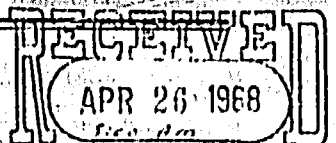


No. 1580-3Water Division No. 3 Big Sioux River District
(Blanks to be filled by the Engineer for the W. R. C.)STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE—Draw a line through items not applicable.)

1. Name of applicant Dr. H.P. Sandberg, D.V.M., 945 S. Story St., 56358
Postoffice address Shannon, Marshall Co., Iowa, State Iowa

AGENT for Owner:

I. If a corporation Farmers National Company(a) Name of same 4820 Dodge St., Omaha 32, Nebr.(b) Date and place of incorporation Farm Manager(c) Amount of capital stock P.O. Box 230(d) Amount paid in Pipestone, Minn.

(e) Names and addresses of directors

(NOTE—A certified copy of articles of incorporation must accompany the application.)

II. Method of accomplishing the work and financial resources of the applicant:

(a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)

Contract

(b) Cash on hand, \$

(c) Treasury stock, \$

(d) Bonds to be issued, \$

(e) Other resources, \$

2. Name of diversion work SANDBERG #13. Amount of water claimed 3.1 cubic feet per second4. Source of water supply Well5. Location of point of diversion S 58° W 2340' FROM NE CORNER
SECTION 24, T12N, R51W on Brookings bank Brookings County.6. Annual period or periods during which water is to be used Growing season - March - October

7. To be used for:

1. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? Overhead Sprinkler(a) Number of acres to be irrigated 220 2.23 acres.(b) Legal subdivisions to be irrigated NE 1/4 & NW 1/4 of Sec. 24, T12N, R51W, Brookings Co.

(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location, etc.)

II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:

(a) Nature of use
Name any of the above uses claimed(b) Amount of power to be generated horse power

Amount claimed for engine cooling

(c) Location of plant

(d) Method of developing power

(e) Point where water will be returned to stream

INCORPORATED INTO
 WATER LICENSE NO. 2437-3
 8/24/81

MAP NO. 1147-3

8 - Estimated cost of work:--

(a) Head Gates, \$----- (b) Pumping plant, \$-----
 (c) Plumbing \$----- (d) Canal-earth, \$----- Rock, \$-----
 (e) Other structures ----- \$.----- Total, \$-----

9. Description of diversion works:--

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)

II. Dimensions of works.

(a) Dam: Height-----feet; length at bottom ----- feet; length at top ----- feet; thickness at bottom ----- feet; thickness at top ----- feet; slope at front water face -----; slope at back face ----- material used in construction -----
 (b) Reservoir: Capacity when filled -----acre feet. Surface area at highwater mark-----acres.

DEPTH AT OUTLET-Feet	SURFACE AREA AT EACH DEPTH AT OUTLET--ACRES	ACRE-Feet CAPACITY

(c)* Head gate: Width-----feet; height -----feet;

Material -----

(d) Canal: Total length -----miles.

LOCATION BELOW HEADGATE	DEPTH	BOTTOM WIDTH	WIDTH AT WATER-LINE	GRADE PER MILE
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet

(Give dimensions where reductions in size are made.)

10. Time required for completion of work ... Five (5)-----years.

11. Time required for complete application of water to the proposed beneficial use Five (5)----- years.

12. Choice of newspaper for publication of notice of intention to appropriate -----
 Volga Tribune

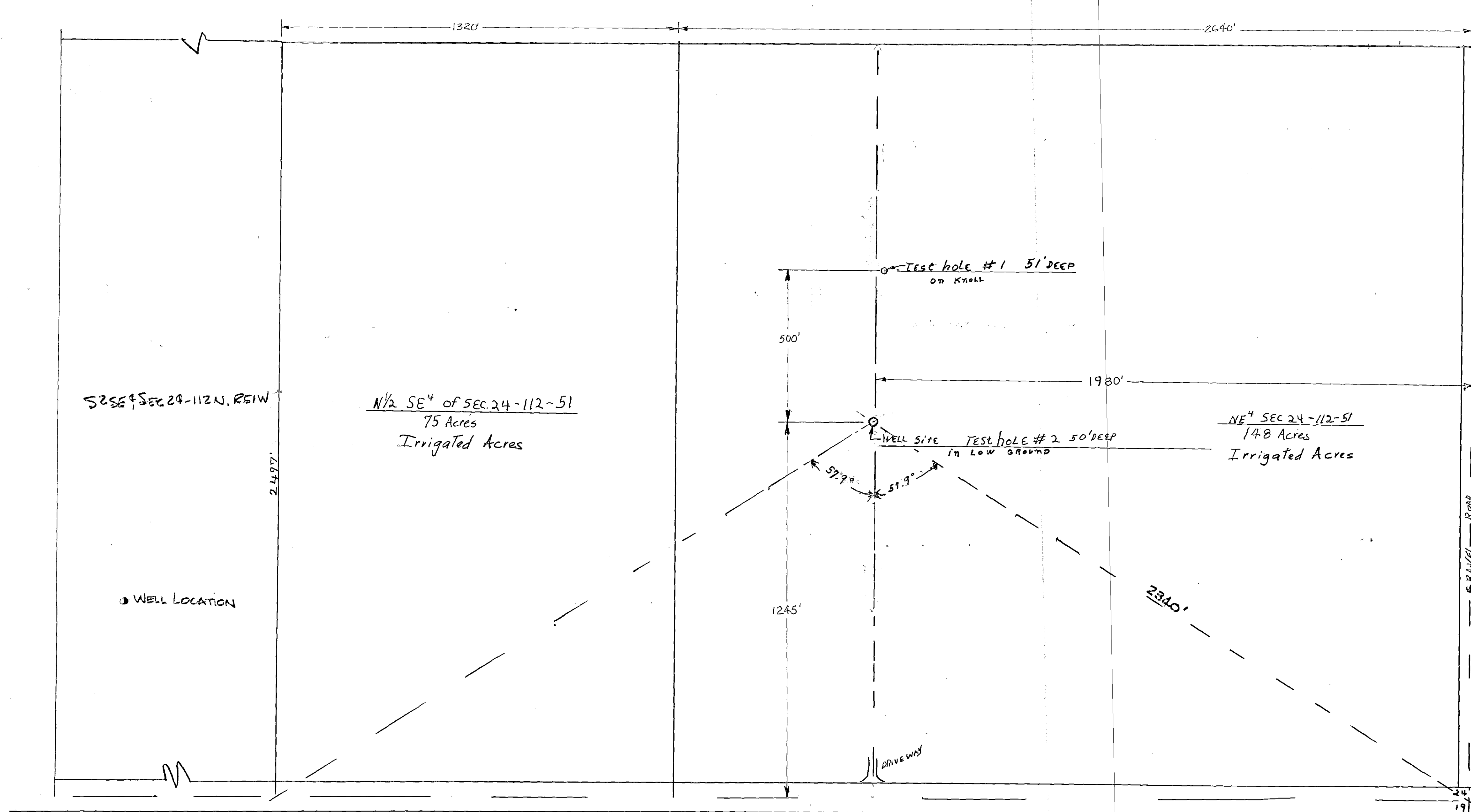
STATE OF MINNESOTA }
 County of } ss.
Beane

I, W. J. Lundberg, 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, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.

Signed

Subscribed and sworn to before me this 23 day of April 1968

W. A. Crandell
 Notary Public (or other qualified officer.)



CERTIFICATE

I HENRY WAELTI DO HEREBY CERTIFY THAT THIS MAP IDENTIFIES A REASONABLE ACCURATE RECORD OF THE LAND OF: H.P. SANDBERG, D.V.M. 945 So. STORY ST. BOONE, IA. IRRIGATION PROJECT.

SIGNATURE Henry Waelti NO. 1339 REGISTERED PROFESSIONAL ENGINEER, STATE OF SOUTH DAKOTA

SUBSCRIBED AND SWORN BEFORE ME THIS 23rd DAY OF September 1968. General Waelti NOTARY PUBLIC



Irrigation Project
1 Dakota Farm of
H.P. Sandberg D.V.M.
945 So. Story St.
Boone Ia. 500'
Drawn by J.S.

So. Dak. Water Resources Comm.
TEMPORARY #1580-3
of 4-26-1968

SCALE
1-inch
100 FEET

RECEIVED
NOV 25 1968
STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

11/23/68 APPL NO 1580-3

Remarks by State Water Resources Commission:

----- 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 existing domestic wells.

STATE OF SOUTH DAKOTA
County of 1. HUGHES ss.

Pierre, South Dakota, MARCH 18, 1969

This is to certify that the foregoing application was received by the Commission at 8:00 o'clock
9 m. upon the 26TH day of APRIL, 1968

State Water Resources Commission

By:

Durton Jones
for Chief Engineer, Executive Officer

Number of permit 1580-3

Date of first receipt of application APRIL 26, 1968

Date of return to applicant for correction, amendments or changes required as follows: APRIL 29, 1968

Date of receipt of corrected application NOVEMBER 25, 1968

Date from which applicant may claim right NOVEMBER 25, 1968

Approved JANUARY 22, 1969, Recorded in Book 10 Page 321

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

- 1st. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 22, 1971
- 2nd. The whole of said work is to be completed on or before JANUARY 22, 1974
- 3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is JANUARY 22, 1974
- 4th. The water appropriated shall be used for the purpose of IRRIGATION

5th. 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.

6th. The amount of the appropriation herein granted shall not exceed 3.1 cubic feet per second; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for the production of crops in the exercise of the best husbandry; and further, said appropriation must 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 a tually

and beneficially applied for irrigation on or before JANUARY 22, 1974; said water to be used during the following described annual period.

MARCH thru OCTOBER
Witness my hand this 18TH day of MARCH, 1969

State Water Resources Commission

By:

[Signature]
Chief Engineer, Executive Officer

Certificate of Construction Issued NOVEMBER 30, 1973

Water License Issued NOVEMBER 30, 1973

THE TEST BORE SHOWS A VERY GOOD WELL SITE.
IT IS NOT POSSIBLE TO COMPLETE THIS BORE
UNTIL THE WELL IS DUG & TESTED
THE PUMP & POWER IS MATCHED TO THE SYSTEM
CHOSEN.

ED. H. LACEY
TARRANT, TEX.
57065
S. DAK. DRILLERS L.I.S. #111

6. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation 36", Depth 50' - 52'

Type of casing 18" O.D. STEEL
(wood, concrete, steel, etc.)

Size of casing 18" O.D., Thickness of casing .300"

Length of casing 50' If collection gallery, length, size and depth of
gallery _____

(b) Screens

Type of perforated screen, CYPRESS Perforation 1/4" x 40m
show analysis & PERFORATION SIZE

Size of perforated screen 22" (diameter) 10' x 16' (length)

Thickness of gravel pack 7", length of gravel pack 140'

(c) Water Bearing Materials

Distance to water 12' Character of water bearing materials _____

Coarse Sand not so fine
very porous

Thickness of water bearing material 7.5'

(d) Pump and Motor

Type of pump LINE SHAFT TURBINE
(centrifugal, propeller, mixed flow, etc.)

Name of pump _____ size _____

Kind of motor _____
(gasoline, electric, diesel, etc.)

Horsepower _____ Name of Motor _____

(e) Complete well

Capacity _____ at drawdown of _____ Estimated cost _____

(f) Owner of land upon which well is located H. P. SAMBERG D.V.M.
Name

945 So. STONY ST. BOONEVA 50036
Address

(g) Distance to nearest existing wells none close (Assumed 400')

On same owner's property _____ rods. On property owned by others _____ rods

Permit No. 1580-3

Water Diversion No. 3 BIG SIOUX RIVER Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That H. P. Sandberg, D.V.M.

_____ the holder _____ of
Permit No. 1580-3, issued upon Application No. 1580-3, bearing date of priority of November 25,
1968 authorizing the diversion of 3.1 cu. ft. per second of the waters of _____
ground water County of Brookings, State of South Dakota at _____
a point South 58° West, 2340 ft. from the NE Corner, Section 24, T112N, R51W
_____, for irrigation

purposes, ha. 2 complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.78 cu. ft. per second of water.

Date November 30, 1973

By:

Donald Driscoll, Chief Engineer
WATER RIGHTS COMMISSION

DONALD DRISCOLL, Chief Engineer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1580-3

(1) WHEREAS, On the 26th day of April, A. D. 1968
H. P. Sandberg, D.F.M.

made Water Right Application No. 1580-3 for a permit to use 3.1 cubic feet per second of the waters of ground water

County of Brookings, State of South Dakota, for irrigation
purposes; and

(2) WHEREAS, On the 18th day of March, A. D. 1969

Permit No. 1580-3 with a date of priority of November 25, 1968

was issued to said applicant _____ for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 22nd day of January, A. D. 1974 and for the application to beneficial use of said water on or before the 22nd day of January, A. D. 1974.

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent,

for irrigating the following land in Section 24, 7112N, R51W

1:Et 148 acres

N₂ SE 75 paces

Total 223 Acres

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to H.P. Sandberg, D.V.M.

_____ of NY Boone, Iowa
the holder _____ and owner _____ of said permit No. 1580-3 a water right, dating from November 25, 1968
_____ to use of 1.78 cubic feet per second of the waters
of ground water

in the County of Brookings and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at a point South 58° West, 2340 ft. from the NE
Corner, Section 24, T112N, R51W

and conduct to and upon the NE¼ and N¼ SE¼, Section 24, T112N, R51W, more fully described
on the face of this license

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 1580-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 30th day of November A. D.
Nineteen Hundred and Seventy-three

WATER RIGHTS COMMISSION

By:

Chief Engineer, Executive Officer **DONALD DRISCOLL**

Permit No. 1580-3Water Division 3 BIG SIOUX RIVER Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

WATER RIGHTS COMMISSION

TO: Water ~~Resources~~ Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by DR. H.P.
SANDBERG of BOONE, IOWA holder
of Permit No. 1580-3 bearing date of priority of NOVEMBER 25, 1968
authorizing the diversion of 3.1 cu. ft. per second of the waters of GROUND WATER
for IRRIGATION purposes, in BROOKINGS County.

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

The Water Use System consists of,

A. Works used to divert the water:

50' DEEP WELL W/18" STEEL CASING
WESTERN LAND ROLLER 8" PUMP, POWERED BY
RANDOLPH 100 H.P. DIESEL MOTOR

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

80 LENGTHS OF 8" MAINLINE, 30' LONG

C. Works used to apply water to beneficial use.

E-Z RAIN TRAVELLING SPRINKLER W/ 1000 G.P.M., 700 G.P.M.
& 800 G.P.M. INTERCHANGABLE NOZZLES. 660' OF 4 1/2" HIGH
PRESSURE RUBBER HOSE

The system is in the following condition: GOOD

The point of diversion is located S58°W, 2340' FROM THE NE CORNER,
SECTION 24, T112N, R51W

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

Water has been put to beneficial use to the maximum extent as follows: ALL IN SECTION 24, T112N, R51W

NE⁴ 148 ACRES
N² SE⁴ 75 "

comprising a total of 223 acres of land.

NOVEMBER 27, 1973

Shirley J. Jones
(Signature)

WATER RIGHT SPECIALIST
WATER RIGHTS COMMISSION

THE TEST BORE SHOWS A VERY GOOD WELL SITE.
IT IS NOT POSSIBLE TO COMPLET THIS BORE
UNTIL THE WELL IS DUG + TESTED
THE PUMP + POWER, ALL DEPENDS ON THE SYSTEM
CHOSEN.

TRENTON, N.J.
57065
SO. DAK. DRILLERS LIAISON

9. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation 36" Depth 50'-52'

Type of casing 18" O.D. STEEL
(wood, concrete, steel, etc.)

Size of casing 18" O.D. Thickness of casing .300"

Length of casing 50' If collection gallery, length, size and depth of gallery _____

(b) Screens

Type of perforated screen CPIRESS Perforation 10' to 16'
and diameter + PERFORATION SIZE

Size of perforated screen 22" (diameter) 10' to 16' (length)

Thickness of gravel pack 7" length of gravel pack 40'

(c) Water Bearing Materials

Distance to water 12' Character of water bearing materials Coarse Sand
very porous no fine's

Thickness of water bearing material 38'

(d) Pump and Motor

Type of pump LINE SHAFT TURBINE
(centrifugal, propeller, mixed flow, etc.)

Name of pump _____, size _____

Kind of motor _____
(gasoline, electric, diesel, etc.)

Horsepower _____ Name of Motor _____

(e) Complete well

Capacity _____ at drawdown of _____ Estimated cost _____

(f) Owner of land upon which well is located H. P. ... Name _____

745 So. ... Address _____

(g) Distance to nearest existing wells none on 54 (1/2" - 4")
On same owner's property _____ rods On property owned by others _____ rods

March 23, 1979

Farmers National Company
Box 707
Marshall, MN 56258

Gentlemen:

This letter is in reply to your recent telephone request regarding Water Permits No. 1580-3 and No. 2437-3, held by Dr. H. P. Sandberg of Boone, Iowa, concerning portions of the E $\frac{1}{2}$, Section 24, T112N, R51W in Brookings County.

Permit No. 1580-3 was issued to Dr. Sandberg on January 26, 1969, calling for a diversion rate of 3.1 cfs from a well in the SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 24, T112N, R51W to irrigate 223 acres in the NE $\frac{1}{4}$ and N $\frac{1}{2}$ SE $\frac{1}{4}$, Section 24, T112N, R51W. The water license was issued on the project on November 30, 1973, and allowed a diversion rate of 1.78 cfs to irrigate the defined acreage.

Permit No. 2437-3 was issued on January 23, 1976 calling for a diversion of 3.0 cfs from a well in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 24, T112N, R51W, to irrigate the same lands as covered in Permit No. 1580-3, plus 71 acres in the S $\frac{1}{4}$ SE $\frac{1}{4}$, Section 24, T112N, R51W, with the stipulation that combined diversions under the two permits should not exceed the statutory limit of 1 cfs for each 70 acres irrigated.

One fifth of the work was to be completed by July 23, 1977. If no work has been accomplished under the Permit it would now be subject to cancellation. This office will be checking on Permits in Brookings County as soon as the weather permits, and will notify you later of action to be taken on this Permit.

Sincerely,

Burton F. Jones
Water Rights Specialist

BFJ:plh