

1. Considered 3-17, 1976 2574.3
2. Name of Applicant LOWELL C. RISTENSEN
3. Post Office Address FLANDREAU
4. Amount of water claimed 2.1
5. Source of water supply GROUND WATER (40' WELL.)
6. Water to be used for IRRIGATION
Acres to be irrigated 148
7. Water to be diverted and used in MOODY county
about 85.12 E miles of BROOKINGS
8. Proof of Publication Received 3-15-76
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____

10. Remarks:

Map No. 1943-B Water Division No. 3 BIG SIOUX RIVER District 1
 (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)

1. Name of Applicant Lowell Christensen
 Postoffice address Flonville State South Dakota - 57028
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract & Direct Labor
3. Name of diversion work Low River So. Farms Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.1
5. Source of water supply well
6. Location of point of diversion 1580' N 121° W of NE corner of Sec 5-108-47
7. Annual period or periods during which water is to be used County: Meade April through October
8. Use to be made of water. (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
9. For irrigation use. Total number of acres to be irrigated 148

* 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.
NW 1/4 of NW 1/4 Sec 5-108-47	9	NW 1/4 of NE 1/4 Sec 5-108-47	8
SW 1/4 " " " "	23	NE 1/4 " " " "	10
SE 1/4 " " " "	20	SW 1/4 " " " "	39
		SE 1/4 " " " "	39

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Five years. Additional time required to complete application of water to the proposed beneficial use three years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication. Meade County Enterprise
12. Principal Features of the Proposed Water Supply System.

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

well with deep well turbine

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

closed conduit pipe

C. Works proposed to apply water to beneficial use.

Center Pivot Stand linesEstimated Total Cost \$ 40,000
 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 Brockings) ss.I, Lowell Christensen 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 constructionSigned Lowell Christensen* Legal Description Subscribed and sworn to before me this 14 day of Feb 1976N 1/2 Sec 5-108-47 & lots 1, 2, 3 & 4John J. Lawrence
Notary Public (or other qualified officer)

F1 1976

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2574-3
LOWELL CHRISTENSEN FLANDREAU
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57088 With the following modifications:
 (State)

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

Date of first receipt of application FEBRUARY 23 1976
 Date of return to applicant for correction, amendments or changes required — 19—
 Date of receipt of corrected application FEBRUARY 27 1976
 Approved MARCH 17 1976, Recorded in Book 15 Page 1

WATER RIGHT PERMIT NO. 2574-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2574-3 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 a plicant may claim right is FEBRUARY 23 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17 1978
3. The whole of said work is to be completed on or before MARCH 17 1981
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17 1984
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 2.1 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 17 1984; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 23RD day of MARCH 1976

WATER RIGHTS COMMISSION

By:

John H. Hark
 Chief Engineer, Executive Officer

Certificate of Construction Issued — 19—

Water License Issued — 19—

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

D. Well Information or Estimates

(1) Drill Hole, Diameter 2 1/2", Depth 40'
 (2) Casing, Type Steel Diameter 1 1/2" Thickness 3/16"
 (wood, concrete, steel, etc.)
 (3) Perforated Screen.
 Type Continuous Split, Diameter 1 1/2", Length 10'
 (4) Gravel Pack, Thickness 5", Length of gravel pack 20'

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 0' to 15' - overburden
15' to 40' mixed sand & gravel, clay
below 40' deep

Depth to top of water bearing material 15'
 Depth to bottom of water bearing material 40'
 Thickness of water bearing material 25'
 Depth to water (ground surface to water level) 15'

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

On same owner's property 90 rds. On property owned by others 90 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.

Leslie Chisholm
 Signature of Applicant

February 23, 1976

Mr. Lowell Christensen
R.R. #2
Flandreau, SD 57028

Dear Mr. Christensen:

Your WI-1 form to Low Ron Seo Farms and the copy of this analysis, plus a copy of this letter are being sent to the State Conservation Commission.

I am enclosing for your use and keeping the original copies of the report of analysis for water sample #76-095, submitted here about a week ago, and a copy of extension circular 654. On the outside back cover of this circular, I have plotted the approximate quality of this water for irrigation purposes by means of a red cross in the diagram. You will see that it is in the medium salinity, low sodium category.

This means that there is practically no hazard from either sodium build-up in the soil or salt accumulation as a result of the use of this water under any normal circumstances. However, as you are already aware, the soils in area marked 2F2W3 are not suitable for irrigation and I note that you intend to leave it out of any irrigation considerations. There should be no problem with the use of this water if you do not try to irrigate this wet lowland in the center of the area.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Fahl

Jerry Mach, County Extension Agent



CONSERVATION
COMMISSION
FORM W1 #1

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

NAME Low Ron See Farms - Lowell Christensen
ADDRESS Flanary Ave S Dakota - 57028
COUNTY Moody

LEGAL DESCRIPTION

1. WELL LOCATION Center of 4th of NE⁴ Sec 5 - 108 - 47
2. LOCATION OF AREA TO BE IRRIGATED N² Sec 5 - 108 - 47 & Lots 1, 2, 3 & 4 except bottom land

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE ☒ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED Corn, beans & alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-095
6. SALINITY (EC X 10⁶) 601 (medium)
7. SODIUM (SAR) 0.10 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from _____ 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.

Lowell Christensen
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
14 DAY OF Feb 19 76.

John S. Williams
(TITLE OR SEAL)

Albert S. Williams
APPROVED BY _____

(SOILS INFORMATION ON REVERSE SIDE)

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

Submitted by: Lowell Christensen Date Rec'd February 13, 1976
 Address Box 2 Sample No. 76-095
Flandreau, SD 57028 Identification Well-40'
NE, Sec. 5, T 108N, R 47E

WATER ANALYSIS

Calcium (Ca)	100	ppm*	5.00	me/l**
Magnesium (Mg)	28	ppm	2.30	me/l
Sodium (Na)	4	ppm	0.20	me/l
Potassium (K)	2	ppm	0.04	me/l
Sulfate (SO ₄)	40	ppm	0.82	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	4	ppm	0.13	me/l
Bicarbonate (HCO ₃)	268	ppm	4.40	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)	220	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	601	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.10			
Sodium	2.65%	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.40			

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 7.54 me/l
 Total anions 5.35 me/l

By: Shirley Kitten

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-095

Amount Enclosed \$

Signed

Form 6 - Notice of Intent to Appropriate Water

No. 2574-3

Publish first publication, on or before March 4, 19 76

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

March 1, 19 76

Notice is hereby given that Lowell Christensen
whose post office address is Flandreau, South Dakota, has made an application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
2.1 cubic feet of water per second of time from the ground water through the
Low Ron Sco No. 1, the point of diversion of which is to be located in the _____

_____ Center of the S $\frac{1}{2}$, NE $\frac{1}{4}$
of Section 5, Twp. 108N, Range 47W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:
N $\frac{1}{2}$, Section 5, T108N, R47W

This application No. 2574-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 17th day of March, 19 76, at 1:00 P.M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Lowell Christensen
Flandreau, SD 57028

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Moody) ss.

I, Dorothy M. Lyford, bkkr. hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Moody County Enterprise

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

March 3, 1976

March 10, 1976

Dorothy M. Lyford
(Signature)

Bookkeeper

(Title)

March 10, 1976

(Date Signed)

NOTICE

INTENT TO APPROPRIATE WATER

Notice is hereby given that Lowell Christensen whose post office address is Flandreau, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 2.1 cubic feet of water per second of time from the ground water through the Low Ron Sco No. 1, the point of diversion of which is to be located in the Center of the S¹/₂, NE¹/₄, of Section 5, Twp. 108N, Range, 47W. Said water to be used for the purpose of providing irrigation on portions of the following described land: N¹/₂, Section 5, T106N, R47W.

This application No. 2574-3 will be considered by the Water Rights Commission at their office at Pierre upon the 17th day of March, 1976, at 1:00 P.M. All interested persons may appear and be heard.

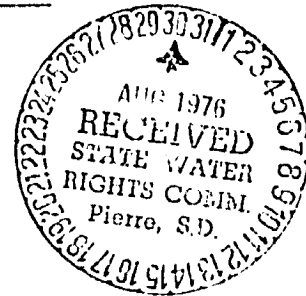
WATER RESOURCES COMMISSION

By: Burton F. Jones
Water Rights Specialist
(March 3-10)



Form 10.

No. 2574-3



NOTICE OF COMPLETION OF WORKS AND/OR APPLICATION OF WATER TO BENEFICIAL USE
DEPARTMENT OF NATURAL RESOURCE DEVELOPMENT
DIVISION OF WATER RIGHTS
JOE FOSS BUILDING
PIERRE, SOUTH DAKOTA 57501

Post Office Flandreau
Date Aug 26, 1976

TO: Water Resources Commission
State Office Building No. 2
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 the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 2574-3.

Water Right Permit No. 2574-3 states that the diversion system is to be constructed by Sept 17, 1978 and that the water is to be put to beneficial use by Mar 5, 1981.

The diversion system was completed on July, 1976. Applying the water to beneficial use was completed on July, 1976.

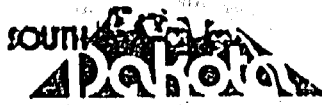
You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Lowell Chelmer
(Signature)

2514-3 Lowell Christmas.

5-17-78 Well. depth 53 ft, well left to
waste, capacity about 500 gpm.
Pump 850 gpm. 450 ft supply.

Wells C.P. swings down then via Ryd.
by ex. Touch N.E. Road and down
walk to van Ryd.



2574-3

Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
January 29, 1988

LOWELL CHRISTENSEN-OPER
BOX 855
TRENT, SD 57065

NOTICE

Re: Violation of Water Permit No(s). 3496-3 and 1987 Irrigation Questionnaire Requirements

Our records indicate that the 1987 Irrigation Questionnaire has not been submitted for Permit No(s). 3496-3. The request for the questionnaire was dated October 8, 1987. The Water Management Board has directed that owners of water permits who have not submitted 1987 Irrigation Questionnaires be given notice of permit violation and of hearing(s) before the Board. The hearing(s) will be held to determine action to be taken by the Board for violation of Water Permit No(s). 3496-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will also be to determine if Permit No(s) 2574-3 should be amended with the qualification to require the Questionnaire to be submitted each year.

The hearing(s) will be at 9:00 am, March 2, 1988, in Room 216, Joe Foss Building, 523 E Capitol, Pierre, South Dakota.

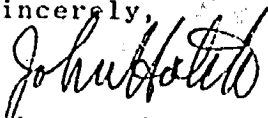
The hearing(s) will be conducted pursuant to the provisions of SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11, and 46-2-17. These are contested case hearings pursuant to procedures contained in SDCL 1-26.

Following the hearing(s), the Water Management Board can:

1. Suspend Permit No(s). 3496-3 until either the 1987 Questionnaire is submitted or for the period of up to one year;
2. Amend Permit No(s) 2574-3 also held by LOWELL CHRISTENSEN-OPER to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action;
4. Take no action.

The hearing(s) is an adversary proceeding. The permit owner 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.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Hatch".

John Hatch, Chief Engineer
Water Rights Division

Note: If the questionnaire(s) are received in this office before the March 2 hearing date, you will no longer be in violation of your permit(s) and your name will be deleted from the agenda pertaining to these hearings.

cc: Mrs. Bert Van Dyke, Elkton, SD 57026

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

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

February 18, 1988

3496-3

2574-3

Lowell Christensen, Operator
Box 855
Trent SD 57065

Dear Mr. Christensen::

I am writing to acknowledge receipt of your 1987 Irrigation Questionnaire(s). A notice was sent to you January 29, 1988 regarding the requirement to submit the Irrigation Questionnaire(s) for Water Permit No. 3496-3, 2574-3 and the hearing date before the Water Management Board.

Since your questionnaire was received prior to the March 2, 1988 Water Management Board Meeting, your name has been deleted from the Board Meeting agenda. If you have any questions, please contact us.

Very truly yours,



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

cc: Mrs. Bert Van Dyke
RR 1, Box 92
Elkton SD 57025



Department of Water & Natural Resources

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

February 17, 1989

Lowell Christensen - Operator
Box 855
Trent, SD 57065

Dear Mr. Christensen:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;

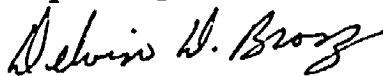


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,



for JOHN HATCH, Chief Engineer
Water Rights Division

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 2574-3

(1) Lowell Christensen, Box 855, Trent SD 57065 made Application No. 2574-3, February 23, 1976 for a water permit to divert 2.1 cubic feet of water per second from groundwater (one well), Moody County, South Dakota for irrigation purposes. Permit No. 2574-3, with a priority date of February 23, 1976 was approved March 17, 1976 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 17, 1981 and for the application to beneficial use of said water on or before March 17, 1984.

An investigation conducted for licensing purposes found the well authorized under No. 2574-3 was not in the location authorized by the permit. Pursuant to SDCL 46-5-13.1, the Chief Engineer makes a finding that the change in the location of the well does not increase the potential for interference with existing diversions in the area.

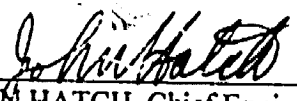
(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.31 cubic feet of water per second for beneficial use. The location of the diversion point is 1.225 feet south and 1.475 feet west from the northeast corner of Section 5-T108N-R47W (SW 1/4 NE 1/4).

(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:

Section 5-T108N-R47W	NE 1/4 NE 1/4	8 acres
	NW 1/4 NE 1/4	8 acres
	SW 1/4 NE 1/4	39 acres
	SE 1/4 NE 1/4	37 acres
Total		92 acres

Water Right Nos. 2574-3 and 3496-3 share a common diversion point and irrigation equipment.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Lowell Christensen, Box 855, Trent SD 57065 the holder and/or owner of Water Permit No. 2574-3 is issued a license to appropriate water, the right to use 1.31 cubic feet of water per second from groundwater (one well) with a priority date of February 23, 1976 from the location specified in (2) of this license. The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 2574-3 and subject to South Dakota State Law.


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

OCT 1 1996
date



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

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

Motor:

- 1) Make US Electrical
- 2) Frame No. 365TP
- 3) Horsepower rating 75 hp

1) Type Aluminum 2) Size 8 inches 3) Length 120 feet

Center Pivot:

- Center Pivot:**
- 1) Make **Reinke**
 - 2) Number of towers **8**
 - 3) End gun **Y**
 - 4) High or low pressure **50 psi**
 - 5) Capacity **650** GPM

The system is in the following condition good. The point of diversion is located 1,225 feet S and 1,475 feet W from the NE corner section 5-T108N-R47W (SW¼NE¼). The works are capable of diverting and conveying to the place of use 1.45 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 5-T108N-R47W:

NE $\frac{1}{4}$ NE $\frac{1}{4}$	8 ac	SW $\frac{1}{4}$ NE $\frac{1}{4}$	39 ac
NW $\frac{1}{4}$ NE $\frac{1}{4}$	8 ac	SE $\frac{1}{4}$ NE $\frac{1}{4}$	37 ac

comprising a total of **92** acres of land and the license should be issued for **1.31** cfs.

Applicable permit qualifications have been complied with: Yes ☒ No ☐

Exceptions to compliance are: **none** Date report completed: **July 29, 1996**

**Natural Resources Engineer
DENR, Water Rights Program**

The diversion point is near the location listed on the permit application and map. However, the location was not correct in the publication. The location can be corrected pursuant to SDCL 46-5-13.1 without application or readvertising.

FIELD INVESTIGATION REPORT FOR PERMIT NO. 2574-3

DATE OF INVESTIGATION:	June 11, 1996
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Lowell Christensen
NAME & ADDRESS OF PERMIT HOLDER	Lowell Christensen Box 855 Trent SD 57065
DIVERSION POINT LEGAL LOCATION	1,225 feet S and 1,475 feet W from the NE corner section 5-T108N-R47W (SW $\frac{1}{4}$ NE $\frac{1}{4}$)

Other permit(s) associated with the project: 3496-3 (common diversion w/2574-3)

WELL INFORMATION:

1) Well Drilling Firm: Lacey Drilling

Screen:

2) No. of Wells 1

1) Type Johnson

3) Depth(s) 53 feet

2) Length 20 feet

4) Well log is available Y

3) Static water level 19 feet

Casing:

Pump:

1) Diameter 14 inches

1) Make Unknown -- no plate

2) Length 33.5 feet

Motor:

3) Type steel

1) Make US Electrical

2) Frame No. 365TP

3) Horsepower rating 75 hp

DISTRIBUTION LINES OR CANALS:

1) Type Aluminum 2) Size 8 inches 3) Length 120 feet

SYSTEM TYPE:

Center pivot:

1) Make Reinke

4) High or low pressure 50 psi

2) Number of towers 8

5) Capacity 650 GPM

3) End gun Y

CHEMIGATION EQUIPMENT:

- 1) Does chemigate **Y**
- 2) Main line check valve **Y**
- 3) Inspection port/air relief **Y**
- 4) Low pressure drain **Y**
- 5) Discharge is 20' from source **no hose at site**
- 6) Interlock type **electrical**
- 7) Injection pump type **piston**
- 8) Injection check valve **Y**
- 9) Injection line check valve or positive displacement pump **chemigation pump not on-site**
- 10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules **Y**
- 11) Comments: **chemical pump was not available for inspection**

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by **Y**
- 2) All structures, wells and lands on map **Y**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period **Y**

Approval of Location Change and/or Additional Diversion Point(s)

NAME: Lowell Christensen

ADDRESS: Box 855, Trent SD

DATE: July 29, 1996

COUNTY: Moody

RE: Approval of Change in Location of Advertised Diversion Point

BACKGROUND:

Water Permit No. 2574-3 was approved on March 17, 1976, for construction of one well near the center of the S½NE¼ section 5-T108N-R47W to irrigate 148 acres with works to be completed by March 17, 1981. According to a Notice of Completion of Works and a well completion report, the system was constructed in 1976. The well is located near the area described on the permit application, but the published notice of hearing location lists the diversion point as the S½,NE¼ of section 5. Inclusion of the comma resulted in the incorrect legal description.

INTERVIEW:

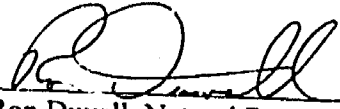
Lowell Christensen was informed of the incorrect legal description and the need to correct the problem. No complaints have been received concerning the irrigation well.

RECORDS REVIEW:

A review of the Moody county file found no complaints concerning well interference or any other concerns in reference to water use under No. 2574-3. The nearest other irrigation well is approximately 2,100 feet to the east as authorized by Water Permit No. 4877-3.

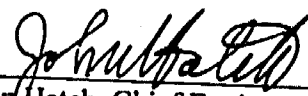
RECOMMENDED ACTION:

Construction of the project was completed within the authorized construction period and no record exists of any well interference between wells in the area. The developed diversion rate of 1.45 cfs is less than the 2.10 cfs authorized by Permit No. 2574-3. Pursuant to SDCL 46-5-13.1, it is recommended that the location of the well, as advertised, be changed from the S½,NE¼ to the SW¼NE¼ section 5-T108N-R47W.


Ron Duvall, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant to SDCL 46-5-13.1 that:

This change in location does not increase the potential for interference with existing diversions. In making this finding, "does not increase the potential for interference" is interpreted to mean potential for adverse interference.


John Hatch, Chief Engineer
Water Rights Program

9-25-96



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 22, 1996

2574-3

Lowell Christensen
Box 855
Trent, SD 57065

Dear Mr. Christensen:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 2574-3, 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.

Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

OCT 1 1996

2574-3

Lowell Christensen
Box 855
Trent, SD 57065

Dear Mr. Christensen:

Enclosed is Water License No. 2574-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 415101 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 2574-3, 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 Program
(605) 773-3352

ks
enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Environment and Natural Resources

2574-3
415101

Pierre, _____ September 16, 19 96

RECEIVED OF Town of Trent, Box 754, Trent, SD 57065

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>2574-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By J. L. Hatchcock
Chief Engineer

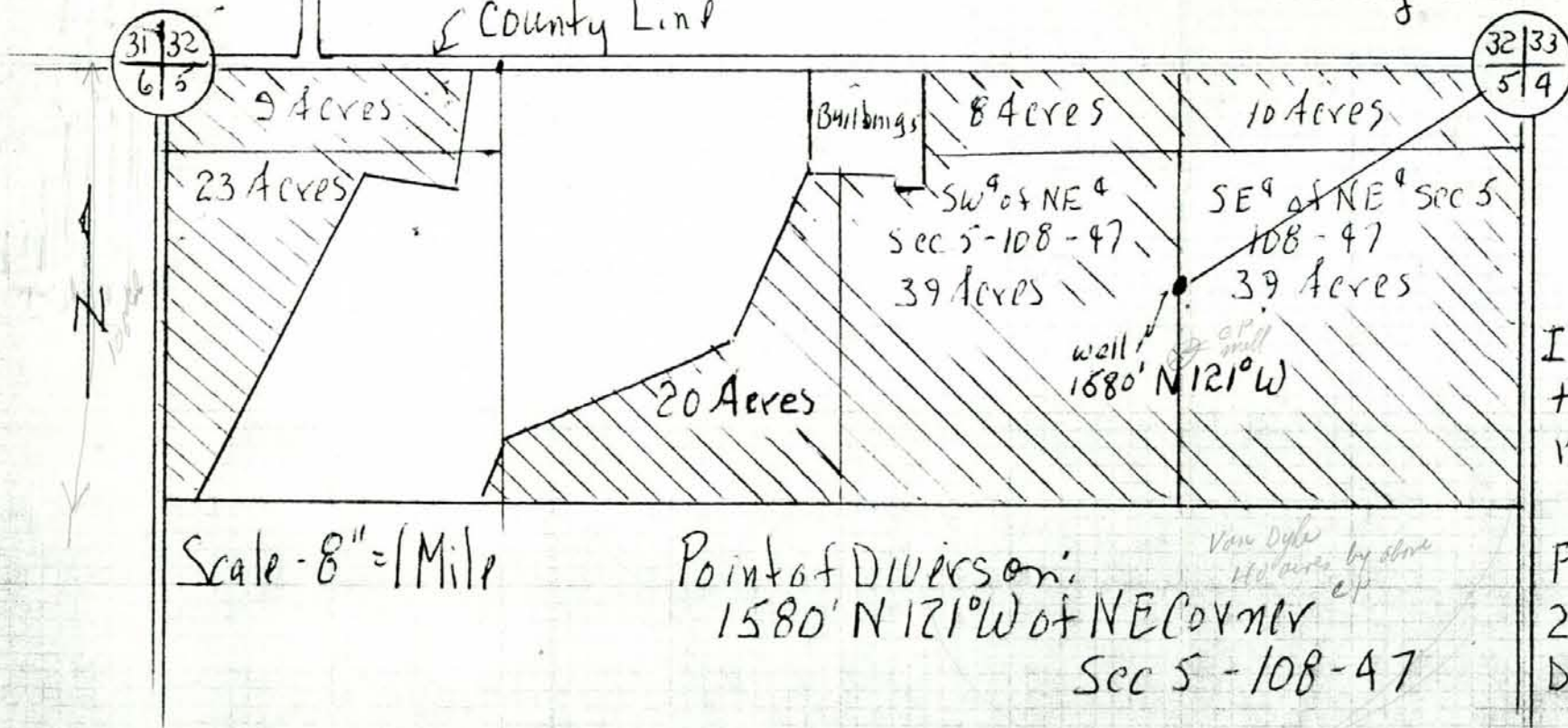
LOW RON SCO FARMS

Irrigation Project # 1

Lowell Christensen - Manager
Flandreau S. Dakota
Moody County

Acres Irrigated - 148
Water claimed - 2.1 cfs

County Line



cp 138A p 3 of N Road
well same spot

Surveyor's Certificate

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

Lowell Christensen

Flandreau S. Dakota

2-14-76

Drawing by J. L. W.

John L. Wiersma

S. Dakota

Moody County

P. E. # 1916

Brookings

MAP NO 1943-3 APPL NO 2574-3

NOT TO SCALE

Appl. # 2574-3
~~3496-3~~

2574-3

31.3

136-R

11.6

96.5

7.5

9.7

87.2

5 56.2

28.6

10.0

27.6

47.7

108-47

132.3

162.9

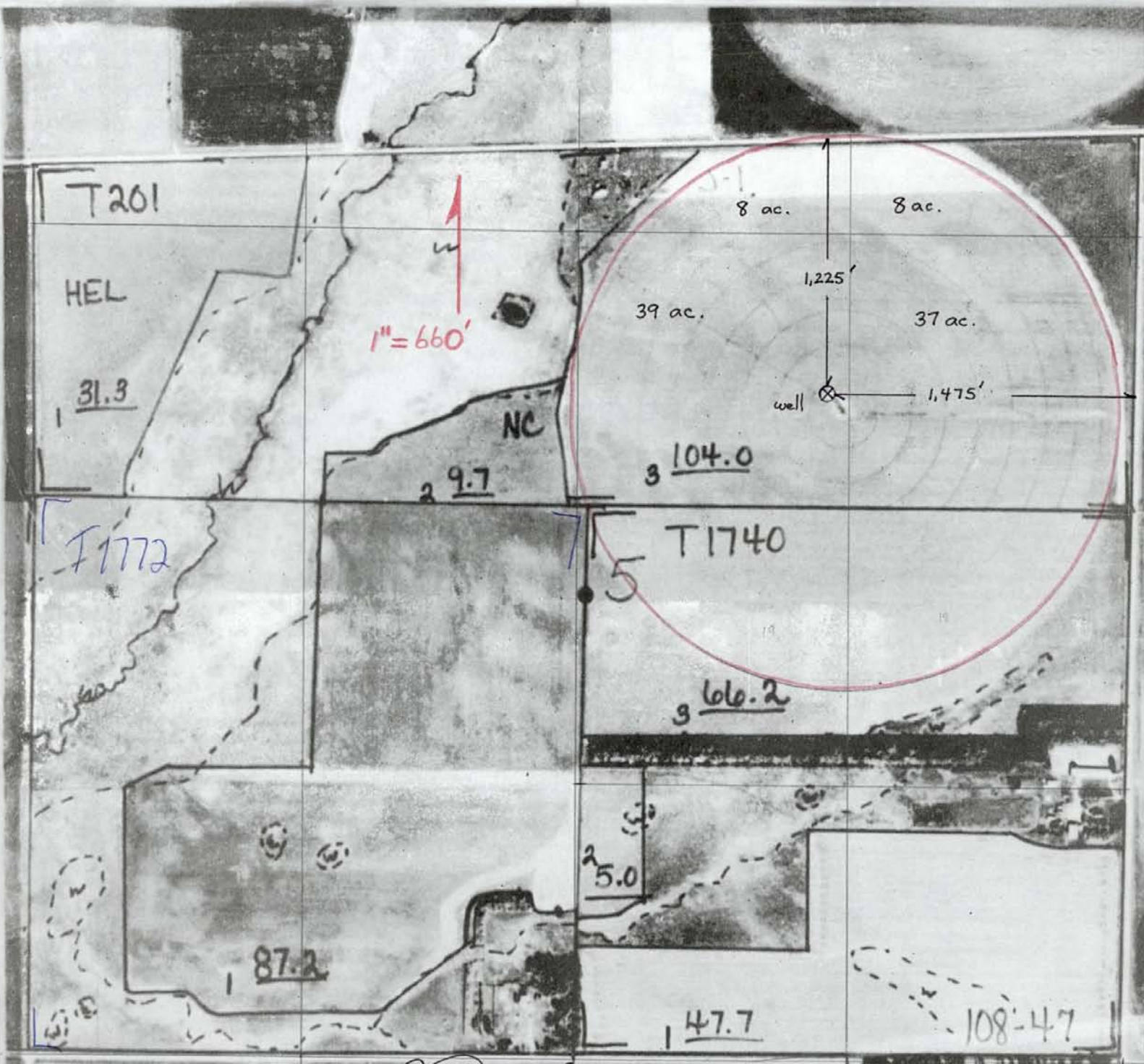
136-R

7.1

53.3

2.0

NOT TO SCALE



Don Swall
Natural Resources Engineer
7/29/96

Permit No 2574-3

2574-3

WATER RIGHTS PROGRAM -- FILE DOCUMENTATION

NAME & ADDRESS: Kibben Rittberger

DATE: February 29 2024 (leap day)

TELEPHONE: 605.431.6254

RE: Re-positioning of authorized irrigated acres

COMMENTS:

Throughout February 2024 I spoke with Mr. Rittberger in great length regarding the potential re configuration of acres for more sufficient irrigation within the SW $\frac{1}{4}$ NW $\frac{1}{4}$ & NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 29 and NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 30; all in T6S-R9E.

It was determined that so long as the re positioning of acres did not exceed what is authorized under WR No. 2574-3, no additional permitting would be required. Attached are 6 images of the acres to be irrigated as described by Mr. Rittberger w/ measurements to match.



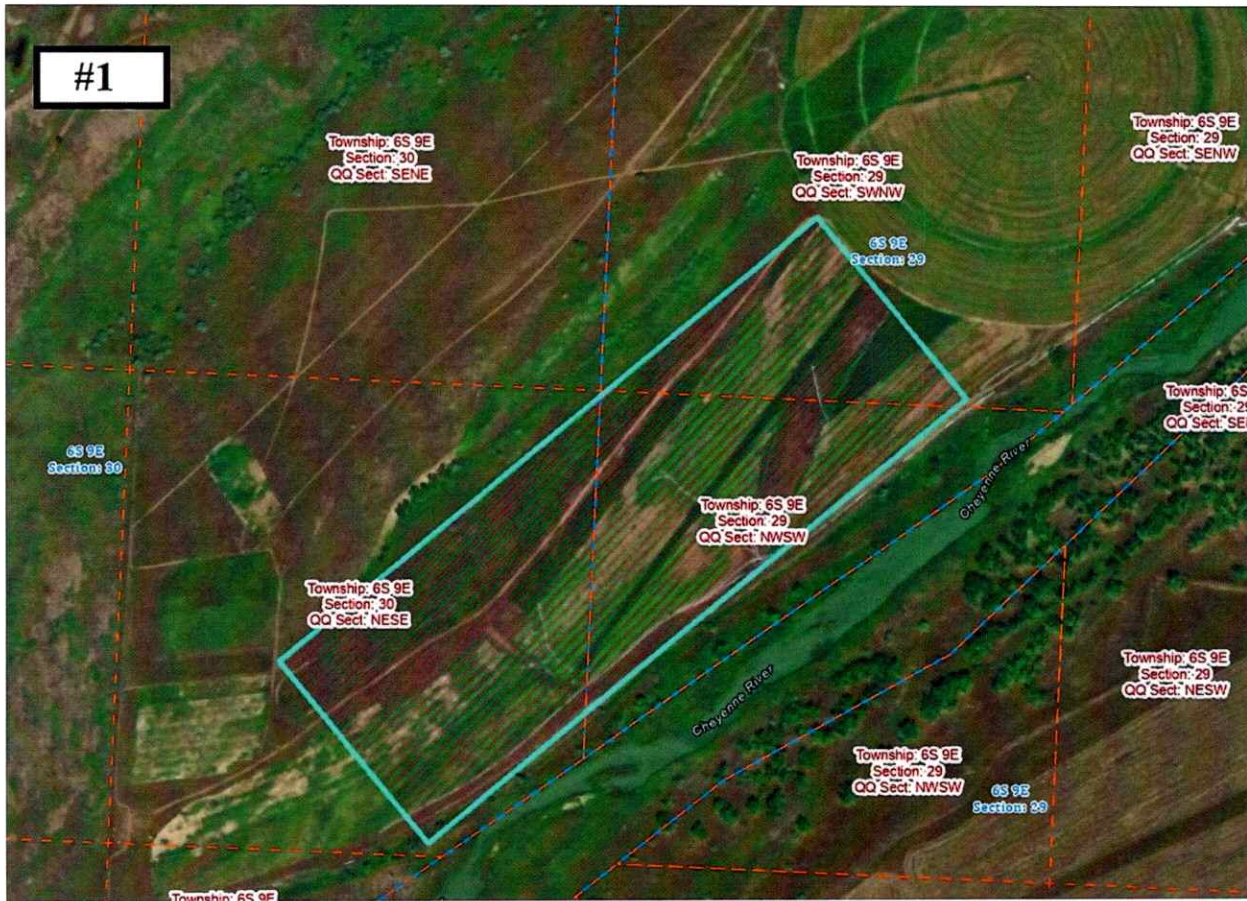
Amanda Dewell
Water Rights Program

NOTE: IT SHOULD BE MENTIONED THAT THE ACRES
ARE NOT TO EXCEED WHAT IS AUTH. IN EACH
INDIVIDUAL QUARTER/QUARTER - HIGHLIGHTED

Section 29, T6S, R9E
 NW ¼ NW ¼ 3.9 acres
 NE ¼ NW ¼ 6.6 acres
 SW ¼ NW ¼ 25.6 acres
 SE ¼ NW ¼ 10.9 acres
 NW ¼ SW ¼ 9.0 acres

Section 30, T6S, R9E
 NE ¼ SE ¼ 13.7 acres
 SE ¼ SE ¼ 1.2 acres

Total 70.9 acres



Measure Area [X]

Planar Acres

Result

Area

Area (ac)	Sum (ac)
5.92	5.92

Distance

Segment (m)	Perimeter (m)	Sum (m)
301.11		
11.10		
200.89		
227.74		
5.55	746.39	746.39

#2



Measure Area [X]

Planar Acres

Result

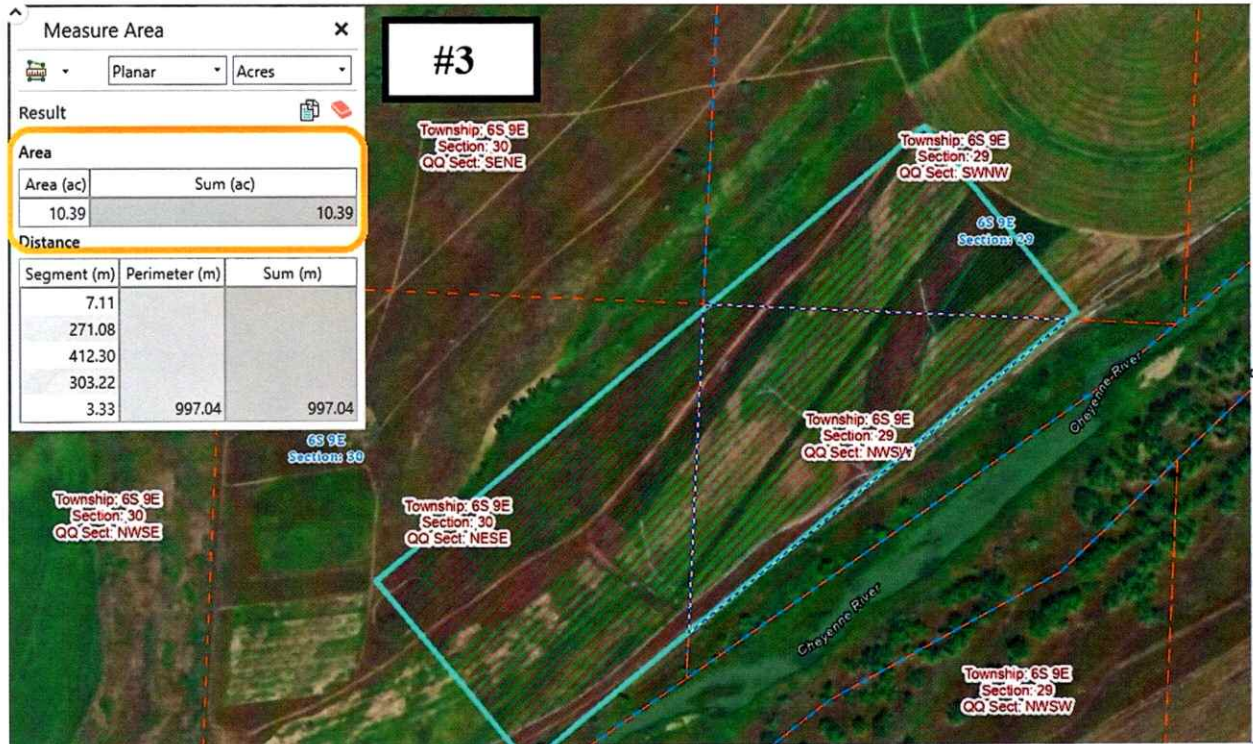
Area

Area (ac)	Sum (ac)
10.39	10.39

Distance

Segment (m)	Perimeter (m)	Sum (m)
7.11		
271.08		
412.30		
303.22		
3.33	997.04	997.04

#3



Measure Area

Planar

Acres

Result

Area

Area (ac)	Sum (ac)
12.99	12.99

Distance

Segment (m)	Perimeter (m)	Sum (m)
350.78		
201.20		
171.77		
268.86		
1.57	994.18	994.18

#4

Township: 6S 9E
Section: 30
QQ Sect: SENE

6S 9E
Section: 30

Township: 6S 9E
Section: 30
QQ Sect: NWSE

Township: 6S 9E
Section: 30
QQ Sect: NESE

