93
Olivet, SD 57052



Dear Mr. Hauck:

In reviewing your soil and water compatibility application for the SE 1/4 35-99-58, the irrigation staff is recommending a Conditional Approval of your application to the State Conservation Commission at their January 12, 1984 meeting. The Conditional recommendation is based on the salt content of the water and the clay content of the soils making the leaching of salts difficult. The Restrictions and Management Recommendations are as follows:

RESTRICTIONS:

The area mapped as Betts-Ethan loam (BeE) 15-40 slope is subject to a severe erosion hazard. This area shall be restricted from irrigation.

The areas mapped Tetonka-silty clay loam (Te) and Tetonka-Whitewood silty clay loam (Tw) are subject to ponding and wetness. In these areas you may experience trafficability problems as well as the reduction in crop yield due to excess wetness and salt buildup in the root zone. The two (2) largest areas of these mapping units are located in the center of the Eastern half and Southeastern portions of the quarter. These areas shall have adequate drainage provided.

MANAGEMENT RECOMMENDATIONS:

It is recommended that the areas of Tetonka (Te) and Tetonka-Whitewood (Tw) remain in grass to address trafficability problems. If these areas are cropped we recommend the use of a deep ripper which may improve the water movement through the soil.

It is also recommended that a form of conservation tillage be used to control erosion and that the water plan be set up to maximize the leaching of salts downward in the soils.

If you have any questions concerning your application please feel free to contact this office.

Sincerely,

Jim Stukel
Irrigation Program Administrator

cf

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

Division of Conservation

Office Use Only

4068

WR#

OWNERS NAME: Verlyn F. Hauck OWNERS ADDRESS: RR 1 Box 93

Olivet S.D. 57052

COUNTY LAND LOCATED IN: _____ PHONE: 397-2351

TENANT'S NAME AND ADDRESS: _____

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres)

1. WELL LOCATION Set 1 98N 58W

Depth 221

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: 770212

Diversion Location _____

Legal Description	Acres	Legal Description	Acres
<u>SE 1/4 35-99-58</u>	<u>160</u>		

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED _____

LEGAL DESCRIPTION: _____

IN WHAT NAME: _____

4. LOCATION OF AREA TO BE IRRIGATED NOTE: **SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)**

5. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ OTHER: _____ (Specify)

6. CROPS TO BE IRRIGATED: CORN Beans ALFALFA

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)	
7. WATER SAMPLE NUMBER: <u>82-1110</u>	10. ADJUSTED (SAR): <u>4.57 (3.20)</u>
8. SALINITY (EC X 10 ⁶): <u>2450</u>	11. PERCENT SODIUM: <u>20.32</u>
9. SODIUM (SAR): <u>1.81</u>	

I hereby certify that I personally obtained or that I personally observed that taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 19____, at the following location: _____ by (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

Signature

I understand that the Division of Conservation or agents thereof may obtain water samples from wells and surface bodies to be used for irrigation purposes to validate water samples taken at the time of application. The Department of Agriculture may also gather technical information necessary to protect the land. (46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

18th DAY OF November, 1983

CLARA ZEIGER
(NOTARY PUBLIC)

Verlyn F. Hauck
APPLICANT'S SIGNATURE

David M. Christophel
Director, Division of Conservation

Date

1-12-84
APPROVED

DISAPPROVED

☒ CONDITIONALLY APPROVED

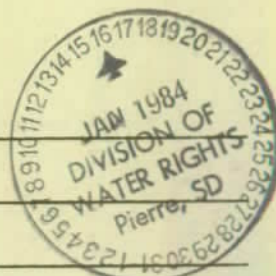
IMPORTANT
Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER RIGHT must be obtained from the Board of Water Management, Foss Building, Pierre.

Conditional soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

44068

Conditional Approval

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT: Verlyn Hauck - Hutchinson CountyLEGAL DESCRIPTION: SE 1/4 35-99-58 = 160 acresSOIL RESTRICTIONS:THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:

160
The area mapped as Betts-Ethan loam (BeE) 15-40% slope is subject to a severe erosion hazard. This area shall be restricted from irrigation.

THE SOILS(S) LISTED BELOW CAN BE IRRIGATED
WITH THE FOLLOWING RESTRICTIONS:

The areas mapped Tetonka-silty clay loam (Te) and Tetonka-Whitewood silty clay loam (Tw) are subject to ponding and wetness. In these areas you may experience trafficability problems as well as the reduction in the crop yield due to excess wetness and salt buildup in the root zone. The two (2) largest areas of these mapping units are located in the center of the Eastern half and Southeastern portions of the quarter. These areas shall have adequate drainage provided.

It is recommended

RECOMMENDED MANAGEMENT:

It is recommended that the areas of Tetonka (Te) and Tetonka-Whitewood (Tw) remain in grass to address trafficability problems. If these areas are cropped in recommend the use of a deep ripper which may improve the water movement through the soil.

It is also recommended that a form of conservation tillage be used to control erosion and that the water plan be set up to maximize the leaching of salts downward in the soils.

Signature
DATE

REPORT ON APPLICATION No. 4996-3

Verlyn F. Hauck

March 7, 1984

Application NO. 4996-3 proposes to irrigate 160 acres in the SE 1/4 Section 35, T99N, R58W from one 221 foot well. The applicant proposes to withdraw 2.28 cubic feet per second from an un-named aquifer.

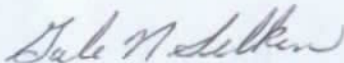
The boundaries of the aquifer have not been delineated and an estimate of recoverable water in storage has not been made. Cross-section (attached) drawn for Permit No. 4945-3 indicates that there are three separate formations in the area of this application (shallow sands, sands laying on and cut into the chalk, and the Niobrara Chalk). Application No. 4996-3 will withdraw water from the deeper sands which according to a log for observation well HT-82B (see map) lies directly on the Sioux Quartzite.

Cross-sections also indicate that the hydraulic gradient is towards the James River with the river being a possible discharge point.

Although the areal extent and storage of the aquifer have not been determined, the test drilling and observation well network monitored by the Division of Water Rights indicates that water is available for this application.

Conclusions

1. There is a reasonable probability that unappropriated water is available for this application.
2. Observation wells exist and are being monitored in this formation.



GALE N SELKEN
Hydrologist

References

Department of Water and Natural Resources, Division of Water Rights, Observation Well Files (microfiche and computer); Water Permit Files, unpublished.

Selken, "Report to Water Management Board on Permit No. 4945-3", March 1983.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER

PERMIT APPLICATION NO. 4996-3, Verlyn F. Hauck

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 4996-3, Verlyn F. Hauck, RR 1, Box 93, Olivet SD.

The Chief Engineer is recommending APPROVAL of Application No. 4996-3 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) in the public interest with the following qualifications:

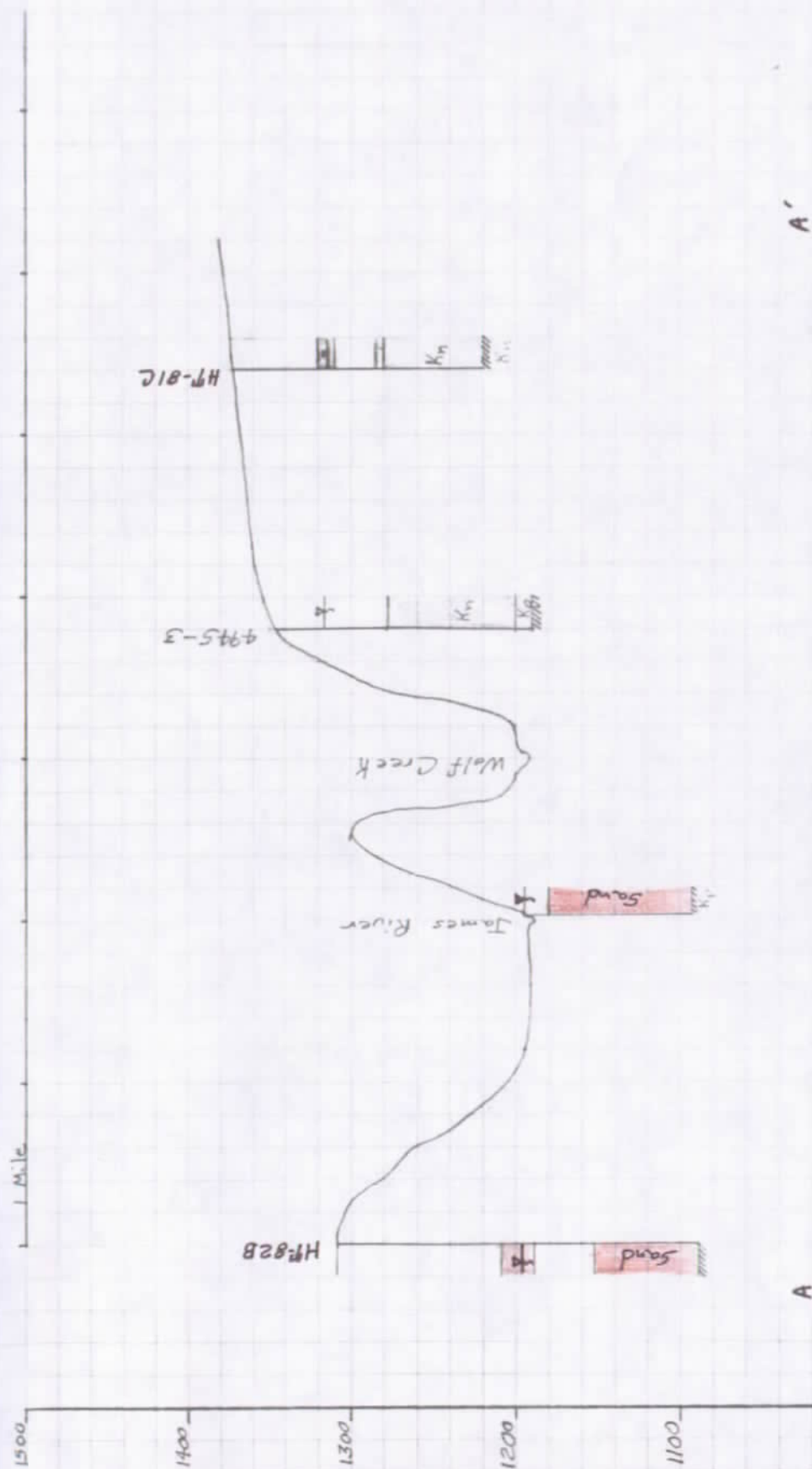
The irrigation well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate wells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

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

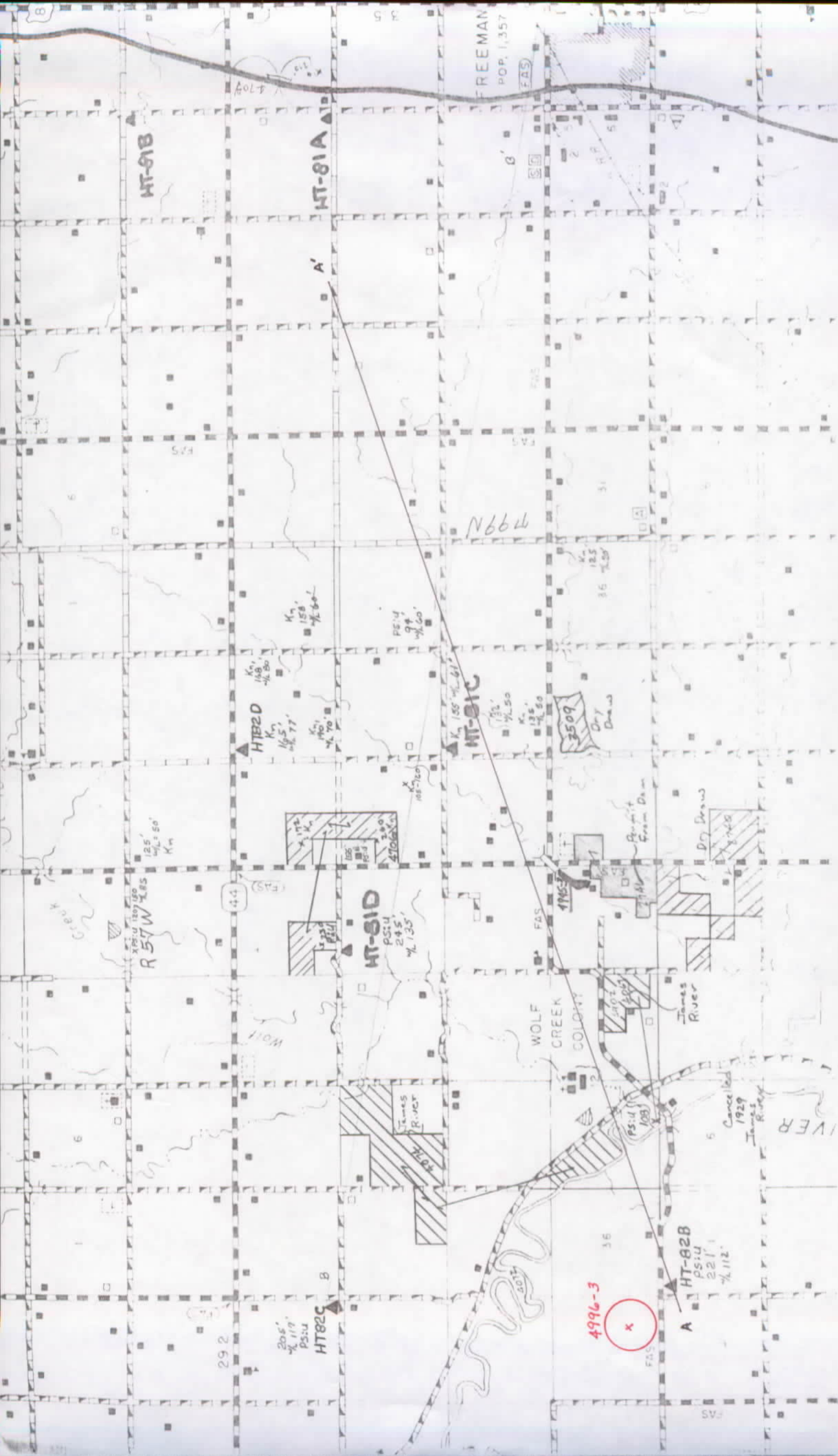
See the attached report for additional information.



JOHN HATCH, Chief Engineer
March 7, 1984



Drawn by GNS
28 March 1983



Instruction to Newspaper - Publish first publication of the following Notice on or before March 14, 1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 4996-3 to Appropriate Water
~~and/or to Amend Water Permit or Water Rights No. _____~~

Notice is hereby given that Verlyn F. Hauck whose mailing address is
RR#1, Box 93, Olivet, South Dakota has made an application for a permit

to appropriate 2.28 cubic feet per second from groundwater, one 221 foot deep well.
The point of diversion to be located in the approximate center of the SE $\frac{1}{4}$, Section 35,
T99N, R58W. Said water to be used for the purpose of providing irrigation on 160
acres located in the SE $\frac{1}{4}$, Section 35, T99N, R58W.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends
APPROVAL of Application No. 4996-3 because 1) unappropriated water is available,
2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and
4) is in the public interest.

This application will be considered by the Water Management Board at Foss Building
523 E. Capitol, Pierre, South Dakota, April 25, 1984 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by April 13, 1984. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; ~~(ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) 46-5-38 thru 46-5-40; (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.~~

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNr, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by April 13, 1984.

No. 4996-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Hutchinson) ss.

I, Glenn Gering hereby

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

Water was taken from the Freeman Courier

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 Freeman

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

March 14, 1984

March 21, 1984

Glenn Gering
(Signature)

Publisher
(Title)

March 21, 1984
(Date Signed)

Cost of Printing: \$ 38.12

**Notice of Hearing on
Application No. 4996-3
to Appropriate Water**

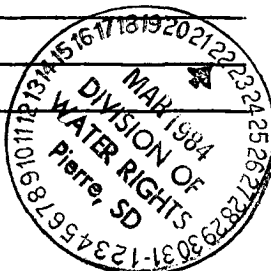
Notice is hereby given that Verlyn F. Hauck whose mailing address is RR#1, Box 93, Olivet, South Dakota has made an application for a permit to appropriate 2.28 cubic feet per second from groundwater, one 221 foot deep well. The point of diversion to be located in the approximate center of the SE $\frac{1}{4}$, Section 35, T99N, R58W. Said water to be used for the purpose of providing irrigation on 160 acres located in the SE $\frac{1}{4}$, Section 35, T99N, R58W.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends approval of Application No. 4996-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Foss Building, 523 E. Capitol, Pierre, South Dakota, April 25, 1984 at 10:00 A.M.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with both the Applicant and the Chief Engineer by April 13, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; ~~46-6-3~~, 46-6-3.1,



46-6-6.1, 46-6-10, 46-6-13, 46-6-14;
and Board Rules ARSD
74:02:01:01 thru 74:02:01:15.

This hearing is an adversary proceeding. The applicant, or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWRN, Joe Foss Building, Pierre, South Dakota (605/773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by April 13, 1984.

2mar21



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

4996-3

May 7, 1984

Verlyn F. Hauck
RR#1, Box 93
Olivet, South Dakota 57052

Dear Mr. Hauck:

Enclosed herewith is your Water Permit No. 4996-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 4996-3.

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 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 your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

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

Post Office _____

Date January 2, 1987

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

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to maximum extent it is going to be used, not exceeding the amounts as specified in Water Right No. 4996-3.

Water Right Permit No. 4996-3 states that the diversion system is to be constructed by April 25, 1989, and that the water is put to beneficial use by April 25, 1993.

The diversion system was completed on August 1984. Applying the water to beneficial use was completed on August 1984.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Verlyn J. Hancock
(Signature)



Department of Water & Natural Resources

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

February 7, 1990

4996-3

Verlyn F Hauck
RR #1 Box 93
Olivet, SD 57052

Dear Mr. Hauck:

The inspection of your water use system and the inspection of the extent of the application of water to beneficial use, as developed under your Water Permit No. 4996-3 has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until this \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

GENNY MCMATH
Natural Resources Analyst
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.





Department of Water & Natural Resources

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

APR 6 1990

4996-3

Verlyn F Hauck
RR 1, Box 93
Olivet SD 57052

Dear Mr. Hauck:

Enclosed is Water License No. 4996-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 412103 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 well authorized by Water Right No. 4996-3, 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.

Very truly yours,

A handwritten signature in dark ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

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

enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

412103

Pierre, February 21, 1990

RECEIVED OF Verlyn P. Hauck, RR #1 Box 93, Olivet, SD 57052

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>Water Permit No. 4996-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatchman
Chief Engineer

Vermillion River Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

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

I have this day made a thorough examination of the water use system constructed by Verlyn F. Hauck
_____ of RR 1, Box 93, Olivet, SD 57052 holder of
Permit No. 4996-3, bearing the priority of November 21 19 83 authorizing
the diversion of 2.28 cu. ft. per second of the waters of groundwater
for irrigation purposes, in Hutchinson County.

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

A. Works used to divert the water:

One well - 210 feet deep, 170 feet of 15 inch PVC pipe, 40 feet of slotted 15 inch PVC
Western Land Roller Pump, Serial No. 8405799, 12C bowl, impeller H, 8 stages, 800 GPM
High Thrust U.S. Electric Motor, Type RU, 1765 RPM, 75 HP

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

40 feet of 8 inch Aluminum pipe

C. Works used to apply water to beneficial use:

Zimmatic Center Pivot, 7 towers with end gun, 60 psi operating pressure, 800 GPM

The system is in the following condition Good

The point of diversion is located at a point 1,380 feet east and 1,340 feet south of the center of
Section 35, T99N R58W

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

Water has been put to beneficial use to the maximum extent as follows: All in Section 35, T99N R58W28.6 acres in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33.8 acres in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ 33.8 acres in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ 33.8 acres in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ comprising a total of 130 acres of land and the license should be issued for 1.78 cfsApplicable permit qualifications have been complied with X Yes NoExceptions to compliance are: _____ Date November 17, 1988

David D. Bauer
(signature)

LICENSE FOR PERMIT NUMBER 4996-3 Verlyn F. Hauck

1. Legal location of wells: at a point 1,380 feet east and 1,340 feet south of the
center of Section 35, T99N R58W

dams & structures: _____

2. Well Information: Well Drilling Firm Christensen Well Co.

Completion Report Yes X No _____ No. of Wells 1 Depth 210 feet

Casing a) diameter 15 inch Screen a) type PVC (slotted)

b) length 170 feet b) length 40 feet

c) type PVC Static Water Level _____

Pump a) make Western Land Roller Motor a) make High Thrust U.S. Electric

b) model Serial No. 8405799 b) model No. Type RU, 1765 RPM

c) size 12C bowl, impeller H c) horsepower rating 75 HP

d) capacity 800 gpm

e) turbine pump - no. of stages 8

f) operating PSI 60

3. Distribution lines or canals

a) size 8 inch

b) type Aluminum

c) length 40 feet

4. Dam Information:

a) height to crest _____ m) Outlet tubes:

b) height to primary spillway _____ 1) diameter _____

c) height to secondary spillway _____ 2) type _____

d) crest width _____ 3) valved (Y/N) _____

e) crest length _____ 4) valve type _____

f) spillway length _____ 5) location on structure _____

g) spillway width _____

h) approx. storage _____ n) Category of Dam _____

i) approx. storage to crest _____

j) date constructed _____

k) inspection sheet completed (Y/N) _____

l) Name of Contractor _____

5. System Type a) sideroll:

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

c) gun

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____
- 4) hose size _____
- 5) hose length _____

e) gated pipe

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

f) portable boom

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____

b) towline:

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

d) center pivot

- 1) make Zimatic
- 2) number of towers 7
- 3) distance between towers _____
- 4) overall length _____
- 5) end gun (Y/N) yes
- 6) high or low pressure High (60 psi)
- 7) make & size of nozzles _____
- 8) capacity (GPM) 800

g) siphons

- 1) size _____
- 2) number _____

NOTE:

For Permits with additional wells or changes in well locations, record the following for each well: pumping capacity, date constructed, well driller and if a well log is available.

Indicate any other permit(s) which are associated with project none

Yes	No	Check Items
<u>X</u>	___	1. Soil and water permit lands agree with lands being irrigated and lands listed on permit?
<u>none</u>	___	2. Special qualifications to permit being abided by?
<u>X</u>	___	3. All structures, wells and lands on map?
<u>X</u>	___	4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period?
___	<u>X</u>	5. Is chemigation used?
___	___	6. If yes, does equipment comply with chemigation rules?

REMARKS:

NOT TO SCALE



Scale
1" = 650'

David Brown
2/2/90

4996-3

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4996-3

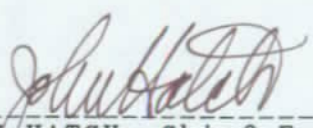
(1) Verlyn F. Hauck of RR 1, Box 93, Olivet SD 57052 made Application No. 4996-3, November 21, 1983 for a water permit to appropriate 2.28 cubic feet of water per second from groundwater (one well), Hutchinson County, South Dakota for irrigation purposes. Permit No. 4996-3 with a priority date of November 21, 1983 was approved April 25, 1984 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before April 25, 1989 and for the application to beneficial use of said water on or before April 25, 1993.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is: 1380 feet east and 1340 feet south of the center of Section 35, T99N, R58W.

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

T99N, R58W, Section 35	NW 1/4 SE 1/4	28.6 acres
	SW 1/4 SE 1/4	33.8 "
	SE 1/4 SE 1/4	33.8 "
	NE 1/4 SE 1/4	33.8 "
	TOTAL	130.0 acres

(4) Pursuant to Section 46-5-30.1 Verlyn F. Hauck of RR 1, Box 93, Olivet SD 57052 the holder(s) and/or owner(s) of Water Permit No. 4996-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from groundwater (one well) with a priority date of November 21, 1983 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 4996-3 and subject to South Dakota State Law.



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

APR 6 1990



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 19, 2010

4996-3

Verlyn F Hauck
607 S 2nd St
Menno SD 57045-2043

Dear Mr. Hauck:

Enclosed is a "Notice" dated October 15, 2010 concerning the 2010 irrigation questionnaire.

The notice was originally mailed to 28335 426th Ave, Olivet, SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

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

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 19, 2010

RECEIVED

OCT 22 2010

WATER RIGHTS
PROGRAM

4996-3

Verlyn F Hauck
607 S 2nd St
Menno SD 57045-2043

} owner

Dear Mr. Hauck:

Enclosed is a "Notice" dated October 15, 2010 concerning the 2010 irrigation questionnaire.

The notice was originally mailed to 28335 426th Ave, Olivet, SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

Genny McMath

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

enclosures

Please send form to
Daniel L Hauck
28335 426th Ave
Olivet, SD 57052-6513

for 2011.

He is our son and farmer
this irrigated land.

Verlyn is retired