

Water Right No. 1673-2

To be Considered Sept 27, 1979

County Tripp about 155-12

Miles West of Winner

APPLICATION

Name Swight & Leif Anderson Address Clearfield, S.D.

Date _____ Application _____

Received 5-31-79 Complete - Yes _____ No ✓

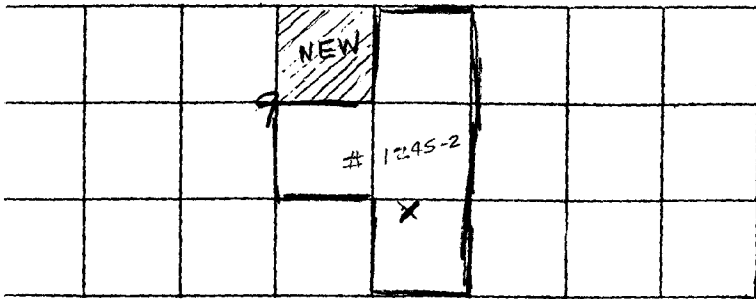
Date _____
Returned 5-31-79 Reason correct map-log-WG

Appl. add acreage & CFS on #1245-2 (w/L issued so new priority owner of C. - Conversion upon Divest.)

Date Received _____
Corrected Appl. June 25, 1979 SOURCE GW - Existing well

USE Irr. ACRES 40 C.F.S. .57

ACRE-FEET _____ Diversion Location SE⁴ SE⁴ 9-96-78



Land to be irrigated SW⁴ NE⁴ 9-96-78

Period of annual use April 1 - Oct. 30

MAP Type of Map Aerial Prepared by Pedersen Angus.

Map No. 1436-2 Map located in W/R X Map File _____

FEE Received - Yes ✓ Amount 150⁰⁰ No. _____ Date of letter _____

REASON _____

Date Returned Corrected _____

LOG Received w/App'l. - Yes ✓ No _____ Date of Request _____

REASON _____

Date Received _____

DRILLER Dat Chase Licensed in SD Yes ✓ No. _____

DEPTH AND FORMATION 190' deep

OTHER
INFORMATION
FILED WITH
WATER RIGHT

WATER
QUALITY

Date Received June 22, 1979 Date Approved and/or Conditional by S.C.C. _____
(Circle one)

Date Disapproved by S.C.C. _____ Reason _____
Date Disapproved _____
Application Returned _____

W-1 Land Description- same as Application- yes X no _____ Remarks _____

REVIEWED

This application was reviewed within 30 days of receipt, accepted as complete, Number assigned and written up for advertisement before the Board on

Sept. 27, 1979

B. Battine

(Signed)

This Application was unable to be completed - Reason _____

PUBLICATION

Dates Published - 1st 8-22-79 2nd _____

Date Affidavit Received _____ Remarks _____

Winner Advocate

PROTESTS

Letters/Petitions In File Yes _____ No _____ Remarks _____

STAFF REC-
OMMENDATIONS

BOARD
ACTION

upon receipt of Affidavit
Date Approved 9-27-79 Qualifications Domestic Well

Deferred - Date _____ Reason _____

Denied - Date _____ Reason _____

REMARKS
F.F & C. OF
LAW, FINAL
DECISIONS,
ETC.

No. 1673-2Map No. 1436-2 Water Division No. 2 KEYAPAH RIVER District _____
(Blanks to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

ADD ADDITIONAL ACREAGE ON PERMIT 1245-2

(New Permit)

To Appropriate Water within the State of South Dakota 8:30 AM

(NOTE--Draw a line through items not applicable)

1. Name of Applicant Owight + Lytle Anderson
Postoffice address Clearfield, State S.D.
If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) ☒ Contract
3. Name of diversion work ☒ No. 2 Keyapah River
4. Amount of water claimed (cubic feet per second) ☒ 1.75 .57 MAX. ALLOWABLE
5. Source of water supply Well
6. Location of point of diversion ☒ 1326 ft. north + 726 ft. west of the SE corner of Section 9 T96 R78 (SE + SE)
County ☒ Tripp
7. Annual period or periods during which water is to be used April 1 - Oct-30
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 ☒ 174 40
ADDITIONAL

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

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
<u>SW 1/4 - NE 1/4 S-9 T96 R78</u>	<u>40</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system ☒ Now Complete years. Additional time required to complete application of water to the proposed beneficial use ☒ Now Complete years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Winner Advocate
12. Principal Features of the Proposed Water Supply System.

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

☒ Pump

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

☒ Pipeline

C. Works proposed to apply water to beneficial use.

☒ Center pivotEstimated Total Cost \$ 57000.00Attachments 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 Tripp) ss.I, Lytle Anderson 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 Lytle AndersonSubscribed and sworn to before me this 23rd day of May 1979

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

he Water Rights Commission hereby approves Water Right Application No. 1673-2
DWIGHT & LYLE ANDERSON CLEARFIELD
 (Applicant) "ANDERSON BROS." (Post Office Address)
SOUTH DAKOTA 57581 With the following modifications.
 (State)

The irrigation well approved under this Permit is located near domestic 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.

Date of first receipt of application MAY 31, 19 79
 Date of return to applicant for correction, amendments or changes required MAY 31, 1979 & JUNE 20, 19 79
 Date of receipt of corrected application FEE JUNE 25, 19 79
 Approved SEPTEMBER 27, 19 79, Recorded in Book 21 Page 76

WATER RIGHT PERMIT NO. 1673-2

The Water Rights Commission hereby grants and issues this Water Right Permit No. 1673-2 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 MAY 31, 19 79
2. The equivalent of at least one-fifth of the work above specified is ~~to be~~ completed before
3. The whole of said work is ~~to be~~ completed before
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is COMPLETED
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 .57 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 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 THIS DATE, 19 79; said water to be used during the following described annual period: APRIL - OCTOBER 30th.

Witness my hand this 17th day of OCTOBER, 19 79

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: SE 1/4 SE 1/4 Section 9 Township 96 Range 78

Well owner Anderson Brothers, Clearfield, South Dakota
(Name) (Address)

Date well drilling completed 5-2-75 Purpose of well Irrigation
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer
0-5	Sand
5-10	Clay
10-30	Red clay & Lime
30-35	Clay
35-42	Red rock
42-45	Sandstone
45-50	Clay
50-143	Mostly clay and sandstone
143-155	White sand
155-220	Shale

Attach sheet if more space is needed

Depth to top of water producing aquifer 26 ft.

Depth to static water level 30 ft.

Name of producing aquifer (if known) mt. horizon

Total depth of drill hole 205 ft.

Depth to bottom of casing 205 ft.

Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.

diameter 16"
thickness 5"
length 26'

Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.

length 155'
diameter 16"
Casing perforations slots

If a flowing well, flow of completed well _____ G.P.M.

Pat Chase
Member 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 46.40B 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 36 in., Depth 266 ft.
- (2) Casing, Type steel (wood, concrete, steel, etc) Diameter 18 in. Thickness 1/4 in.
- (3) Perforated Screen.
Type slots, Diameter 18 in., Length 186 ft.
- (4) Gravel Pack. Thickness 8 in., Length of gravel pack 266 ft.

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 sand & gravel

Depth to top of water bearing material 26 ft.

Depth to bottom of water bearing material 196 ft.

Thickness of water bearing material 176 ft.

Depth to water (ground surface to water level) _____

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

On same owner's property 300 rds. On property owned by others 166 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.

Lyle Anderson
Signature of Applicant

OWNERS NAME: Dwight & Lyle Anderson OWNERS ADDRESS: Clearfield, S. Dak.
 COUNTY LAND LOCATED IN: Tripp PHONE: 557-3210
 TENANT'S NAME AND ADDRESS: (If Other Than Owner) _____

In accordance with State Law SDCL 46-5-6.5, if a water right is granted with a conditional permit (Soil/Water Compatibility), a copy of such conditional permit must be filed with the County Register of Deeds.

This action must be taken by the holder of a water right within 6 months of receipt of such water right.

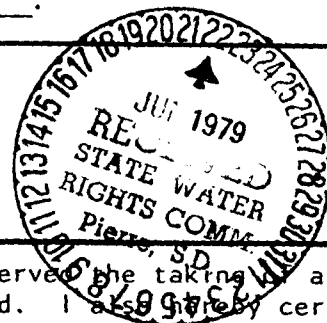
LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres.)

1. WELL LOCATION OR DIVERSION POINT: SE of SE Sec. 9-T96-R78
 2. SURFACE WATER SOURCE _____
 3. LOCATION OF AREA TO BE IRRIGATED: SW 1/4 of NE 1/4 Sec. 9 T96 R78
 4. INDICATE NON-IRRIGATED AREAS AND (APPROX.) ACRES ON MAP: (Farmstead, shelterbelts, wetlands, etc.) _____
- TYPE OF IRRIGATION: (Show approximate acres under each type of system)

5. GRAVITY _____ TOWLINE _____ CENTER PIVOT 176 GUN _____ OTHER (Specify) _____
6. CROPS TO BE IRRIGATED Corn small grains & alfalfa
7. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED: 1975
 LAND: SE 1/4 NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4, Sec. 9 T96 N R78 W
 IN WHAT NAME: Dwight & Lyle Anderson

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

8. SAMPLE NUMBER: 75-059
9. SALINITY (EC X 10⁶) 443
10. SODIUM (SAR) 0.80 ADJUSTED (SAR) 1.67



I hereby certify that I personally obtained or that I personally observed the 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 back) were followed, and that the sample was taken at _____ A.M./P.M., on _____, 19____, at the following location: well now in use

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.

I also hereby certify that a chemical analysis of the irrigation 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 further, that the legal description for the location of the well and land to be irrigated is true and correct.

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS
27 DAY OF July, 1979.

(NOTARY PUBLIC)

Lyle Anderson
 APPLICANT'S SIGNATURE

Keith L. Harner
 Director, Division of Conservation

☒ APPROVED
☐ DISAPPROVED
☐ CONDITIONALLY APPROVED

2-7-75

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

Submitted by: Anderson Bros.

Date Rec'd: January 31, 1975

Address: 1401 10th, Brookings, SD 57581

Sample No. 75-059

Identification Well

Sec. 9, T. 96N, R. 73E

Hand 62

WATER ANALYSIS

Calcium (Ca)	71	ppm*	3.55	me/l**
Magnesium (Mg)	9	ppm	0.74	me/l
Sodium (Na)	27	ppm	1.17	me/l
Potassium (K)	18	ppm	0.47	me/l
Sulfate (SO ₄)	21	ppm	0.44	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	5	ppm	0.15	me/l
Bicarbonate (HCO ₃)	298	ppm	4.88	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)	244	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	443	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.80	Adj. SAR = 1.67		
Sodium	19.73	% of cations		
Residual sodium carbonate	0.59	me/l		
pH	7.30			
Others:				

*ppm=parts per million

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

**me/l=milliequivalents per liter

COMMENTS: Total cations 5.93 me/l
Total anions 5.47 me/l

By: Barley Witten

Service Performed

Amount Due

Irrigation analysis

6.00

pd 3 7 75

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 75-059

Amount Enclosed \$

Signed

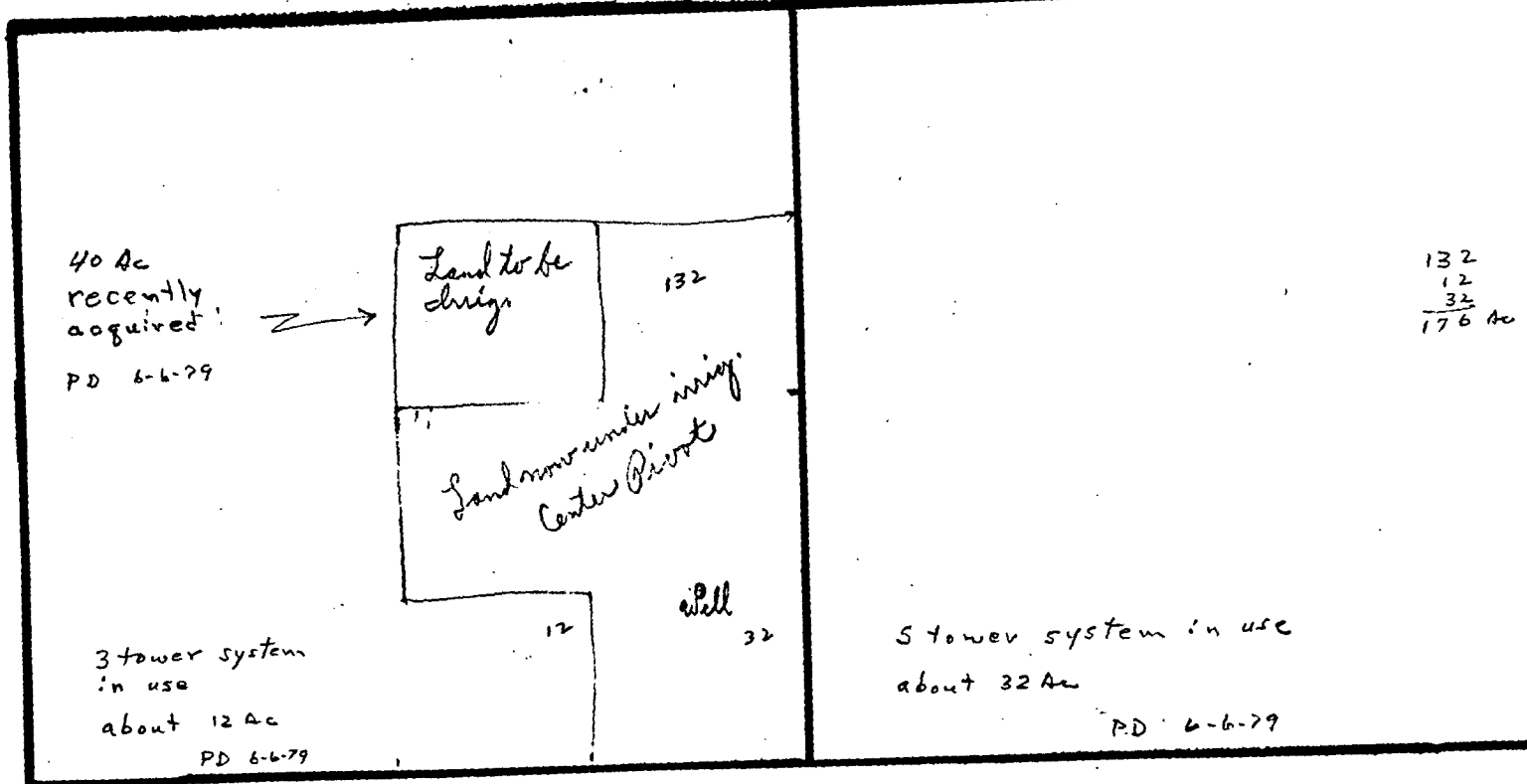
Residents of counties with published or up-to-date soil surveys shall contact their local Conservation District for a copy of the soils map for the area to be irrigated and the narrative explanation of the map.

Residents of counties with no up-to-date soil survey information shall contact the Soil Conservation Service or their local Conservation District to obtain the best information available. If soil survey information is not available, the applicant is requested to obtain this information from a private consultant or professional soil classifier.

NOTE: If at all possible, provide information concerning subsoil physical conditions.

MAP

PLEASE READ LEGAL DESCRIPTION #1 THROUGH #4 ON FRONT SHEET BEFORE COMPLETING THIS SECTION.



PLEASE USE BACK OF THIS SHEET FOR NARRATIVE
OR ATTACH SEPARATE SHEET

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

cooperating with

Clearfield-Keyapaha

Conservation District



Owner Dwight and Lyle Anderson

Operator

Plan No. _____ Date _____

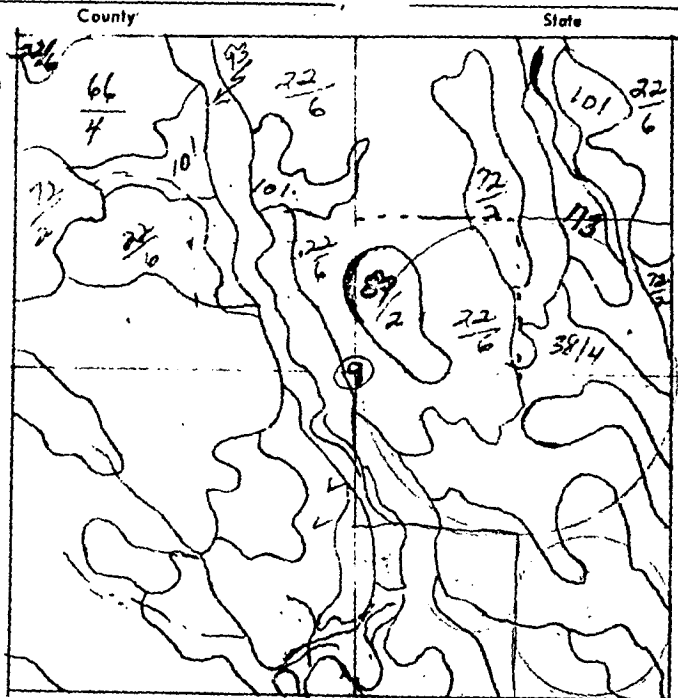
Scale _____ Acres _____

Approximate

Photo No. _____

Тлірр

SD

SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 9-96-78

This is a soils map
of the $N\frac{1}{2}$ of the whole section.

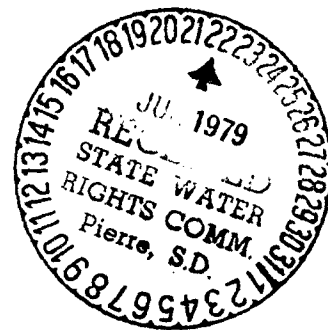
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

DIVISION OF CONSERVATION

NAME OF APPLICANT Wright and Sons, Inc., Clearfield, PA

SOIL RESTRICTIONS:

THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:



RECOMMENDED MANAGEMENT:

1. Water should not be applied more than _____ times during the irrigation season.
2. Each uninterrupted application (one rotation of center pivot) should be of at least _____ inches of water.
3. ☐ Yes ☐ No Surface drainage suggested on _____
4. ☐ Yes ☐ No Subsurface drainage suggested on _____
5. ☐ Deep tillage (for the purpose of aiding movement of water through dense subsoils.

COMMENTS:

6. ☐ Heavy fall application of irrigation water.
7. Type of irrigation system recommended for use on this application pivot.

GENERAL COMMENTS:

Examination of soil will show that blowing of topsoil down to subsoil level and subsoil is low enough to be of no use. The water appears to be of good quality. Any area over 10 acres will be suitable to grow as buffer strips to wind erosion.

The tillage of areas will be to be.

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 6945

June 25

79

PIERRE, _____, 19____

RECEIVED OF Anderson Brothers, Clearfield SD 57581

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

Fee for Application for Permit to Appropriate Water No. <u>1673-2</u> (examination, processing, recording and filing) _____	150	00
Fee for inspecting Construction, and issuing Cert. of Construction No. _____		
Fee for inspecting Beneficial Use, and issuing Water License No. _____		
Fee for issuing Location Certificate-Dry Draw, No. _____		
Fee for filing _____		
Fee for certified copy of _____		
Fee for Print copy of map _____		
Fee for Certifying _____		
Fee for _____ (any other work as provided by law)		
TOTAL	150	00

WATER RIGHTS COMMISSION

By John Hatch
Chief Engineer, Executive Officer
JOHN HATCH kjw

Publish first publication, on or before August 31, 1979

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

August 14, 1979

Notice is hereby given that Dwight & Lyle Anderson whose post office address is Clearfield, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22, 46-5-41; 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use .57 cubic feet of water per second of time from ground water well (one existing/ through the No. 2 Kayapaha River, the point~~(s)~~ of diversion of which is~~(s)~~ to be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$

of Section 9, Twp. 96N, Range 78W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 9, T96N, R78W

This Application No. 1673-2 will be considered by the Water Management Board at the Community Room, City Hall 222 E. Dakota, Pierre, SD upon the 27th day of September, 1979

at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person 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 at the hearing. Decisions of the Board may be appealed to the Courts as provided by law.

WATER MANAGEMENT BOARD

BETTY WESTLUND

Water Rights Specialist

cc: **Dwight & Lyle Anderson, Clearfield, SD 57581**

No. 1673-2

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Tripp) ss.

I, D. L. Johannsen hereby

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

Water was taken from the Winner Advocate

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 Winner

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

August 22, 1979

August 29, 1979

D. L. Johannsen
(Signature)

Publisher
(Title)

August 30, 1979
(Date Signed)

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46-1-14; 46-2-9 thru 46-2-11,
46-2-13; 46-5-1 thru 46-5-8; 46-
5-10 thru 46-5-22, 46-5-41; 46-
6-3, 46-6-3.1, 46-6-5, 46-6-6.1,
46-6-10, 46-6-14 and Board
Rules ARDS 52:01:01:01 thru
52:01:01:13, for a permit to
appropriate for beneficial
use .57 cubic feet of water per
second of time from ground
water (one existing well)
through the No. 2 Keyapaha
River, the point of diversion
of which is to be located in the
SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 9, Twp.
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tember, 1979 at 10 A.M. The
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a determination on this appli-
cation at the hearing. All in-
terested persons may appear
and be heard. Any person who
may be affected by a Board
decision who desires to pre-
sent evidence or cross-ex-
amine witnesses according
to SDCL 1-26 may notify the
Board in writing prior to the
hearing or orally at the hear-
ing.

This hearing is an adver-
sary proceeding. Any person
has the right to be present
or to be represented by a law-
yer. These and other due pro-
cess rights will be forfeited
if they are not exercised at
the hearing. Decisions of the
Board may be appealed to the
Courts as provided by law.

WATER MANAGEMENT
BOARD

-s- Betty Westlund

BETTY WESTLUND

Water Rights Specialist.

(34-35)



No. 1875-2

**Department of
Water & Natural Resources**

Joe Foss Building

523 East Capitol

Pierre, South Dakota 57501

WATER RIGHTS DIVISION

Phone (605) 773-3352

December 21, 1984

Dwight & Lyle Anderson
RR 5, Box 18
Clearfield SD 57581

Dear Sirs:

Enclosed herewith is, Water License No. 1875-2. This is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ks

Enclosures

NOTE: The applicable portions of Water Right No. 1245-2 and Water Permit No. 1673-2 have been incorporated into this Water License No. 1875-2.

WNR-817 3/83

Transmittal of Water License