

Water Right Number 3499-3

1. Considered 2-23, 19 77
2. Name of Applicant WILLIAM POPPEN
3. Post Office Address DESMET
4. Amount of Water claimed 5.07
5. Source of Water supply 3 -- UP TO 57' WELLS
6. Water to be used for IRR

Acres to be irrigated 355.10

7. Water to be diverted and used in KINGSBURY County
about 2 N miles of DESMET

8. Proof of Publication Received 1st APR 5-6-77

Not Received _____

9. Application Approved _____

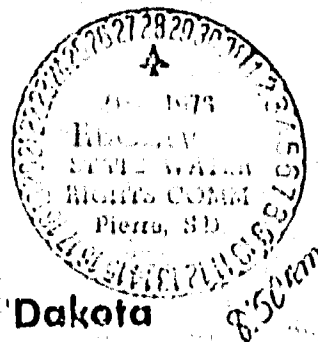
Subject to _____

Not Approved _____

Action Deferred _____

10. Remarks:

Map No. 2779-3 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 WILLIAM POPPEN
 Postoffice address DE SMET, State S.D.
 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 WILLIAM POPPEN IRRIGATION PROJECT "1"
4. Amount of water claimed (cubic feet per second) 5.07 CFS (2275 GPM)
5. Source of water supply 3 WELLS
6. Location of point of diversion WELL A - 3300' N 74° E ; WELL B - 3500' N 105° E ;
WELL C - 3360' N 126° E OF NW CORNER OF SEC 22,
TWIN, R56N County KINGSBURY
7. Annual period or periods during which water is to be used APRIL - 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 355.1

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>SEE ATTACHED</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 _____ years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication HURON PLAINSMAN
12. Principal Features of the Proposed Water Supply System.

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

TURBINE PUMPS

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

BURIED MAIN LINES

C. Works proposed to apply water to beneficial use.

CENTER PIVOT & BIG GUNEstimated Total Cost \$ 120,000

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 Kingsbury

I, William A. Poppen, 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 William A. PoppenSubscribed and sworn to before me this 27 day of December, 1926

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3499-3

WILLIAM FOPPEN
(Applicant)

DE SNET
(Post Office Address)

SOUTH DAKOTA 57231
(State)

With the following modifications:

The irrigation wells 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.

The wells approved under this permit shall be spaced so that there is at least 660' between wells.

Date of first receipt of application DECEMBER 28, 1976

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

Date of receipt of corrected application JANUARY 10, 1977

Approved FEBRUARY 23, 1977, Recorded in Book 18 Page 122

WATER RIGHT PERMIT NO. 3499-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3499-3 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 28, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before AUGUST 23, 1979
3. The whole of said work is to be completed on or before FEBRUARY 23, 1982
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is FEBRUARY 23, 1982
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 5.07 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 FEBRUARY 23, 1982; said water to be used during the following described annual period: APRIL - OCTOBER

Witness my hand this 6TH day of MAY, 1977

WATER RIGHTS COMMISSION

By:

John H. H. H.
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

<u>LAND DESCRIPTION</u>	<u>ACRES</u>
NW ¹ / ₄ , SW ¹ / ₄ , SEC 15, T11N, R56W	40.0
NE ¹ / ₄ " " " "	15.4
NW ¹ / ₄ , SE ¹ / ₄ , " " " "	40.0
NE ¹ / ₄ , " " " "	40.0
SE ¹ / ₄ , " " " "	40.0
SW ¹ / ₄ , " " " "	40.0
NE ¹ / ₄ , NE ¹ / ₄ , SEC 22 " "	40.0
SE ¹ / ₄ , " " " "	8.8
SW ¹ / ₄ , " " " "	23.4
NW ¹ / ₄ , SW ¹ / ₄ , " " " "	30.5
NE ¹ / ₄ , " " " "	21.0
SE ¹ / ₄ , " " " "	16.0
<u>TOTAL</u>	<u>355.1</u>

HURON DRILLING INC. DRILLERS LOG

PAGE NO. 1

JOB NAME: William A. Popen
 LOCATION: E. 22-11-56
 DATE: 15 Dec 76
 RIG NO.: 19
 FOREMAN: Steve

PT. NO.	DEPTH	TIME	REMARKS
			Hole #1
1	0-20		0-2 Top Soil 2-7 Yellow Clay 7-19 Sand 19-20 Blue Clay
2	20-35		Blue Clay
3	35-50	TD	Blue Clay
			Hole #2
1	0-20		0-3 Top Soil 3-5 Yellow Clay 5-18 Sand 18-20 Blue Clay
2	20-35	TD	Blue Clay
			Hole #3
1	0-20		0-3 Top Soil 3-5 Yellow Clay 5-20 GRN/CL
2	20-35		20-25 Sand GRN/CL 25-35 Blue Clay
3	35-50	TD	Blue Clay
			Hole #4
1	0-20		0-3 Top Soil 3-5 Yellow Clay 5-20 GRN/CL
2	20-35	TD	20-26 GRN/CL 26-35 Blue Clay
			Hole #5
1	0-20	TD	0-2 Top Soil 2-6 Yellow Clay 6-18 GRN/CL 18-20 Blue Clay
			Hole #6
1	0-20		0-4 Top Soil 4-20 BROWN Sand + GRN/CL
2	20-35		Blue Sand + GRN/CL
3	35-95		Blue GRN/CL + Coal
4	95-65	TD	50-57 Blue GRN/CL + Coal 57-65 Blue Clay
			WH 19
			GPM 40
			Casing 60
			Slotted 30
			Sand 1,500
			Hole #7
1	0-20	TD	0-2 Top Soil 2-10 BROWN GRN/CL 10-19 Blue GRN/CL 19-20 Blue Clay

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 William P. Rosen
ADDRESS D.E. Smet
COUNTY KINGSBURY

LEGAL DESCRIPTION

1. WELL LOCATION SW¹/₄, NE¹/₄, SEC. 22, T11N, R56W
2. LOCATION OF AREA TO BE IRRIGATED NW¹/₄ & SW¹/₄, SEC. 15 ; SE¹/₄, SEC. 15 ;
NE¹/₄, NE¹/₄, SEC. 22 ; SW¹/₄, NE¹/₄, SEC. 22 ; SE¹/₄, SW¹/₄, SEC. 22 ;
TYPE OF IRRIGATION N¹/₂, SW¹/₄, SEC. 22 T11N, R56W
3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN X
4. CROPS TO BE IRRIGATED CORN, ALFALFA

WATER QUALITY

5. SAMPLE NUMBER 76-2094
6. SALINITY (EC X 10⁶) 2063 (high)
7. SODIUM (SAR) 0.53 (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 KINGSBURY 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.

William A. Rosen
APPLICANT'S SIGNATURE

SUBS _____ (ED AND SWORN BEFORE ME THIS
21 OF December 19 76.

William A. Rosen
(TITLE OR SEAL)

Albert J. [Signature]
APPROVED/INAPPROVED

(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: William Toppen Date Rec'd: December 21, 1976
 Address: DeSmet, SD 57231 Sample No.: 76-2094
 Identification: Well
NE 1/4, Sec. 22, T. 111N, R. 56E

WATER ANALYSIS

Calcium (Ca)	331	ppm*	16.55	me/l**
Magnesium (Mg)	119	ppm	9.76	me/l
Sodium (Na)	44	ppm	1.91	me/l
Potassium (K)	10	ppm	0.26	me/l
Sulfate (SO ₄)	940	ppm	19.55	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	81	ppm	2.27	me/l
Bicarbonate (HCO ₃)	346	ppm	5.68	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)	234	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2063	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.53			
Sodium	6.70	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.50			

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 28.48 me/l
 Total anions 27.50 me/l

By: Shirley Kitten

Service Performed	Amount Due
Irrigation analysis	\$8.00

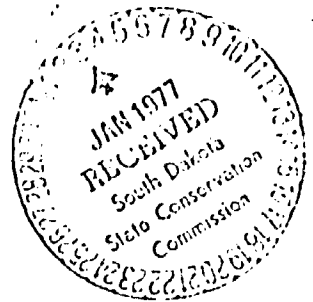
Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-2094

Amount Enclosed \$

Signed



December 30, 1976

Mr. William Poppen
DeSmet, SD 57231

Dear Mr. Poppen:

Your water sample (Lab. No. 76-2094) 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.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

P.S. Any slough areas or depressions will prove sad disappointments if irrigated without adequate drainage.

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 56, Depth ?
(2) Casing, Type PLASTIC Diameter 16 Thickness 3/8
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type JOHNSON TROPIC, Diameter 16, Length 10 ft
(4) Gravel Pack, Thickness 10 ft, Length of gravel pack 10 ft

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 _____
SEE ATTACHED

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 3/8 mi rds. On property owned by others 1/2 mi 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.

William A. Rogers
Signature of Applicant

Form 6 - Notice of Intent to Appropriate Water

No. 3499-3

Publish first publication, on or before February 10, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

February 4, 1977

Notice is hereby given that William Poppen
whose post office address is De Smet, 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
5.07 cubic feet of water per second of time from ~~the~~ ground water through the
William Poppen # 1, the point of diversion of which ~~is~~ are to be located in the

NW 1/4 NE 1/4 AND SW 1/4 NE 1/4

of Section 22, Twp. 111N, Range 56W. Said water to be used for the purpose
of providing irrigation on portions of
the following described land:

N 1/2 SW 1/4, SE 1/4, Section 15; E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SW 1/4 and SE 1/4 SW 1/4,
Section 22-T111N-R56W

This application No. 3499-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 23 day of February, 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: William Poppen, De Smet, South Dakota 57231

PRINTER'S AFFIDAVIT

STATE OF SOUTH DAKOTA, }
COUNTY OF BEADLE } ss.

I, Jeannette C. Lusk
being duly sworn on oath, say that THE DAILY PLAINSMAN
is a daily paper published at Huron, Beadle County, South
Dakota, and that said newspaper has a bonafide circulation
of at least 250 copies daily; that said newspaper has been
published within said county for fifty-two consecutive weeks
immediately prior to this date; that said newspaper is printed
in whole or in part, in an office maintained at said place of
publication; that I am publisher

of said newspaper
and know the facts herein stated. The annexed notice headed

Notice of Intent to appropriate Water

was published for 2 successive weeks once each
week, the same day each week, in said newspaper, and not in
any supplement of the said newspaper, the first publication on
the 9th day of February, 1977, and the last
publication on the 16th day of February, 1977.
That the full amount of the fee charged for publishing the
same, to-wit:

Fourteen and 64/100 Dollars inures to the benefit of
the publisher of said newspaper; that no agreement or under-
standing for the division thereof has been made with any
other person, and that no part thereof has been agreed to be
paid to any person whomsoever.

Jeannette C. Lusk

Subscribed and sworn to before me this 16th day of
February, 1977.

a. j. [Signature]
Notary Public, South Dakota

My term expires 9-21-83

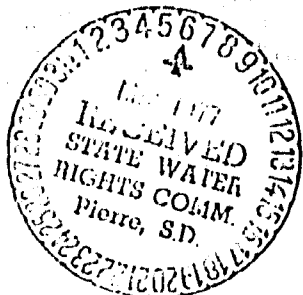
AFFIDAVIT OF AGENT OR ATTORNEY

STATE OF SOUTH DAKOTA, }
COUNTY OF } ss.

I,
being duly sworn on oath, say that I am the authorized attor-
ney for the party foreclosing the mortgage described in the
annexed notice; that no agreement or understanding for any
division of the fees therefore has been made with any person
whomsoever, and that no part thereof has been refunded or
rebated by the party publishing this notice.

Subscribed and sworn to before me this _____ day of
_____, 19____.

P.P. 2-17-77
NOTICE INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
February 4, 1977
Notice is hereby given, that
William Poppo, whose post office
address is De Smet, South Dakota,
has made an application in ac-
cordance with the provisions of the
water laws of South Dakota for a
permit to appropriate for
beneficial use 3.07 cubic feet of
water per second of time from
ground water through the William
Poppo No. 11, the points of
diversion of which are to be
located in the NW1/4 NE1/4 and
SW1/4 and NE1/4 of Section 22 Twp.
111N, Range 54W. Said water to be
used for the purpose of providing
irrigation on portions of the
following described land: NW1/4
SW1/4, SE1/4, Section 13, E1/2 NE1/4,
SW1/4 NE1/4, N1/2 SW1/4 and SE1/4
SW1/4, Section 22, T111N R54W
This application No. 3499-3 will
be considered by the Water Rights
Commission at their office at
Pierre upon the 23 day of
February, 1977, at 10:00 A.M. All
interested persons may appear
and be heard.
WATER RIGHTS COMMISSION
BURTON F. JONES
Water Rights Specialist
No. 113 (adv.)
X 2.44 = 14.64





3499-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

SEP 17 1993

3499A-3

William Poppen
RR 1, Box 187A
DeSmet, SD 57231

Dear Mr. Poppen:

Enclosed is Water License No. 3499A-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413382 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

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. 3499A-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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

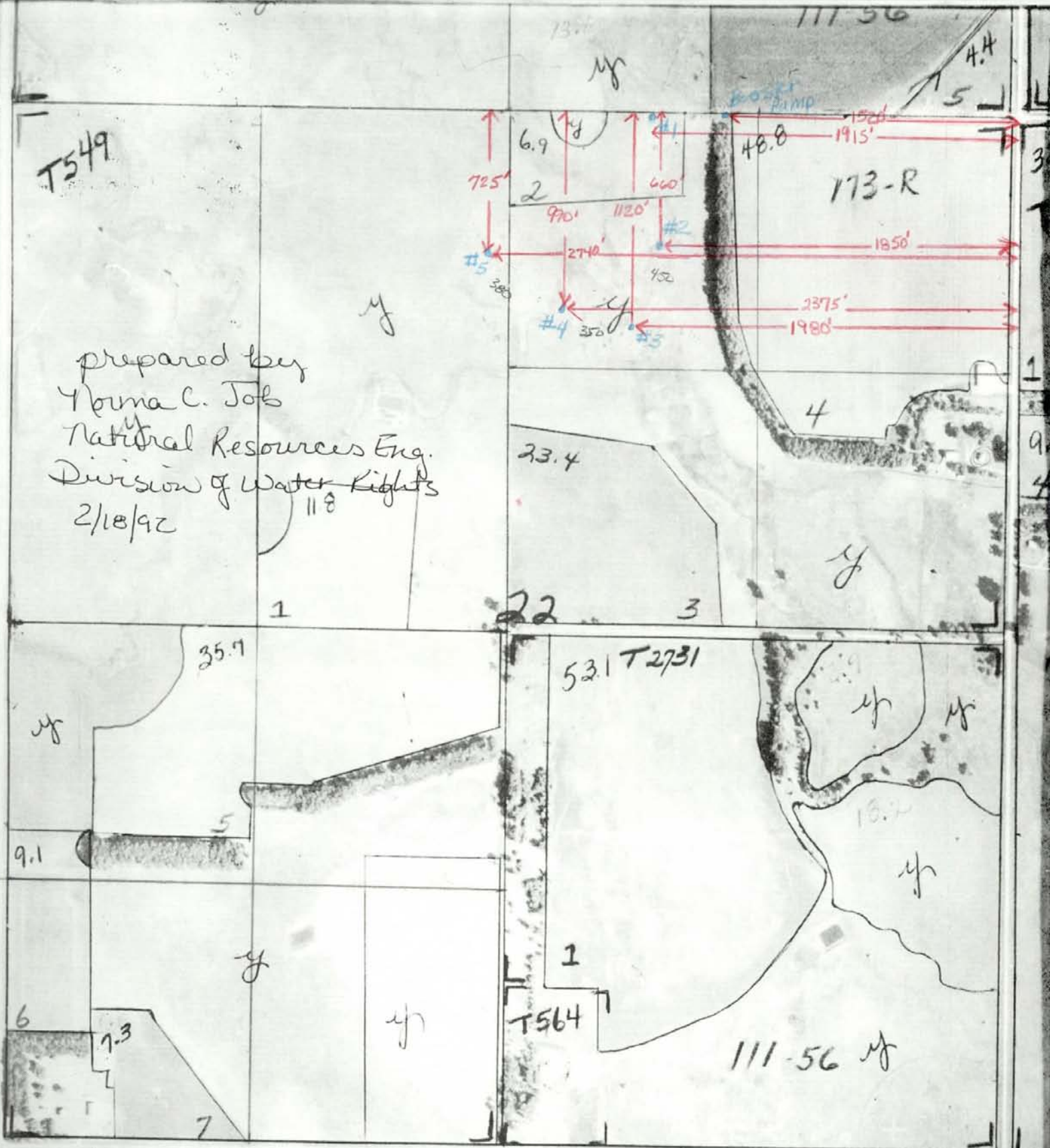
rd
enclosures

NOTE: The applicable portions of Water Permit No. 3499-3 have been incorporated into this Water License No. 3499A-3.

NOT TO SCALE

T549

prepared by
Norma C. Job
Natural Resources Eng.
Division of Water Rights
2/18/92

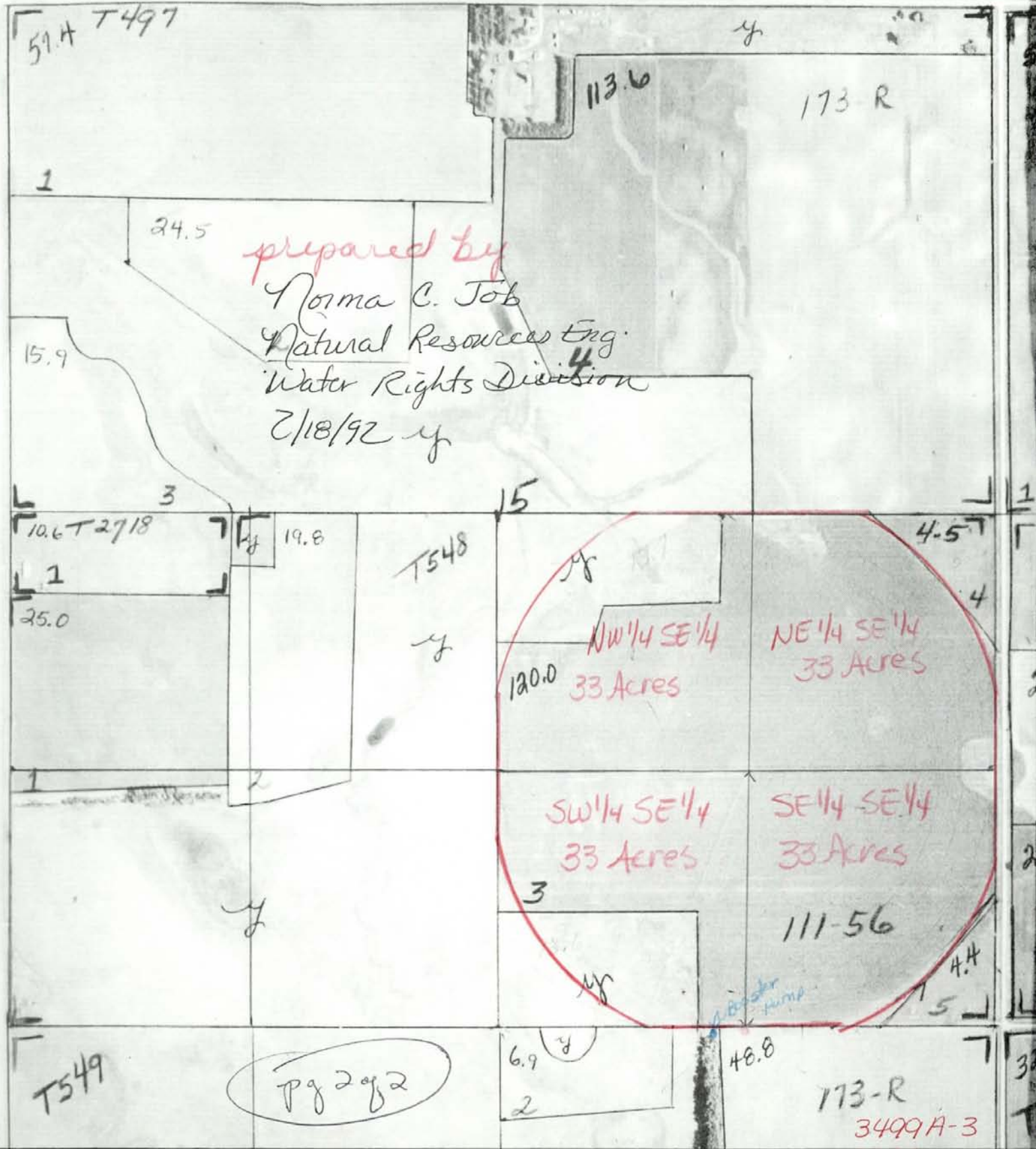


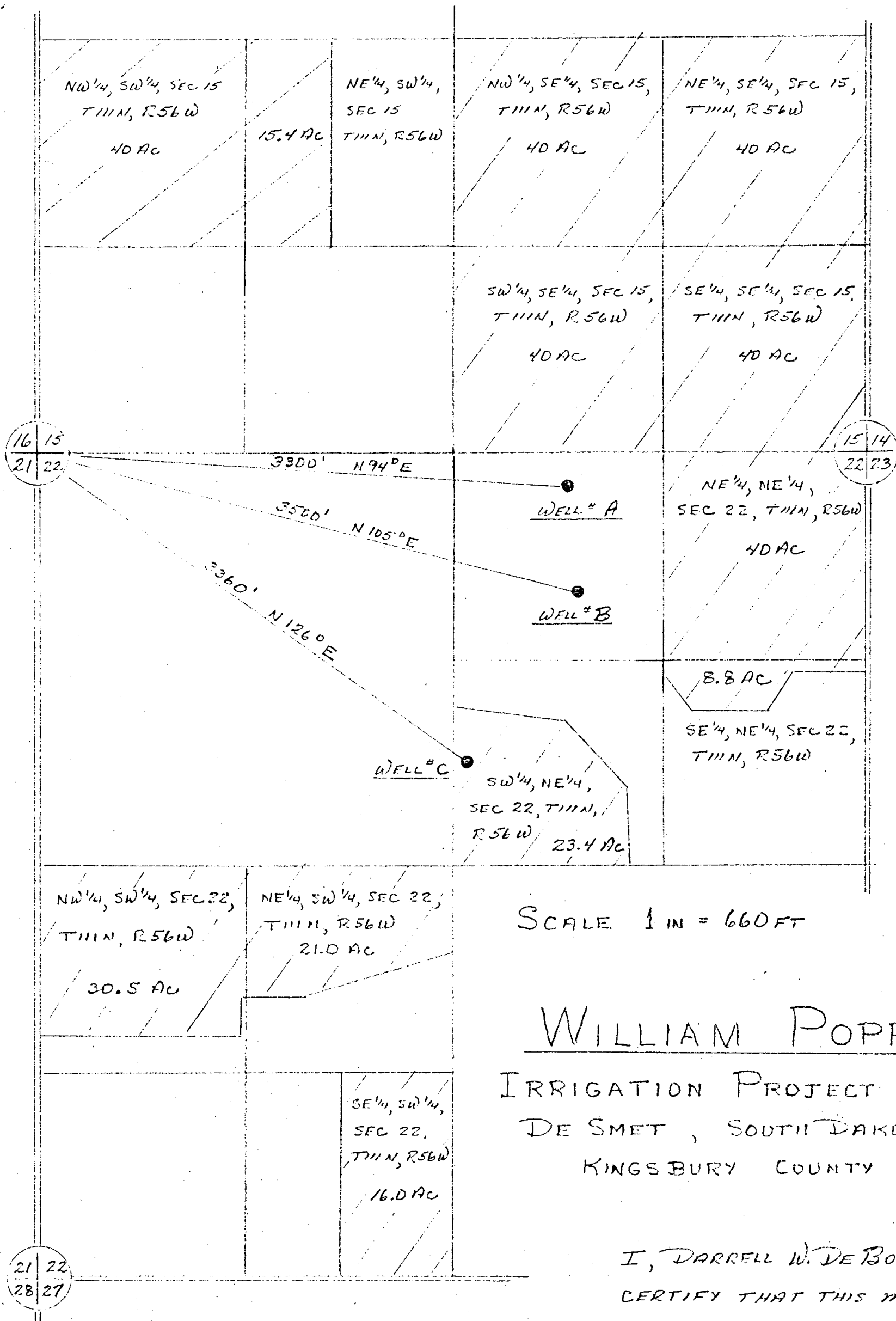
Booster Pump
Model
80754VGF343
75 HP
World Energy Series



3499-3

NOT TO SCALE





AREA IRRIGATED 355.1 AC.

WATER CLAIMED 5.07 CFS

I, DARRELL W. DE BOER, DO HEREBY
CERTIFY THAT THIS MAP IDENTIFIES
A REASONABLY ACCURATE RECORD
OF THE LAND OF
WILLIAM POPPEN, DE SMET, S.D.
KINGSBURY COUNTY

DRAWN BY D.W. DE BOER P.E. #2630
BROOKINGS, S.D. DEC. 21, 1976

Darrell W. DeBoer