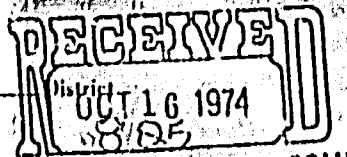


2130-3

1. Considered NOVEMBER 13, 1974
2. Name of Applicant R. E. KAHNKE
3. Post Office Address WATERTOWN
4. Amount of water claimed 228
5. Source of water supply GROUND WATER
6. Water to be used for IRRIGATION
Acres to be irrigated 160
7. Water to be diverted and used in COPINGTON County
about 15, 21/1 miles _____ of WATERTOWN
8. Proof of Publication Received 11-1-74
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____

10. Remarks:

1527-3 No. 2130-3
 Map No. 2130-3 Water Division No. 3 Big Sioux River
 (Blanks to be Filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

STATE WATER RIGHTS COMM.
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant R. E. Kahnke
 Postoffice address 405-5th Ave. N. W., Watertown State South Dakota
 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 KAHNKE--Sec. 3, T16N R53W
 4. Amount of water claimed (cubic feet per second) 2 1/2 cubic feet per second
 5. Source of water supply Wells--two or more
 6. Location of point of diversion NE 1/4, Sec. 3, T 116N, R53W

- County Codington
 7. Annual period or periods during which water is to be used April thru September
 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 160
 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 NW 1/4-3-116N-53W	4	NW 1/4 NE 1/4-3-116N-53W	6
SW 1/4 NW 1/4-3-116N-53W	27 1/2	SW 1/4 NE 1/4-3-116N-53W	37 1/2
NE 1/4 NW 1/4-3-116N-53W	5	NE 1/4 NE 1/4-3-116N-53W	6 1/2
SE 1/4 NW 1/4-3-116N-53W	37 1/2	SE 1/4 NE 1/4-3-116N-53W	36

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 4 years.
 11. Choice of newspaper for Notice of Intent to Appropriate Water publication Watertown Public Opinion
Watertown, S. Dak.
 12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.
Two or more wells
Turbine Pumps
Engines or Electric Motors

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

Mainline pipe

C. Works proposed to apply water to beneficial use.

Sprinkler
Center Pivots

Estimated Total Cost \$ 35,000.00

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

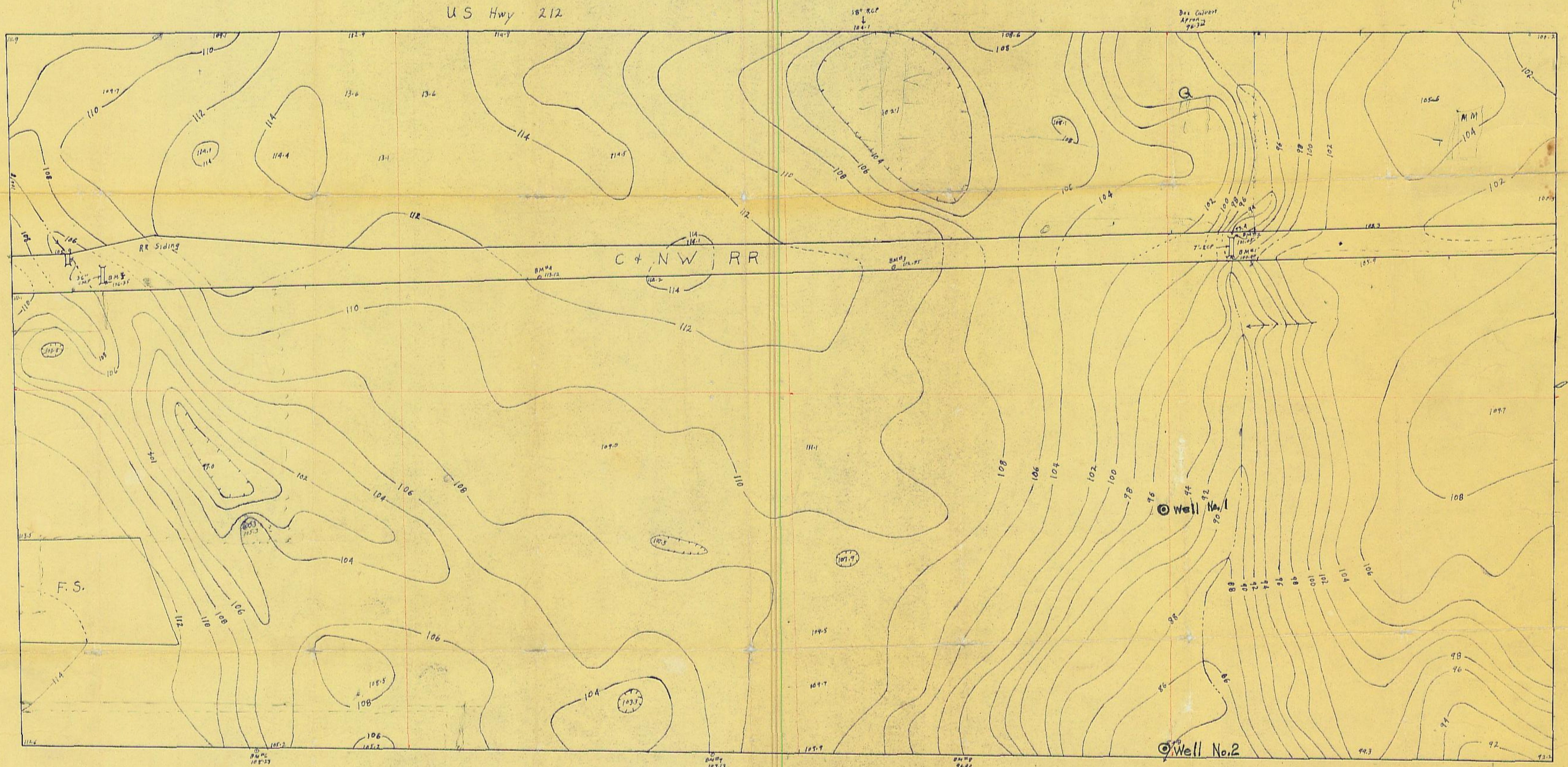
County of Codington

I, R. E. Kahnke the applicant, certify that I have read the foregoing application and have examined the attached map and that the matter therein stated are true and that I intend, and am able to complete the necessary construction.

Signed R. E. KahnkeSubscribed and sworn to before me this 17 day of October 1974

Notary Public (or other qualified officer)

US Hwy 212



Scale 1" = 200'
For irrigation possibility purposes.

R. E. Kahnke - Topog Map
N 1/2 - 32 1/4 T116 N-R53W
Codington County South Dakota
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	Date	Approved by
Drawn		<i>Heuben A. White</i>
Traced		<i>District Conservationist</i>
Checked		10/15/74
Sheet	Drawing No	
No. /	of /	

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2130-3
R.E. KAHNKE 405 5TH AVE. N.W., WATERTOWN
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57201 With the following modifications:
 (State)

Unless otherwise specially authorized by the Water Rights Commission this Permit authorizes irrigation diversions from only one irrigation well at a diversion rate not to exceed 1.14 cfs;

The irrigation well approved under this Permit is located near domestic wells, other wells and a dugout 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 wells or the nearby dugout.

Date of first receipt of application OCTOBER 16, 19 74
 Date of return to applicant for correction, amendments or changes required _____, 19 ____
 Date of receipt of corrected application _____, 19 ____
 Approved JANUARY 22, 19 75, Recorded in Book 13 Page 147

WATER RIGHT PERMIT NO. 2130-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2130-3 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 OCTOBER 16, 19 74
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 22, 19 77
3. The whole of said work is to be completed on or before JANUARY 22, 19 80
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 22, 19 84
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 1.14 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 JANUARY 22, 19 84; said water to be used during the following described annual period: APRIL THRU SEPTEMBER

Witness my hand this 24TH day of JANUARY, 19 75

WATER RIGHTS COMMISSION

By:

Donald W. Merrill
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

GRIMSHAW DRILLING CO.

5001 West 38th St.
Sioux Falls, S. Dak.
Phone ED 2-5041

DRILLING LOG AND STATEMENT

Chamberlain, S. Dak.
Phone 3J3

Name W. Kahake Date 18 March 4
Address Watertown S.D.

NO. FT.	DIA.	RATE	CASING	TOTAL

BALANCE DUE

DRILLING LOG 3" hole

0 ft. to 2 ft. topsoil ft. to ft.
2 ft. to 6 ft. dry sand ft. to ft.
6 ft. to 28 ft. fine gravel ft. to ft.
28 ft. to 33 ft. clay ft. to ft.
ft. to ft. ft. to ft.
ft. to ft. ft. to ft.
ft. to ft. ft. to ft.
ft. to ft. ft. to ft.

Static Water Level 6 ft.

C. R. Riley
Driller.

N^o 2227

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 2 1/2 inches, Depth 32 feet
- (2) Casing, Type Steel (wood, concrete, steel, etc), Diameter 12 inches, Thickness 1/4 inch
- (3) Perforated Screen.
Type Johnson Screen, Diameter 12 inches, Length 18 feet
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

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

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

Character of Water bearing materials Test Well Log attached

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property 100 rods rds. On property owned by others 320 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.

ORE. K. Kohnke
Signature of Applicant

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SECT 40-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: 4/18/78

Disapproved: _____

NAME: R. E. Kahnke
ADDRESS: 405 Fifth Ave. N.W., Watertown, SD. 57201
COUNTY: Codington

LEGAL DESCRIPTION

1. WELL LOCATION: SW $\frac{1}{4}$ NE $\frac{1}{4}$ - 3-116-53
2. AREA TO BE IRRIGATED: N $\frac{1}{2}$ Less N687' Less Ry. - 3-116-53

TYPE OF IRRIGATION

3. GRAVITY (SPRINKLER) (Indicate Type): Electric Center Pivot
4. CROPS TO BE IRRIGATED: Corn + small grain

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 9%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: Estelline soil - rated as
excellent for irrigation by S.C.S. soil scientist who made soil survey

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 74-727
8. SALINITY: EC = 624 (Medium)
9. SODIUM: SAR = 0.23 (Low)

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:
the land capability for irrigation information has been acquired from

Reuben Wicks, S.C.S. District Conservationist
and:

that the legal description for the location of the well and land to be
irrigated is true and correct.

Reuben Wicks

Subscribed and sworn before me this
7th day of Sept 19 74.

[Signature]

Notary Public

(Title)

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

Submitted by: H. L. Kehrke
 Address: 405 5th Ave., S.D. 57201

Date Rec'd: September 5, 1974
 Sample No.: 74-727
 Identification: 011-
100, Sec. 2, T 116N, R 53

WATER ANALYSIS

Calcium (Ca)	82	ppm*	4.10	me/l**
Magnesium (Mg)	32	ppm	2.62	me/l
Sodium (Na)	10	ppm	0.43	me/l
Potassium (K)	5	ppm	0.13	me/l
Sulfate (SO ₄)	102	ppm	2.12	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	22	ppm	0.63	me/l
Bicarbonate (HCO ₃)	317	ppm	5.90	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)	260	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	624	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.23			
Sodium	5.90	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.50			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 7.28 me/l
 Total anions 7.95 me/l

By: Shirley Litten

Service Performed

Amount Due

Irrigation analysis

\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 74-727

Amount Enclosed \$

Signed

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

Submitted by: R. E. Kahrke
 Address: 405 5th Ave, N.W.
Watertown, SD 57201

Date Rec'd September 5, 1974
 Sample No. 74-727
 Identification Well-
1E, Sec. 3, T 116N, R 53W

WATER ANALYSIS

Calcium (Ca)	82	ppm*	4.10	me/l**
Magnesium (Mg)	32	ppm	2.62	me/l
Sodium (Na)	10	ppm	0.43	me/l
Potassium (K)	5	ppm	0.13	me/l
Sulfate (SO ₄)	102	ppm	2.12	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	22	ppm	0.63	me/l
Bicarbonate (HCO ₃)	317	ppm	5.20	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		me/l
Alkalinity (Methyl Orange)	260	ppm (as CaCO ₃)		g.p.g.***
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	624	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.23			
Sodium	5.90	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.50			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 7.28 me/l
 Total anions 7.95 me/l

By: Shirley Litten

Service Performed

Amount Due

Irrigation Analysis

6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Form 5 - Notice of Intent to Appropriate Water

No. 2130-3

Publish first publication, on or before October 31, 19 74

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 21, 19 74

Notice is hereby given that R. E. Kohnke
whose post office address is WYNN Watertown, 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
2.28 cubic feet of water per second of time from the ground water through the
Kohnke Section 3 Project, the point of diversion of which ^{is} ~~is~~ to be located in the _____

from two wells in the S4 NE4

of Section 3, Twp. 116N, Range 53W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:

n 1/4, Section 3, T116N, R53W

This application No. 2130-3 will be considered by the Water Rights Commission at the Embassy Room #1 at the
Downtown Holiday Inn at Sioux Falls, S.D.
Held upon the 13th day of November, 19 74, at 2:30 P. M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BFJ/bw

cc: R.E. Kohnke, 405 5th Ave. N.W., Watertown, S.D. 57601

No. 2130-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Codington)

I, John R. Lowrie hereby

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

Water was taken from the Watertown Public Opinion

A newspaper which during the whole time of publication of said notice herein after stated, has been and is printed and published in the _____

town of Watertown

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

October 23, 1974

October 30, 1974


(Signature)
General Manager
(Title)

October 30, 1974
(Date Signed)

PUBLIC NOTICE

No. 2130-3
NOTICE INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
October 21, 1974

Notice is hereby given that R. E. Kahnrke whose post office address is Watervton, 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 2.8 cubic feet of water per second of time from ground water through the Kahnrke Section 3 Project, the points of diversion of which are to be located from two wells in the 5 1/2 NE 1/4 of Section 3, Twp. 116N, Range 53W. Said water to be used for the purpose of providing irrigation on portions of the following described land: N 1/2, Section 3, T116N, R53W. This application No. 2130-3 will be considered by the Water Rights Commission at the Embassy Room No. 1 at the Downtown Holiday Inn at Sioux Falls, S. D. upon the 31st day of November, 1974, at 2:30 P.M. All interested persons may appear and be heard.

**WATER RIGHTS
COMMISSION**
By: **BURTON F. JONES,**
Water Rights Specialist
(October 23, 30, 1974)

(October 23, 30, 1974)
 $3\frac{1}{4} \times 2.25 \times 2 = 14.62$

RECEIVED
NOV 1 1974
STATE WATER RIGHTS COMM.
PIERRE, SOUTH DAKOTA

November 12, 1974

Water Rights Commission
Pierre
South Dakota 57501

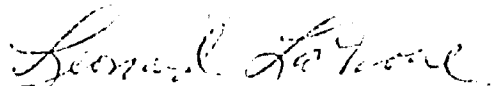
Re: No. 2130-3

Gentlemen:

Attached hereto is a Petition presented in reference to Notice No. 2130-3 wherein R. E. Kahnke has made application for a permit to appropriate 2.38 cubic feet of water per second from two wells in the S $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Sec. 3, Township 116 North, Range 53 West, Codington County, South Dakota. All petitioners own land within a one mile radius of the point of diversion.

We respectfully request that the Commission thoroughly review the application and deny the issuance of the permit.

Leonard LaNoue



PETITION

We, the undersigned, being owners of real property near to or adjacent with the S $\frac{1}{2}$ of NE $\frac{1}{4}$ of Sec. 3, Twp 116 N, Range 53 W, and having household wells and farm wells near said real property, do hereby petition the Water Rights Commission to deny the application of R. E. Kahnke for a permit to appropriate 2.38 cubic feet of water per second of time from ground, the points of diversion of which are to be located from 2 wells in the S $\frac{1}{2}$ of NE $\frac{1}{4}$ of Sec. 3, Twp 116 N, Range 53 W; for the reason that such an appropriation of water would endanger the existing wells and exhaust the present water supply of said area.

	<u>NAME</u>	<u>ADDRESS</u>	<u>DATE</u>
1.			
2.	Leonard Larson	Route 3-H	11/9/74
3.	Wayland Baker	Route 3	11-9-74
4.	James M. M.	" 3	11-9-74
5.	Clinton Spurrell	Route 3	11-9-74
6.	Harold Spurrell	Route 3	11-9-74
7.	Ralph R. Spurrell	Route 3	11-9-74
8.	Mary M. K.	319 1st Ave. W.	11-9-74
9.	James L. L.	804 3rd St. N.W.	11-11-74
10.	Clarence Dalg	R # 3	11-11-74
11.	Kenneth Larson	R # 2	11-11-74
12.	Arnold E. E.	R # 3	11-11-74
13.	Cliff J. J.	R 3	11/11/74
14.	Walter A. Thompson	R - 3	11-11-74
15.	John L. L.	R # 3	11-11-74
16.	Pat P.	R # 3	11-11-74
17.	Mrs. Eugene G. G.	R # 3	11-11-74
18.	Dwayne J. J.	R # 3	11-11-74

18.	Kinky Brumley	LL3	Nov 11 74
19.	Jon DeWalt	RR3	Nov 11 74
20.	Donald Brumley	RR3	Nov 11 74
21.	Herbert Hoffmeyer	RR3	Nov 11 74
22.	Leroy M. Hoffmeyer	RR3	Nov 11 74
23.	Ralph A. Miller	RR3	Nov 11 74
24.	E. Lani de W. all 1500-3.8 100.116		Nov 11 74
25.	Duane C. H. Benton	RR#3	Nov 11 74
26.	Marvin J. Hegg	RR#3	Nov 11 1974
27.	Delores Hegg	RR#3	Nov 11 1974
28.	Rich. Roman	RR#3	Nov 11 1974
29.	Donald W. Fidler	316 N. Broadway	Nov. 12, 1974

STATE OF SOUTH DAKOTA)
) SS
 COUNTY OF CODINGTON)

I, Leonard LaNoue, being first duly sworn on oath
 deposes and says: That I personally circulated the above petition
 and that each signature appearing above was made in my presence by
 the signer, who personally added to the signature, his address and
 the date of signing and that to the best of my information and be-
 lief, each of said signers is the record owner of real property in
 Codington County, South Dakota, and I hereby attest to legality of
 the signature.

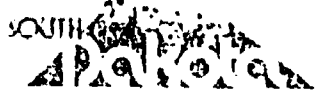
Leonard LaNoue

Subscribed and sworn to before me

this 11 day of November, 1974.

Roger M. Fox
 Roger M. Fox, Notary Public,
 South Dakota

My comm. expires: 8/17/79



Department of Natural Resource Development

WATER RIGHTS COMMISSION
Joe Foss Building, Pierre, South Dakota 57501
Phone 605/773-3151

June 21, 1979

R.E. Kahnke
405 5th Ave NW
Watertown, SD 57201

Dear Mr. Kahnke:

SDCL 46-1-14 authorizes the Water Rights Commission to issue amended permits recognizing the date of priority of the original application if certain conditions are met.

At the May 24, 1979 Commission Meeting, the Commission reviewed amended permits that had been issued with the later priority, and granted the earlier priority date to such amended permits.

By this action, the priority date for your Permit No. 4181-3 was established as October 16, 1974 instead of October 27, 1977 as now shows on your copy of the permit.

If you have any questions regarding this action, feel free to contact this office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Commission

JH/gy

2139-3



WATER RIGHT APPLICATION NO. 2130-3--R.E. KAHNKE

At its November 1974 meeting the Commission considered Water Right Application No. 2130-3 of R. E. Kahnke to divert up to 2.28 cubic feet per second of water from two or more wells to irrigate up to 160 acres of land. A petition signed by 28 people was delivered to the Commission just at the start of the meeting. The petition stated the signers were landowners having household and farm wells near the proposed irrigation, who were concerned that the proposed irrigation withdrawals would endanger and exhaust the present water supply. The Commission deferred action pending investigation by the Commission staff.

The proposed location is about a mile west and one-half mile south of Watertown. The proposed irrigation wells would be located between 1400 and 2200 feet north of the shore of Pelican Lake.

A sketch map has been prepared, and is attached to this report, to aid in explaining the local conditions.

The applicant indicates he proposes to irrigate three circular areas of fifty acres each. These three circles would cover a distance of somewhat less than a mile in the east-west direction and somewhat over $\frac{1}{4}$ mile in the north-south direction and would be located mostly in the $S\frac{1}{2}$ $N\frac{1}{2}$ of Section 3, T116N, R53W. Mr. Kahnke indicated he proposed to install three pivots on the existing buried plastic pipeline and to use one circular sprinkler system, moving it from pivot to pivot.

Following are logs of test holes drilled at the proposed irrigation well sites.

	<u>Proposed Irrigation Well No. 1</u>	<u>Proposed Irrigation Well No. 2</u>
Top soil	0 to 2 feet	0 to 2 feet
Sand & gravel	2 to 32 feet	2 to 31 feet
Clay	32 to 35 feet	31 to 32 feet
Depth to water	10 feet	5 feet
Saturated sands & gravel	22 feet	26 feet
Date drilled	11/20/74	11/20/74

The sketch map shows the location of eight test holes drilled by the South Dakota Geological Survey. Five of these, note location of dark circles, indicated poor or no saturated sands and gravels. One had nine feet of saturated sand and gravels and on two there were questions about the thickness of the saturated materials.

W.R. No. 2130-3
R.E. Kahnke

The sketch map shows the location of a number of wells in the area. At the time of the field inspection in early December, 1974, the Trailer Camp Well was measured. The depth to water was 25.1 feet and the depth to the bottom of the well was 33.9 feet, which indicates a depth of water of 8.5 feet at the time of measurement. It was indicated that a number of wells in the area now have limited or no water supplies, due in part at least to the extremely dry year. As reported, these wells included the Zirbes well, some wells in the Domestic Well Area shown in the south-east section of the sketch map and some wells several miles north and west of the area shown on the sketch map.

Some measurements pertaining to Pelican Lake, the existing dugout and proposed irrigation well No. 2 were made. In these measurements the elevation of Pelican Lake was assumed to be 160 feet although its mean sea level elevation is actually 1700 plus feet. Pelican Lake now is at a relatively low level because of the below normal runoff. The horizontal distance from the lake to the dugout is about 850 feet and the horizontal distance from the dugout to well site No. 2 is about 500 feet. Following are the relative elevations.

Pelican Lake water level	100.00 feet
Ground level at dugout	103.40
Water level at dugout	100.85
Water level at well site No.2	101.80
Ground level at well site No.2	106.80

This indicates that when measured the ground water level sloped upwards towards the north, rising 0.85 feet between the lake and the dugout and 0.95 feet between the dugout and well site No. 2.

The saturated sands and gravels at well sites No. 1 and No. 2 of 22 and 26 feet compared to the logs of the other test holes is an indication that aquifer conditions in the area of the proposed irrigation wells are different from conditions at the locations of existing wells. Because of this the Commission Staff believes Water Right Application No. 2130-3 can be approved with qualifications.

While it appears the chances are good that some irrigation withdrawals can be made without serious adverse effects on existing wells, the actual irrigation withdrawals need to be made for some period of time before it is known what effects do result from the irrigation withdrawals. The irrigation well owner should be well aware that he has the responsibility to monitor and control his irrigation

withdrawals so these serious adverse effects do not occur. The water level in the nearby existing dugout should be measured often if irrigation withdrawals are made as this should be a good checkpoint. Likewise the Trailer Camp Well should be measured periodically.

The Water Right Applicant states that his actual diversion rate would not exceed 1.12 cubic feet per second (500 gpm) for the irrigation system he has decided he would use and he is sure he can obtain this amount of water from one irrigation well.

The recommendation of the Commission Staff is that Water Right Application No. 2130-3 be approved with the following qualifications:

Unless otherwise specially authorized by the Water Rights Commission this Permit authorizes irrigation diversions from only one irrigation well at a diversion rate not to exceed 1.14 cfs;

The irrigation well approved under this Permit is located near domestic wells, other wells and a dugout 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 wells or the nearby dugout.

SKETCH MAP

WATER RIGHT APPLICATION NO. R.E. KAHNKE

2130.3

U S HIGHWAY 212

TRAILER
CAMP

B BUSINESS WELL

☐ TRAILER CAMP WELL

CNW RAILROAD

PROPOSED IRRIGATED AREA - THREE 50 ACRE CIRCLES

NEW BURIED PIPELINE

PROPOSED IRRIGATION
WELL NO. 1

PROPOSED IRRIGATION
Δ WELL NO. 2

FENCE & PROPERTY LINE

☐ ZIRBES WELL

EXISTING DUGOUT .
SIZE 135' X 55' X 9'

○ SDGS TEST HOLE

☐ EXISTING WELL
OR WELL AREA

DOMESTIC WELL AREA

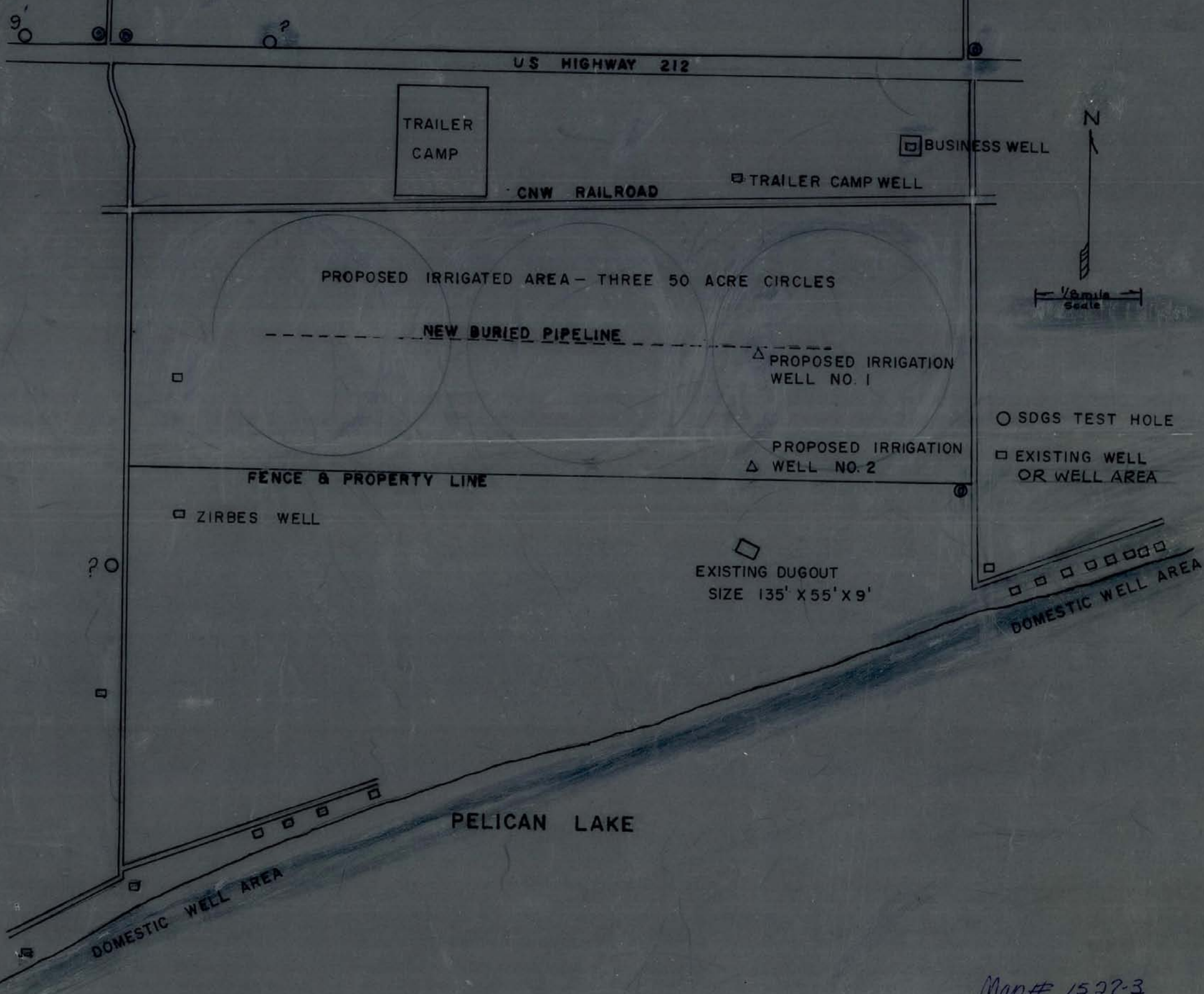
PELICAN LAKE

DOMESTIC WELL AREA

DOMESTIC WELL AREA

SKETCH MAP

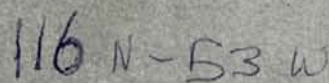
WATER RIGHT APPLICATION NO. R.E. KAHNKE



Map# 1527-3

map 1527-3
1974

1974



3-229A

NOT TO SCALE

Appl. # 2130-3

~~2130-3~~

25.7

23.7

379-87R

11.0

110.1

63.4

5.0

80.7

3

10.2

2.3

40.0

116-53

MARK
1527-3

Lake Pe

5-17-76
10:00

886-9882

CLIFFORD KITTELSON
WATERTOWN, S.D.

PELICAN LAKE - KAHNKE

PEOPLE HAVING TROUBLE GETTING
WATER - CAN'T GO DEEPER WITH
WELLS FARTHER NORTH

GAYLORD BOEN
LEONARD LENEU
ZEBBY

6-24-76

Rick Browlee 886-7329

RR 3

Watertown

lives in
Kittleson subdivision
near Pelican Lake
his well and 3 others
have gone dry.

His well was 18' deep
has lost 6' of water
now 2 yrs ago
Cliff Kittleson now 1 year

2/30-3

Please send future Water Management Board data
sheets for Permit no. 2130-34 no. 4181-3
to Roger Mack - R.R. 1 - Box 65 - Watertown, SD
who is the renter of this land. On 1985
Roger Mack & Milton Carter will be growing
potatoes on this land.

RE/Kuhnke



Department of Water & Natural Resources

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

March 23, 1987
Randy Spevak
CSS COMPANY-OPERATOR
214 NW 3RD ST
WATERTOWN, SD 57201

NOTICE

Re: Violation of Requirement To Submit 1986 Irrigation
Questionnaire

Our records indicate that the 1986 Irrigation Questionnaire has not been submitted for Permit No(s). 4181-3, 2130-3. The request for the Questionnaire was dated November 3, 1986. The Water Management Board has directed that owners of water permits who have not submitted 1986 Irrigation Questionnaires be given notice of hearing(s) to be held by the Board to determine if any action is to be taken concerning the violation.

The hearings will be held at 2:00 pm, May 6, 1987 in Room 216, Joe Foss Building, 523 E Capitol, Pierre SD.

The hearing 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. Amend Permit No(s). 4181-3, 2130-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action;
3. 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.

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

NOTE: If the questionnaire(s) is received in this office before the hearing date, your name will be deleted from the agenda for the hearing.



Department of Water & Natural Resources

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

April 13, 1987

2130-3
4181-3

Randy Spevak
CSS Company, operator
214 NNW 3rd St
Watertown, SD 57201

Dear Mr. Spevak::

This will acknowledge receipt of and thank you for the return of your 1986 Irrigation Questionnaires. A notice was sent to you March 23, 1987 regarding the Irrigation Questionnaire submittal violation of Water Permit Nos. 2130-3 and 4181-3 and the date hearings were to be held before the Water Management Board to determine any action to be taken concerning the violation.

Please disregard the notice sent to you dated March 23, 1987. Your name has been deleted from the agenda pertaining to these hearings.

If you have any questions, please contact us.

Very truly yours,

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

#2180-3
#4181-3



Department of Water & Natural Resources

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

February 17, 1989

Operator CSS Company
214 NW 3rd St
Watertown, SD 57201

Dear Sir:

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,

John W. Hatch
for JOHN HATCH, Chief Engineer
Water Rights Division

2130-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 7, 1991

Ina Kahnke
405 5th Ave NW
Watertown, SD 57201

Dear Ms. Kahnke:

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 Nos. 2120-3, 2363-3 and 4182-3, has been completed. A Water License for Nos. 2120-3 and 4182-3 can now be issued (the applicable portions of No. 2363-3 will be incorporated into No. 4182-3).

Statutes require that we charge a \$50.00 fee for the inspection and issuance of each Water License. A total of \$100.00 (\$50.00 each) is due before we can begin processing the Licenses. South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the license fees have been paid.

Water Permit Nos. 2120-3, 2363-3, 2477-3, 2827-3, 4180-3, 4181-3, 4182-3 and 4183-3 should be transferred to your name. These are still listed under R.E. Kahnke. Enclosed are partially completed "Notice of Transfer of Ownership" forms. Please complete them and sign in the presence of a notary. Upon completion, return the forms to our office with a total of \$20.00 (\$2.50 each).

The total amount due for license and transfer fees is \$120.00. If you have any questions, please contact me.

Sincerely,

Genny McMath

Genny McMath
Natural Resources Analyst
(605) 773-3352

enclosures

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

RECEIPT

412708

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, June 17, 1991

RECEIVED OF Ina C. Kahnke, 405 5th Ave. NW, Watertown, SD 57201

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>2130-3 (License issued under 4181-3)</u>	50	00
Fee for Filing Transfer Form <u>2130-3</u>	2	50
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	52	50

By John Hatcher (CE)
Chief Engineer

NOTICE OF TRANSFER OF OWNERSHIP

No. 2130-3

TO: Chief Engineer
Water Rights Division, DWNR
123 East Capitol
Pierre, SD 57501-3181



I/We request that Water Permit/Right No. 2130-3

formerly owned by: R.E. Kahnke

be transferred to: (name & address) Ina C. Kahnke - 405-5th Ave. N.W.
Watertown, South Dakota (telephone No.) 605-886-3395

Title to the following described land(s)/property has been transferred as described above:

SE1/4, SE1/4 NE1/4 Section 16, T118N, R52W

I/We understand that the validity of Water Permit/Right No. 2130-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file at the Division of Water Rights, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is attached to cover the filing fees as required under SDCL 46-2-13.

STATE OF SOUTH DAKOTA)
County of Codington)

I/We Ina C. Kahnke being first duly sworn on my oath depose and say that my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and that I know of my own personal knowledge that the information herein stated is true.

Ina C. Kahnke
(Signed)

Subscribed and sworn to before me this 11th day of June, 19 91.

Rachel Stearns
(Notary Public) 11-21-92
Comm. expires

NOTE: Water permits may be cancelled for nonconstruction within the five year construction period. Once a water permit is developed and the water used, the permit becomes a water right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

South Dakota



GREAT FACES. GREAT PLACES.

October 17, 1991

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

No. 2130-3

Ina C. Kahnke
405 5th Ave. NW
Watertown, SD 57201

Dear Ms. Kahnke:

Enclosed is a receipt in the amount of \$2.50 which you paid for the transfer of Water Permit No. 2130-3.

Our records now show you as the owner of Water Permit No. 2130-3.

Sincerely,

Cheryl F. Frost

Cheryl F. Frost
Secretary
Water Rights Division
605 773-3352

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 5 1992

4181-3

Ina C. Kahnke
405 5th Ave. NW
Watertown, SD 57201

Dear Ms. Kahnke:

Enclosed is Water License No. 4181-3. This is the final water right document completing your process of obtaining a Water Right.

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. 4181-3, 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

NOTE: The applicable portions of Water Permit No. (2130-3) are incorporated into this Water License No. 4181-3.