

Water Right Number 3901-3

1. Considered 5-25, 1977
2. Name of Applicant ROGER R. IINEN
3. Post Office Address HURLEY
4. Amount of water claimed 6.0
5. Source of water supply 92' & 198' DEEP WELLS
6. Water to be used for IRRIGATION
- Acres to be irrigated 420
7. Water to be diverted and used in TURNER County
about 3N, 3E Miles 1 of HURLEY
8. Proof of Publication Received 1ST 11-29-77
Not received _____
9. Application Approved _____
Subject to _____
Not approved _____
Action deferred _____

10. Remarks:

3159-33 No 3901-3
 Map No. 3901-3 Water Division No. 3 VERMILLION RIVER District _____
 (Blanks to be filled by the Engineer for the W. P. C.)



APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE—Draw a line through items not applicable)

Adding 1 new well ##### to
 Roger R. Ihnen Irrig. System
 #2661-3 and 1 deeper
 well as replacement.

1. Name of Applicant Roger R. Ihnen
 Postoffice address Hurley State S. D. 57036
 If a corporation show date and place of incorporation n/a
2. Method of accomplishing work (contract, employment, or by direct labor) Contract
3. Name of diversion work Roger R. Ihnen Irrigation System #2661-3
4. Amount of water claimed (cubic feet per second) 6.0
5. Source of water supply 4 wells; 1 deeper replacement well, 1 new well, and 1 proposed well
6. Location of point of diversion 1 well 80 rods E. and 70 rods N. of the SW corner Sec. 8-98-52;
and 1 well 40 rods W. and 65 rods N. of the SE corner of Sec. 7-98-52 and 1 well
(proposed) 75 rods W. and 70 rods S. of the NE corner of Sec. 7-98-52. County Turner
7. Annual period or periods during which water is to be used April - November
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
9. For irrigation use, Total number of acres to be irrigated 420

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
NE 1/4 7-98-52	40	NE 1/4 7-98-52	40
SE 1/4 7-98-52	40	SE 1/4 7-98-52	40
SW 1/4 7-98-52	40	NE 1/4 8-98-52	40
NW 1/4 7-98-52	40	SW 1/4 8-98-52	40

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 years. Additional time required to complete application of water to the proposed beneficial use 3 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication New Era, Parker, S. D. 57053
12. Principal Features of the Proposed Water Supply System.

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

Elec. Pumps

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

Buried Pipeline to C.F.
Flexible Pipe Line to Big Gun Sprinkler on the E 1/2 7-98-52

C. Works proposed to apply water to beneficial use.

1 - C.P. System
1 - Big Gun "

Estimated Total Cost \$ 125,000.00

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of Turner

I, Roger Ihnen the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed Roger IhnenSubscribed and sworn to before me this 15 day of April 19 77

Notary Public (or other qualified officer)

M. J. SOMMERVOLD
 Notary Public, STATE OF SOUTH DAKOTA
 My Commission Expires February 11, 1982

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3901-3

ROGER R. INNEN
(Applicant)

MURLEY
(Post Office Address)

SOUTH DAKOTA 57036
(State) With the following modifications:

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

PORTIONS OF THE LANDS COVERED UNDER THIS PERMIT ARE ALSO COVERED UNDER PERMIT NO 2661-3. COMBINATIONS OF DIVERSIONS UNDER THE TWO PERMITS SHALL NOT EXCEED THE STATUTORY LIMIT OF 10 CFS PER ACRE TO ACRES IRRIGATED.

Date of first receipt of application APRIL 18, 1977

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

Date of receipt of corrected application _____, 19____

Approved MAY 25, 19 77, Recorded in Book 19 Page 206

WATER RIGHT PERMIT NO. 3901-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3901-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is NOVEMBER 29, 1977
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 25, 1977
3. The whole of said work is to be completed on or before MAY 25, 1978
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MAY 25, 1978
5. The water appropriated shall be used for the purpose of IRRIGATION

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 6.0 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MAY 25, 1978; said water to be used during the following described annual period: APRIL - NOVEMBER

Witness my hand this 20TH day of JANUARY, 19 78

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

NOTICE OF WELL CONSTRUCTION

1) WELL CONSTRUCTION

Location of well _____ Section _____ Township _____ Range _____

Well number _____

Date well drilling commenced _____ Period of well _____

WELL LOG

Interval	Depth	Formation
0-5	5	Top Soil
5-25	25	Free Sand
25-35	35	Sand & Gravel
35-50	50	Clay
50-75	75	Gravel
75-110	110	Gravel & Sand
110-140	140	Free Sand
140-200	200	Sand Gravel
200-215	215	Free Sand

Notes: 1. The well was drilled to a depth of 215 feet. 2. The well was cased with 4-inch diameter casing. 3. The well was sealed with cement. 4. The well was tested and found to be a flowing well. 5. The well was installed by the contractor.

So we inform you that the well has been drilled to a depth of 215 feet and is a flowing well.

If a flowing well, flow of water from well _____

Attach sheet if more space is needed

Name of Drilling Contractor _____

(2) PUMP INSTALLATION

Company name and size of pump _____

Type of pump _____ Capacity of installed pump _____

Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required. See Section 40.408 of Chapter 40.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____ tube material _____

Name of Pump Installation Contractor _____

NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION East 1/2 of SE 1/4
 Location of well: _____ 1/4 _____ 1/4 _____ Section 7 Township 98 Range 52

Well owner _____ (Name) _____ (Address)

Date well drilling completed _____ Purpose of well _____ (domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer _____ ft.
<u>0-5</u>	<u>Top Soil</u>	Depth to static water level _____ ft.
<u>5-20</u>	<u>Fine Sand</u>	Name of producing aquifer (if known) _____
<u>20-35</u>	<u>SAND & GRAVEL</u>	Total depth of drill hole _____ ft.
<u>35-50</u>	<u>CLAY</u>	Depth to bottom of casing _____ ft.
<u>50-75</u>	<u>GRAVEL</u>	Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.
<u>75-110</u>	<u>CLAY FINE SAND</u>	
<u>110-140</u>	<u>FINE SAND</u>	
<u>140-200</u>	<u>SAND GRAVEL</u>	
<u>200-215</u>	<u>FINE SAND</u>	
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.
Attach sheet if more space is needed		If a flowing well, flow of completed well _____ G.P.M.

Name of Drilling Contractor _____

(2) PUMP INSTALLATION

Company name and size of pump _____ HP
 Type of pump _____ Capacity of installed pump _____ G.P.M.
 Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____

Name of Pump Installation Contractor _____

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

(1) Drill Hole, Diameter 18", Depth 1 - 198' (on the E1/4 7-98-52)
1 - 92' (on the SW1/4 8-98-52)

(2) Casing, Type Steel Diameter 11" Thickness 1/4"
 (wood, concrete, steel, etc)

(3) Perforated Screen.

Type Both Stainless Steel, Diameter 11", Length 20' on both wells.

(4) Gravel Pack, Thickness 2", Length of gravel pack 180' and 90'

E. Dugout Information or Estimates.

(1) Surface dimensions -, Depth -

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

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

Character of Water bearing materials 2- Copy of log attached.

Depth to top of water bearing material 180' 70' well on SW1/4 8-98-52; 1 well on the E1/4 7-98-52.

Depth to bottom of water bearing material 92' and 198'

Thickness of water bearing material 22' and

Depth to water (ground surface to water level) 30' and 116'

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

On same owner's property 20 rds. On property owned by others 85 rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

n/a

[Signature]
 Signature of Applicant

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



3901-3

NAME Roger R. Ihnen
ADDRESS Harley, S. Dak. 57036
COUNTY Turner

- LEGAL DESCRIPTION 1 well 80 rods E. and 70 rods N. of the SW corner Sec. 8-98-52; 1 well 10 rods W. and 65 rods N. of the SE corner Sec. 7-98-52; and 1 proposed well 75 rods W. and 70 rods S. of the SE corner of Sec. 7-98-52.
1. WELL LOCATION 75 rods W. and 70 rods S. of the SE corner of Sec. 7-98-52.
2. LOCATION OF AREA TO BE IRRIGATED The NE $\frac{1}{4}$ and E $\frac{1}{4}$ SE $\frac{1}{4}$ 7-98-52 and the SW $\frac{1}{4}$ 8-98-52.

- TYPE OF IRRIGATION
3. GRAVITY _____ TOWLINE _____ CENTER PIVOT 1- in
1-Prop. GUN 1
4. CROPS TO BE IRRIGATED Corn, Alfalfa, Soybeans.

- WATER QUALITY
5. SAMPLE NUMBER 77-611
6. SALINITY (EC X 10⁶) 1181 (high)
7. SODIUM (SAR) 0.81
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

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

Roger Ihnen
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
15 DAY OF April 19 77.

BY J. SOMMERVOLD
Notary Public, STATE OF SOUTH DAKOTA
My Commission Expires February 11, 1977
(TITLE OR SEAL)

(SOILS INFORMATION ON REVERSE SIDE)

APPROVED BY COMMISSIONER

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

Submitted by: Roger Ihnen
 Address: Hurley, SD 57036

Date Rec'd: April 19, 1977
 Sample No. 77-611
 Identification Well 198'
SD, Sec. 7, T. 98N, R. 52E

WATER ANALYSIS

Calcium (Ca)	168	ppm*	8.40	me/l**
Magnesium (Mg)	48	ppm	3.94	me/l
Sodium (Na)	46	ppm	2.00	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	367	ppm	7.63	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	6	ppm	0.15	me/l
Bicarbonate (HCO ₃)	381	ppm	6.24	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	312	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1181	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.81			
Sodium	13.79%	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.71			
Others:				

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

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

COMMENTS: Total cations 14.50 me/l
 Total anions 14.02 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$15.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 77-611

Amount Enclosed \$

Signed

April 26, 1977

Mr. Roger R. Ihnen
Hurley, SD 57036

Dear Mr. Ihnen:

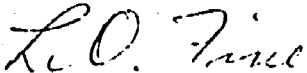
Your water sample (Lab. No. 77-611) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

Your water, as indicated by this analysis, is satisfactory for use on the soils you indicate will be irrigated. If a salt problem or a water table problem should develop, contact extension personnel for assistance.

The WI-1, soils information, and a copy of the water analysis are being forwarded to the State Conservation Commission for their action.

Sincerely yours,



L. C. Fine
Water Quality Lab

LGF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl, Extension Service

P.S. Soil area 12 will give serious problems--water ponding, etc. I recommend you omit that from development.

No. 3901-3

Publish first publication, on or before May 12, 1977

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

April 26, 1977

Notice is hereby given that Roger R. Ihnen

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

6.0 cubic feet of water per second of time from the ground water through the

Roger R. Ihnen # 2661-3, the points of diversion of which are to be located in the

SE $\frac{1}{4}$ SE $\frac{1}{4}$ and NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 7 and near the center of the SW $\frac{1}{4}$

of Section 8, Twp. 98N, Range 52W. Said water to be used for the purpose of providing irrigation on the following described land:

NE $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$, Section 7; SW $\frac{1}{4}$, Section 8, T98N, R52W

This application No. 3901-3 will be considered by the Water Rights Commission at their office at Pierre upon the 25th day of May, 1977, at 10:00 A.M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

**JAMES WINTERTON
Water Rights Specialist**

BFJ/bw

cc: Roger R. Ihnen, Hurley, SD 57036

Affidavit of Publication

STATE OF SOUTH DAKOTA)
) ss.
COUNTY OF TURNER)

Earl J. Bormann

of said County and State, being duly sworn, on his oath says:

THE NEW ERA is a weekly newspaper of general circulation, printed and published in Parker, in Turner County and State of South Dakota by Earl J. Bormann, and has been such a newspaper during the times hereinafter mentioned; that the said newspaper is a legal newspaper, that is has a bonafide circulation of more than 200 copies weekly, that it has been published within said county of Turner in the English language for more than fifty-two successive weeks next prior to the publication of the notice hereinafter mentioned, and has been printed during said period and at the present time, in whole or in part in an office maintained at the said place of publication; and that I, the undersigned, am

owner--manager

of said newspaper, in charge of the advertising department thereof, and have personal knowledge of all facts stated in this affidavit; that the advertisement headed NOTICE OF INTENT TO APPROPRIATE WATER

RE: Ihnen 3901-3 TC S. D.,

a printed copy of which is hereto attached, was printed and published in the said newspaper for two weeks; that said notice was published in the issues of said newspaper on the dates as follows, to-wit:

The first publication being made on Thursday, May 5th 1977;
the second publication on Thursday, May 12th 1977;
the third publication on 19.....;
the fourth publication on 19.....;
the fifth publication on 19.....;
the sixth publication on 19.....;
and the last publication on 19.....;

that \$....., the full amount of the fee charged for publication of the annexed notice, insures solely to the benefit of the publishers of the said newspaper; that no arrangements or understanding for a division thereof has been made with any person, and that no part thereof has been agreed to be paid to any person whomsoever.

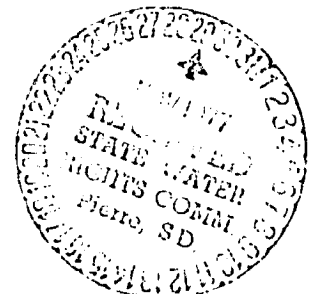
17.36 11 8 pt., less 80%

Subscribed and sworn to before me this 26th day of November 1977

Notary Public, Turner County, South Dakota.

Earl J. Bormann

No. 3901-3
NOTICE OF INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
April 26, 1977
Notice is hereby given that
Roger R. Ihnen, whose post office
address is Hurley, South Dakota,
has made an application in ac-
cordance with the provisions of
the water laws of South Dakota
for a permit to appropriate for
beneficial use 6.0 cubic feet of
water per second of time from
ground water through the Roger
R. Ihnen No. 2661-3, the points
of diversion of which are to be
located in the SE¼ SE¼ and
NE¼ NE¼ of Section 7 and near
the center of the SW¼ of Section
8, Twp. 98N, Range 32W. Said
water to be used for the purposes
of providing irrigation on portions
of the following described land:
NE¼, E¼ SE¼, Section 7;
SW¼ Section 8, Twp. 98N,
R52W.
This application No. 3901-3
will be considered by the Water
Rights Commission at their office
at Pierre upon the 25th day of
May, 1977, at 10:00 A.M. All
interested persons may appear
and be heard.
WATER RIGHTS COMMISSION
By: JAMES WINTERTON
Water Rights Specialist
BFJ/bw
cc: Roger R. Ihnen, Hurley, S. D.
57036.
(2tc6--May 5 & 12, 1977)



Publication Fee \$ 12.46
Notary fee.. .25
Received Payment, 12.71

**South Dakota Department of
Water & Natural Resources**

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

April 6, 1989

2901-3

Roger Ihnen
RR #1 Box 19
Hurley, SD 57036

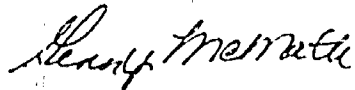
Dear Mr. Ihnen:

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. 3901-3 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, your Water License will be sent to you.

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.



Nov 20, 1987

Dear Sirs:

I'm enclosing
the information you requested
on the well of Roger Turner
of Hurley, S.D. Location: NE 1/4, Sec. 7,
Twp 98N., Rq 52W.

A. County - Turner

B. Type - Irrigation

C. Method of drilling - Bucket Rig

D. Casing - Asbestos Cement

E. 16 inches, 0 ft. to 30 ft

F. Diameter - 16 inches

G. Screen - manufactured

H. Diameter - 16 inches

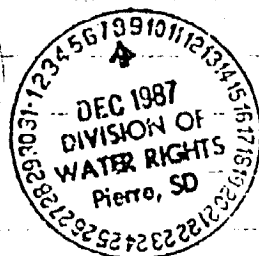
I. Length - 26 feet

J. Material - Asbestos Cement

K. Set from 4 to 30 feet

L. packer - 3/8 pea rock.

We hope this will help!



Sincerely,

Mrs. Peter Reiners

for: Reiners Well Drilling

P.S. Diameter of hole is - 30 inches

SOUTH DAKOTA Department of
Water & Natural Resources

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

December 10, 1987

Reiners Well Drilling
Mrs. Terri Reiners
RR 1, Box 16
Hurley, SD 57036

Dear Mrs. Reiners:

Thank you for the well log information concerning Roger Ihnen's irrigation well. The well information is greatly appreciated.

Sincerely,



David S. Brown
Natural Resources Engineer
DWR, Division of Water Rights
605 773-3352

POST-Kwik FOLDER

AVAILABLE FROM
BUSINESS ENVELOPE MANUFACTURERS, INC.
BROOKLYN, N.Y. • CLINTON, TENN.
MELROSE PARK, ILL. • ANAHEIM, CALIF.

Barton Jones
Water Resources Commission
Pierre, S. Dak.

GETTING INDUSTRIES, INC.
4701 N. CLIFF
SIOUX FALLS, S. DAK. 57104

Ray Shown Water Permit.

2/10/71

FOLD → Dear Barton

On the Ray Shown water permit issued in May, instead of one point of diversion, there are two. The ~~one~~ new (second) point of diversion is located center SW 1/4 of Sec 8 T-98-N-R-55-W. The well is 92' feet deep. A copy of the test log is enclosed.

Sincerely

Bob Jensen

SIGNED



AVAILABLE FROM BUSINESS ENVELOPE MANUFACTURERS, INC.

BROOKLYN, N.Y. • CLINTON, TENN. • MELROSE PARK, ILL. • ANAHEIM, CALIF.

LOT - 5-3776

4701 N. Cliff
SIOUX FALLS, S. DAK. 57104

Phone 605 330-1230

567-52

Prüfung

10 Miss Elizabeth Chen
New York

Cooking and Dressing

218-1145

TEL 177655

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0405217 1405217 1405217

NO.	NAME, LOCATION
3-11-42	

Depth	Soil	Notes
0-10	Gravel	135 160
10-15	Gravel	140 165
15-20	Gravel	145 170
20-25	Clay	150 175
25-30	Clay	155 180
30-35	Gravel	160 185
35-40	Clay	165 190
40-45	Clay	170 195
45-50	Clay	175 200
50-55	Clay	180 205
55-60	Clay	185 210
60-65	Clay	190 215
65-70	Clay	195 220
70-75	Gravel	200 225
75-80	Gravel	205 230
80-85	Gravel	210 235
85-90	Gravel	215 240
90-95	Gravel	220 245
95-100	Gravel	225 250
100-105	Gravel	230 255
105-110	Gravel	235 260
110-115	Gravel	240 265
115-120	Gravel	245 270
120-125	Gravel	250 275
125-130	Gravel	255 280
130-135	Gravel	260 285
135-140	Gravel	265 290
140-145	Gravel	270 295
145-150	Gravel	275 300

RECEIPT OF WORK				
LABOR	HOURS	RATE	AMOUNT	TOTAL MATERIAL
				TOTAL LABOR
WORK ORDERED BY		DATE COMPLETED		TAX

SIGNATURE: *Thom Sybil*

PAYING AMOUNT: \$

Thank You!
PAY THIS AMOUNT →

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, April 12, 1929

RECEIVED OF Roger Ihnen, Rt 1, Box 19, Hurley SD 57036

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>3901-3</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 Hatch
Chief Engineer **JOHN HATCH**

(KS)

Water Rights Division - DWR
Conversation or File Documentation

File No. 3901-3
2661-3

NAME OF PERSON OR FILE: Roger Thuen

ADDRESS: Hurley, SD 57036 COUNTY Tanner

DATE: June 16, 1988 TELEPHONE 238-5547

RE: Cancellation of Water Permit #2661-3 due to abandonment/Forfeiture

COMMENTS:

On June 16, 1988, I talked with Roger Thuen by telephone concerning water Permit # 2661-3 and # 3901-3. The irrigation well drilled under Permit # 2661-3 (shallow well, 45'-50' deep) was used to irrigate 55 acres of land in the SE 1/4 of Section 7, T98N R52W. However, this shallow well has not been used since before June 19, 1981 (time that Burton Jones made a preliminary inspection of the irrigation system).

A deeper (198' deep) replacement well was drilled under Permit # 3901-3. The replacement well has a priority date of November 29, 1977 and is used to irrigate the SE 1/4 of Section 7, T98N R52W.

Since the shallow well drilled under Permit # 2661-3 has not been used since before 1981, water Permit # 2661-3 is subject to cancellation due to abandonment/forfeiture.

Water Permit # 3901-3 can be licensed to cover land that was previously irrigated under water Permit # 2661-3. The license would have a priority date of November 29, 1977.

Mr. Thuen did not express opposition to cancelling water Permit # 2661-3 as long as water Permit # 3901-3 was licensed.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

4/82

NAME: Daniel S. Brown

Permit No. 3701-3Vonnelliers 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 Roger Ihnen
 of Rt 1, Box 19 Hurley SD 57036 holder of
 Permit No. 3701-3, bearing the priority of Number 29 1977 authorizing
 the diversion of 6.0 cu. ft. per second of the waters of Groundwater
 for irrigation purposes, in Turner County.

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

- A. Works used to divert the water:
 SEV4, sec. 7, replacement well, 198' well, 14" steel casing, 20' ss screens, 8" Powerless Pump #0176E456,
 500 GPM, powered by Chrysler prop pump motor (413), 20 HP
 NEV4, sec. 7, 30' well, 16" Asbestos Cement casing, 20' of unmanufactured asbestos cement screens, Berkley Construction
 Pump, 500 GPM, serial # 7477507, model B33 QBM, Powered by John Deere diesel motor, 324 cu. in., 20-HP
 SW4, sec. 8, 92' well, 14" steel casing, 20' ss screens, 8" National Pump, 900 GPM, Model 16X18, Powered by
 730 Case Motor, 20 HP, serial # 2225 487
- B. Works used to transport water to place of use:
 SEV4 sec. 7, 370 feet of 6 inch aluminum pipe
 NEV4 sec. 7, 1600 feet of 8 inch aluminum pipe
 SW4 sec. 8, 10 feet of 8 inch aluminum pipe
- C. Works used to apply water to beneficial use:
 SEV4 sec. 7, AS Rain Big Wheel, Big Gun P200, Serial # CWSB1133E, 1150 feet of 4 1/4" hose, operated at 135 psi, 500 GPM
 NEV4 sec. 7, AS Rain Big Wheel, Nelson 200 Gun, 660 feet of 4 1/4" hose, towed by 135' cable, 500 GPM
 SW4 sec. 8, Valley center pivot with Center System, 9 towers, 900 GPM

The system is in the following condition Good

The point of diversion is located are at a point 1,360 feet south and 1,280 feet east of the center of Section 7,
 T98N R50W; at a point 1,570 feet north and 1,160 feet east of the center of Section 7, T98N R50W; and at a
 point 1,260 feet south and 1,430 feet west of the center of Section 8, T98N R50W

The works are capable of diverting and conveying to the place of use

cu. ft. per second of water which is to be used for irrigationWater has been put to beneficial use to the maximum extent as follows: all in T98N R50W

35 acres in the SEV4/SEV4 Sec. 7;	30 acres in the SEV4/NEV4 Sec. 7;	37 acres in the SEV4/SW4 Sec. 8
20 acres in the NEV4/SEV4 Sec. 7;	28 acres in the NEV4/NEV4 Sec. 7;	38 acres in the NEV4/SW4 Sec. 8
	27 acres in the NW4/NEV4 Sec. 7;	36 acres in the NW4/SW4 Sec. 8
	23 acres in the SW4/NEV4 Sec. 7;	37 acres in the SW4/SW4 Sec. 8

comprising a total of 311 acres of land and the license should be issued for 4.23 cfsApplicable permit qualifications have been complied with ☒ Yes ☐ NoExceptions to compliance are: _____ Date March 11, 1987

Daniel J. Berger
 (signature)

LICENSE FOR PERMIT NUMBER 3701-3 2.661-3 Reg. - ILLINOIS

1. Legal location of wells: at a point 1,360 Feet south and 1,880 Feet east of the center of Section 7, T9N R5W at a point 1,570 Feet south and 1,110 Feet east of the center of Section 7, T9N R5W at a point 1,320 Feet south and 1,430 Feet west of the center of Section 8, T9N R5W

2. Well Information: Well Drilling Firm Gelling Industries, Inc. (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)

No. of wells 3

Depth 178' 4' 72'

Casing a) diameter 14" 16" 14"
b) length 178' 4' 72'
c) type Steel Asbestos Steel

Screen a) type SS Asbestos SS
b) length 20' 26' 20'

Pumps a) make Pawless Berkley Industrial
b) model 163708M 16 X 8
c) size PTD 74 77507 5 inch
d) capacity 500 500 900 GPM
e) turbine pump
no. of stages - - -

Static Water Level
Motor a) make Chrysler John Deere Cummins
b) model no. 4131 339 103 930
c) horsepower rating 100 75 100
d) motor efficiency rating

3. Distribution lines:
a) size of lines 6 inch 8 inch 8 inch
b) type Aluminum Aluminum Aluminum
c) length 390 feet 1600 feet 10 feet

4. Dam information:
a) height to crest _____
b) height to spillway _____
c) crest width _____
d) crest length _____
e) spillway length _____
f) spillway width _____
g) approx. storage _____
h) Distribution lines or canals:
1) size _____
2) type _____
3) length _____

i) Outlet tubes:
1) diameter _____
2) type _____
3) valued (Y/N) _____
4) valve type _____
5) location on structure _____

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 _____

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

5. System Type: c) center pivot

- 1) make Valley
- 2) number of towers 9 w/center system
- 3) distance between towers _____
- 4) overall length 1,320 feet
- 5) End gun (Y/N) Y
- 6) high or low pressure _____
- 7) make & size of nozzles _____
- 8) PSI reading while system is running _____
- 9) GPM 900

d) Gate Pipe

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

e) Siphons

- 1) number _____
- 2) size _____

f) Portable boom

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____

g) Gun

- 1) make 8.5 G412 NEV4 SEC. 7
- 2) serial number 11336
- 3) nozzle size _____
- 4) capacity (GPM) 500 500
- 5) PSI 135
- 6) hose size 4 1/4" hose 4 1/4" hose
- 7) hose length 1150 feet 460 feet towed by 1350 foot cable
- 8) Big wheel Type NRW NRW

h) Hydromatic

- 1) make _____
- 2) model _____
- 3) serial number _____
- 4) length _____
- 5) nozzle size _____
- 6) spacing _____
- 7) PSI _____
- 8) capacity (GPM) _____

YES

NO

Check Items

1. Soil and water permit lands agree with lands being irrigated and lands listed on permit. ☒ YES ☐ NO
2. Special Qualifications to permit being abided by. ☒ YES ☐ NO
3. All Structures, wells and lands on map. ☒ YES ☐ NO

REMARKS:

~~Incorporate permits # 2661-3 and 3701-3.
On November 14, 1957, talked with Agent Allen by telephone who said only land even irrigated under permit # 2661-3 was the E 1/2 SE 1/4, SEC. 7, T98N, R5W. Hence, permit # 2661-3 lands which have no valid priority date are in E 1/2 SE 1/4, SEC. 7, T98N, R5W.~~

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 3901-3

(1) Roger R. Ihnen of RR #1 Box 19, Hurley, South Dakota 57036 made Application No. 3901-3, April 18, 1977 for a water permit to appropriate 6.0 cubic feet of water per second from groundwater, Turner County, South Dakota for irrigation purposes. Permit No. 3901-3 with a priority date of November 29, 1977 was approved May 25, 1977 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before May 25, 1978 and for the application to beneficial use of said water on or before May 25, 1978.

(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 4.23 cubic feet of water per second for beneficial use. The location of the diversion points are: 1) 1360 feet south and 1880 feet east of the center of Section 7; 2) 1570 feet north and 1180 feet east of the center of Section 7; 3) 1260 feet south and 1430 feet west of the center of Section 8; all in T98N-R52W.

(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:

T98N-R52W Section 7	SE1/4	SE1/4	35	acres
	NE1/4	SE1/4	20	"
	SE1/4	NE1/4	30	"
	NE1/4	NE1/4	28	"
	NW1/4	NE1/4	27	"
	SW1/4	NE1/4	23	"
Section 8	SE1/4	SW1/4	37	"
	NE1/4	SW1/4	38	"
	NW1/4	SW1/4	36	"
	SW1/4	SW1/4	37	"
			Total	311 acres

(4) Pursuant to Section 46-5-30.1 Roger R. Ihnen of RR #1 Box 19, Hurley, South Dakota 57036 the holder(s) and/or owner(s) of Water Permit No. 3901-3 is issued a license to appropriate water, the right to use 4.23 cubic feet of water per second from groundwater (three wells) with a priority date of November 29, 1977 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. 3901-3 and subject to South Dakota State Law.


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

SEP 14 1989

 **Department of
Water & Natural Resources**

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

3901-3

SEP 14 1989

Roger R. Ihnen
RR #1 Box 19
Hurley, SD 57036

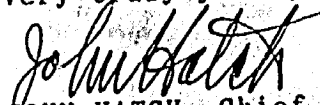
Dear Mr. Ihnen:

Enclosed is Water License No. 3901-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 411744 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. 3901-3, 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,



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

enclosures

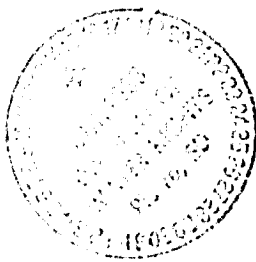


June 11, 1993

3901-3

Enclosed is the copy
of the permit with the
original exhibit. The
copy is included in
the file no. 3901-3. So
that if necessary
you can refer to the permit with
the exhibit.

Sincerely,
Roger Johnson
R. Johnson
Husky 1051036



3901-3

STATE OF ILLINOIS

DEPARTMENT OF LAND

Water Rights
and Groundwater
Permit No. 1977 was approved May 1977 for the use of water with the intent to be completed for beneficial

applied with the
to completion of
is entitled to
beneficial use.
1260 feet south and
1270 feet north and
1260 feet south
1988 R52W.

South
water to

RR 11, Box
of
appropriate water,
second from
November 29,
The
of
This license is
water
state law.

Chief Engineer
Water Rights Division
Illinois Department of Land



3901-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 22, 2005

Roger Ihnen
Box 213
Lennox SD 57039

Dear Mr. Ihnen:

I am writing in regard to a well driller's report filed by Hammond-Wetmore Drilling. The report shows a new well was completed for irrigation use on June 20, 2004. The report indicates the new well is located in the SW ¼ SW ¼ Section 8-T98N-R52W. I have reviewed our files and cannot find a water permit for this well location.

Please let us know the status of this well. If necessary, enclosed are application forms and instruction sheet to apply for a water permit. The completed forms with the application fee and map can be returned to: Water Rights Program, 523 E. Capitol, Pierre SD 57501.

If you have any questions, please contact me at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
karen.schlaak@state.sd.us

enclosures

Water Rights Program - File Documentation

NAME: Roger Ihnen

ADDRESS: Lennox SD

DATE: 3-1-05 **COUNTY:** TU **TELEPHONE:**

RE: Well Completion Report

COMMENTS:

Roger Ihnen called concerning my letter dated 2-22-05. Mr. Ihnen stated the well completion report was for a replacement well for one of the three wells authorized by Water Right No. 3901-3. The new well was drilled approximately 10 feet from the old well in the approximate center of SW ¼ Section 8-T98N-R52W. They are not appropriating any additional water.



Karen Schlaak
Environmental Scientist

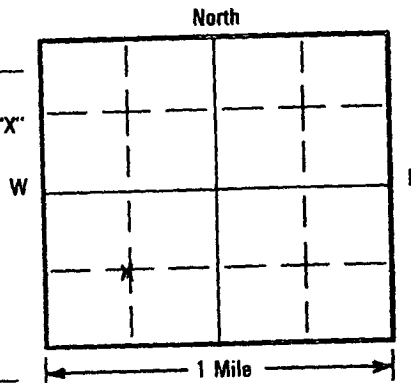
SOUTH DAKOTA WATER WELL COMPLETION REPORT

3901-3 07-92

Location SW 1/4 SW 1/4 Sec 8 Twp 98N Rg 52W

County Turner

Please mark well location with an "X"



Well Completion Date

6-20-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, road lot, etc.)? 200 ft. from Abandoned well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

casing DATA: ☐ Steel ☒ Plastic ☐ Other

Other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>R21 LB/FT</u>	<u>16 IN</u>	<u>0 FT</u>	<u>180 FT</u>	<u>24 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>GR</u>	<u>60</u>	<u>210 lb./gal</u>	<u>20 ft</u>	<u>180 ft</u>
<u>GR</u>	<u>37</u>	<u>214 lb./gal</u>	<u>0 ft</u>	<u>20 ft</u>

Describe grouting procedure Tremie

SCREEN: ☒ Perforated pipe ☐ Manufactured

Diameter 16 IN Length 37 FEET

Material PVC

Slot Size .060 Set From 180 Feet to 217 Feet

Other information _____

HAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: Chlorine Soln.

☐ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Roger IHNEN

Business Name: _____

Address: Box 213
LENNIX SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Silt, Brown, Clayey</u>	<u>0</u>	<u>12</u>
<u>GRAVEL, med-coarse</u>	<u>12</u>	<u>16</u>
<u>Clay, GRAY, pebbly</u>	<u>16</u>	<u>68</u>
<u>GRAVEL, med-coarse</u>	<u>68</u>	<u>85</u>
<u>Clay, GRAY, pebbly</u>	<u>85</u>	<u>120</u>
<u>Sand, fine to medium</u>	<u>120</u>	<u>174</u>
<u>GRAVEL, med-coarse, sandy</u>	<u>174</u>	<u>214</u>
<u>Boulders</u>	<u>214</u>	<u>215</u>

STATIC WATER LEVEL 32 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

41 ft. After 12 Hrs. pumped 1000 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 800 GPM

REMARKS

This well was drilled under license # 666

And this report is true and accurate.

Drilling firm HAMMOND Wetmore Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

RECEIVED

JAN 31 2005

WATER RIGHTS PROGRAM

98-52

52.3
124.7
T-1438
MT-2907

61.3
72.4
T-1439
MT-2907

48.6
106.4
T-1454
27 acres
1,180 Feet
New well
28 acres

13R

Water Permit
#3901-3

1,570 Feet

23 acres

30 acres

7

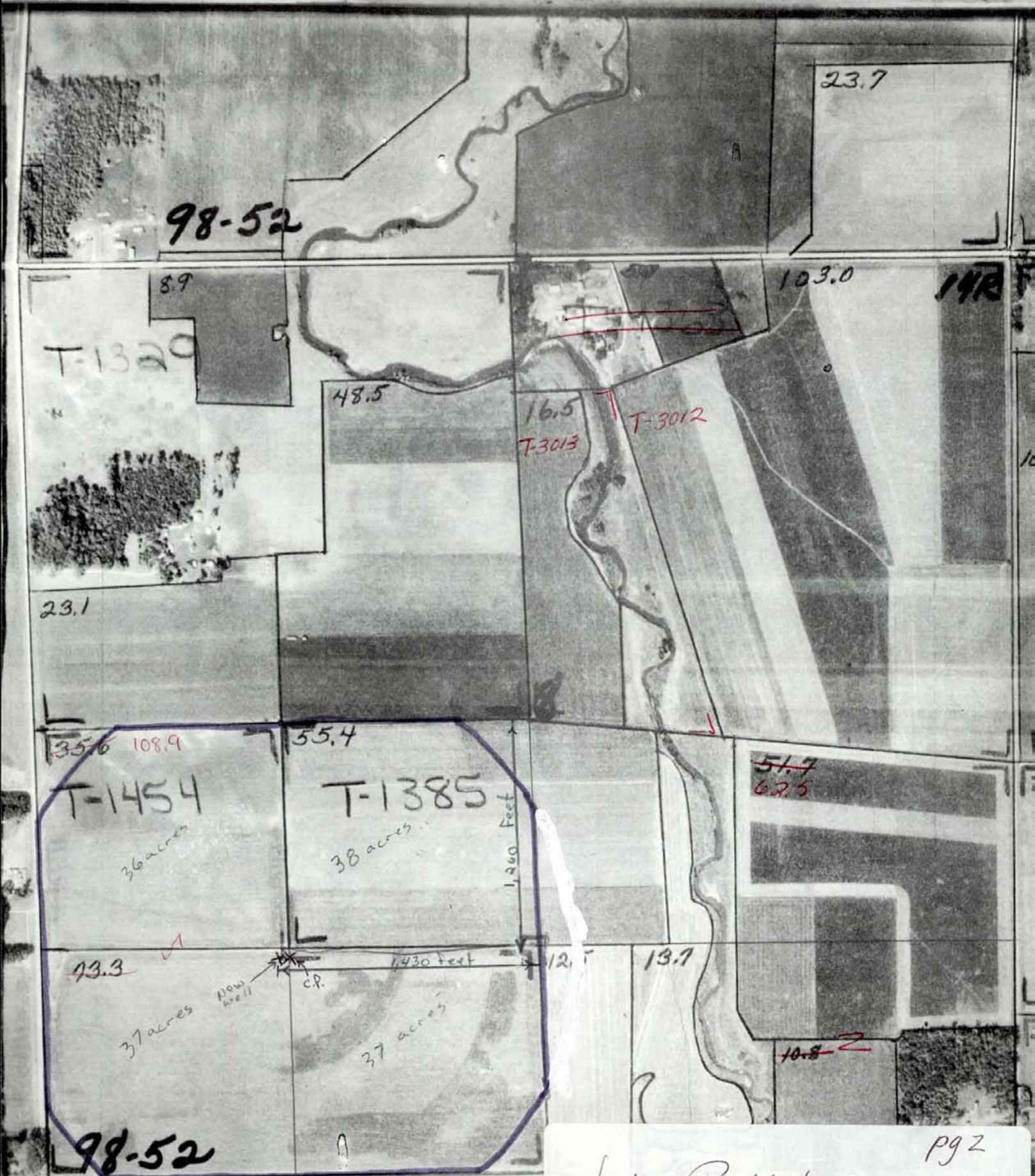
109.8
T-1433

49.6
46.9
T-1451
20 acres
1,785 Feet old well
New well
35 acres

Prepared by David Brown
D.S.B.
Natural Resources Engineer
November 18, 1987

Pg 1

NOT TO SCALE



Water Right No. 3901-3 Pg 2

(See Pg. 2 also)

Roger R. Ihnen, Owner
Hurley, SD 57036

R. 52 W.

57.3

44.0

3-9

Area To Be Irrigated:

NE $\frac{1}{4}$ and E $\frac{1}{2}$ SE $\frac{1}{4}$ 7-98-52 &
SW $\frac{1}{4}$ 8-98-52 - 420 ac. (more or less)

T. 98 N.

PROPOSED IRRIG.
WELL #3

1
OLD
(SHALLOW)
WELL

#2
NEW
DREPER
WELL

TO NEW
DREPS
WELL
BO RDS 324

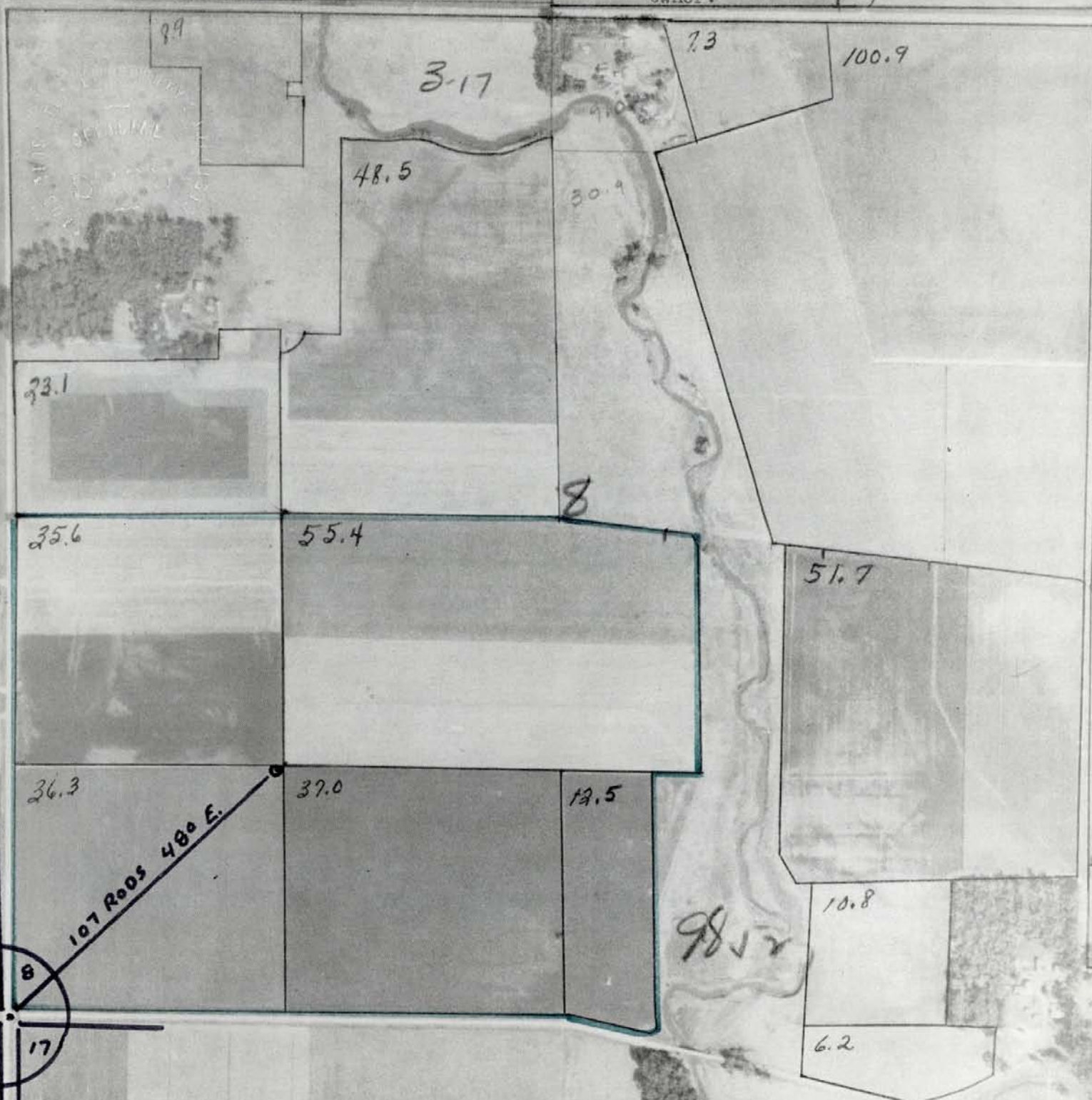
98-52

N

NOT TO SCALE

Pg. 2
(See Pg. 1 Also)

9852
ROGER R. IHEN IRRIG. SYSTEM #2661-3
Roger R. Ihnen, Hurley, S. D. 57036
Owner.



NOT TO SCALE



NOT TO SCALE

98-52

8.9 8.9

6.9

103.0

48.5

16.5

23.1

35.6

55.4

51.7

13.3

12.5

13.7

10.8

98-52

10.2

3901-3
(MORE IN
SEC 7)

2771-3

