

1. Considered 3-16 19 80
 2. Name of Applicant BOB W. MATTKE
 3. Post Office Address Rt. #3, HURON, S.D. 57350
 4. Amount of Water Claimed No ADD'L (2.2)
 5. Source of Water Supply 2 WELLS - 74', 72' ~~51'~~ DEEP
 6. Water to be used for IRRIGATION
 7. Acres to be irrigated No ADD'L (200) maximum acre feet
 8. Water to be diverted and used in BEADLE County.
about: 5W, 6 miles South of CAVOUR
 9. PROOF OF PUBLICATION Received (48) 3-24-80
Not Received _____
- APPLICATION Approved 3-27-80
Subject to WT
Not Approved _____
Action deferred _____

Priority

Date

Received 1-10-80 Application Complete yes X no _____ FFE 150⁰⁰

Remarks Add ~~two~~ ^{one} well on Permit # 2832-3 and

change point of diversion on same permit

#1 & #2

Sealed 4988-3A
add'l Diversion

Date information and/or

fee or corrected Application received 3/6/80

Period of Annual use April thru October

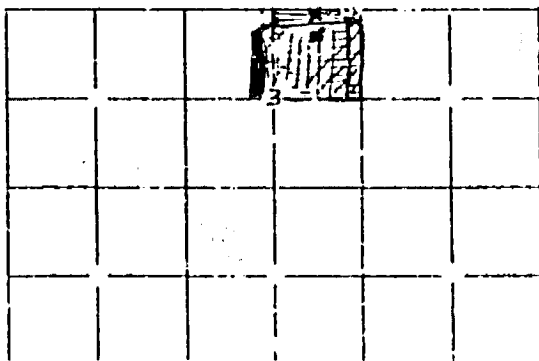
WATER
QUALITY

Received (yes) 7/6/80 no _____ APPROVED/CONDITIONAL (Circle one)

W-1 Description same as application (yes) no _____ Remarks _____

Disapproved _____

Returned _____



Diversion Points

NE 1/4 Sec 10, T109N, R61W
NE 1/4 Sec 10, T109N, R61W

3-T109N-R61W

Lands to be irrigated

NE 1/4 and E 1/2 NW 1/4

Sec 2-T109N-R61W

WELL
LOG

Remarks _____

Driller Johnson Kahmke Licensed yes X no _____

Depth 74', 72' & 116'

MAP

Map No. 3713-3 Map located In Water Right X Map file _____

Type of Map Aerial Prepared by Bur Jones WRS

+++++

REVIEWED

This Application was reviewed within 30 days of date received, accepted as complete, Number assigned and written up for advertisement before the Board on 3-26-80.

B. J. Westlund
(Signed)

+++++

PROTESTS

Letters/Petitions In File - yes _____ no _____ Remarks _____

REMARKS
F.F. & C
OF LAW,
FINAL
DECISIONS
ETC.

Date _____
Final Decision, including F.F. & C of Law were adopted _____
Date _____
Final Decision mailed to parties and/or parties notified that Final Decision was adopted _____

Remarks _____

No. 4488-3Map No. 3713-3 Water Division No. 3 JAMES RIVER District

Above for Office Use

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New _____ Vested Right _____ Future Use _____

Change in Diversion X Additional Diversion X

Change in Acreage _____ Additional Acreage _____

1. Name of Applicant Bob W. Mattke Phone No. 352-9727Post Office Address RL #3, Huron State SD
(Street, RR, or Box) (Town) (Zip Code)

If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) _____

3. Name of diversion work Mattke Helper Wells4. Amount of water claimed (cubic feet per second) no additional5. Source of water supply groundwater6. Location of point of diversion #1 - 1100'E & 30'S from Nycotner, #2 - 600'S of #1 Well,~~#3 - 400'S of #2 Well~~, all in Section 3, T109N, R61WCounty Beadle7. Annual period or periods during which water is to be used April thru October8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation9. For irrigation use, Total number of acres to be irrigated 200

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.
<u>NE 1/4 Sec 3, T109N, R61W</u>	<u>160</u>
<u>& 40 ac in E 1/4 E 1/4 NW 1/4</u>	<u>40</u>

Land Description	No. Acres Irr.

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 4 years.11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Daily PlainsmanHuron SD

12. Principal Features of the Proposed Water Supply System.

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

wells, pump and motor

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

mainline

C. Works proposed to apply water to beneficial use.

center pivot

Estimated Total Cost \$ _____

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

STATE OF SOUTH DAKOTA)

County of Hughes) ss.I, Bob W. Mattke 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 Bob W. MattkeSubscribed and sworn to before me this 25th day of January, 1980Baron Wernemann
Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Board of Water Management hereby approves Water Right Application No. 4488-3

BOB W. MATTHE HURON, S.D. & R. #3
(Applicant) (Post Office Address)
SOUTH DAKOTA 57350 With the following qualifications.
(State)

see also 4488-31

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.

LAND COVERED UNDER THIS PERMIT IS ALSO COVERED UNDER PERMIT NO 2832-3. COMBINATIONS OF DIVERSIONS UNDER TWO PERMITS SHALL NOT EXCEED THE STATUTORY LIMIT OF 1 C.F.S. FOR EACH 70 ACRES. PRIORITY ESTABLISHED UNDER PERMIT NO. 2832-3

Date of first receipt of application JANUARY 10, 1980
Date of return to applicant for correction, amendments or changes required JANUARY 25, 1980
Date of receipt of corrected application MARCH 6, 1980
Approved MARCH 27, 1980, Recorded in Book 21 Page 159

WATER RIGHT PERMIT NO. 4488-3

The Board of Water Management hereby grants and issues this Water Right Permit No. 4488-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is JULY 16, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 27, 1982
3. The whole of said work is to be completed on or before MARCH 27, 1985
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 27, 1989
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 No ADD'L 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 irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 27, 1989; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 2ND day of APRIL, 1980

THE BOARD OF WATER MANAGEMENT

By:

John H. Hest
Chief Engineer, Water Rights

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

Postcard no 1

TEST	STONE	SHALE	GRAVEL	SAND	CLAY
119	✓				
120				✓	
121					✓
122				✓	
123					✓
124				✓	
125					✓
126					✓
127					✓
128					✓
129					✓
130					✓
131					✓
132					✓
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187					✓
188					✓
189					✓
190					✓
191					✓
192					✓
193					✓
194					✓
195					✓
196					✓
197					✓
198					✓
199					✓
200					✓

[illegible]

26 ft
The only gutter on
west street is the north

THE UNIVERSITY OF CHICAGO
 PRESS

johnson,

COPY

69

11

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

- (1) Drill Hole, Diameter _____, Depth _____
- (2) Casing, Type _____, Diameter _____, Thickness _____
(wood, concrete, steel, etc.)
- (3) Screen, Type _____, Diameter _____, Length _____
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Depth to water (ground surface to water level) _____

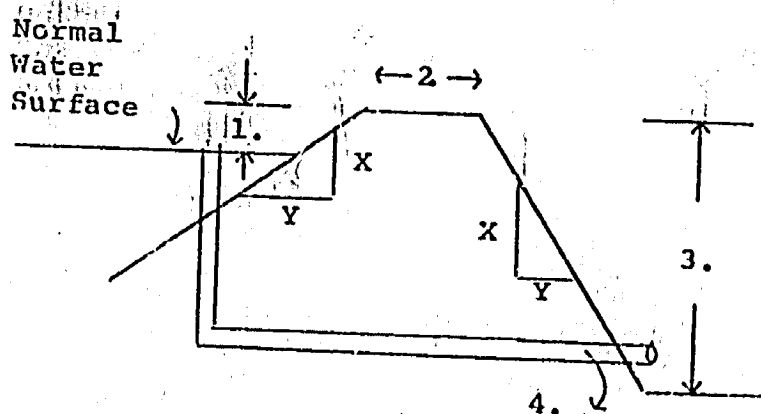
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property _____ rds.

On property owned by others _____ 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, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____
2. Crest width _____
3. Height of Dam _____
4. Outlet dimensions:
Pipe diameter _____
Spillway width _____
- X & Y slope:
Upstream _____
Downstream _____
- Surface area of impoundment _____
- Drainage area above dam _____

Bob W. Matthe

Signature Applicant

44

CONDITIONAL

[illegible]

SOIL RESTRICTIONS:

Dudley-Tetonka (DtA) 10 acres or less strip in NW 1/4 quadrant;

1. Water should not be applied more than 2-4 times during the irrigation season.
2. Each uninterrupted application (one rotation of center pivot) should be of at least 2-4 inches of water.
3. (X) Yes () No Surface drainage suggested on any area that tends to pond
4. () Yes () No Subsurface drainage suggested on water.
5. (X) Deep tillage (for the purpose of aiding movement of water through dense subsoils.

COMMENTS: Occasional

6. () Heavy fall application of irrigation water.

GENERAL COMMENTS:

You have two non-irrigable soil types in the 200 acre legal description, Dudley Stickney silt loams and Dudley-Tetonka silt loams. With a pivot system, the (Dsa) Dudley- Stickney soils will not be touched. The band of (Dta) Dudley Tetonka will be crossed with the pivot. With a narrow band of small acreage, surface drainage will be the first and most feasible approach. This could entail some movement of earth to prevent ponding, water-logging, and crop kill.

Copy to applicant
Copy to Water Rights
Copy on File

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57007

Submitted by: 20
 Address: Box 3, 43
Deer, 57350

Date Rec'd: 7, 1960
 Sample No. 2007
 Identification 11-30
12, 1960, 3, 109, 1.61

WATER ANALYSIS

Calcium (Ca)	136	ppm*	6.80	me/l**
Magnesium (Mg)	34	ppm	2.76	me/l
Sodium (Na)	43	ppm	1.87	me/l
Potassium (K)	10	ppm	0.26	me/l
Sulfate (SO ₄)	235	ppm	4.59	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	70	ppm	1.96	me/l
Bicarbonate (HCO ₃)	371	ppm	6.03	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)	304	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1100	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.35	Adjusted SAR	2.20	1.54
Sodium	16.00	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.90			
Others:				

*ppm = parts per million
 **me/l = millequivalents per liter
 ***g.p.g. = grains per gallon

COMMENTS: Total cations 11.69 me/l
 Total anions 12.93 me/l

By: Shirley Litten

Service Performed	Amount Due
Water Quality Analysis	15.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 20007

Amount Enclosed \$
 Signed

REPORT OF ANALYSIS
Water Quality Laboratory
Water Resources Research Institute
South Dakota State University
Brookings, South Dakota 57007

Submitted by:
 Address:

Date Rec'd.
 Sample No.
 Identification

WATER ANALYSIS

Calcium (Ca)	128	ppm*	6.40	me/l**
Magnesium (Mg)	33	ppm	3.15	me/l
Sodium (Na)	49	ppm	2.13	me/l
Potassium (K)	10	ppm	0.26	me/l
Sulfate (SO ₄)	200	ppm	5.82	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	80	ppm	2.24	me/l
Bicarbonate (HCO ₃)	359	ppm	5.88	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)	294	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1100	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.95	Adjusted SAR	2.45	1.71
Sodium	17.35	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.60			
Others:				

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 11.94 me/l
 Total anions 13.94 me/l

By:

Service Performed

Amount Due

Irrigation analysis

\$15.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No.

Amount Enclosed

Signed

No. 4488-3

Publish first publication, on or before March 14, 1980

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

March 7, 1980

Notice is hereby given that Bob W. Mattke whose post office

address is Huron, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22, 46-5-41; 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use no add'l cubic feet of water per second of time from groundwater (two well) Mattke Helper Wells to

through the change a, the point(s) of diversion of and add an which is(are) to be located in the NW 1/4 NE 1/4 and NE 1/4 NE 1/4 additional point of diversion on an existing permit

of Section 3, Twp. 109 N, Range 61 W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

NE 1/4 and E 1/4 EA NW 1/4, Section 3 - T109N - R61W

This Application No. 4488-3 will be considered by the Water Management Board at SDEA Auditorium, 411 E. Capitol Pierre, SD 57501 upon the 26 day of March 1980

at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person 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 at the hearing. Decisions of the Board may be appealed to the Courts as provided by law. Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWR, Foss Bldg., Pierre, SD, prior to the hearing for assistance to assure access to the hearing.

BETTY WESTLUND
Water Rights Specialist

cc: Bob W. Mattke
Rt. #3
Huron, SD 57350

FORM 6 - Notice of Intent to Appropriate Water
GROUNDWATER

No. 4488-3

STATE OF SOUTH DAKOTA)
County Beadle) ss.

Water was taken from the Daily Plainsmen

City _____ of Huron

March 14, 1980

March 21, 1980

(Signature)

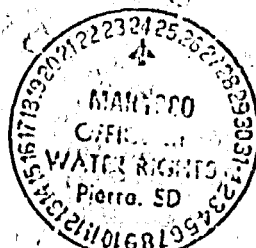
bookkeeper

(Title)

3-21-80

(Date Signed)

F.P. 3-1-80 2:30 P.M. P. 3-21-80
NOTICE OF HEARING
IN AN APPLICATION
TO APPROPRIATE WATER
Pierre, South Dakota 57501
On March 7, 1980, the following
Notice is hereby given that Bob
W. Maille, Executive Director of the
Office of the Water Rights Administrator,
has filed an application in accordance
with the provisions of SDCL 46-1-1
thru 46-1-14, 46-2-1 thru 46-2-14, 46-3-1
thru 46-3-14, 46-4-1 thru 46-4-14, 46-5-1
thru 46-5-14, 46-6-1 thru 46-6-14, 46-7-1
thru 46-7-14, 46-8-1 thru 46-8-14, 46-9-1
thru 46-9-14, 46-10-1 thru 46-10-14, 46-11-1
thru 46-11-14, 46-12-1 thru 46-12-14, 46-13-1
thru 46-13-14, 46-14-1 thru 46-14-14, 46-15-1
thru 46-15-14, 46-16-1 thru 46-16-14, 46-17-1
thru 46-17-14, 46-18-1 thru 46-18-14, 46-19-1
thru 46-19-14, 46-20-1 thru 46-20-14, 46-21-1
thru 46-21-14, 46-22-1 thru 46-22-14, 46-23-1
thru 46-23-14, 46-24-1 thru 46-24-14, 46-25-1
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thru 46-27-14, 46-28-1 thru 46-28-14, 46-29-1
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thru 46-169-14, 46-170-1 thru 46-170-14, 46-171-1
thru 46-171-14, 46-172-1 thru 46-172-14, 46-173-1
thru 46-173-14, 46-174-1 thru 46-174-14, 46-175-1
thru 46-175-14, 46-176-1 thru 46-176-14, 46-177-1
thru 46-177-14, 46-178-1 thru 46-178-14, 46-179-1
thru 46-179-14, 46-180-1 thru 46-180-14, 46-181-1
thru 46-181-14, 46-182-1 thru 46-182-14, 46-183-1
thru 46-183-14, 46-184-1 thru 46-184-14, 46-185-1
thru 46-185-14, 46-186-1 thru 46-186-14, 46-18



RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7258

PIERRE, January 25, 1980

RECEIVED OF Delvin Mattke, RR 4 Box 116, Huron SD for Bob Mattke
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. 4488-3 (examination, processing, recording and filing)	150 00
Fee for inspecting Construction, and issuing Cert. of Construction No.	
Fee for inspecting Beneficial Use, and issuing Water License No.	
Fee for issuing Location Certificate-Dry Draw, No.	
Fee for filling	
Fee for certified copy of	
Fee for Print copy of map	
Fee for Certifying	
Fee for (any other work as provided by law)	
TOTAL	150 00

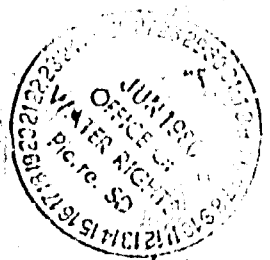
WATER RIGHTS COMMISSION

By John Hatch
Chief Engineer, Executive Officer
John Hatch kw

April 2, 1980

Bob Matthe called re his
appl.-needs the 3rd well.
Told him SCC only approved two.
He will have to reapply and
receive W & approval on the 3rd
well since it is over 250' away.
from other wells.
He did not understand this at
the time,
and would be contacting us
to fill out another application
in the near future.

Explained we could only ^{DW} advertise what is
approved by SCC.

Bea. 26NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USEPost Office Harmon, So. Dak.Date: June 26, 1980TO: Water Rights [redacted]
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 maximum extent it is going to be used, not exceeding the amounts as specified in Water Right No.

4488-3.

Water Right Permit No. 4488-3 states that the diversion system is to be constructed by September 27, 1982, and that the water is put to beneficial use by March 27, 1989.

The diversion system was completed on June 15 1980. Applying the water to beneficial use was completed on June 15 1980.

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.

Bob W Matthe
(Signature)

No. 448P-3A

**South Dakota Department of
Water & Natural Resources**
Jon Foss Building Water Rights Division
Pierre, South Dakota 57501 (605) 773-3352

July 29, 1982

Bob W. Mattke
RR #3, Box 128
Huron SD 57350

Dear Mr. Mattke:

Enclosed herewith are, Water License No. 4488-3A and Certificate of Construction.

Water License No. 4488-3A is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ks

enclosures

NOTE: The applicable portions of Permit No. 4488-3 and No. 2832-3 have been incorporated into this Water License.

WNR-817-7/79
Transmittal of Water License

NOT TO SCALE

Delvin
Mattke

184

60.4

AS ISSUED
TO BE CHANGED
TO #1 LOCATION

X T #1 (TEST LOG #1)

L50

X T #2 (TEST LOG #2)

32.8

46.2

X T #3 (TEST LOG #4)

378-60L

23.6 25.1

Rick Marone

I VISITED WITH MR MATTKE
ON 1-10-80 - HE DOES NOT
THINK HE CAN GET
ADEQUATE WATER FROM ONE
LARGE WELL - THINKS 6"-8"
WELL WILL PRODUCE 250-300
GPM - WOULD RATHER GO
THIS ROUTE - ALSO HE
HAS BETTER SANDS E OR
THE ORIGINALLY APPROVED
WELL & WOULD LIKE THE
CHANGE IN POINT OF
DIVERSION AS SHOWN

31.2

35.7

Donnelly

28.0

3.1

109-61

Floyd & Elmore
Collins

20.0

49.7

51.3

378-60L

~~Map 3713-3~~ Appl. 4488-3

HURON DRILLING INC.
WELL LOCATION MAP

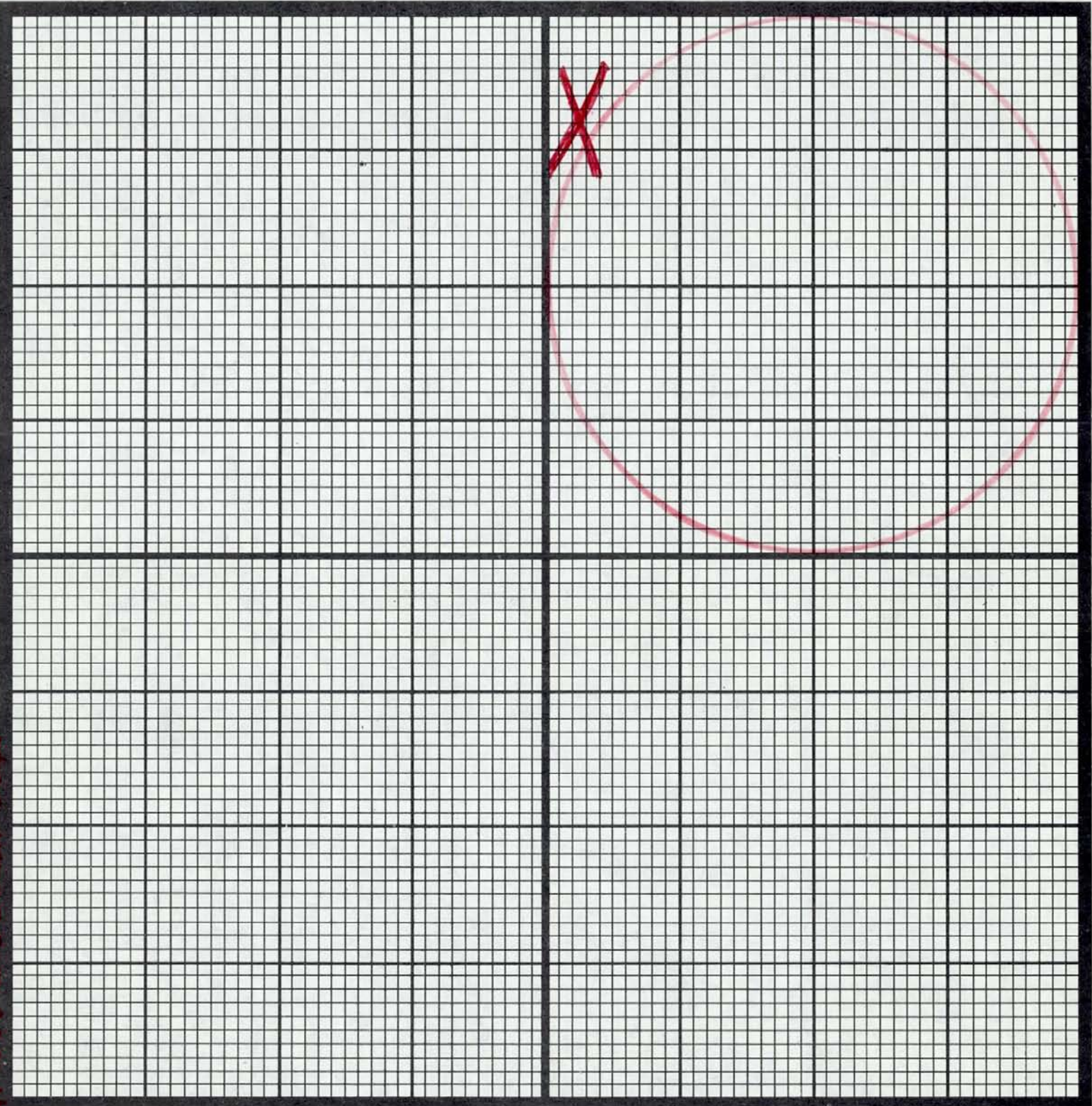
NAME Bob W. Mattke (Delvin)

DATE June 28 19 76

WELL NO. #1

Northeast QUARTER, SECTION 3

TWP. 109 RANGE 61 IN Beadle COUNTY



X — PROPOSED LOCATION

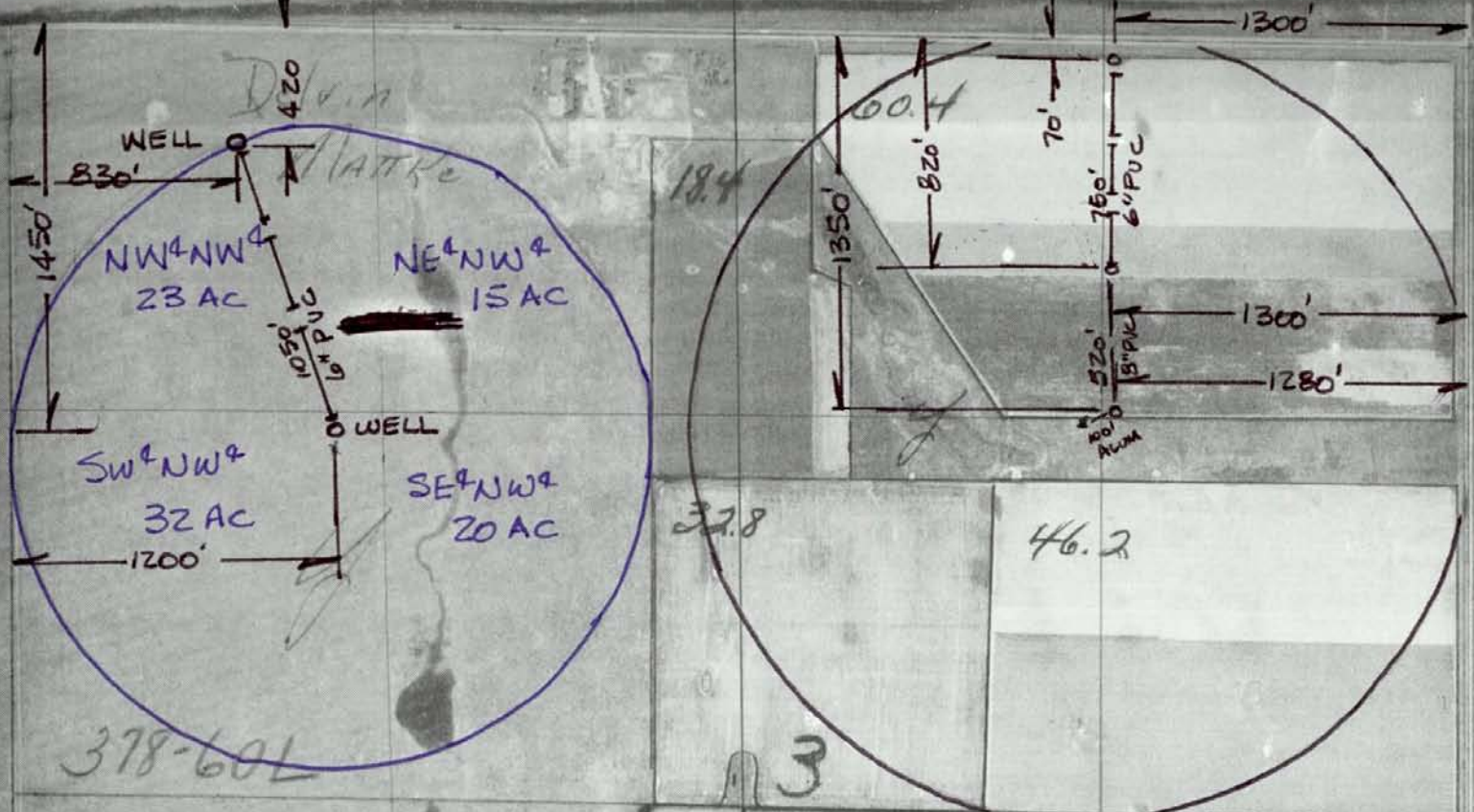
Prepared By Dick Fadgen

Dick Fadgen

Beadle County Extension Agent

APPENDIX 3 APPENDIX 3 APPENDIX 3

NOT TO SCALE



378-60L

Rick Malone

y

23.6 25.1

31.2

35.7

Dora Kelly

28.0

3.1

109-61

20.0

49.7

Floyd & Edna Collins

51.3

378-60L

Map # 3713-3