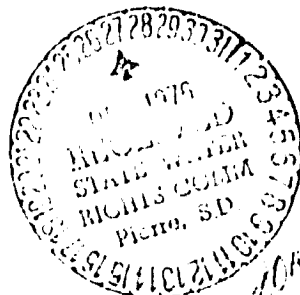


Water Right Number 3369-3

1. Considered 1-26, 19 77
2. Name of Applicant MORRIS & LUVERNE NELSON
3. Post Office Address YANKTON
4. Amount of water claimed 4.0
5. Source of water supply 220' WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 275
7. Water to be diverted and used in YANKTON County
about 5 N Miles of YANKTON
8. Proof of Publication
Received 1-21-77
Not received _____
9. Application
Approved _____
Subject to _____
Not approved _____
Action deferred _____

10. Remarks:

No. 3369-3Map No. 2655-3 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: MORRIS and LUCERNE NELSON
 Postoffice address: RR 2, Box 307 YANKTON, State S. DAK
 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 NELSON PROJECT NO. 2
4. Amount of water claimed (cubic feet per second) 2 WELL
5. Source of water supply WELLS
6. Location of point of diversion WELL NO. 1 - NW 1/4 of NW 1/4-19-94-55
WELL NO. 2 - NW 1/4 of SW 1/4-19-94-55
 County YANKTON
7. Annual period or periods during which water is to be used MARCH 1 - 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: 275

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 19 94-55</u>	<u>150</u>		
<u>SW 1/4 19 94-55</u>	<u>12.5</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: ARGUS LEADER
SILVER FALLS, S.D.
12. Principal Features of the Proposed Water Supply System.

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

WELLS

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

P, P, P

C. Works proposed to apply water to beneficial use.

SPRINKLER TYPE SYSTEM (PIVOT)Estimated Total Cost: \$100,000Attachments: 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 YANKTON) ss.I, MORRIS and LUCERNE NELSON 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 MORRIS and LUCERNE NELSONSubscribed and sworn to before me this 23 day of September 1976

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3264-3

MARRIE E. LIVERNE NELSON
(Applicant)

P.O. Box 307, VANDERBILT
(Post Office Address)

SOUTH DAKOTA 57078
(State)

With the following modifications:

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 27, 1976

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

Date of receipt of corrected application , 19

Approved JANUARY 27, 1977, Recorded in Book 17, Page 183

WATER RIGHT PERMIT NO. 3369-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3369-3 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 27, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 27, 1979
3. The whole of said work is to be completed on or before JANUARY 27, 1982
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 27, 1984
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 4.0 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before JANUARY 27, 1984; said water to be used during the following described annual period: MARCH 1 - NOVEMBER 1

Witness my hand this 11TH day of APRIL, 19 77

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued , 19

Water License Issued , 19

IRRIGATION DRILLING CO., INC.

P. O. Box 1252

Ph. 352-4587

DRILLING REPORT

Location of Well: _____ 1/4, _____ 1/4, Section _____, _____

Well to be drilled for: _____ (Name) _____ (Address)

(County) _____ (State) _____

Date well drilling started 1/1/68 finished 1/1/68

Purpose of well _____ (domestic, irrigation, industrial, other)
--

North 210° Casing Diameter 2 1/4 inches 210° Write Additional Times and Readings on Back of Page

Screen Size 273

Screen Depth: From 7 1/2 ft. to 10 ft. _____

Elapsed Time	Start of Pumping	Water Level	Discharge

Remarks:				O hr.	O min.	150 ft.	lt.	(Static)
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1 Mile	hr.	min.	ft.	in.	GPM
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hr. min.
ft. in.
GP

		hr.	min.	ft.	in.	GP

hr.	min.	ft.	in.	75
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Depth (ft.)

From	To	From	To
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Tate Noel	0	2
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<i>Richard Hill</i>	<i>n</i>	<i>23</i>			
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1990-1991	23	101		
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Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 14", Depth 220
- (2) Casing, Type Steel (wood, concrete, steel, etc), Diameter 14", Thickness 2.19 WALL
- (3) Perforated Screen.
Type STAINLESS STEEL, Diameter 14", Length 25'
- (4) Gravel Pack, Thickness 11", Length of gravel pack 220'

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 _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property 60 rds. On property owned by others 120 rds.

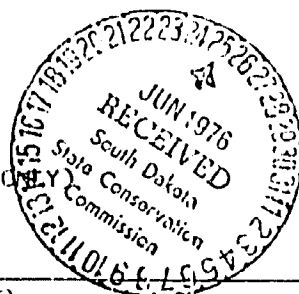
G. Water Storage Dams.

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.

Maria Nelson
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 ONLY)



NAME Morris Nelson
ADDRESS Rt #2 Box 307 Yankton, S.Dak.
COUNTY Yankton

LEGAL DESCRIPTION (Center of)

1. WELL LOCATION NW 1/4 - Sec 19 94-59
2. LOCATION OF AREA TO BE IRRIGATED NW 1/4 Sec 19 Nelson Hill
Township

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____
4. CROPS TO BE IRRIGATED Corn

WATER QUALITY

5. SAMPLE NUMBER 76-642
6. SALINITY (EC X 10⁶) 1305 (high)
7. SODIUM (SAR) 0.92 (low)
8. RESIDUAL SODIUM CARBONATE (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 _____ 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.

Morris Nelson
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
9th DAY OF JUNE 19 76.

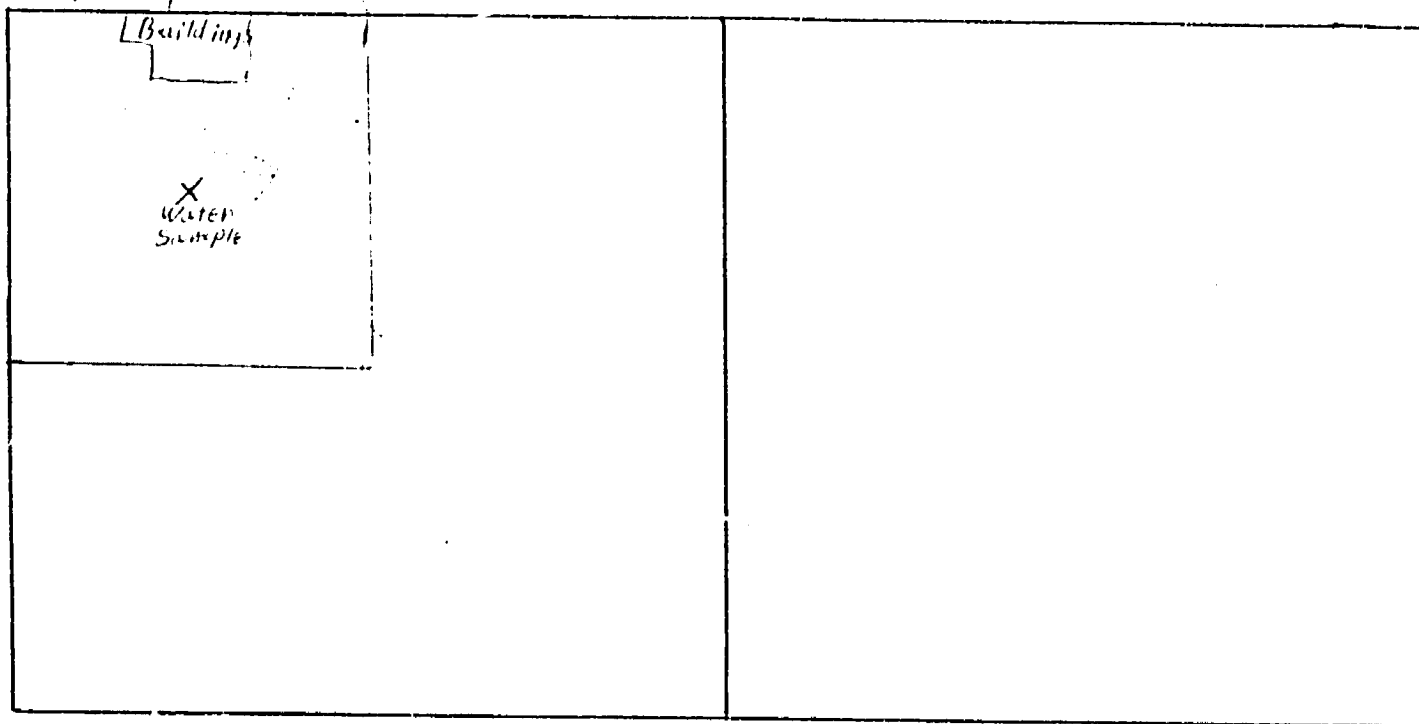
[Signature]
(TITLE OR SEAL)

[Signature]
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

NW $\frac{1}{4}$ Sec 19

MAP



NARRATIVE

Farm mapped as J M 4 C
2-1

Deep, loamy well and moderately drained
soils of nearly level ground

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

Submitted by: Korrie Nelson
 Address: Box 307
Yankton, SD 57078

Date Rec'd: June 14, 1976
 Sample No.: 76-642
 Identification: 11-
June 19, 1941, 151

WATER ANALYSIS

Calcium (Ca)	100	ppm*	10.00me/l**
Magnesium (Mg)	96	ppm	7.37me/l
Sodium (Na)	42	ppm	1.33me/l
Potassium (K)	16	ppm	0.43me/l
Sulfate (SO ₄)	735	ppm	11.29me/l
Nitrate (as N)		ppm	me/l
Chloride (Cl)	7	ppm	0.19me/l
Bicarbonate (HCO ₃)	192	ppm	3.14me/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)	157	ppm (as CaCO ₃)	
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)	
Electrical Conductivity	1205	micromhos per cm at 25° C.	
Sodium Adsorption Ratio	0.92		
Sodium	0.09%	% of cations	
Residual sodium carbonate	0.0	me/l	
pH	7.73		
Others:			

*ppm==parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 20.13 me/l
 Total anions 18.62 me/l



By: Kimley-Horn

Service Performed	Amount Due
Irrigation analysis	\$ 0.00

Make checks payable to: Water Quality Laboratory

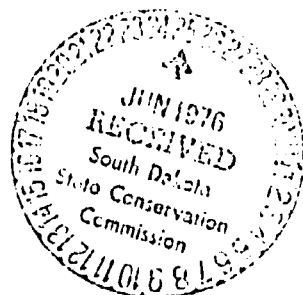
Cut along dotted line and return the lower portion with payment

Sample No. 76-642

Amount Enclosed \$

Signed

June 22, 1976



Mr. Morris Nelson
R.R. #2, Box 307
Yankton, SD 57078

Dear Mr. Nelson:

We have completed the analysis of your water sample 076-642 submitted here about a week ago. I am enclosing a copy of the report; this is yours to keep. I am also enclosing a copy of AES publication #13. The red cross in the diagram on the outside back cover denotes the approximate quality of this water for irrigation uses. As you will see, it is in the high salinity, low sodium category.

Accordingly, this water is moderately well-suited to irrigation uses on well-drained soils. There appears to be no drainage problem in the soils which you have and thus, you should get along with it satisfactorily. However, I would caution you very earnestly that you do not apply water in small, frequent applications. By this, I am recommending that you use water in amounts of 3 inches or more each application and restrict your times of application to no more than 4 in any one growing season. The reason for this is that frequent, light applications concentrate the salt carried by the water in the upper part of the soil profile, and when this happens, there is very little chance that natural precipitation will cause leaching beyond the bottom of the root zone. A heavy application tends to distribute the salt uniformly throughout the root zone of the crop and will result in occasional leaching of salts as a result of natural rainfall. You may also find it necessary, after 6 or 8 years of irrigation, to make complete irrigations in the late fall of the year just before freeze-up so that the soil profile is full of water at the time winter arrives. Under these circumstances, natural displacement of salt downward as a result of winter and early spring precipitation is sometimes quite effective and this is one of the salt control measures which can be used under the circumstances you have.

A copy of this letter, and of the water analysis are accompanying the WI-1 form to the State Conservation Commission in Pierre. You will be hearing from them as to their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab
LOF:ckb

cc: State Conservation Commission, D. Pahl, Vane Miller (Co. Ext. Agent)
Enclosures

Form 6 - Notice of Intent to Appropriate Water

No. 3369-3

Publish first publication, on or before January 13, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

~~December 27~~ 1976

Notice is hereby given that Morris & Luverne Nelson
whose post office address is Yankton, 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
4.0 cubic feet of water per second of time from ~~the~~ ground water through the
Nelson Project # 2, the point of diversion of which is to be located in the _____

NW $\frac{1}{4}$ NW $\frac{1}{4}$ and NW $\frac{1}{4}$ SW $\frac{1}{4}$
of Section 19, Twp. 94N, Range 55W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:

W $\frac{1}{2}$, Section 19, T94N, R55W

This application No. 3369-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 26th 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

BFJ/bw

cc: Morris & Luverne Nelson, R.R. # 2, Box 307, Yankton, SD 57078

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

No. 3359-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Minnehaha)

I, JOHN K. KOLL hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Sioux Falls Argus-Leader

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 Sioux Falls

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

Saturday, January 8

Saturday, January 15

John K. Koll
(Signature)

Controller
(Title)

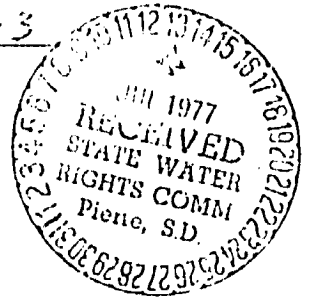
January 17, 1977
(Date Signed)

No. 3359-3
NOTICE
INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501 December
27, 1976
Notice is hereby given that Morris &
Luverna Nelson whose post office
address is Yankton, South Dakota, has
made an application in accordance
with the provisions of the water laws of
South Dakota for a permit to ap-
propriate for beneficial use 40 cubic
feet of water per second of time from
ground water through the Nelson
Project #2, the point of diversion of
which is to be located in the NW 1/4
NW 1/4 and NW 1/4 SW 1/4 of Section 19,
Twp. 94N, Range 55W. Said water to be
used for the purpose of providing
irrigation on portions of the following
described land: V-1's, Section 19, T94N,
R55W
This application No. 3359-3 will be
considered by the Water Rights
Commission at their office at 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
Jan. 8, 15, 1977



Form 10.

No. 3369-3



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE

Post Office Yankton, S.D.

Date July 11, 1977

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 3369-3

Water Right Permit No. 3369-3 states that the diversion system is to be constructed by June, 1981 and that the water is to be put to beneficial use by June, 1983.

The diversion system was completed on April, 1977.
Applying the water to beneficial use was completed on May, 1977.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Morris Nelson
(Signature)

South Dakota Water Rights Commission
State Office building
Pierre, So. Dak.

James Gwach
Route 2, Box 327
Yankton, S.D. 57078

Gentlemen:

I am taking gallowage readings on my 170 ft. livestock well, in order to assess effect of irrigation wells located in Mission Hill Township (94N, R55W.) section 19. These wells are operated under a permit of Morris & Luverne Nelson.

The time below is the time it takes to pump a five gallon container of water, after a 30 minute operation of well pump. I am speaking of my own livestock well.

May 17th, 1978, = 2 minutes, 0 seconds. This is before operation of irrigation wells commenced.

May 23rd, 1978, = 2 minutes, 30 seconds. This was after about 2 days of operation irrigation wells.

May 28th, 1978, = 3 minutes, 50 seconds. This was after continued operation of the irrigation wells.

This amount is still adequate for my livestock, although with the advent of hot weather and continuing reduction in well capacity it could become critical in a short time. If you desire I can give you periodic readings on my well by mail, or more desirable I could call them in on your Watts phone # 1-800-592-1865.

Respectfully

James Gwach





South Dakota Department of Water & Natural Resources

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

February 17, 1989

Morris Nelson
RR 2, Box 102
Yankton, SD 57078

Dear Mr. Nelson:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;



Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,

John Hatch

JOHN HATCH, Chief Engineer
Water Rights Division

Permit No. 3369-3
Missouri River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 29, 1993, and August 2, 1995, made a thorough examination of the water use system constructed by Morris Nelson of Yankton holder of Permit No. 3369-3, bearing the priority of December 27, 1976 authorizing the diversion of 4.0 cu. ft. per second of the waters of groundwater for irrigation purposes, in Yankton County.

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

A. Works used to divert the water:

Water is diverted from a well (Well #1), 220 feet deep, located 1950' S48NE of the NW corner of Sec. 19, T94N-R55W with a Verti Line Aurora, 8 inch diameter, 10 stage, turbine pump, (Type 10R8M2L, Serial No. 37771476), powered by a General Electric 100 horsepower, electric motor (Model No. 5K6257HX501A, Serial No. CNJ330436). Water is also diverted from a well (Well #2), 185 feet deep, located 1900 feet N50NE from the SE corner of Sec. 19, T94N-R55W with a Verti Line Aurora, 8 inch diameter, 8 stage, turbine pump, (Serial No. 37771475), powered by a General Electric 75 horsepower, electric motor (Model No. 5K6255XN502A, Serial No. DNJ413368).

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

Water is transported from Well #1 to Center Pivot #1 through 70 feet of 8-inch diameter aluminum pipe. Water is transported from Well #2 to Center Pivot #2 through 15 feet of 8-inch diameter aluminum pipe.

C. Works used to apply water to beneficial use:

Water is applied to beneficial use through two center pivot irrigation systems. Center Pivot #1 is a high pressure, 8 tower plus corner system, Lindsey Zimatic center pivot (Model No. 307 410, Serial No. LO7431). The system is 1320 feet long and has a 178.5 feet long corner system. The system has a Nelson 100 end gun, and the corner system has a Nelson 150 end gun. Center Pivot #2 is a high pressure, 8 tower plus corner system, Lindsey Zimatic center pivot (Model No. 307 410, Serial No. LO7480). The system is 1320 feet long and has a 178.5 feet long corner system. The system has a Nelson 100 end gun, and the corner system has a Nelson 150 end gun.

The system is in the following condition good. The points of diversion is located 1950'S48NE from the NW corner of Sec. 19, T94N-R55W; and 1900'N50NE from the SW corner of Sec. 19, T94N-R55W. The works are capable of diverting and conveying to the place of use 3.11 cu. ft. per second of water

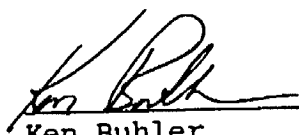
which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

<u>NE 1/4 NW 1/4 Sec.19, T94N-R55W</u>	<u>23 acres</u>
<u>NW 1/4 NW 1/4 Sec.19, T94N-R55W</u>	<u>15 acres</u>
<u>SW 1/4 NW 1/4 Sec.19, T94N-R55W</u>	<u>44 acres</u>
<u>SE 1/4 NW 1/4 Sec.19, T94N-R55W</u>	<u>38 acres</u>
<u>NE 1/4 SW 1/4 Sec.19, T94N-R55W</u>	<u>38 acres</u>
<u>NW 1/4 SW 1/4 Sec.19, T94N-R55W</u>	<u>44 acres</u>
<u>SW 1/4 SW 1/4 Sec.19, T94N-R55W</u>	<u>15 acres</u>
<u>SE 1/4 SW 1/4 Sec.19, T94N-R55W</u>	<u>32 acres</u>

comprising a total of 269 acres of land and the license should be issued for 3.11 cfs .

Applicable permit qualifications have been complied with: Yes No

Exceptions to compliance are:



Date: 1/10/96

Ken Buhler
Natural Resources Engineer
DENR, Water Rights Program

REPORT ON INSPECTION OF PERMIT NO. 3369-3

DATE: January 7, 1994

Other permit(s) associated with the project:

DIVERSION POINT LEGAL LOCATION: Well #1: 1950 feet South 48 degrees East from the NW corner (SE 1/4 SE 1/4 NW 1/4 NW 1/4) of Sec. 19, T94N-R55W; Well #2: 1900 feet North 50 degrees East from the SE corner (NE 1/4 NE 1/4 SW 1/4 SW 1/4 Sec. 19, T94N-R55W,

WELL INFORMATION:

Well #1

- 1) Well Drilling Firm: Schmelfenig Well Drilling
- 2) Depth 220 feet
- 3) Well log is available Y/N
- 4) Comment:

Casing:

- 1) Diameter 12 inches
- 2) Length 160 feet
- 3) Type Steel

Screen:

- 1) Type 12-inch diameter Stainless Steel
- 2) Length 60 feet
- 3) Static water level 140 feet

Pump:

- 1) Make Verti Line Aurora Pump
- 2) Model Type 10R8M2L, Serial No. 37771476
- 3) Size 8-inch diameter, 10 stage
- 4) Capacity 750 GPM

Motor:

- 1) Make General Electric
- 2) Model No. 5K6257HX501A, Serial No. CNJ330436
- 3) Horsepower rating 100 hp

Well #2

- 1) Well Drilling Firm: Schmelfenig Well Drilling
- 2) Depth 185 feet
- 3) Well log is available Y/N
- 4) Comment:

Casing:

- 1) Diameter 12 inches
- 2) Length 155 feet
- 3) Type Steel

Screen:

- 1) Type 12-inch diameter Stainless Steel
- 2) Length 30 feet
- 3) Static water level 140 feet

Pump:

- 1) Make Verti Line Aurora Pump
- 2) Serial No. 37771475
- 3) Size 8-inch diameter, 8 stage
- 4) Capacity 650 GPM

Motor:

- 1) Make General Electric
- 2) Model No. 5K6255XN502A, Serial No. DNJ413368
- 3) Horsepower rating 75 hp

DISTRIBUTION LINES OR CANALS:

Well No. 1 to Pivot No. 1:

- 1) Type Aluminum
- 2) Size 8 inches
- 3) Length 70 feet

Well No. 2 to Pivot No. 2:

- 1) Type Aluminum
- 2) Size 8 inches
- 3) Length 15 feet

SYSTEM TYPE:

Center pivot No. 1 (North pivot):

- 1) Make Lindsey Zimmatic (Model No. 307 410, Serial No. LO7431)
- 2) Overall length 1320 feet
- 3) Number of towers 8 plus 1 tower corner system
- 4) Distance between towers 126 feet between Pvt. and tower #1, and tower #1 and tower #2; 178 feet between the rest
- 5) End gun Y/N Nelson 100 end gun on system, Nelson 150 end gun on corner system
- 6) High or low pressure (73 psi on pivot with no end gun, 67 psi on pivot with end gun, 95 psi on corner only)
- 7) Capacity 750 GPM

Center pivot No. 2 (South pivot):

- 1) Make Lindsey Zimmatic (Model No. 307 410, Serial No. LO7480)
- 2) Overall length 1320 feet
- 3) Number of towers 8 plus 1 tower corner system
- 4) Distance between towers 126 feet between Pvt. and tower #1, and tower #1 and tower #2; 178 feet between the rest
- 5) End gun Y/N Nelson 100 end gun on system, Nelson 150 end gun on corner system
- 6) High or low pressure
- 7) Capacity 650 GPM

CHEMIGATION EQUIPMENT:

- 1) Does chemigate Y/N
- 2) Main line check valves Y/N
- 3) Inspection ports/air reliefs Y/N
- 4) Low pressure drains Y/N
- 5) Discharges are 20' from source Y/N
- 6) Interlock types ELECTRIC
- 7) Injection pump types TXE American Pump, positive displacement electric pump, Model No. and Serial Nos not available
- 8) Injection check valves Y/N

- 9) Injection line check valve or positive displacement pump Y/N
- 10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules Y/N
- 11) Comments :

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit Y/N
- 2) Special qualifications to permit being abided by Y/N
- 3) All structures, wells and lands on map Y/N
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y/N

**Water Rights Division
File Documentation**

NAME OF PERSON OR FILE: Morris Nelson

ADDRESS: RR2, Box 307 Yankton, SD 57078 COUNTY: Yankton

DATE: March 21, 1996 TELEPHONE: (605)665-7216

RE: Chemigation Equipment for Permit No. 3369-3

COMMENTS:

On September 29, 1993, I conducted an inspection of Water Permit No. 3369-3. At the time the it was discovered that the Main line check valve was not vertical and therefore the low pressure drain was not at the bottom. I informed Mr. Nelson that this would have to be corrected.

On August 2, 1995, I re-examined the check valve and found that the problem had not been corrected. Dennis Nelson (Morris' son) assured me the problem would be corrected.

I called Morris Nelson on March 21, 1996 to ask him about the check valve. Mr. Nelson informed me the check valve changed and was now properly positioned.



Ken Buhler
Natural Resources Engineer



3369-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

OCT 17 1996

Morris & Luverne Nelson
RR 2 Box 102
Yankton SD 57078

Dear Sirs:

Enclosed is Water License No. 3369B-3. On July 11, 1996, a transfer of ownership was received, transferring a portion of the water right to Delores Nelson. Water Right No. 3369-3 is being divided and reissued to reflect separate ownership. The reissued water right will be as follows:

No. 3369A-3, Delores Nelson: irrigation of 129 acres in the SW 1/4 Section 19 with diversion of 1.44 cfs from one well located in the approximate center of the SW 1/4 Section 19; all in T94N-R55W.

No. 3369B-3, Morris & Luverne Nelson: irrigation of 140 acres in the NW 1/4 Section 19 with diversion of 1.67 cfs from one well located in the approximate center of the NW 1/4 Section 19; all in T94N-R55W.

As long as you use the water beneficially, as stated in Water License No. 3369B-3, South Dakota Water Laws provide that you have a continuing right to the use of the water.

Enclosed is the receipt for payment of the water license fee. If you have any questions, please contact us.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Right Program
605 773-3352

ks

enclosures

94-55

143.9

11.0

29.4

MORRIS NELSON

2-218

WELL LOCATION NO. 1

To Be IRRIGATED
By Jane P. Miller
County Extension Agent
Spokane Co.

72.3

7.85

5.9

19

145.6

LYVERNE NELSON

71.3

WELL LOCATION NO. 2

To Be IRRIGATED
By Jane P. Miller
County Extension Agent
Spokane Co.

18.5

14.3

10.5

17.5

8

94-55

MAP NO. 28553 APR. 1936 9-3

1993

NOT TO SCALE

W
W
B
B
W



KENT A. BUHLER
NATURAL RESOURCES ENGINEER
WATER RIGHTS DIVISION

3369-3