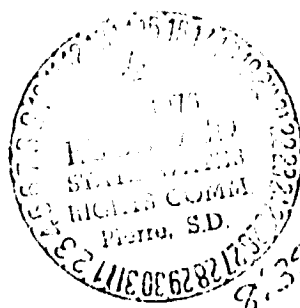


Water Right Number 3315-3

1. Considered 1-26, 19 77
2. Name of Applicant PAUL YOUNG
3. Post Office Address CHAYVILLE
4. Amount of water claimed 2.00
5. Source of water supply 90' WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 160
7. Water to be diverted and used in MARKTON County
about 1.5 Miles of CHAYVILLE
8. Proof of Publication
Received 12-29-76
Not received _____
9. Application
Approved _____
Subject to _____
Not approved _____
Action deferred _____
10. Remarks:

No. 3315-3Map No. 2601-3 Water Division No. 3 JAMES RIVER District
(Blanks to be filled by the Engineer for the W. R. 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 PAUL YOUNG
 Postoffice address RRI Gayville, State S.D. 57031
 If a corporation show date and place of incorporation _____
 2. Method of accomplishing work (contract, employment of others, or by direct labor) CONTRACT
 3. Name of diversion work PAUL YOUNG
 4. Amount of water claimed (cubic feet per second) 2-3.725
 5. Source of water supply WELL
 6. Location of point of diversion 4100 ft north and 2650 ft west of the
southeast corner of section 36-93-54
 County YANKTON
 7. Annual period or periods during which water is to be used MARCH - NOV 1
 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.
<u>NW 1/4 NE 1/4, N 1/2 NE 1/4</u>	<u>160</u>		
<u>NE 1/4 - 36-93-54</u>			

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 2 years.
 11. Choice of newspaper for Notice of Intent to Appropriate Water publication Press and Opinion - Yankton
 12. Principal Features of the Proposed Water Supply System.

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

Well and pump

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

Pipe

C. Works proposed to apply water to beneficial use.

Sprinkler type system (pivot)Estimated Total Cost \$ 45,000Attachments. 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 YanktonI, Paul Young, the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.Signed Paul YoungSubscribed and sworn to before me this 13 day of December 1976

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3315-3
PAUL YOUNG RR#1 GAYVILLE
 (Applicant) (Post Office Address)

SOUTH DAKOTA 57031 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 adequate domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application DECEMBER 14, 19 76
 Date of return to applicant for correction, amendments or changes required —, 19 —
 Date of receipt of corrected application —, 19 —
 Approved JANUARY 27, 19 77, Recorded in Book 17 Page 48

WATER RIGHT PERMIT NO. 3315-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3315-3 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 DECEMBER 14, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 27, 19 79
3. The whole of said work is to be completed on or before JANUARY 27, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 27, 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 2.28 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 reserved, 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 27, 19 84; said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 7TH day of APRIL, 19 77

WATER RIGHTS COMMISSION

By:

John Hatch
 Chief Engineer, Executive Officer

Certificate of Construction Issued —, 19 —

Water License Issued —, 19 —

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 16", Depth 90'
- (2) Casing, Type Plastic Diameter 16" Thickness _____
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Stainless Steel, Diameter 16", Length 25'
- (4) Gravel Pack, Thickness 4", Length of gravel pack 25'

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 25' water bearing sand and gravel

Depth to top of water bearing material 6.5'

Depth to bottom of water bearing material 90'

Thickness of water bearing material 25'

Depth to water (ground surface to water level) 25'

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

On same owner's property 160 rds. On property owned by others 320 rds.

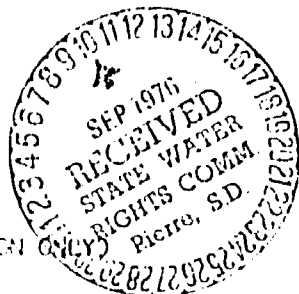
G. Water Storage Dams.

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.

Paul Young
Signature of Applicant

CONSERVATION
COMMISSION
FORM 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 GROUND WATER IRRIGATION)



NAME Albert and Paul Young
ADDRESS RR 1, Gaylesville, S.D.
COUNTY Yankton

LEGAL DESCRIPTION

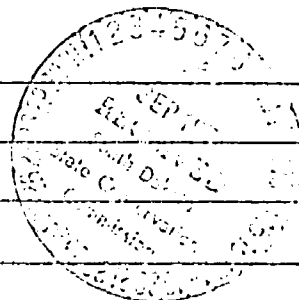
1. WELL LOCATION SW 1/4 of NE 1/4 36 9.3-54
2. LOCATION OF AREA TO BE IRRIGATED NE 1/4 36 9.3-54

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED Corn - Alfalfa - Soybeans

WATER QUALITY

5. SAMPLE NUMBER 76-1170
6. SALINITY (EC x 10⁶) 1416
7. SODIUM (SAR) 1.23
8. RESIDUAL SODIUM CARBOXYLATE (meq/l.) 0



I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from YANKTON CO. Conservation District, County Extension office or Soil Conservation Service.
and:
That the legal description for the location of the well and land to be irrigated is true and correct.

P. D. Young
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
10 DAY OF Sept 19 76.

State of South Dakota
(TITLE OR SEAL)

[Signature]
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

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

Submitted by: Paul Young
 Address: Gayville, SD 57031

Date Rec'd: August 17, 1976
 Sample No.: 76-1170
 Identification: Well -
NE 1/4, Sec. 36, T. 93N, R. 54E

WATER ANALYSIS

Calcium (Ca)	195	ppm*	9.75	mc/l**
Magnesium (Mg)	52	ppm	4.37	mc/l
Sodium (Na)	76	ppm	3.31	mc/l
Potassium (K)	11	ppm	0.29	mc/l
Sulfate (SO ₄)	405	ppm	8.42	mc/l
Nitrate (as N)		ppm		mc/l
Chloride (Cl)	21	ppm	0.60	mc/l
Bicarbonate (HCO ₃)	615	ppm	10.03	mc/l
Carbonate (CO ₃)		ppm		mc/l
Iron (Fe)		ppm		mc/l
Fluoride (F)		ppm		mc/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	504	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1416	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.23			
Sodium	16.36	% of cations		
Residual sodium carbonate	0.00	mc/l		
pH	7.17			

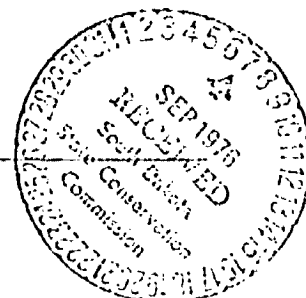
Others:

*ppm=parts per million

**mc/l=millequivalents per liter

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

COMMENTS: Total cations 12.02 mc/l
 Total anions 19.10 mc/l



By: Shirley Mitten

Service Performed	Amount Due
Irrigation analysis	\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-1170

Amount Enclosed \$

Signed

SOUTH DAKOTA STATE UNIVERSITY
BROOKINGS, SOUTH DAKOTA 57006

WATER RESOURCES RESEARCH INSTITUTE

September 20, 1976

Mr. Paul Young
Gayville, SD 57031

Dear Mr. Young:

Your water sample (Lab. No. 76-1170) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

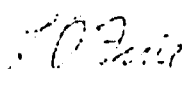
I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

This water is marginal for use on the soils you intend to irrigate and should be considered for use only under the following conditions:

- (1) It will be used no more than 3 times (preferably less) in any growing season.
- (2) The soil will be completely filled with water so natural leaching can occur, by irrigating in the late fall just before freeze-up, at least one year out of 3.
- (3) Water applications will be made each irrigation to completely re-wet the entire depleted soil within the rooting zone of the crop being grown. This may require 3-5 inches of water each irrigation with fine soils.
- (4) If a salt problem or soil dispersion occurs, contact extension personnel or this office for management recommendations.

During the extreme rush of samples the past few weeks, your application materials and the water analysis were forwarded to Pierre without a detailed recommendation as is now given in this letter. I hope this will explain the delay you have experienced.

Sincerely yours, .


L. O. Fine
Water Quality Lab

LOF:ckb
Enclosures

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

cooperating with
Yankton County

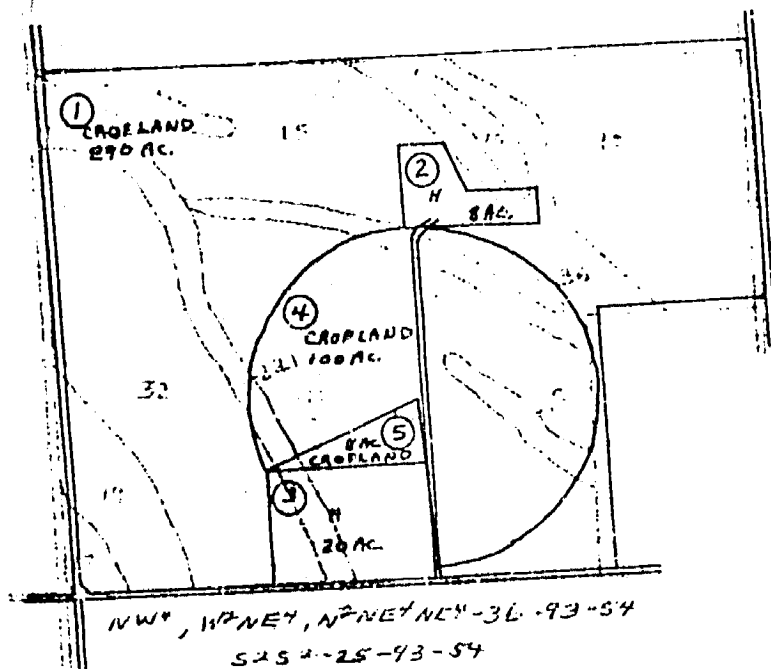


Owner Paul Young
Operator Paul Young
County Yankton State South Dakota

Conservation District Var
Plan No. 8-9-76
Scale 8" = 1 mile Acres 420
Approximate

Photo No.

Date 8-9-76 Scale 8" = 1 mile Acres 420
Prepared by the U.S. Department of Agriculture, Soil Conservation Service



SOIL AND CAPABILITY MAP

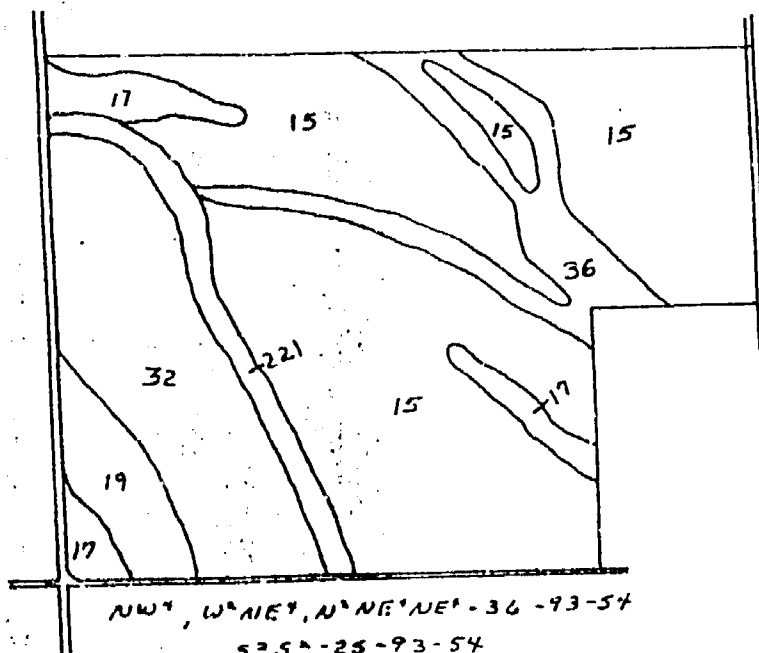
Yankton County Conservation District and
Soil Conservation Service cooperating.

Owner _____ Operator Paul Young

County Yankton State South Dakota Photo No. _____

Date Prepared 8-9-76 Scale: 3" = 1 mile Acreage 420

Prepared by the U.S. Department of Agriculture, Soil Conservation Service.



SD-CONS-1A
11/75

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SOIL INTERPRETATIONS

SOIL MAPPING UNITS	LAND USE and SOIL GROUP	SOIL GROUP DESCRIPTIONS
	<u>HEADQUARTERS</u> <u>WOODLAND</u> Woodland Suitability Group:	Group 1 - Moderately well drained soils having thick, dark colored upper horizons caused by additional moisture from run-in waters or beneficial overflow. Usually loamy and have medium to moderately fine textured subsoils and substrata. Very fertile. Without the limitations of wetness. Soils of this group are well suited for field windbreaks, farmstead and feedlot windbreaks, and recreation and wildlife plantings. Species Rated Good: Cedar, Eastern Red, Rocky Mt. Ponderosa Pine, Spruce, B.M. & Colorado Blue, Buffaloberry, Caragana, Chokecherry, Cotoneaster, Crabapple, Harbin Pear, Honeysuckle, Lilac, Nanking Cherry, Honeylocust, Willow-white, Golden. Species Rated Fair: Russian Olive, Boxelder, Cottonwood. Group 2 - Moderately wet, deep, somewhat poorly to poorly drained, mostly nearly level soils of variable textures, water-holding capacities, and infiltration and permeability rates. Reaction ranges from mildly to moderately alkaline-usually calcareous. Soils may be excessively wet or ponded during spring time or overflow periods, unless drained. Hazards and limitations are dominated by the wetness. Soils of this group are well suited to field windbreak plantings. They are also suited for farmstead and feedlot windbreaks, and for recreational and wildlife plantings. Species Rated Good: Cedar, Eastern Red, Rocky Mt. Ponderosa Pine, Spruce, B.M. & Colorado Blue, Crabapple, Harbin Pear, Honeysuckle, Lilac, Flam, American Elm, Siberian Elm, Dropmore, Chinkota, Green Ash, Hackberry, Honeylocust, Willow-white, and golden. Species Rated Fair: Buffaloberry, Caragana, Chokecherry, Cotoneaster, Nanking Cherry, Russian Olive, Boxelder.

RECORD OF COOPERATOR'S DECISION
AND PROGRESS IN APPLICATION

COOPERATOR Paul Young
ASSISTED BY Lloyd V. Gehl
DATE August 9, 1976

FIELD NO.	PLANNED		APPLIED		LAND USE AND TREATMENT
	AMOUNT	YEAR	AMOUNT	MONTH AND YEAR	
2,3	28 ac.	1977			CONSERVATION TREATMENT UNIT NO. - 1 Headquarters - Fields 2 & 3 - 28 acres. Headquarters - These fields are used for homesteads and cattle feedyards, and will be maintained to prevent erosion, and feedlot runoff. The areas consist of buildings, yards, and woodland. This land also provides comfort for wildlife and will be maintained to do much.
4,5	108 ac.	1977			CONSERVATION TREATMENT UNIT NO. - 2 Cropland - Irrigated - Fields 4 & 5 - 108 ac. Conservation Cropping System - Shall consist of continuous corn under irrigation, commercial fertilizer and barnyard manure will be used as an aid in maintaining fertility.
4,5	108 ac.	1977			Crop Residue Management - Crop residue will be managed so as to prevent soil blowing, improve fertility, improve tilth and increase water infiltration. The residue will be incorporated into the surface layer or left partially

RECORD OF COOPERATOR'S DECISION
AND PROGRESS IN APPLICATION

COOPERATOR Paul Young
ASSISTED BY Alfred V. Gehm
DATE August 9, 1976

FIELD NO.	PLANNED		APPLIED		LAND USE AND TREATMENT
	AMOUNT	YEAR	AMOUNT	MONTH AND YEAR	
4	1	1976			standing to facilitate these goals. No silage will be taken from this field, as the organic matter content and fertility will be maintained. Application of nitrogen fertilizer at the time of plowing or residue incorporation will help to maintain or even increase organic matter content.
4,5	100 ac.	1977			Well - Well will be dug to supply irrigation water. Irrigation Water Management: Irrigation water will be managed so that adequate water will be supplied to meet crop needs. Care will be taken to avoid over-irrigation in order to maintain sufficient aeration for maximum plant growth, and to prevent leaching of vital nutrients and subsequent pollution of the local ground water. The majority of the area to be irrigated consists of Haynie soil. This soil will hold approximately 6.4 inches of water in the top 4 feet which is available for plant use. Recommended water application procedures for corn on this type of soil.

RECORD OF COOPERATOR'S DECISIONS
 AND PROGRESS IN APPLICATION

COOPERATOR Paul Vonn
 ASSISTED BY Ilse V. Geba
 DATE August 9, 1976

FIELD NO.	PLANNED		APPLIED		LAND USE AND TREATMENT
	AMOUNT	YEAR	AMOUNT	MONTH AND YEAR	
					during the period of winter accumulative use is the application of 3.0 inches every 15 days. During the period of the growing season when crop needs are less, it is recommended that the crops be irrigated less often but with the same application amount. Care will also be taken to ensure that the quality of irrigation water to be used is and continues to be such that it has no harmful detrimental effect on the soil. Waterpumps and canals systems may need to be altered to avoid damage from such water. Attached is a guide to assist in water management. This guide presents ideas and pictures on how to determine the amount of water to apply by feel and appearance method. This will be especially helpful in field 5, which will be irrigated by the furrow method. Willage methods will be such as to control weeds and produce a crop with as few trips as possible over the field. We will be handled so that good soil structure is maintained. Spring plowing with a moldboard plow will be the most common tillage method used.

USDA-SCS
SEC. 1024-1
REV. 7-71

RECORD OF COOPERATOR'S DECISIONS
AND PROGRESS IN APPLICATION

COOPERATOR Paul Young
ASSISTED BY Lloyd V. Gehm
DATE August 9, 1976

FIELD NO.	PLANNED		APPLIED		LAND USE AND TREATMENT
	AMOUNT	YEAR	AMOUNT	MONTH AND YEAR	
1	230 ac.	1977			preparing the seedbed and incorporating crop residue. Depth of plowing will be varied each year to avoid development of a plow pan, which would impede water infiltration, and root penetration. Chiseling will also help in maintaining proper soil structure. Use of a subsoiler may also be beneficial in the areas of soil numbered 17, 36, and 221 in order to improve infiltration rate, as these soils have a much slower intake rate than does the majority of the area in these fields. A guide is enclosed which will help present ideas on conservation tillage which may be helpful to the operator. CONSERVATION TREATMENT UNIT NO. - 2 Cropland - Nonirrigated - Field 1 - 230 acres. Conservation Cropping System - Shall consist of alternate rowcrop and alfalfa. Commercial fertilizer and herbicide programs will be used to maintain soil fertility. (Also will be taken from the same area) - more frequent than once every four years, to help

USDA-ARS
SCL-CON-81
REV. 7-72

RECORD OF COOPERATOR'S DECISIONS
AND PROGRESS IN APPLICATION

COOPERATOR Paul Young

ASSISTED BY Lloyd V. Fehm

DATE August 9, 1976

FIELD NO.	PLANNED		APPLIED		LAND USE AND TREATMENT
	AMOUNT	YEAR	AMOUNT	MONTH AND YEAR	
1	290 ac.	1977			maintain organic matter content. <u>Crop Residue Management</u> - Crop stubble will be managed with a minimum of tillage operations. Crop stubble will be maintained on or near the surface to protect the soil from wind erosion, to help maintain organic matter content, and to improve infiltration.

SO-CONS-1A
11/75

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SOIL INTERPRETATIONS

SOIL MAPPING UNITS	LAND USE and SOIL GROUP	SOIL GROUP DESCRIPTIONS
221	Group 10 -	Soils of this group are undesirable for tree planting. Generally soils of this group are too shallow, too stony or rocky, too steep for tree planting with machinery and too droughty, wet, clayey or salty for good survival and growth of shrub and tree plantings. Limitations may include impermeable substratum, low water-holding capacities and availability, low fertility, or extreme denseness and compactness of subsoil which limits growth and insufficient material for rooting and growth. The soils of this group are not suited to planting or any kind due to unfavorable qualities and characteristics. Some may be used for recreational and wildlife planting of tolerant tree or shrub species if hand planted or other special approved practice is used. Undesirable for trees.
CROPLAND		
Capability Units:		
15	Haynie silt loam 0-1% slope Class II Irrigation Intake Family 1.0	This deep, nearly level, moderately well drained soil is on some of the higher portions near the present channel of the Missouri River. Permeability is moderate and available water capacity is high. Surface runoff is slow. Organic matter and fertility are low. Soil may be subject to wind erosion when soil cover is reduced.
17	Haynie silty clay overwash 0-1% slope Class IIv3 Irrigation Intake Family 1	This deep, nearly level, moderately well drained soil is on some of the lower portions near the present channel of the Missouri River. Areas of this soil are usually long, narrow, and curved in shape. The clayey surface layer causes permeability to be slow in the upper portion but permeability is moderate below this layer. Available water capacity is high. Surface runoff is slow. Organic matter and fertility are low.
19	Omaha silty clay 0-1% slope Class IIv3	This mapping unit consists of nearly level, somewhat poorly drained soils on some of the lower positions near the present channel of the Missouri River areas of this soil are usually long, broad, and curved in shape. Permeability is slow in the surface and subsoil layers and moderate in the

SOIL INTERPRETATIONS

SOIL MAP UNIT	LAND USE and SOIL GROUP	SOIL GROUP DESCRIPTIONS
32	Fernox soils, overwash 0-2% slopes Class IIW2	underlying material. Available water capacity is high. Organic matter and fertility are low. Major problems with this soil are related to soil blowing, poor tilth, and delayed farming operations due to surface wetness. This nearly level, poorly drained soil is on some of the lower portions near the present channel of the Missouri River. In some places, the underlying material is highly stratified with thin layers of contrasting textures and colors. Permeability is slow; available water capacity is moderate, surface runoff is slow. Organic matter and fertility are moderate. Major problems are related to poor tilth, delayed farming operations due to wetness, and soil blowing during dry windy periods when soil cover is inadequate.
36	Modale silty clay overwash 0-2% slopes Class IIW2 Irrigation Intake Family .5	This nearly level, somewhat poorly drained soil is on some of the lower portions from the mid-sections to the present channel on the Missouri River bottom. This soil is typically characterized by a firm silty clay surface layer about 18 inches thick, a very fine sandy loam subsurface about 20 inches thick, and silty clay underlying material. This variation in texture causes the permeability to be slow in the surface layer, moderate in the subsurface, and slow in the underlying material. Available water capacity is moderate and surface runoff is slow. Organic matter and fertility are moderate.
221	Luton silty clay, depressional 0-2% slopes Class VW2	This deep very poorly drained, nearly level, phase of the Luton soil is in former meander scars on the Missouri River bottom. Areas are long and narrow in shape. Permeability is very slow and available water capacity is moderate. This soil is high in natural fertility and organic matter content, but has poor tilth and is difficult to work. It has an elastic type of clay which releases moisture slowly. It has a high shrink-swell potential and is subject to flooding by runoff. It has a seasonal high water table within 3 feet of the surface.

No. 3315-3

Publish first publication, on or before January 13, 19 76.

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

December 15, 19 75

Notice is hereby given that Paul Young
whose post office address is Gayville, 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
Paul Young # 1, the point of diversion of which is to be located in the
NW $\frac{1}{4}$ & NE $\frac{1}{4}$, Section 36, T93N, R54W

of Section 36, Twp. 93N, Range 54W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:

NW $\frac{1}{4}$ & NE $\frac{1}{4}$, Section 36, T93N, R54W

This application No. 3315-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 25th day of JANUARY, 19 77, at 10:00 A.M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Paul Young, R.R. # 1, Gayville, SD 57031

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

No. 2715-7

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Yankton) ss.

I, Harry J. Threes hereby

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

Water was taken from the Reilly Ditch, S. Dakota

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 Yankton

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

December 20, 1976

December 27, 1976

[Signature]
(Signature)

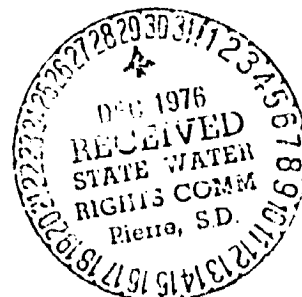
Business Manager
(Title)

12-27-76
(Date Signed)

12 + 20327
NOTICE INTENT
TO APPROPRIATE WATER

Notice is hereby given that Paul Young, whose post office address is Gayville, 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 ground water through the Paul Young #1, the point of diversion of which is to be located in the NW 1/4 & NE 1/4, Section 36, T93N, R54W of Section 36, Twp. 93N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

NW 1/4 & NE 1/4, Section 36, T93N, R54W. This application No. 3315-3 will be considered by the Water Rights Commission at their office Pierre upon the 28th day of January, 1977, at 10:00 A.M. All interested persons may appear and be heard.
Water Rights Commission
By: BURTON F. JONES
Water Rights Specialist



STATE OF SOUTH DAKOTA
DEPARTMENT OF AGRICULTURE
DIVISION OF WATER RESOURCES
WATER RESOURCES DIVISION
(THIS FORM IS TO BE FILLED OUT BY THE APPLICANT AND SUBMITTED TO THE DIVISION OF WATER RESOURCES)

NAME PAUL YOUNG
ADDRESS RR1 GAYVILLE, S.D.
CITY _____

LEGAL DESCRIPTION

1. WELL LOCATION NO. 2 WELL - 56 15' N AND 1350' W OF THE SE CORNER 36-93-54
NO. 3 WELL - 3225' N AND 3950' W OF SE CORNER 36-93-54
NO. 4 WELL - 3925' N AND 4530' W OF SE CORNER 36-93-54
2. LOCATION OF AREA TO BE IRRIGATED S 1/2 OF S 1/2 25-93-54 - 160 A
N 1/4, W 1/2 OF NE 1/4, N 1/2 OF NE 1/4 - 36-93-54
230 A

TYPE OF IRRIGATION

3. GRAVITY _____ TOWARD WINDMILL 2+3 WELLS
4. CROPS TO BE IRRIGATED CORN - SOY BEANS - ALFALFA

WATER QUALITY

	#1 well	#2 well	#3 well	#4 well
5. SAMPLE NUMBER	77-312	77-343	77-314	
6. SALINITY (EC X 10 ⁶)	990 (moderately high)	990	990	
7. SODIUM (SAR)	1.68 (low)	1.59	1.51	
8. RESIDUAL SODIUM CARBONATE (meq/l.)	0	0	0	

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and; the soils information has been acquired from Yankton Co. Soil Conservation District, County Extension office or Soil Conservation Service, and; that the legal description for the location of the well and land to be irrigated is true and correct.

Paul Young
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
24 DAY OF February 19 77.

Edna J. Jensen
(TITLE OR SEAL)

Albert L. Jensen
APPROVED BY YANKTON CO. SOIL

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

Submitted by **Paul Young**
 Address **Rt. 1, Box 48**
Gayville, SD 57031

Date Rec'd **February 28, 1977**
 Sample No. **77-342**
 Identification **#2 Well-**
SE $\frac{1}{4}$, Sec. 36, T 93N, R 54W

WATER ANALYSIS

Calcium (Ca)	91	ppm*	4.55	me/l**
Magnesium (Mg)	32	ppm	2.62	me/l
Sodium (Na)	73	ppm	3.18	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	235	ppm	4.89	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	21	ppm	0.59	me/l
bicarbonate (HCO ₃)	386	ppm	6.32	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)	316	ppm (as CaCO ₃)		
Alkalinity (Methyl Orange)	0	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	990	micromhos per cm at 25° C.		
Electrical Conductivity	1.68			
Sodium Adsorption Ratio	30.25	% of cations		
Sodium	0.00	me/l		
Residual sodium carbonate	7.71			
pH				

Others:
 *ppm=parts per million
 **me/l=millequivalents per liter

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

COMMENTS: Total cations **10.51 me/l**
 Total anions **11.80 me/l**

By: **Shirley Kitten**

Service Performed	Amount Due
Irrigation analysis	\$15.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. **77-342**

Amount Enclosed \$

Signed

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

Submitted by: Paul Young	Date Rec'd: February 28, 1977
Address: Rt. 1	Sample No.: 77-343
Gayville, SD 57031	Identification: Well- #3
	SE 1/4, Sec. 36, T 93N, R 54W

WATER ANALYSIS

Calcium (Ca)	118	ppm*	5.90	me/l**
Magnesium (Mg)	30	ppm	2.46	me/l
Sodium (Na)	75	ppm	3.26	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	230	ppm	4.78	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	22	ppm	0.60	me/l
Bicarbonate (HCO ₃)	366	ppm	6.00	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)	300	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	990	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.59			
Sodium	27.67	% of cations		
Residual sodium carbonate	2.00	me/l		
pH	7.79			
Others:				

*ppm = parts per million

**me/l = milliequivalents per liter

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

COMMENTS: To cations	11.78 me/l
To anions	11.38 me/l

By: **Shirley Litten**

Service Performed	Amount Due
Irrigation analysis	\$15.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. **77-343**

Amount Enclosed \$

Signed

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

Submitted by **Iaul Young**
 Address **Gayville, SD 57031**

Date Rec'd **February 28, 1977**
 Sample No. **77-344**
 Identification **#4 Well-**
SE $\frac{1}{4}$, Sec. 36, T 93N, R 54W

WATER ANALYSIS

Calcium (Ca)	130	ppm*	6.50	me/l**
Magnesium (Mg)	31	ppm	2.54	me/l
Sodium (Na)	74	ppm	3.22	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	235	ppm	4.89	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	23	ppm	0.64	me/l
Bicarbonate (HCO ₃)	381	ppm	6.24	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)	312	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	990	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.51			
Sodium	25.92	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.70			

Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 12.42 me/l
 Total anions 11.77 me/l

By: **Shirley Mitten**

Service Performed

Amount Due

Irrigation analysis

\$15.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. **77-344**

Amount Enclosed \$

Signed

SOIL AND CAPABILITY MAP

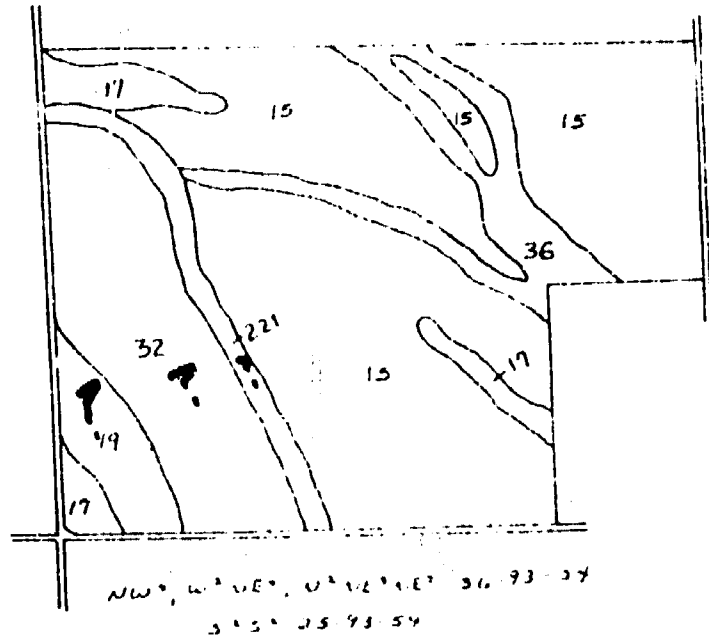
Yankton County Conservation District and
Soil Conservation Service cooperating.

Owner _____ Operator Paul Young

County Yankton State South Dakota Photo No. _____

Date Prepared 8-9-76 Scale: 8" = 1 mile Acreage 420

Prepared by the U.S. Department of Agriculture, Soil Conservation Service.



No. 3

No. 2

WELL-PLANNED 1971

WELL-PLANNED 1973

25

CENTER

PILOT

NO. 1

WELL-DUG 1977

PERMIT NO. 3315-3

NO. 4

WELL-PLANNED 1972

FLOOD
IRRIGATION

H

IRRIGATION PIPE
RISE

25	25
36	
1	

SCALE = 8 INCHES PER MILE



WELL LOCATION:

NO. 1 3915 FT. NORTH AND 2650 FT.
WEST OF THE SOUTHEAST CORNER
OF SECTION 36-93-54

NO. 2 5625 FT. NORTH AND 1350 FT.
WEST OF THE SOUTHEAST CORNER
OF SECTION 36-93-54

NO. 3 5225 FT. NORTH AND 3950 FT.
WEST OF THE SOUTHEAST CORNER
OF SECTION 36-93-54

NO. 4 3925 FT. NORTH AND 4550 FT.
WEST OF SOUTHEAST CORNER
OF SECTION 39-93-54

36

CLAY COUNTY



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 26, 2000

1680A-3
3315-3
3846-3

Paul Young
309 James Pl
Yankton, SD 57078-4906

Dear Mr. Young:

Enclosed is a "Notice" dated October 20, 2000 concerning the 2000 irrigation questionnaire. The notice was originally mailed to 810 Birch Rd #2, Yankton, SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

enclosures



December 4, 2001

Paul Young
809 James Place
Yankton, SD 57078-5906

Dear Mr. Young:

Enclosed are the "2001" irrigation questionnaires you submitted for Water Permit Nos. 3315-3 and 3846-3 and Water Right No. 1680A-3. In order for us to calculate the amount of water used during this past crop season, you will need to complete the back side of the forms.

Please complete and return the forms to us by December 17, 2001. I am enclosing a postage paid envelope for your convenience in returning the forms.

Thank you in advance for your help.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

3315-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr



3315-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 17, 2003

NOTICE

TO: PAUL YOUNG, 3103 ALUMAX RD, YANKTON, SD 57078 6433

FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2002 Irrigation Questionnaire(s)

Our records indicate that the 2002 Irrigation Questionnaire has not been submitted for Permit No(s) 1680A-3, 3315-3 & 3846-3. The request for the Questionnaire was dated October 11, 2002. The Water Management Board has directed that owners of water permits who have not submitted the 2002 Irrigation Questionnaire be given notice of hearing to determine if any Board action is to be taken concerning this issue.

The hearing will be held at 8:30 am, March 5, 2003, in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. Following the hearing, the Water Management Board can:

1. Amend Permit No(s) 1680A-3, 3315-3 & 3846-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action; or
3. Take no action.

The hearing 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.

If the questionnaire(s) is(are) received in this office on/or before February 28, 2003, your name will be deleted from the Board agenda. If you have any questions or need assistance with completion of the irrigation questionnaire(s), please contact Genny McMath at (605) 773-3352.

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 29, 2003

1680A-3
3315-3
3846-3

Paul Young
3103 Alumax Rd
Yankton SD 57078-6433

Dear Mr. Young:

I am writing to acknowledge receipt of your 2002 irrigation questionnaires. You may disregard the January 17, 2003, "Notice" concerning reporting requirements for Water Permit or Right Nos. 1680A-3, 3315-3 and 3846-3.

I completed questionnaires for you based on our January 23rd telephone conversation. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

Thank you for calling and if you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

YANKTON Co.

Gayville Twp.

N



WELL

LOCATION:

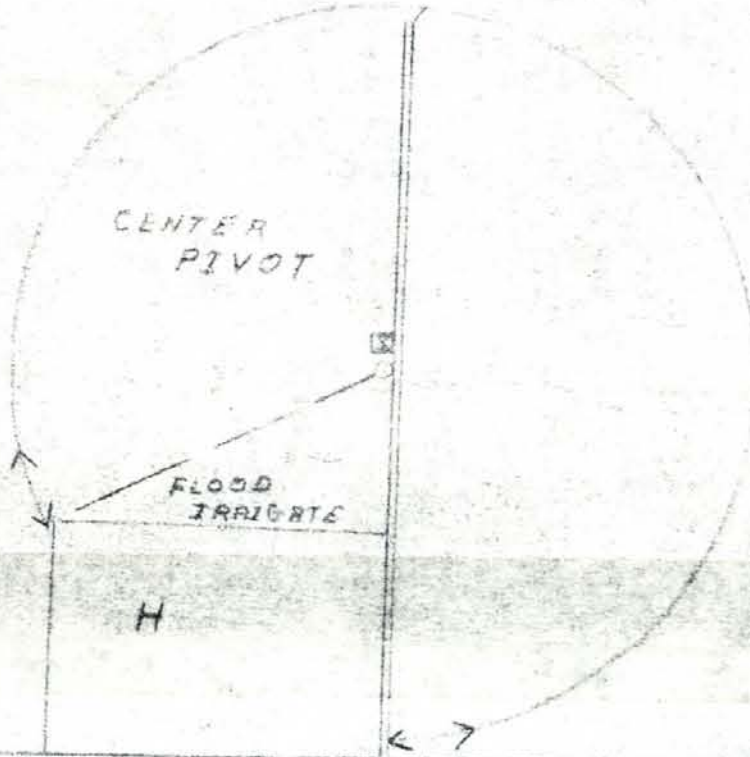
4100 FT. NORTH AND 2650 FT.
WEST OF THE SOUTH EAST CORNER
OF SECTION 36-93-54
YANKTON COUNTY, SOUTH DAKOTA

36
1

SECTION CORNER

IRRIGATION PIPE
RISED

SCALE = 8 INCHES PER MILE



36
1

CLAY COUNTY

DRAWING NUMBER

SHEET 2 OF 5

DATE

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

ASSISTING

SOIL CONSERVATION DISTRICT

REFERENCE
PLANNING ASSISTANCE BY LLOYD G. H. M.

DISTRICT CONSERVATIONIST

SOIL CONSERVATION SERVICE

MAP NO 2601-3 APP NO 3315-3



3315-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 30, 2006

3315-3
3846-3
6458-3

Paul Young
815 James Place
Yankton SD 57078

Dear Mr. Young:

Enclosed is a "Notice" dated October 20, 2006 concerning the 2006 irrigation questionnaire. The notice was originally mailed to 3103 Alumax Rd, Yankton SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

MAY 10 2007

6458-3
3315-3
3846-3

Paul Young
815 James Place
Yankton SD 57078-4906

Dear Mr. Young:

Enclosed is Water License No. 6458-3. A map of your project as prepared by a staff engineer is also enclosed. 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. 6458-3, 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.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

Note: The applicable portions of Nos. 3315-3 and 3846-3 are incorporated into Water License No. 6458-3.

enclosures