

1179-1

1. Considered NOVEMBER 15 19 78
2. Name of Applicant MARVIN AGA
3. Post Office Address STURGIS, S.D.
4. Amount of Water claimed 1.6 20-5-7
5. Source of Water supply DRY DRAW
6. Water to be used for IRRIGATION
Acres to be irrigated 112
7. Water to be diverted and used in MEADE County
about _____ miles _____ of _____
8. Proof of Publication
Received 10-30-78
Not Received _____
9. Application
347-2767
Approved 11-15-78
Subject to _____
Not Approved _____
Action Deferred _____

10. Remarks
INCORPORATED INTO
WATER LICENSE NO. 1232-1

No. 1179-1
 Map No. 989-1 Water Division No. 1 BELLE FOURCHE RIVER District
 (Blanks to be filled by the Engineer for the W. H. 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 Marvin Aaga
 Postoffice address Box 24, Sturgis, State South Dakota 57785
 If a corporation show date and place of incorporation _____
2. Nature of work requiring work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work Aaga Diversion **INCORPORATED INTO**
WATER LICENSE NO. 1232-1
4. Amount of water claimed (cubic feet per second) 1.6
5. Source of water supply Dry Draw
6. Location of point of diversion 1,400 L.F. U. and 320 L.F. S. of the N.E. corner of Sec. 12
T-5-N R-7-E of the Black Hills Meridian.
- County deade
7. Annual period or periods during which water is to be used When available
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 112

List below each forty-acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each. (If 60)

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
NW4 NW4 Sec. 20 T-5 R-7	18 Ac.	SE4 NW4 Sec. 20 T-5 R-7	13 Ac.
SW4 NW4 Sec. 20 T-5 R-7	5 Ac.	SW4 NE4 Sec. 20 T-5 R-7	10 Ac.
NE4 NW4 Sec. 20 T-5 R-7	14 Ac.	SE4 NE4 Sec. 20 T-5 R-7	16 Ac.
NE4 SE4 Sec. 20 T-5 R-7	22 Ac.	NW4 SE4 Sec. 20 T-5 R-7	14 Ac.

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 3 years. Additional time required to complete application of water to the proposed beneficial use 5 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Rushmore Ads and News
Sturgis, South Dakota 57785
12. Principal Features of Proposed Water Supply System.
- A. Works proposed to divert water from its natural source
Diversion Dam
- B. Works proposed to transport water to place of use.
Diversion
- C. Works proposed to apply water to beneficial use.
Ditches and Dikes

Estimated Total Cost \$ 20,000.00Attachment: 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 MEYER)Marvin Aaga

the applicant, certifies 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 Marvin AagaSubscribed and sworn to before me this 31st day of August 1978Karl H. Macdonald
 Notary Public (or other qualified officer)My Commission Expires
 February 25, 1985

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 1179-1

MARVIN AGA
(Applicant)

Box 24, STURGIS
(Post Office Address)

SOUTH DAKOTA 57785 With the following modifications:
(State)

Date of first receipt of application SEPTEMBER 1, 19 78

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

Date of receipt of corrected application _____, 19 ____

Approved NOVEMBER 15, 19 78, Recorded in Book 20 Page 91

WATER RIGHT PERMIT NO. 1179-1

The Water Rights Commission hereby grants and issues this Water Right Permit No. 1179-1 for the construction of the water right 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 SEPTEMBER 15, 19 78
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 15, 1980
3. The whole of said work is to be completed on or before NOVEMBER 15, 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 15, 19 83
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 1.6 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 NOVEMBER 15, 19 83; said water to be used during the following described annual period: WHEN AVAILABLE

Witness my hand this 17th day of NOVEMBER, 19 78

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer JOHN HATCH

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

CONSERVATION COMMISSION
FORM WI #1
6/77

SOIL/WATER COMPATIBILITY APPLICATION FORM

STATE CONSERVATION COMMISSION
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

IMPORTANT: Read Instructions Before Proceeding!!!

NAME Marvin Aga

ADDRESS Box 24, Sturgis, South Dakota 57785

COUNTY Meade

In accordance with State Law (Section 1, SB-58), 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: Tributary of Alkali Creek (sample from

1. WELL LOCATION OR DIVERSION POINT 1,400 LF West and 300 LF South of the NE corner of
2. LOCATION OF AREA TO BE IRRIGATED Sec. 19 T-5 N R-7 E of the Black Hills Hardy A.
NE4 NW4 Sec. 20, SW4 NW4 Sec. 20, NE4 NE4 Sec. 20,
SE4 NW4 Sec. 20, SW4 NE4 Sec. 20, SE4 NE4 Sec. 20, NW4 SE4 Sec. 20, NE4 SE4 Sec. 20 T-5 R-7

TYPE OF IRRIGATION: Waterwheel Predominately

3. GRAVITY X TOWLINE CENTER PIVOT
OTHER (SPECIFY)

4. CROPS TO BE IRRIGATED Legumes and grasses

WATER QUALITY: (To be completed by SDSU Water Quality Lab)

5. SAMPLE NUMBER 78-873
6. SALINITY (EC X 10³) 669
7. SODIUM (SAR) 1.18 Adjusted = 2.67
8. RESIDUAL SODIUM CARBONATE (meg/1.) 1.21 (see page 5 of A8513)

I do 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.

SUBSCRIBED AND SWORN BEFORE ME THIS
31st DAY OF August, 1978.

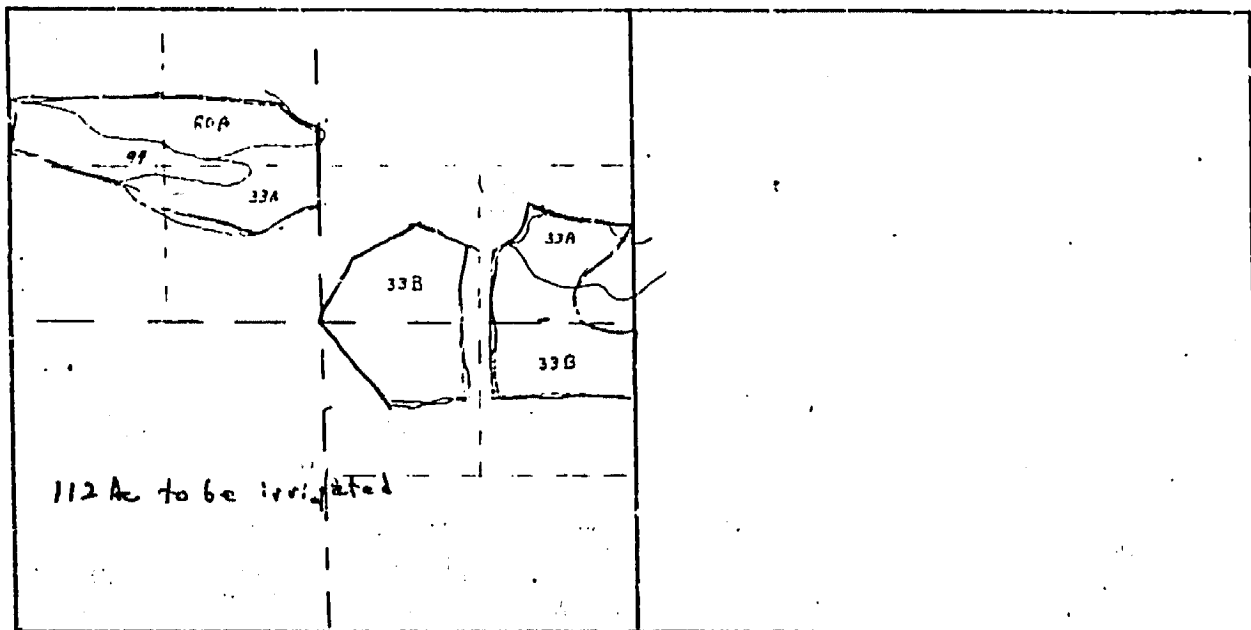
Kirk B. Mulheim NOTARY PUBLIC
(TITLE OR SEAL)

Marvin Aga
APPLICANT'S SIGNATURE
Edward J. Hoff
Approved X
Disapproved
Conditionally Approved

My Commission Expires
February 25, 1984

(SOILS INFORMATION ON REVERSE SIDE)

WJP



Sec. 20 - 5N - 7E

NAIGATIVE

Map Symbol	Unit	Soil	
AnA	94 "F"	Arvada silt loam	0 - 6% slopes Class VIc3 Drainage: Well drained; surface runoff medium. Permeability: Very slow.
KbA	80A "P"	Kyle clay	0 - 2% slopes Class IVc3 Drainage: Well drained; surface runoff slow. Permeability: Very slow, except after dry periods when initial intake in cracks is rapid.
ShA	33A "3"	Savo silty clay loam	0 - 2% slopes Class IIIc1 Drainage: Well drained; surface runoff medium. Permeability: Moderate or moderately slow.
ShB	33B "3"	Savo-Blackpipe soils	2 - 6% slopes Class IIIe1 Savo part: Drainage: Well drained; surface runoff medium. Permeability: Moderate. Blackpipe part: Drainage: Well drained; surface runoff medium. Permeability: Moderately slow.

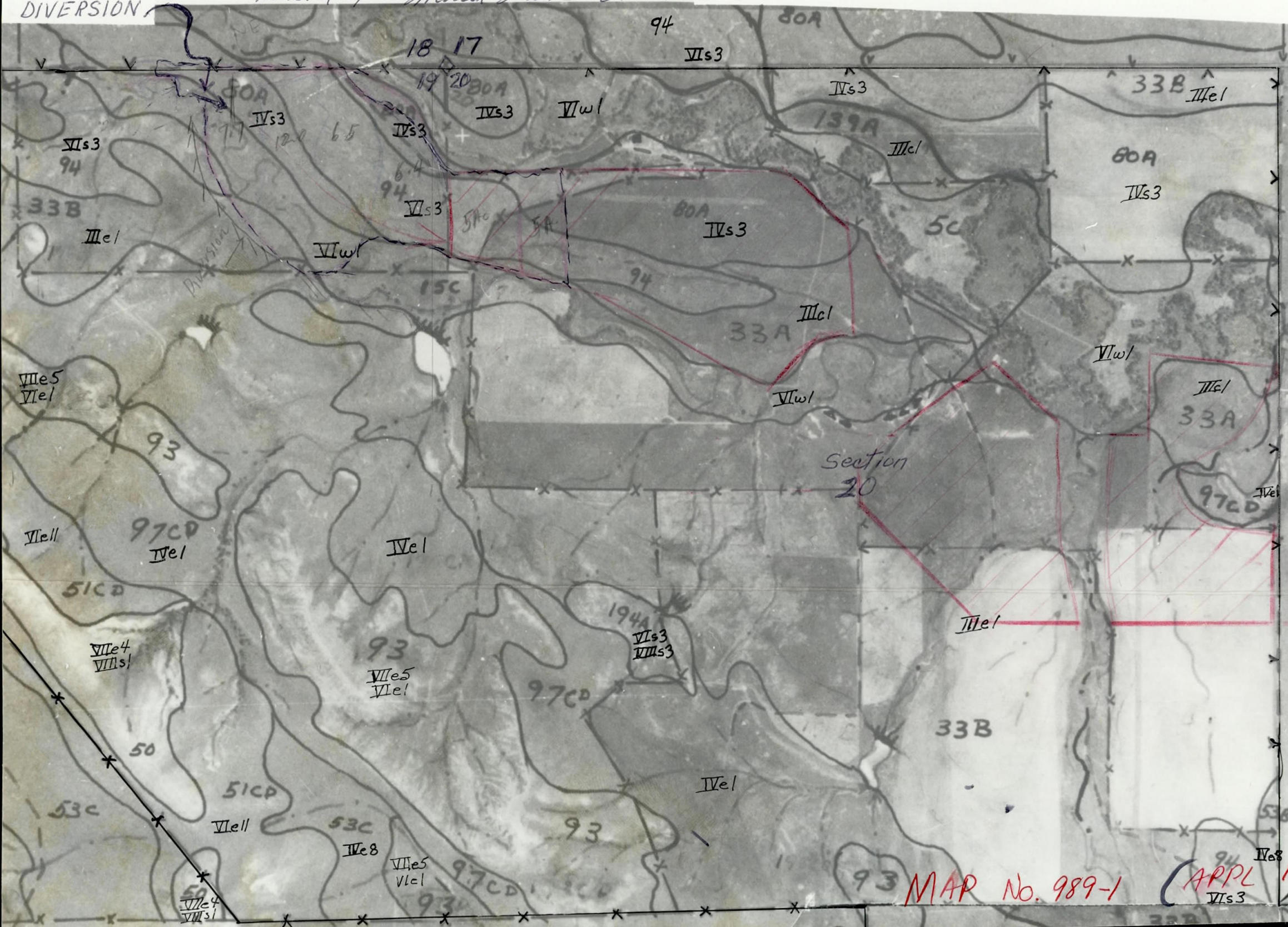
SOIL MAP

Owner MARVIN, AGA Operator -
County MEADE State SD
Soil survey sheet(s) or code No.(s) _____ Approx. scale 8" = 1 mile
PREPARED BY U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE
COOPERATING WITH ELK CREEK CONSERVATION DISTRICT.

R-7-E

POINT OF
DIVERSION

Assisted by Marion Kune Cons. Tech.



T-5-N

MAP No. 989-1

APPL 1179-1
VI s 3

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57007

Submitted by: Marvin E. Lee
 Address: Box 24
Sturgis, SD 57785

Date Rec'd: September 27, 1973
 Sample No.: 78-873
 Identification: Stoock Dam
Mar. Sec. 19, T 5N, R 7E

WATER ANALYSIS

Calcium (Ca)	72	ppm*	3.60	me/l**
Magnesium (Mg)	10	ppm	0.79	me/l
Sodium (Na)	40	ppm	1.74	me/l
Potassium (K)	34	ppm	0.88	me/l
Sulfate (SO ₄)	66	ppm	1.37	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	22	ppm	0.62	me/l
Bicarbonate (HCO ₃)	342	ppm	5.60	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)	280	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	669	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.18	adjusted	2.67	
Sodium	24.82	% of cations		
Residual sodium carbonate	1.21	me/l		
pH	7.94			
Others:				

*ppm=parts per million
 **me/l=millequivalents per liter
 ***g.p.g.=grains per gallon

COMMENTS: Total cations 7.01 me/l
 Total anions 7.59 me/l

By: Shirley Eitten

Service Performed

Amount Due

Irrigation analysis

\$15.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 78-873

Amount Enclosed \$

Signed

Conditional

Surface

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

(RECOMMENDED MANAGEMENT)

NAME OF APPLICANT Marvin Aga, Sturgis, SD

RECOMMENDED MANAGEMENT:

1. Water should not be applied more than 1, 2, 3, 4, 5, times during the irrigation season.
2. Each uninterrupted application (one rotation of center pivot) should be of at least 1, 2, 3, 4, inches of water.
3. ☒ Yes ☐ No Surface drainage suggested - if necessary to avoid ponding.
4. ☐ Yes ☐ No Subsurface drainage suggested
5. ☒ Yes ☐ No Specific land areas that should be avoided

Arvada soils (94) are not irrigable soils because of shallow surface soil over impermeable claypan and excessive sodium salts. To fit your field layout design, under gravity, small areas may by necessity be included.

6. ☒ Deep tillage (For the purpose of aiding movement of water through dense subsoils)

7. ☒ Heavy full application of irrigation water

Occasional deep tillage, usually after harvest, will help the leaching of any accumulated salt to the subsoil. The extent of such tillage, as to depth, frequency and spacing will be dictated by your experience.

By filling your soil profile with irrigation water in the fall of the year will permit snowmelt and/or precipitation to push soil moisture, with its soluble salts, downward.

As Dr. Fine suggested in his letter, a monitoring program or soil sampling should be initiated to determine the extent of salt movement out of the surface soil. The same place should be checked every 2 to 4 years to note changes.

Such sampling can be done in 1979, after your irrigation plan has been developed.

Copy to Applicant - 1
Copies to Water Rights - 2
Copy to File - 1

Form B - Proof of Publication - Notice of
Intent to Appropriate Water

No. 1179-1

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Minnehaha) ss.

I, Vernon A. Allison hereby

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

Water was taken from the Duckwater Lake

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 Sturgis

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

October 25, 1978

November 1, 1978

Vernon A. Allison
(Signature)

Publication
(Title)

10/27/78
(Date Signed)

NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER

Notice is hereby given that Marvin Aga, whose post office address is Sturgis, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-8; 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, and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 1.6 cubic feet of water per second of time from a dry draw through the Aga Diversion, the point of diversion which is to be located in the NW 1/4, NE 1/4 of Section 19, Twp. 3N, Range 7E. Said water to be used for the purpose of providing irrigation on portions of the following described land: NW 1/4, NE 1/4 and N 1/2 SE 1/4, Section 20, Twp. 3N, Range 7E.

This Application No. 1179-1 will be considered by the Water Rights Commission at SDEA Auditorium 411 E. Capitol, Pierre, South Dakota upon the 15th day of November, 1978 at 10 A. M. The Commission 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 Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission 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 Commission may be appealed to the Courts as provided by law.

WATER RIGHTS
COMMISSION

BETTY WESTLUND

Water Rights Specialist

Pub. Oct. 25 & Nov. 1, 1978



Publish first publication, on or before November 1, 1978 No. 1179-1

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 20, 1978

Notice is hereby given that Marvin Age whose post office address is Sturgis, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-8; 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, and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 1.6 cubic feet of

water per second of time from ~~XXX~~ a dry draw through the

Age Diversion, the point of diversion which is to be located in the NW 1/4 NE 1/4

of Section 19, Twp. 5N Range 7E. Said water to be used for the purpose of providing irrigation on portions of the following described land:

NW 1/4, NE 1/4 and N 1/2 SE 1/4, SECTION 20-T5N-R7E

*called 10-23 then
10-24 then
10-25 then
10-26 then
10-27 then
10-28 then
10-29 then
10-30 then
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10-100 then*

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WATER RIGHTS COMMISSION

BETTY WESTLUND

Water Rights Specialist

cc: Marvin Age, Box 24, Sturgis, SD 57785

Form 6 - Notice of Intent to Appropriate Water
SURFACE WATER

No. 1232-1 & 1179-1

SOUTH DAKOTA Department of
Water & Natural Resources
Joe Foss Building Water Rights Division
Pierre, South Dakota 57501 (605) 773-3352

January 20, 1982

Marvin Aga
Box 24
Sturpin SD 57785

Dear Mr. Aga:

The inspection of your water use system and inspection of the extent of your application of water to beneficial use, as developed under your Water Right No. 1232-1 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 issuing of the Water License. Upon receipt of the \$50.00 fee from you, your Water License will be sent to you, along with the Water Permit approved December 3, 1981.

You will also receive the Certificate of Construction as required by statute.

Sincerely,

KAREN SCHLAK
Administrative Secretary

NOTE: On form of payment, please include the number of the water permit. This insures proper handling of the fee.

The applicable portions of Water Permit No. 1179-1 will be incorporated into the Water License No. 1232-1, when issued.

.NR-814-7/79

Notification of Water License Ready for Issuing (\$50.00)