

1. Considered 3-17, 1976 2553.3
2. Name of Applicant DUANE MUXEN
3. Post Office Address DOLAND
4. Amount of water claimed 2.22
5. Source of water supply GROUND WATER (100' WELL)
6. Water to be used for IRRIGATION
- Acres to be irrigated 280
7. Water to be diverted and used in SPINK county
about 4 W miles of DOLAND
8. Proof of Publication Received ~~3-15-76~~ 1st
- Not Received _____
9. Application Approved _____
- Subject to _____
- Not Approved _____
- Action deferred _____

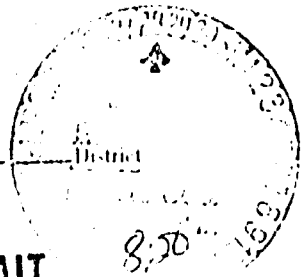
10. Remarks:

SEE 842-8

No. 2553-3

Map No. 1924-3 Water Division No. 3 JAMES RIVER

(Blanks to be filled by the Engineer for the Review)



APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE: Every line through items not applicable)

1. Name of Applicant Huane Mupen
 Post-office address Doland State S. Dak. 57401
 If a corporation show date and place of incorporation NO
2. Method of accomplishing work (contract, employment of others, or by direct labor) direct labor
3. Name of diversion work well
4. Amount of water claimed (cubic feet per second) 1000 gallon per minute
5. Source of water supply well
6. Location of point of diversion SW 1/4 33-117-61 (well)
we are going to pump water underground
to the S.E. 1/4 32-117-61 County Spear
7. Annual period or periods during which water is to be used Irrigation
8. Use to be made of water (irrigation, industrial, municipal, commercial, recreation, etc.) 280
9. For irrigation use, Total number of acres to be irrigated 280

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.
SW 1/4 33-117-61	157		
SE 1/4 32-117-61	123		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 1 years. Additional time required to complete application of water to the proposed beneficial use 1 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Doland Times Record
12. Principal Features of the Proposed Water Supply System.

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

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

C. Works proposed to apply water to beneficial use.

Estimated Total Cost \$ 50,000.-

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of Spear
I, [Signature] the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary constructionSigned [Signature]Subscribed and sworn to before me this 27 day of January 1976

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2553-3
DUANIE MUXEN DOLAND
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57436 With the following modifications:
 (State)

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

Date of first receipt of application JANUARY 28 19 76
 Date of return to applicant for correction, amendments or changes required — 19 —
 Date of receipt of corrected application FEBRUARY 23 19 76
 Approved MARCH 17 19 76 Recorded in Book 15 Page 62

WATER RIGHT PERMIT No. 2553-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2553-3 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 JANUARY 28 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17 19 76
3. The whole of said work is to be completed on or before MARCH 17 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17 19 78
5. The water appropriated shall be used for the purpose of IRRIGATION

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 2.22 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 17 19 78 said water to be used during the following described annual period: MAY - NOVEMBER

Witness my hand this 7th day of APRIL 19 76

WATER RIGHTS COMMISSION

John H. Hatcher
 Chief Engineer, Executive Officer

Certificate of Construction Issued SEPTEMBER 15 19 77

Water License Issued SEPTEMBER 15 19 77

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

D. Well Information or Estimates

(1) Drill Hole, Diameter 30", Depth 90'
(2) Casing, Type Extra Glass (wood, concrete, steel, etc.) Diameter 16" Thickness 1/4"
(3) Perforated Screen Type Extra Glass, Diameter 16", Length 90'
(4) Gravel Pack, Thickness 7", Length of gravel pack 40'

E. Dugout Information or Estimates

(1) Surface dimensions Well, 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 80 feet on sand & gravel

Depth to top of water bearing material 17 ft
Depth to bottom of water bearing material 100 ft
Thickness of water bearing material 83 ft
Depth to water (ground surface to water level) 17 ft

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

On same owner's property 80 rds. On property owned by others 140 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.

D. [Signature]
Signature of Applicant

February 10, 1976



Mr. Duane Muxen
Deland, SD 57436

Dear Mr. Muxen:

We have completed the analysis of the water sample submitted here about a week ago. It is our laboratory sample 276-059 and the original copy of the report of analysis is enclosed herewith for you to keep. I am also enclosing a copy of extension circular 654 with the quality of this water for irrigation purposes approximately designated by the red cross on the outside back cover. You will see that it is in the medium salinity, low sodium category.

This water is very good water compared to most of the wells in Spink County. You are indeed fortunate that you have encountered such a supply. There should be no chemical difficulty induced by the use of this water itself as far as soil changes are concerned. But I would warn you that there is always the possibility that a general water table rise would cause salt from the substratum of the Beotia soil to come up to the surface, because the Beotia silt loam that you have has the saline substratum under it. This being the situation, you should irrigate only as needed to completely moisten the root zone and never in excess of that except if salt accumulation at the surface is sufficient to interfere with plant germination and growth. If such a condition develops, please call on someone here from the Water Resources Institute, or a soils specialist from the extension service for recommendations on a leaching procedure or management operations which will diminish the problem.

A copy of this letter, and the water analysis, and the WI-1 form are being sent to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures

cc: State Conservation Commission

D. Pahl

Robert Sampson, County Extension Agent

CONSERVATION
COMMISSION
W1 #1

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

FOR COMMISSION USE ONLY

IRRIGATION SYSTEM _____

WATER QUALITY _____

SOILS CAPABILITY _____

APPROVED *[Signature]*

DISAPPROVED _____

NAME

Leane Thayer

ADDRESS

Holmdel, N.J. 08033

COUNTY

Aspen Co

LEGAL DESCRIPTION

1. WELL LOCATION

SW 1/4 33-117-61

2. AREA TO BE IRRIGATED

*SW 1/4 33-117-61 One
SE 1/4 32-117-61*

TYPE OF IRRIGATION

3. GRAVITY

SPRINKLER (INDICATE TYPE)

Center Pivot

4. CROPS TO BE IRRIGATED

Corn & Alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE

0-1

6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION

Beulia Light Loam

SALINE SUBSTRATUM

WATER QUALITY

(TO BE COMPLETED BY COMMISSION)

7. SAMPLE NUMBER

76-059

8. SALINITY

EC = 703 μ mhos/cm (medium)

9. SODIUM

SAR = 0.22 (low)

*Robert Lampert
Sprinkler Syst. Design
Redwood, N.J. 08060
51460*

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

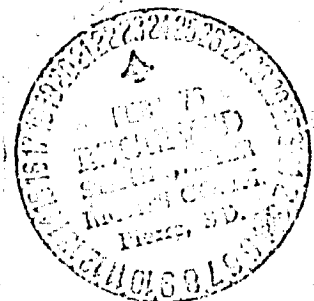
AND:

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

_____ DAY OF _____ 19 ____.

(TITLE)



REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57606

Submitted by: Dennis Muxen Date Rec'd February 2, 1976
 Address: Doland, SD 57436 Sample No. 76-059
 Identification Well-
SEL, Sec. 33, T 112N, R 61E

WATER ANALYSIS

Calcium (Ca)	110	ppm*	5.50	me/l**
Magnesium (Mg)	26	ppm	2.13	me/l
Sodium (Na)	19	ppm	0.84	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	44	ppm	0.92	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	3	ppm	0.09	me/l
Bicarbonate (HCO ₃)	429	ppm	7.04	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)	352	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	703	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.22			
Sodium	0.73	% of cations		
Residual sodium carbonate	0.0	me/l		
pH	7.70			

Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 8.63 me/l
 Total anions 8.05 me/l

By: Shirley Hittan

Service Performed	Amount Due
Irrigation analysis	\$8.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-059

Amount Enclosed \$

Signed

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2553-3

(1) WHEREAS, On the 28th day of January A. D. 19 76
Duane Muxen

made Water Right Application No. 2553-3 for a permit to use 2.22 cubic feet per second of the waters of ground water

County of Spink State of South Dakota, for Irrigation

purposes; and

(2) WHEREAS, On the 17th day of March A. D. 19 76

Permit No. 2553-3 with a date of priority of January 28, 1976

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 17th day of March A. D. 19 77 and for the application to beneficial use of said water on or before the 17th day of March A. D. 19 78

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 2.11 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 T117N, R61W

Section 32 NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33 acres

NE $\frac{1}{4}$ SE $\frac{1}{4}$ 33 "

SW $\frac{1}{4}$ SE $\frac{1}{4}$ 33 "

SE $\frac{1}{4}$ SE $\frac{1}{4}$ 6 "

Section 33 NW $\frac{1}{4}$ SW $\frac{1}{4}$ 33 "

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 33 "

SW $\frac{1}{4}$ SW $\frac{1}{4}$ 33 "

SE $\frac{1}{4}$ SW $\frac{1}{4}$ 33 "

TOTAL 237 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 Duane Muxen

_____ of Doland

the holder _____ and owner _____ of said permit No. 2553-3 a water right, dating from January 20, 1976

_____ to use 2.11 cubic feet per second of the waters

of ground water

in the County of Spink and State of South Dakota, or so much thereof as may be necessary for the

purposes hereinbelow mentioned, to be diverted at _____

a point 1290'N & 50'E of the SW1/4, Section 33, T117N, R61W

and conduct to and upon portions of Sections 32 & 33, T117N, R61W,

described on the face of this license

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2553-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota

this 15th day of September A. D.

Nineteen Hundred and seventy-seven

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer JOHN HATCH

Form 15.

Permit No. 2553-3

Water Diversion No. 3 James River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Duane Muzen

_____ the holder _____ of
Permit No. 2553-3, issued upon Application No. 2553-3, bearing date of priority of January 28,
1976 authorizing the diversion of 2.22 cu. ft. per second of the waters of _____
ground water County of Spink, State of South Dakota at _____
a point 1290' N & 50' E of the SW $\frac{1}{4}$, Section 33, T117N, R61W
_____, for irrigation

_____ purposes, has _____ 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 2.11 cu. ft. per second of water.

Date September 15, 1977

By:

~~WATER RIGHTS COMMISSION~~
WATER RIGHTS COMMISSION

John Hatch
JOHN HATCH, Chief Engineer

Form G - Notice of Intent to Appropriate Water

No. 2553-3

Publish first publication, on or before March 4, 1976

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

February 24, 1976

Notice is hereby given that Duane Muxen

whose post office address is Doland, 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

2.22 cubic feet of water per second of time from the ground water through the Muxen Irrigation Project, the point of diversion of which is to be located in the _____

NW $\frac{1}{4}$ SW $\frac{1}{4}$

of Section 33, Twp. 117N, Range 61W. Said water to be used for the purpose of providing irrigation on the following described land:

SW $\frac{1}{4}$, Section 33; SE $\frac{1}{4}$ Section 32, T117N, R61W

This application No. 2553-3 will be considered by the Water Rights Commission at their office at Pierre upon the 17th day of March, 1976, at 1:00 P.M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Duane Muxen
Doland, SD 57436

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Spink) ss.

I, Nicholas J. Miles hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the The Times-Record

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 Doland of Doland

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

March 4, 1974

March 11, 1976

Nicholas J. Miles
(Signature)

Publisher
(Title)

April 1, 1974
(Date Signed)



**PUBLIC
NOTICES**
"BECAUSE THE PEOPLE
MUST KNOW"

Form 8 - Notice of Intent
to Appropriate Water

No. 2553-3
Publication, first publication, on
or before March 4, 1976

NOTICE
INTENT TO APPROPRIATE
WATER
Pierre, South Dakota 57501
February 24, 1976

Notice is hereby given that
Duane Muxen whose post office
address is Doland, South Da-
kota, has made an application
in accordance with the pro-
visions of the water laws of
South Dakota for a permit to
appropriate for beneficial use
2.22 cubic feet of water per
second of time from the ground
water through the Muxen Ir-
rigation Project, the point of
diversion of which is to be
located in the NW 1/4 SW
1/4 of Section 33, Twp. 117
N., Range 61W. Said water to
be used for the purpose of pro-
viding irrigation on portions
of the following described land:
SW 1/4 Section 33; SE 1/4
Section 32, T117N, R61W.

This application No. 2553-3
will be considered by the Water
Rights Commission at their of-
fice at Pierre, upon the 17th
day of March, 1976, at 1:00
P.M. All interested persons
may appear and be heard.

WATER RESOURCES

COMMISSION

By: Burton F. Jones

BURTON F. JONES

Water Rights Specialist

BFJ/bw

cc: Duane Muxen
Doland, S. D. 57436

Permit No. 2553-3Water Division 3 James River Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

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 Duane Muxen
 of Doland, S. Dak 57436 holder
 of Permit No. 2553-3, bearing date of priority of January 28, 1976
 authorizing the diversion of 2.22 cu. ft. per second of the waters of Ground
 for Irrigation purposes, in Spink 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: Pump: Kayne Bowler, Vert. Line
Model V74, Serial # 60923, pumping 950 gpm.
 Motor: General Electric, Model 5K 6258X H 1A
Serial FMT 623354, H.P. 75, RPM 1775.

B. Works used to transport water to place of use,
2640 ft 8" dia PVC underground pipe.

C. Works used to apply water to beneficial use.
T+L Center Pivot, Coverage - 132 Acres

The system is in the following condition: Excellent

The point of diversion is located 1290 ft North and 50 ft East of the
SW corner of Section 33, T117N R61W

The works are capable of diverting and conveying to the place of use 241cu. ft. per second of water which is to be used for IrrigationWater has been put to beneficial use to the maximum extent as follows: All in T117N R61W

NW 1/4 Sec 32 - 33 Ac, NE 1/4 SE 1/4 Sec 32 - 33 Ac,
SE 1/4 SE 1/4 Sec 32 - 6 Ac, SW 1/4 SE 1/4 Sec 32 - 33 Ac,
NW 1/4 SW 1/4 Sec 33 - 33 Ac, NE 1/4 SW 1/4 Sec 33 - 33 Ac,
SW 1/4 SW 1/4 Sec 33 - 33 Ac, SE 1/4 SW 1/4 Sec 33 - 33 Ac.

comprising a total of 237 acres of land.

Well Data:

Depth 94 ft.Depth to water 16 ft.Pump set 42 ft.Casing 16" dia. Fiber Glass

Date Oct 1, 1976
L. Roy J. Merrough
 (Signature)



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

March 23, 1987

DUANE MUXEN
SR 2, BOX 29
DOLAND, SD 57440

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) 2553-3, 3062-3. 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). 2553-3, 3062-3 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.

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

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 15, 1987

3062-3
2553-3

Duane Muxen
SR 2 Box 29
Doland, SD 57436

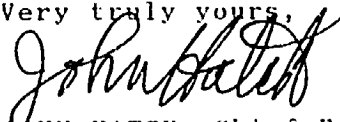
Dear Mr. Muxen:

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. 3062-3 and 2553-3 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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 7, 1992

(2553-3
3062-3

Barry Muxen
HC 2 Box 28A
Doland, SD 57436

Dear Mr. Muxen:

Enclosed are partially completed "Notice of Transfer" forms for use in filing an ownership change on Water Right Nos. 2553-3 and 3062-3. The water rights are currently listed in the name of Duane Muxen. The transfer forms are being sent in followup to the 1991 irrigation questionnaires.

The transfer forms should be checked over for accuracy and signed by the new owner in the presence of a notary public. Upon completion, return the forms to our office with a required filing fee of \$2.50 each (total of \$5.00).

South Dakota Water Law 46-5-20.3 requires Notice of any sale, grant, lease, conveyance or other transfer of a water permit or water right to appropriate water to be filed with this office within ninety days.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Natural Resources Analyst
(605) 773-3352

enclosures

1-8-92, Barry Muxen called - Permit No. 2553-3 does not need to be transferred. He operates this one - questionnaire should be sent to him.
Only 3062-3 will need to be transferred.
Genny

1980 water use

Interable with 130 acres alfalfa + 106 acres soybeans

900gpm 388Kwh

May	3 days	13 hrs./day on beam -	31060.00	gold. water
	4 days	24 hrs./day on abaka -	51840.00	" "
			11040.00	" "

June 4 day, approx. 24/day on beans — 5/840.00 " "
16 days, approx 24/day on alfalfa — 2/9736.00 " "

July about the same as June on both leano + alfalfa

Aug. 2 days 10 hrs./day on drains - 1,080,000 gals. water
6 days 20 hrs./day on alfalfa - 6,480,000 gals. water
static water level unknown at beginning & end

1979	366	Total acres irrigated	705	Total Kuch acres
1978	366	Total acres	717	" " "

Year	500 gals gasoline storage capacity	1500 " diesel fuel
1953-3		
1956-3		
1962-3		

1563-3
3062-3

decrease in irrigated areas
no problem getting fuel in 1980
fuel needs about the same for a dry year as a wet one 750 gals. avg. per yr

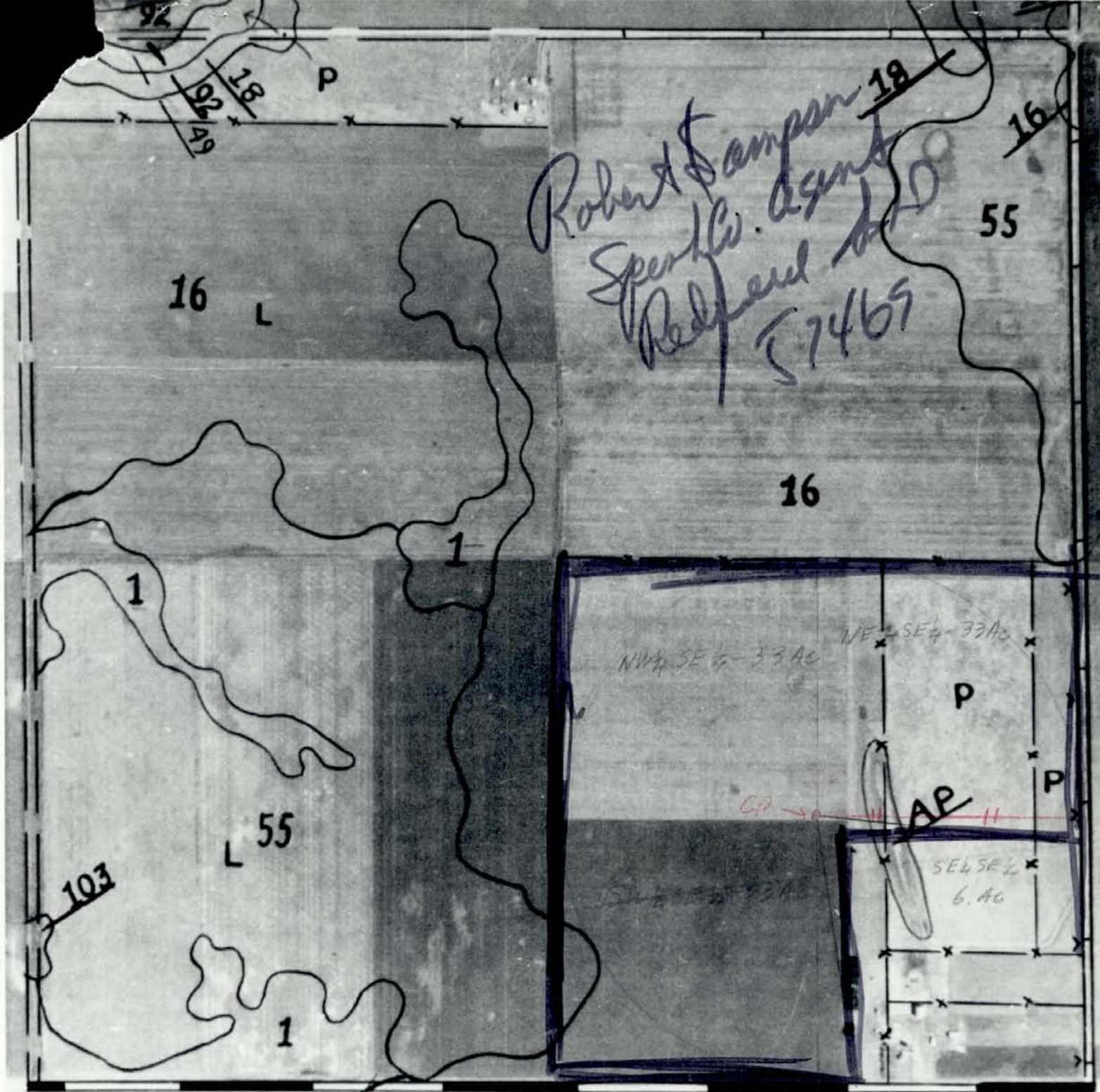


2553-3

The other point has 130 acres corn
850 gals. / min. 353 Kwh used

May	april, 6, 5 days	20 hrs./day	-	6,630,000 gals. water	
June	"	11 days	24 hrs./day	-	13,464,000 gals. water
July	"	13 days	20 hrs./day	-	13,260,000 gals. water
Aug.	"	10 days	13 hrs./day	-	6,630,000 gals. water

static water level not checked at beginning or end



PRAIRIE CENTER T117N R61W S32