

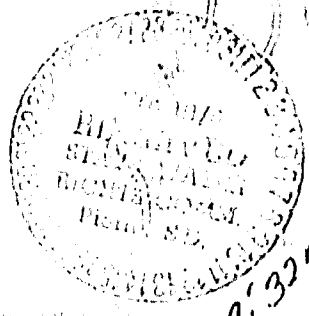
Water Right Number 1496-2

1. Considered 1-26-, 19 71
2. Name of Applicant MAURICE NELSON
3. Post Office Address MARTIN
4. Amount of water claimed 2.00
5. Source of water supply 500' DEEP WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 194
7. Water to be diverted and used in BENNETT County
about 25.11 W Miles 1ST of MARTIN
8. Proof of Publication
Received 1ST
Not received _____
9. Application
Approved _____
Subject to _____

10. Remarks:

[Faint handwritten notes, possibly describing the well or irrigation details]

[Faint handwritten notes at the bottom of the page]

No. 1296-2Map No. 1274-2 Water Division No. 2 LITTLE WHITE 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 Maurice Nelsen
 Postoffice address Martin, State South Dakota
 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 M. Nelson Well #2
4. Amount of water claimed (cubic feet per second) 2 cfs or 900 gal/min
5. Source of water supply Deep well
6. Location of point of diversion West edge NE $\frac{1}{4}$ of Sec 28 37-39

 _____ County Bennett

7. Annual period or periods during which water is to be used April thru October
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 144 acres

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.
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ Sec 28 37-39	36A		
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ Sec 28 37-39	36A		
SW $\frac{1}{4}$ of NW $\frac{1}{4}$ Sec 28 37-39	36A		
SE $\frac{1}{4}$ of NW $\frac{1}{4}$ Sec 28 37-39	36A		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Five (5) years. Additional time required to complete application of water to the proposed beneficial use Two (2) years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Bennett County Booster II
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source. High volume pumpB. Works proposed to transport water to place of use. PVC plastic 8"C. Works proposed to apply water to beneficial use. Circular sprinklerEstimated Total Cost \$ 47,900.00Attachments: 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 BennettI, Maurice Nelsen 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 Maurice J. NelsenSubscribed and sworn to before me this 24th day of November 19 76

Notary Public (or other qualified officer)

Reg of Wells

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 1496-2

MAURICE NELSEN
(Applicant)

MARTIN

(Post Office Address)

SOUTH DAKOTA 57551
(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 NOVEMBER 29 19 76

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

Date of receipt of corrected application DECEMBER 29 19 76

Approved JANUARY 26 19 77, Recorded in Book 16 Page 367

WATER RIGHT PERMIT NO. 1496-2

The Water Rights Commission hereby grants and issues this Water Right Permit No. 1496-2 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 NOVEMBER 29 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 26 19 79
3. The whole of said work is to be completed on or before JANUARY 26 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 26 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 2.0 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 purpose, 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 26 19 84; said water to be used during the following described annual period: APRIL 1ST THROUGH OCTOBER

Witness my hand this 1ST day of APRIL 19 77

WATER RIGHTS COMMISSION

By:

John Walsh
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 28", Depth 500 feet

(2) Casing, Type Steel Diameter 18" Thickness 1/2"
(wood, concrete, steel, etc.)

(3) Perforated Screen,

Type Steel, Diameter 18", Length 400 feet

(4) Gravel Pack, Thickness 12", Length of gravel pack 425 feet

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 (Log attached)

Depth to top of water bearing material 65 feet

Depth to bottom of water bearing material 500 feet

Thickness of water bearing material 435 feet

Depth to water (ground surface to water level) 18 feet

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

On same owner's property 80 rds. On property owned by others 240 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.

Maurice C. McLean
Signature of Applicant

CONSERVATION
COMMISSION
WI #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 Maurice Nelson Well #2

ADDRESS Martin, South Dakota

COUNTY Bennett

LEGAL DESCRIPTION

1. WELL LOCATION West edge of NE $\frac{1}{4}$ of Sec 28, 37-39 ← from corner of sec 28
2. AREA TO BE IRRIGATED NW $\frac{1}{4}$ of Sec 28, 37-39 ← from corner of sec 28

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (INDICATE TYPE) Circular
4. CROPS TO BE IRRIGATED Alfalfa and small grain

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE 0-5%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION Keith Rosebud silt loam with
some Daves-Richfield silt loam

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NUMBER 76-2003
8. SALINITY EC = 4.5
9. SODIUM SAE = 0.55
RSC = 0.47

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
Gary Nies, County Extension Agent, Bennett County

AND:

THAT THE LEGAL DESCRIPTION FOR THE LOCATION OF THE WELL AND LAND TO BE
IRRIGATED IS TRUE AND CORRECT.

Maurice J. Nelson

SUBSCRIBED AND SWORN BEFORE ME THIS

19th DAY OF Nov. 1976.

Allen B. Engelhart

Reg. of Deeds

(TITLE)

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

Submitted by: Maurice Nelson
 Address: Martin, SD 57551

Date Rec'd: December 9, 1976
 Sample No. 76-2003
 Identification Well-500
NE 1/4, Sec. 28, T 37N, R 39W

WATER ANALYSIS

Calcium (Ca)	57	ppm*	2.85	me/l**
Magnesium (Mg)	8	ppm	0.66	me/l
Sodium (Na)	26	ppm	1.13	me/l
Potassium (K)	8	ppm	0.21	me/l
Sulfate (SO ₄)	70	ppm	1.46	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	3	ppm	0.00	me/l
Bicarbonate (HCO ₃)	244	ppm	4.0	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)	200	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	483	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.85			
Sodium	23.29	% of cations		
Residual sodium carbonate	0.49	me/l		
pH	7.55			
Others:				

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 4.85 me/l
 Total anions 5.54 me/l

By: Shirley Mitten

Service Performed

Amount Due

Irrigation analysis

\$8.00

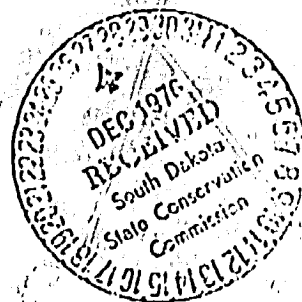
Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-2003

Amount Enclosed \$

Signed



December 22, 1976

Mr. Maurice Nelson
Martin, SD 57551

Dear Mr. Nelson:

Your water sample (Lab. No. 76-2002, 1933) 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 crosses in the chart on the outside back cover.

Your water, as indicated by this analysis, is satisfactory for use on the soil you indicate will be irrigated. If a salt problem or a water table problem should develop, contact extension personnel for assistance.

The WI-1, soils information, and a copy of the water analysis are being forwarded to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ekc
Enclosures
cc: State Conservation Commission

Test well No. 2

REIZENSTEIN DRILLING CO.

ROUTE 1

TORRINGTON, WYO. 82240

PHONES: (307) 532-4120

(307) 532-5394

Maurice Nelsen
Martin, S.D. 57551

Test hole log

Static water 18ft.

0	-----	2
2	-----	60
60	-----	64
64	-----	65
65	-----	100
100	-----	101
101	-----	130
130	-----	140
140	-----	160
160	-----	177
177	-----	280
280	-----	287
287	-----	460
460	-----	500

Top soil

Brule

Sandstone (hard)

Rock

Sandstone

Rock

Sandstone

Sandstone with rock layers 2per. 20ft.
approx 6" thick

Sandstone

Rock

Sandstone (rock layers)

Rock

Sandstone (rock layers 2rock every 20ft.)

Sandstone & brule

Form 6 - Notice of Intent to Appropriate Water

No. 1496-2

Publish first publication, on or before January 13, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

January 3, 1977

Notice is hereby given that Maurice Nelson

whose post office address is Martin, 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

2.0 cubic feet of water per second of time from the ground water through the Nelson # 2, the point of diversion of which is to be located in the _____

S.W. 1/4

of Section 28, Twp. 37N, Range 39W. Said water to be used for the purpose of providing irrigation on the following described land:

NW 1/4, Section 28, T37N, R39W

This application No. 1496-2 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:

Maurice Nelson, Martin, SD 57551

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

No. 1496-2

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Bennett) ss.

I, Mary E. Long hereby
certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Bennett County Booster II

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 Martin

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

January 6, 1977

January 13, 1977

Mary E. Long
(Signature)

Owner
(Title)

1-31-77
(Date Signed)

NOTICE INTENT TO APPROPRIATE WATER

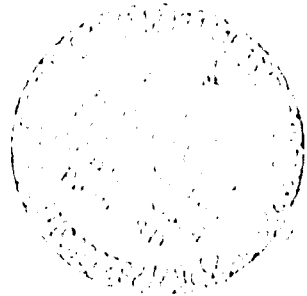
Pierre, South Dakota 57501

January 3, 1977

Notice is hereby given that Maurice Nelson whose post office address is Martin, 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 2.0 cubic feet of water per second of time from ground water through the Nelson No. 2, the point of diversion of which is to be located in the SW 1/4 NE 1/4 of Section 28, Twp. 37N, Range 39W. Said water to be used for the purpose of providing irrigation on portions of the following described land: NW 1/4, Section 28, T37N, R39W. This application No. 1496-2 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,
Burton F. Jones,
Water Rights Specialist

21 25



Form 10.

No. 1496-2 Bennett

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

Post Office Martin

Date Jan. 24, 1978

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

Dear Sirs:

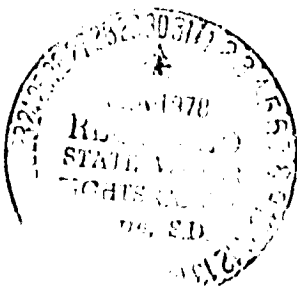
This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 1496-2.

Water Right Permit No. 1496-2 states that the diversion system is to be constructed by Jan. 26, 1982 and that the water is to be put to beneficial use by Jan. 26, 1984.

The diversion system was completed on July 1, 1977.
Applying the water to beneficial use was completed on July 1, 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.

Maurice J. Nielsen
(Signature)



1336-2
1496-2
1497-2

July 17, 1984

Maurice Nelson
Martin, South Dakota 57551

Dear Mr. Nelson:

This letter is in regard to the inspection and licensing of Water Permit Nos. 1336-2, 1496-2 and 1497-2.

While reviewing the records of these permits, I was unable to locate the construction reports for the two wells in the NW $\frac{1}{4}$ and SW $\frac{1}{4}$ of Section 28, T-37N, R-39W. Please submit logs of these two wells to this office so that the licensing of your permits can be completed. If you do not have an actual well log available, an invoice or other document which shows the depth of the well and the casing and screen materials used will be acceptable.

I have enclosed logs of the four water rights observation wells in your area, as you requested during the inspection.

If you have any questions feel free to call this office.

Sincerely,

Frank Smith
Natural Resources Engineer

FS:ms
Enc.

Equal Opportunity Employer



Department of Water & Natural Resources

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

WATER RIGHTS DIVISION
(605) 773-3352

NO. 1336-2
1497-2

1496-2

APR 9 1985

Maurice Nelson
SR, Box 18
Martin, South Dakota 57551

Dear Mr. Nelson..

Enclosed herewith are, Water License Nos. 1336-2 & 1497-2. These are the final water right documents completing the process of obtaining water rights.

As long as you use the water beneficially, as stated in the Water Licenses, the State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ms

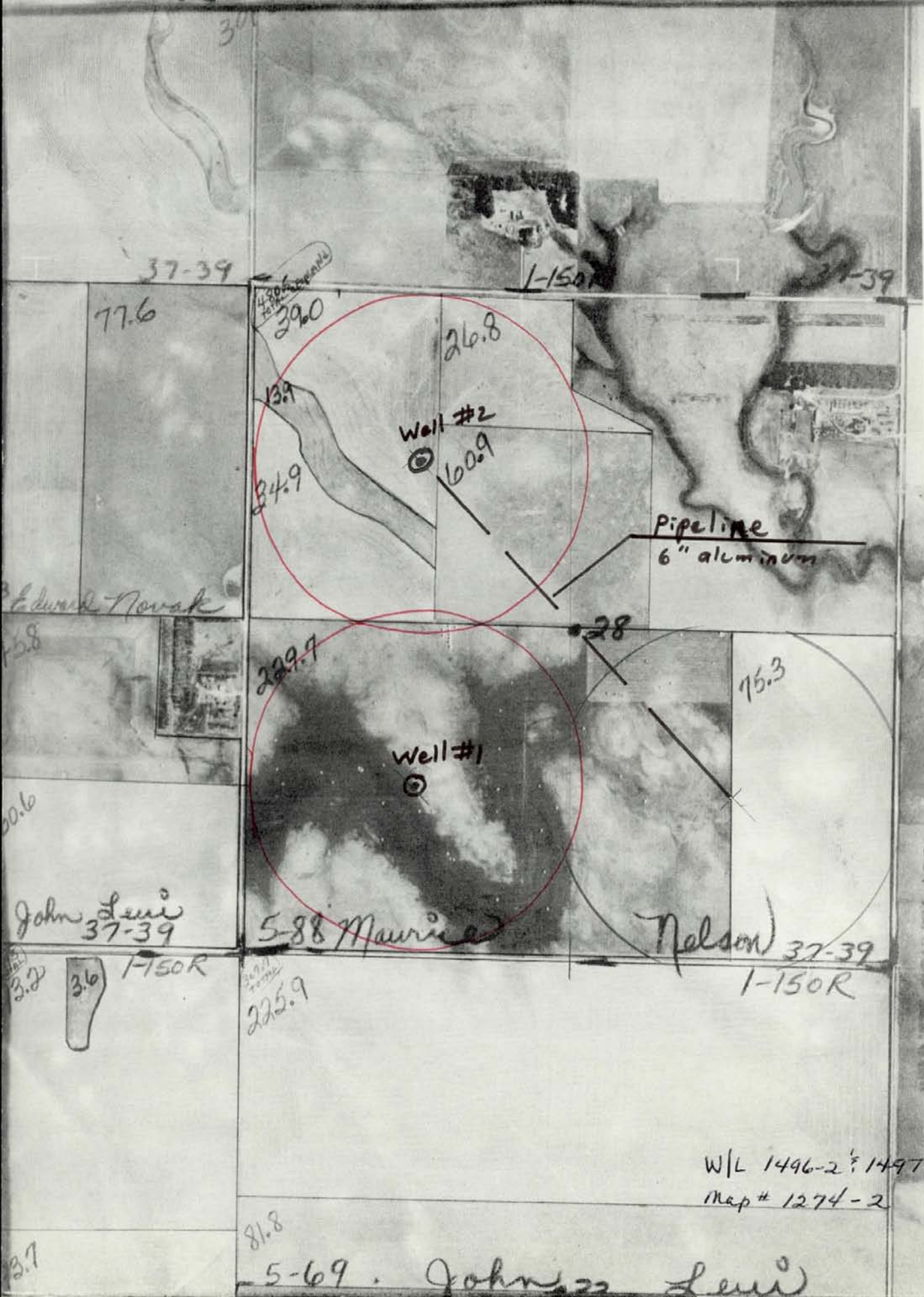
Enclosures

Applicable portions of Water Permit No. 1496-2 are being incorporated into Water License No. 1497-2.

Equal Opportunity Employer

L

NOT TO SCALE





MAP NO 1274-2 APRIL NO 1496-2 1497-2