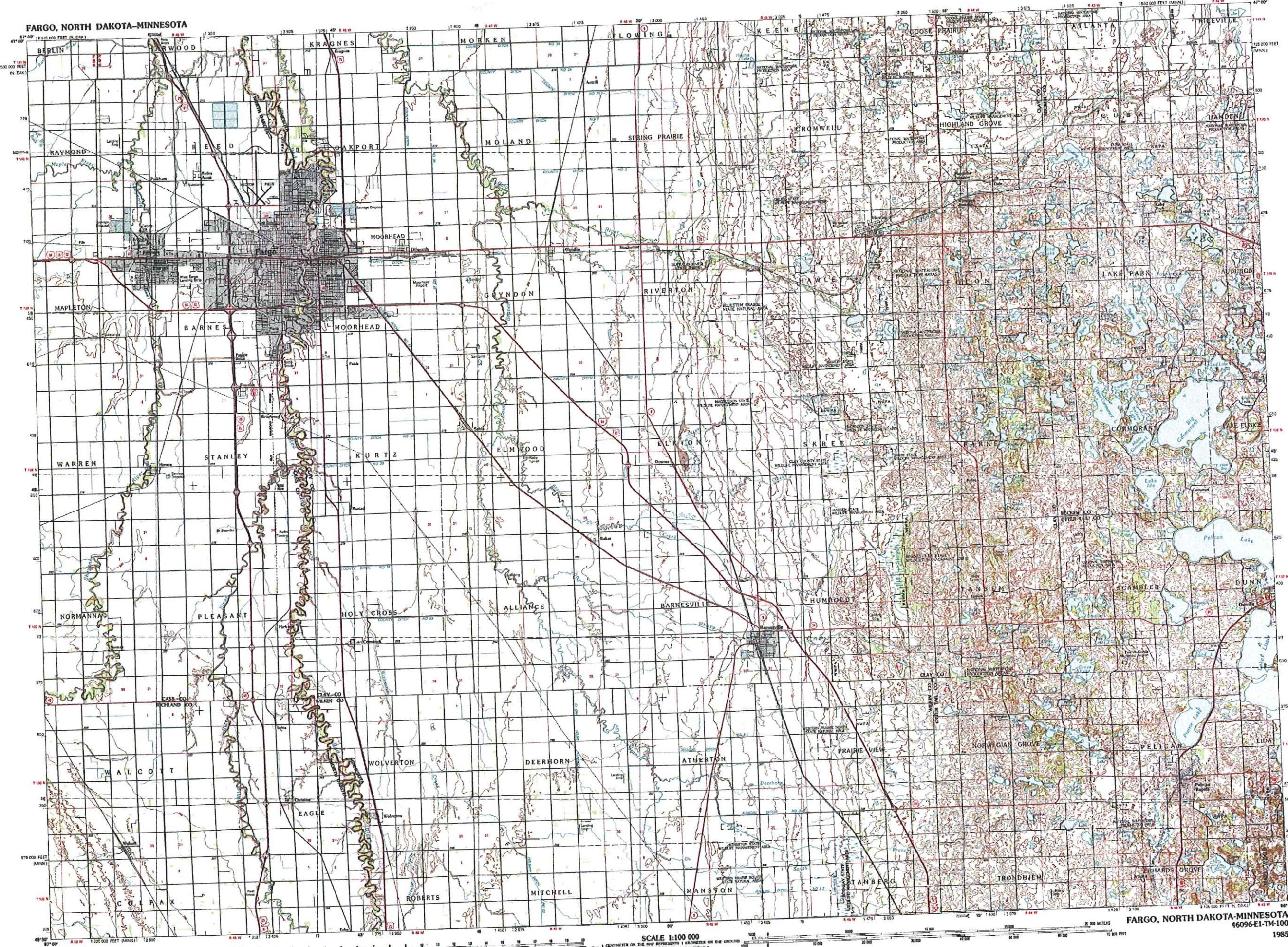


## Appendix D

### Aerials Photographs & Historic Maps

FARGO, NORTH DAKOTA-MINNESOTA



Fargo NORTH DAKOTA-MINNESOTA

1:100 000-scale metric topographic map



30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



GEOLOGICAL SURVEY

1985

Produced by the United States Geological Survey  
 Compiled from USGS 1:24 000-scale topographic maps dated 1959-1981. Planimetry revised from aerial photographs taken 1954 and other source data. Revised information not field checked. Map edited 1985.  
 Projection and 10 000-meter grid, zone 14, Universal Transverse Mercator  
 25 000-foot grid ticks based on Minnesota coordinate system, central zone and North Dakota coordinate system, south zone 1927 North American Datum  
 To place on the predicted North American Datum 1983, move the projection lines 7 meters north and 56 meters east  
 There may be private schoolings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 5 METERS  
 NATIONAL GEODESIC VERTICAL DATUM OF 1929  
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLARATION DIAGRAM	ADJOINING MAPS																
Meters	Feet		<table border="1"> <tr><td>1</td><td>18 000</td></tr> <tr><td>2</td><td>18 300</td></tr> <tr><td>3</td><td>18 600</td></tr> <tr><td>4</td><td>18 900</td></tr> <tr><td>5</td><td>19 200</td></tr> <tr><td>6</td><td>19 500</td></tr> <tr><td>7</td><td>19 800</td></tr> <tr><td>8</td><td>20 100</td></tr> </table>	1	18 000	2	18 300	3	18 600	4	18 900	5	19 200	6	19 500	7	19 800	8	20 100
1	18 000																		
2	18 300																		
3	18 600																		
4	18 900																		
5	19 200																		
6	19 500																		
7	19 800																		
8	20 100																		
1 000	3 280																		
2 000	6 560																		
3 000	9 840																		
4 000	13 120																		
5 000	16 400																		
6 000	19 680																		
7 000	22 960																		
8 000	26 240																		
9 000	29 520																		
10 000	32 800																		

To convert meters to feet multiply by 3.2808  
 To convert feet to meters multiply by 0.3048

UTM grid corresponding to 1983 datum is shown in parentheses  
 Diagram is approximate

FOR SALE BY U.S. GEOLOGICAL SURVEY  
 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, private street, hard or unpaved surface
- Other road or track, trail
- Road water, concrete, U.S. State
- Railroad, standard gauge, narrow gauge
- Bridge, overpass, underpass
- Tunnel, road, railroad
- Built up area, built, elevation
- Asphalt, roofing felt, building area
- National boundary
- State boundary
- County boundary
- Natural or State reservation boundary
- Land grant boundary
- U.S. public lands survey, township, section
- Range, township, section line, protected
- Power transmission line, pipeline
- Dam, dam with lock
- Cemetery, building
- Woods, water well, spring
- Wire shaft, tele or power, mine, quarry, gravel pit
- Cemetary, public or U.S. Indian monument
- Rail, off dwelling
- Distant surface, any mine, low sand
- Contours, index, intermediate, supplementary
- Topographic contours, index, intermediate
- Triangulation, base, secondary, interstad
- Triangulation, base and spot, 100, large and small
- Area to be submerged, marsh, swamp
- Land subject to controlled boundary, woodland
- Smk, swamp sw
- Gravel, strep

A pamphlet describing topographic maps is available on request

SCALE 1:100 000

FARGO, NORTH DAKOTA-MINNESOTA 46096-E1-TM-100

1985

United States Department of Agriculture



Natural Resources Conservation Service  
1615 30<sup>th</sup> Avenue South  
Moorhead, MN 56560

Phone Number (218) 233-7773 ext. 3  
Fax Number (218) 287-1787

---

July 30, 2010

Melissa Edsill Tiedemann, AICP  
2658 Crosspark Road  
Suite 100  
Coralville, IA 52241

Dear Melissa,

Enclosed are the 1939 aerial photos from Clay County, MN that you requested.

The copies for the other years will be sent separately.

If you have any questions, feel free to call me at (218) 233-7773 ext. 3 or e-mail me at [nancy.alexander@mn.usda.gov](mailto:nancy.alexander@mn.usda.gov).

Sincerely,

A handwritten signature in blue ink that reads "Nancy J. Alexander".

Nancy J. Alexander  
Soil Conservation Technician

Enclosure

*Helping People Help the Land*

An Equal Opportunity Provider and Employer

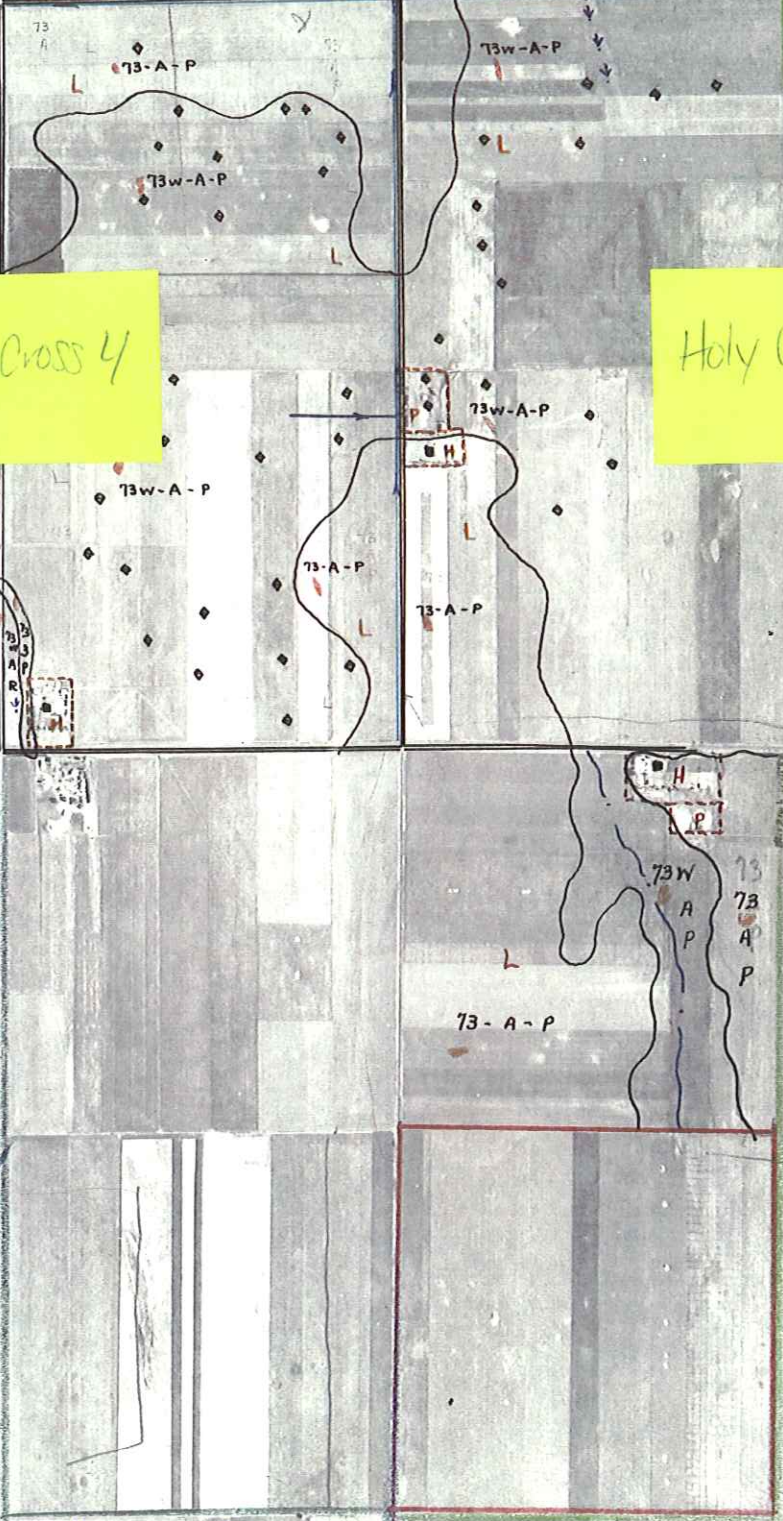


Holy Cross 4

Holy Cross 3

This 1/4

~~1/4~~



Holy cross 3 and 4  
 T137N R48W  
 Clay Co., MN  
 0-23-39 BXR-1-29

Permanent  
 Sample

BXR-1-30



Holy Cross 6

Holy Cross 5

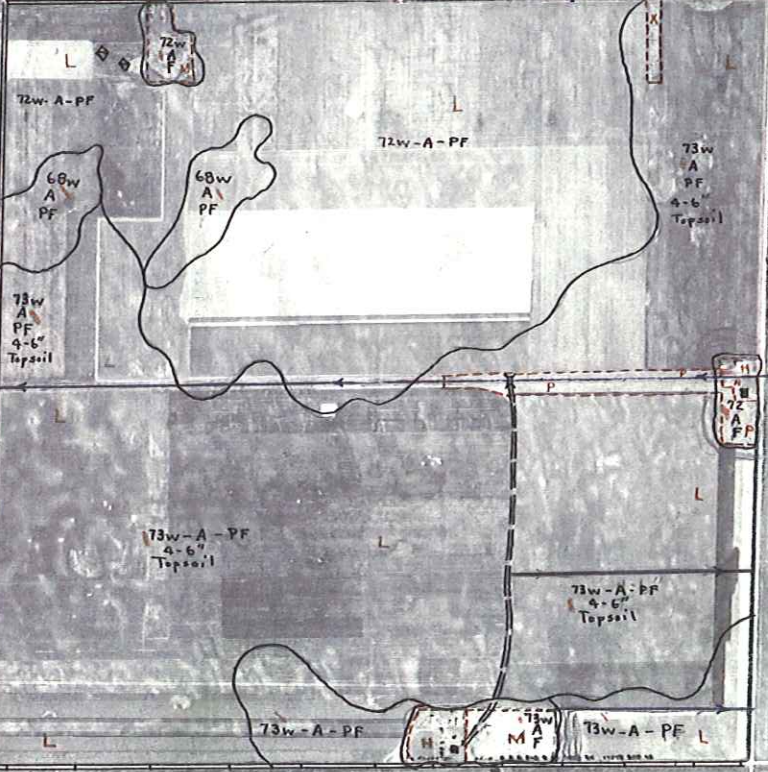
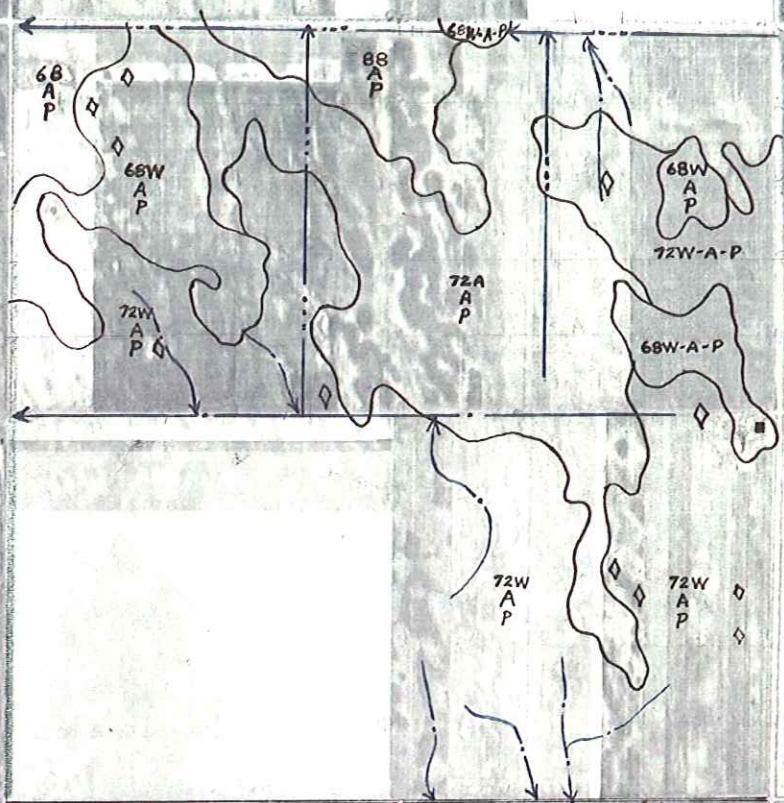
Holy Cross Sand &  
T137N R48W  
Clay Co., MN  
6-23-39 BXR-1-30

RESTRICTED

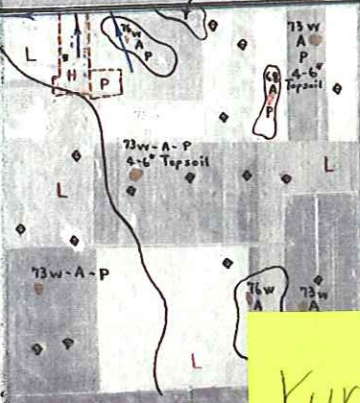
Kurtz  
 $\frac{3}{10}$

Kurtz 2,3, +10  
T138N R48W  
Clay Co., MN  
6-23-39 BXR-2-17

Kurtz  
 $\frac{2}{11}$

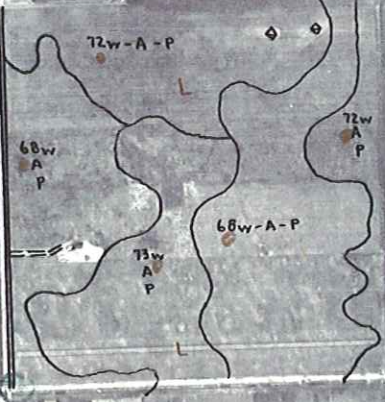
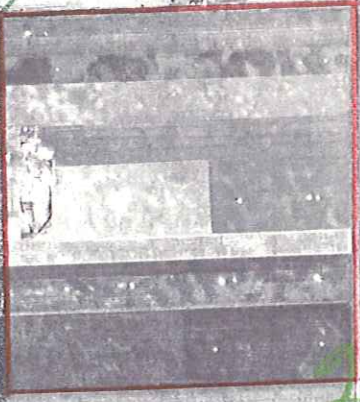


Kurtz 15 and 16  
T138N R48W  
Clay Co., MN  
6-23-39 BXR-2-6



Kurtz 16

Kurtz 15



4N-160

4N-160  
4N-160

Kurtz 17 and 20  
T138N R48W  
Clay Co., MN  
6-23-39 BXR-2-7



Kurtz 17

Kurtz 20

18

18



DATE & SURVEY

0

Kurtz 27

Kurtz 34

Kurtz 27 and 34  
T138N R48W  
Clay Co., MN  
6-23-39 BXR-1-41

BXR-I-39

DATE AS  
11-1-39

0

Kurtz 29, 31, +32  
T138N R48W  
Clay Co., MN  
6-23-39  
BXR-1-39

Kurtz 29

Kurtz 32

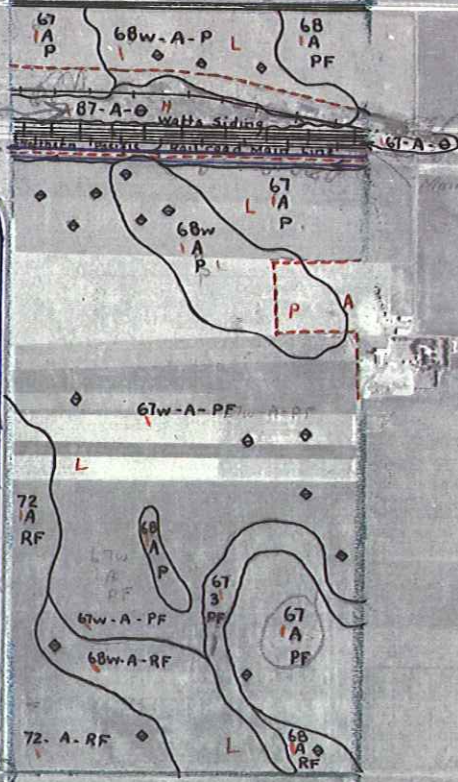
Kurtz  
31

39 RESTRICTED



Moorhead 1

Moorhead 12



Moorhead land 12  
T 139N R 48W  
Clay Co., MN  
6-30-39  
BXR-3-55

Moorhead 13 and 24  
T139 N R48W  
Clay Co., MN  
7-29-39  
BXR-7-50

Moorhead 13

*Permittent  
Sample*

68W  
H  
P

H  
P

68-H-P

H  
68W  
H  
P

68-H-P

H  
68W  
H  
P

Moorhead 24

H P

+

BXR-2  
Transfer  
To 3/1/68  
3N-68

Moorhead 25+36  
T189N R48W  
Clay Co., MN  
6-23-39  
BXR-2-66

Moorhead 25

Moorhead 36

6-23-39  
RESTRICTED  
L



BX

500' 1000'

68-A-PF

68-A-PF

68w-A-PF

68w  
A  
PF

68-A-PF

68-A-PF

68-A-PF

68  
A  
PF

68w  
A  
P  
P

68  
A  
PF

68w-A-P

Moorhead 35

68  
A  
PF

68w  
A  
PF

67-A-PF

67  
A  
PF

67w  
A  
PF

68  
A  
PF

68  
A  
PF

68w  
A  
PF

68w  
A  
PF

68w  
A  
P

67w  
A  
PF

67  
A  
PF

68  
A  
PF

68  
A  
PF

68  
A  
PF

68  
A  
PF

68-A-PF

68w  
A  
P  
P

6-23-39

L

+

Moorhead 35  
T139N R48W  
Clay Co., MN

6-23-39  
BXR-2-67



Oakport 4

Oakport 9

Oakport 10

Oakport 4, 9, and 10  
T140N R48W  
Clay Co., MN

7-29-39  
BXR-7-7

BXR-3-1

RESTRICTED SURVEY

H

Oakport 13, 14, and 24  
T140N R48W  
Clay Co., MN  
6-30-39 BXR-3-115

Oakport 14

Oakport 13

Oakport 24

30-39

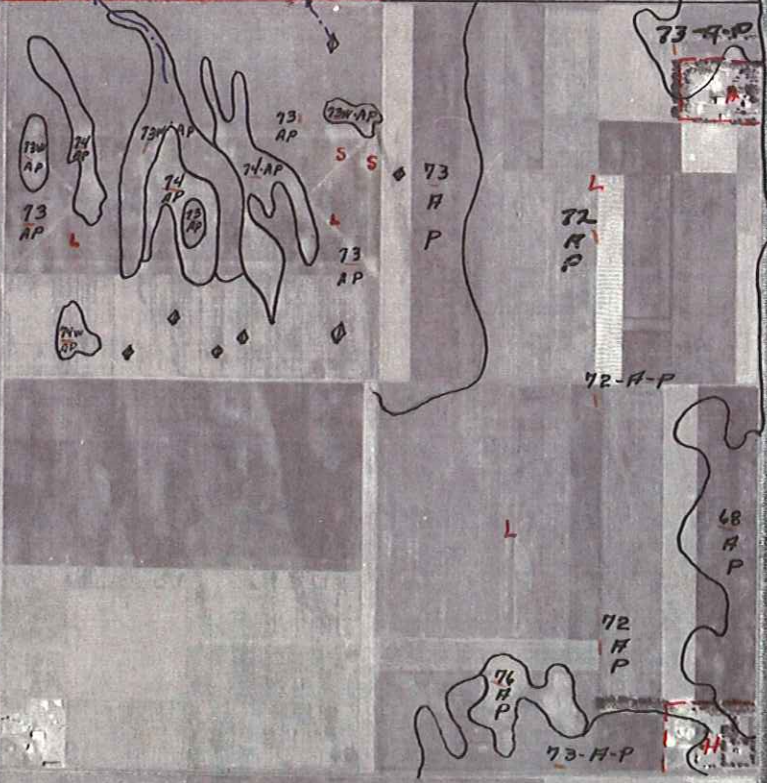
RESTRICTED

H



Oakport 15

Permanent Sample



Oakport 15  
T140N R48W  
Clay Co., MN  
6-30-39

BXR-3:117

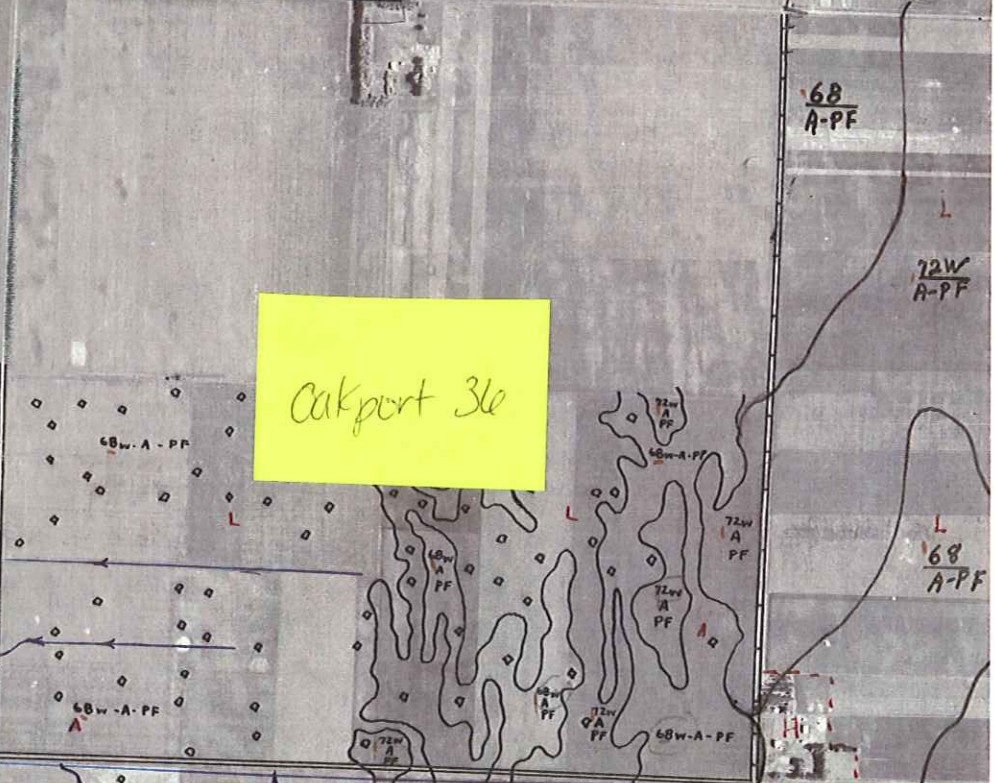
BXR-3-70

Transfered to  
2N-135

Cakport  
25+36  
T140N R48W  
Clay Co., MN  
6-30-39  
BXR-3-70



Cakport 25



Cakport 36

0-39 RESTRICTED

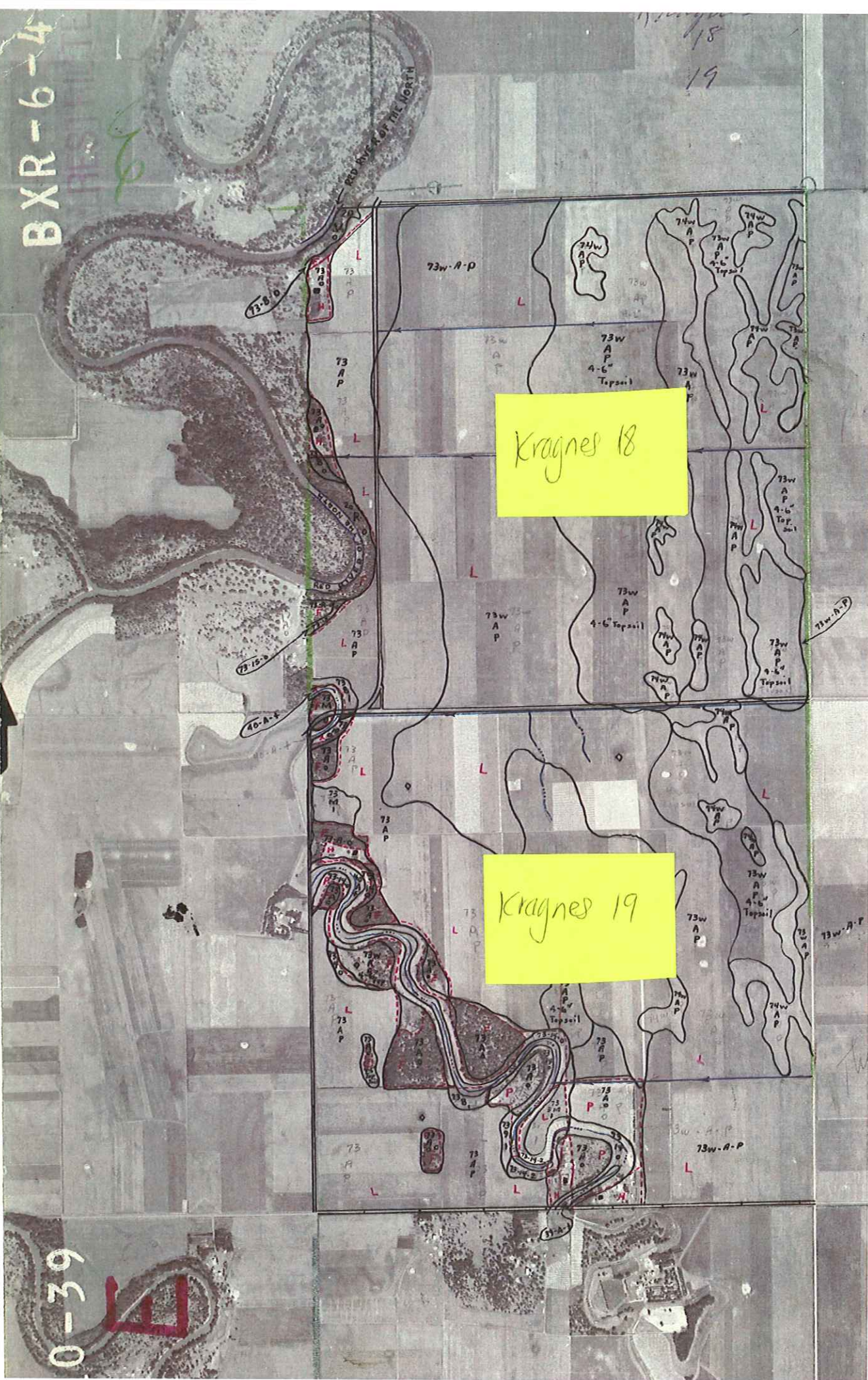
Not transferred  
need photo  
for this



Kragnes 18 and 19  
T141N R48W  
Clay Co., MN  
7-10-39  
BXR-6-48

BXR-6-4

18  
19



Kragnes 18

Kragnes 19

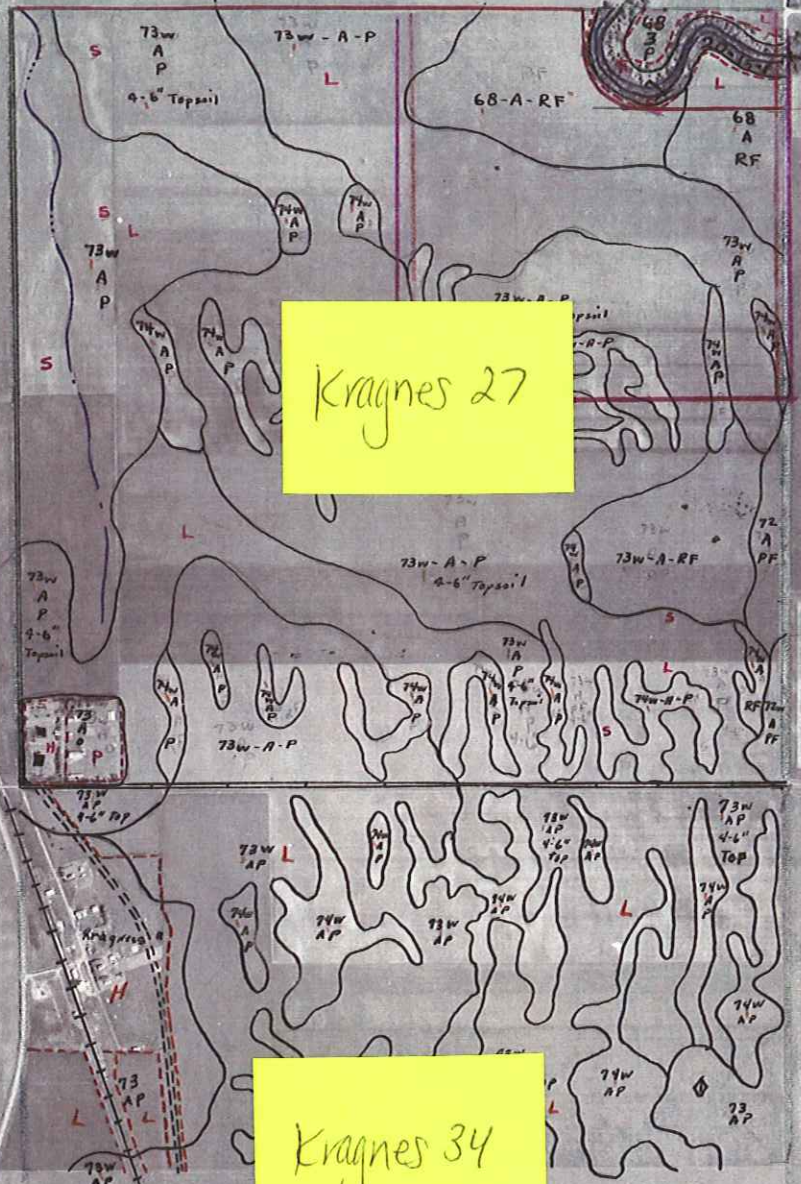
0-39

BXR-3-180

# KRAGNES

T141N 27  
 R48W 34  
 Clay Co., MN  
 6-30-39  
 BXR-3-180

1N-163



Kragnes 27

Kragnes 34

0-39

RESTRICTED  
L

29  
32

73WA-PF  
4-6" Topsoil  
PF

73W  
A  
P

73  
3  
1

73W  
A  
PF

73W  
A  
PF  
4-6" Topsoil

72W  
Surface has light gray  
app when  
No

Kragnes 29

Kragnes 28

73W  
A  
PF  
4-6" Topsoil

73W  
A  
PF  
4-6" Topsoil

73W  
A  
PF  
4-6" Topsoil

Kragnes 28 and 29  
T141N R48W  
Clay Co., MN  
6-30-39  
BXR-3-182

73-A-P

73W  
A  
A

73W  
A  
PF

S  
L

72  
A  
P

72-M-P

73  
A  
P

L

73W  
A  
PF  
4-6" Topsoil

72  
A  
P

73  
A  
P

72-M-P  
72-A-P

72-M-P  
72-A-P

72  
A  
P

72-A-P

72-M-P  
72-A-P

United States Department of Agriculture



Natural Resources Conservation Service  
1615 30<sup>th</sup> Avenue South  
Moorhead, MN 56560

Phone Number (218) 233-7773 ext. 3  
Fax Number (218) 287-1787

---

July 30, 2010

Melissa Edsill Tiedemann, AICP  
Stanley Consultants Inc.  
2658 Crosspark Road  
Suite 100  
Coralville, IA 52241

Dear Melissa,

Enclosed are the 1954 aerial photos from Clay County, MN that you requested.

The copies for the other years will be sent separately.

If you have any questions, feel free to call me at (218) 233-7773 ext. 3 or e-mail me at [nancy.alexander@mn.usda.gov](mailto:nancy.alexander@mn.usda.gov).

Sincerely,

A handwritten signature in blue ink that reads "Nancy J. Alexander".

Nancy J. Alexander  
Soil Conservation Technician

Enclosure

*Helping People Help the Land*

An Equal Opportunity Provider and Employer



HOLY CROSS T137N R48W

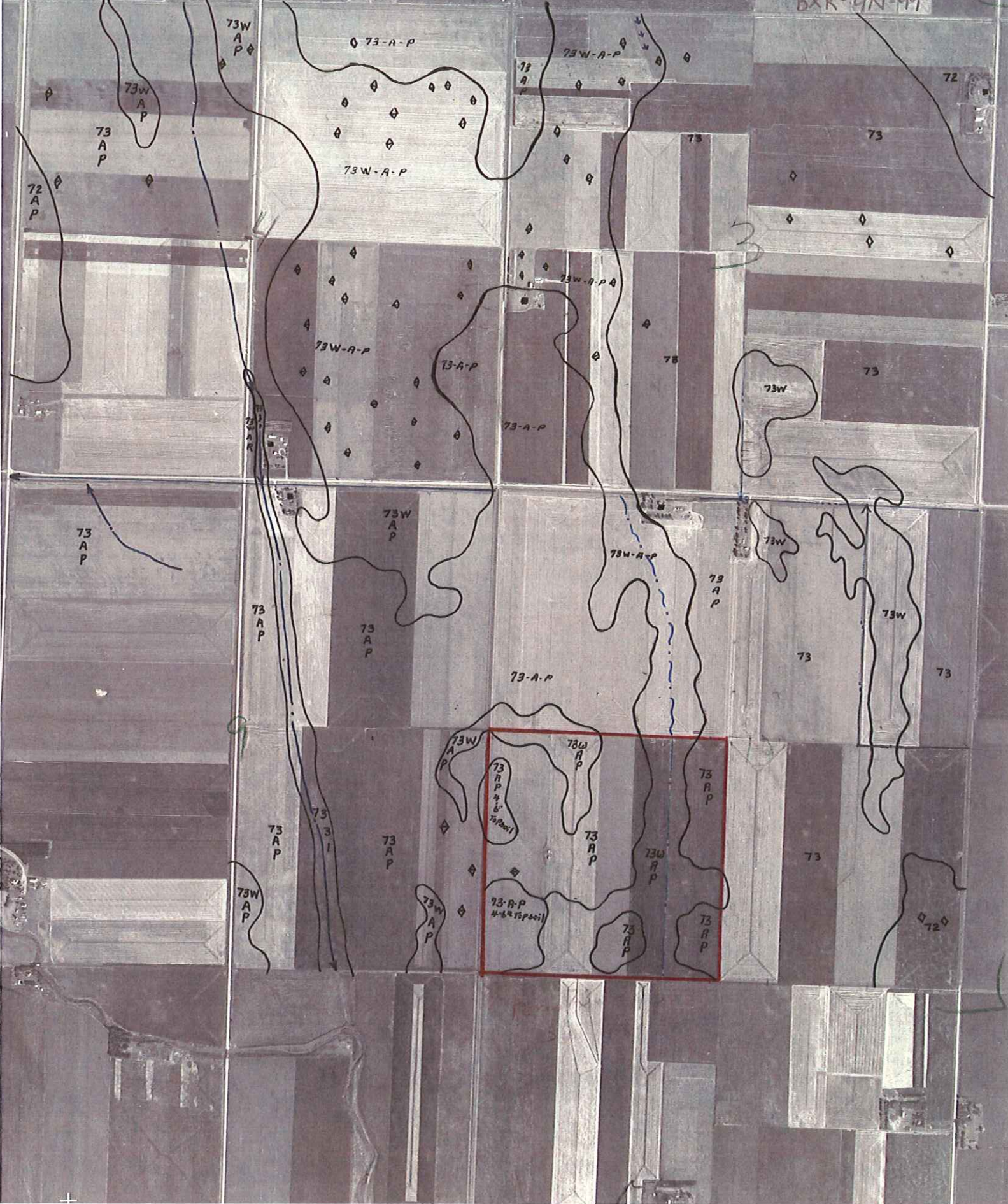
Clay Co., MN

8-28-54

BXR-4N-49

4  
11-9

3  
10-25-53



Holy Cross  
5  
8

T137N R48W  
Clay Co., MN  
8-28-54  
BXR-4N-47

Holy Cross  
6





3  
10  
"

Kurtz Clay Co., MN 8-16-54  
BXR-3N-87

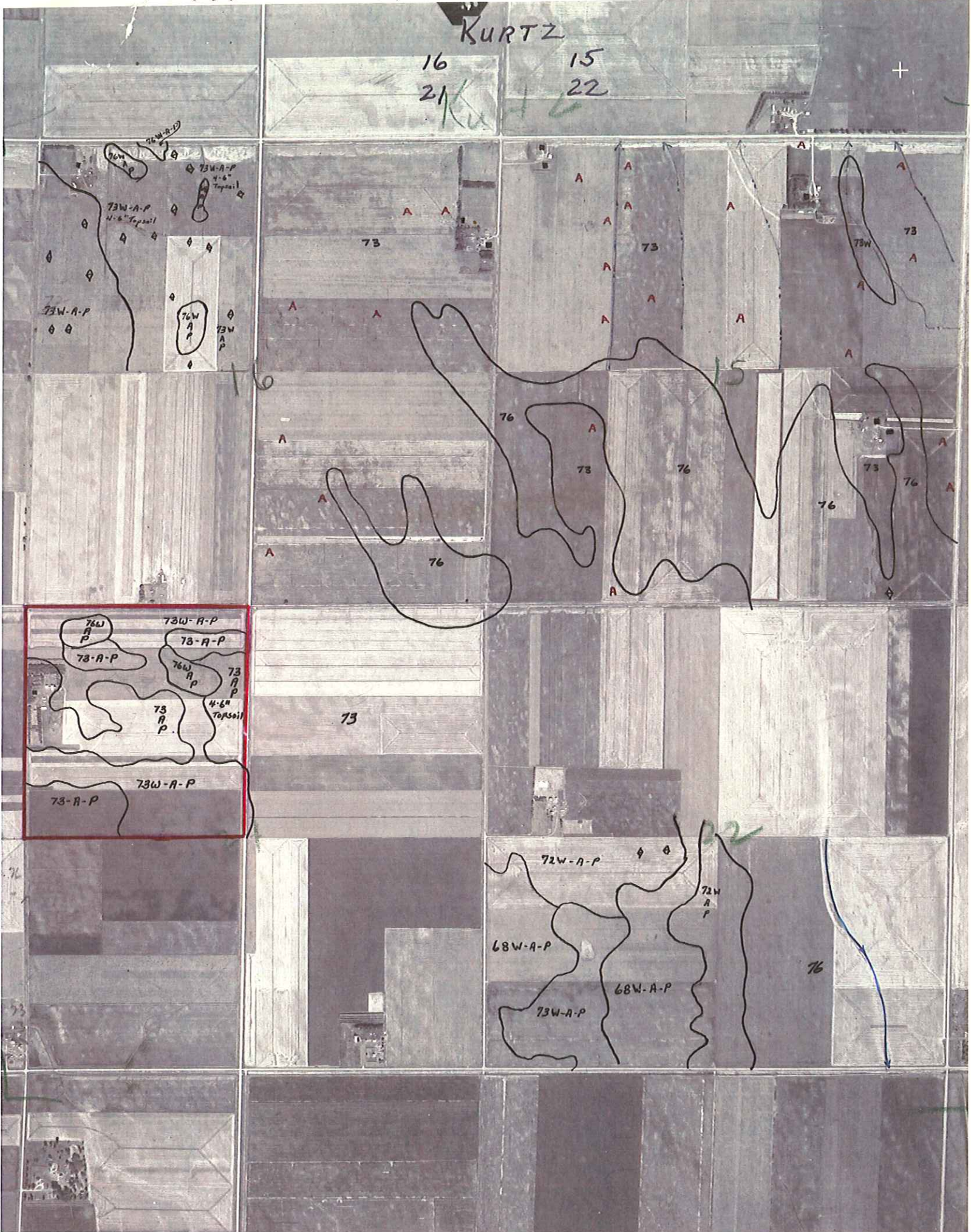


8-28-54 BXR-4N-158

T138N R48W Clay Co., MN

KURTZ

16 15  
21 22



T138N R48W Clay Co., MN 8-28-54 BXR-4N-160

KURTZ

18 17  
19 20

Kurtz

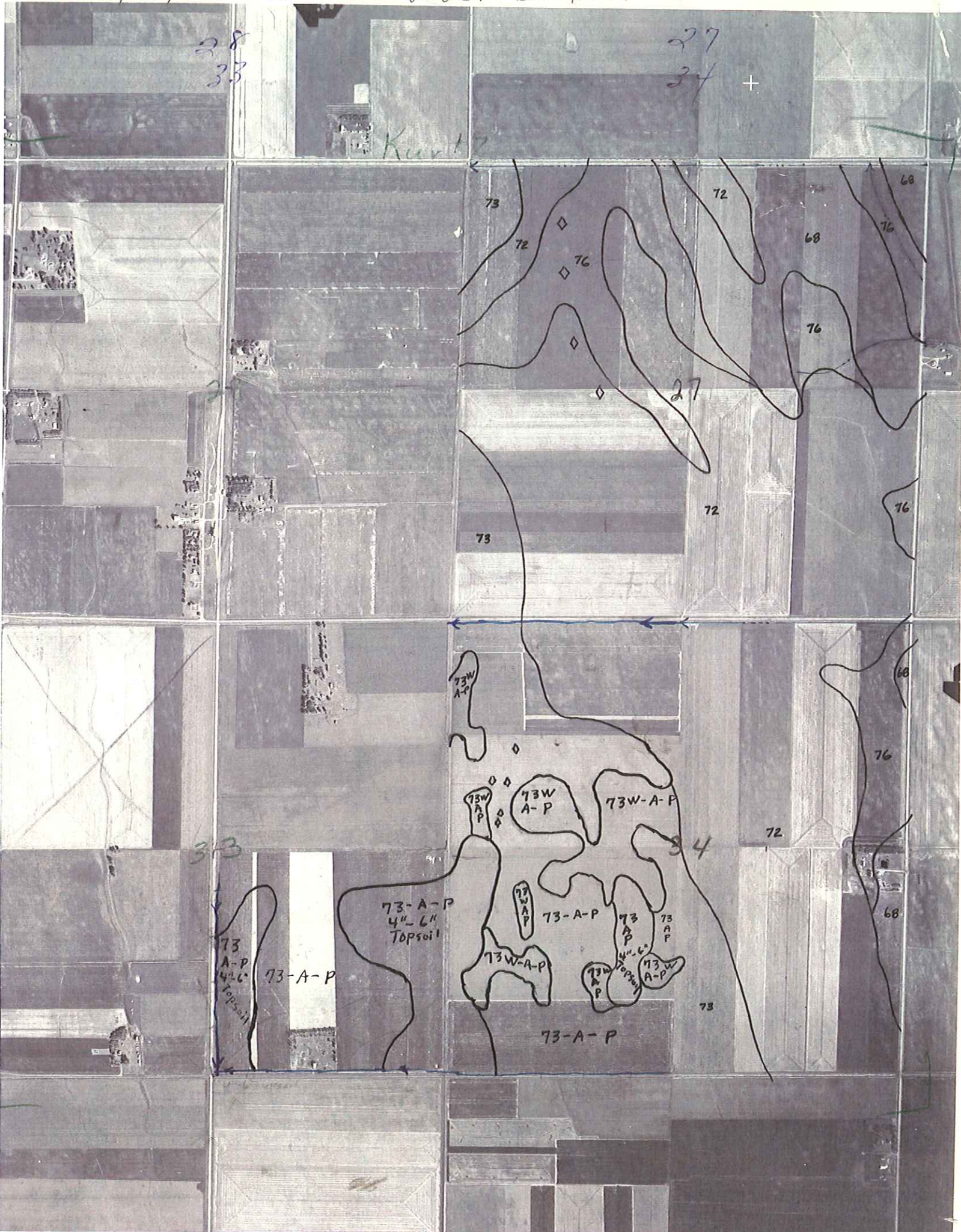


Kurtz Clay Co., MN T138N R48W 8-28-54 BXR-4N-37

28  
33

27  
24 +

Kurtz



Clay Co.,  
MN  
T138N  
R48W

BXR-4N-38

Kurtz  
29  
32

30  
31

76

73

79

72

42

72-9-2

68

72

72

32

76

72

76

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

72

73

72

72

72

72

72

72

Kurtz  
31

68

3

72

72

72

72

72

72

72

72

8-28-54

28-54



Moorhead 1an  
T139N R48W  
8-8-54  
BXR-2N-194  
Clay Co, MN

Moorhead

+

Moorhead 1

Moorhead 12



Moorhead 13 and 24 T 139N R 48W 8-16-54 BXR-3N-9  
Clay Co., MN

14  
23

Moorhead

13

24

72W  
68A  
A-P







Clay Co., MN T139N R48W 8-16-54 BXR-3N-70

Moorhead

27 26  
34 35

27

26

34

35



Clay Co., MN T140N R48W 8-8-54 BXR-2N-60

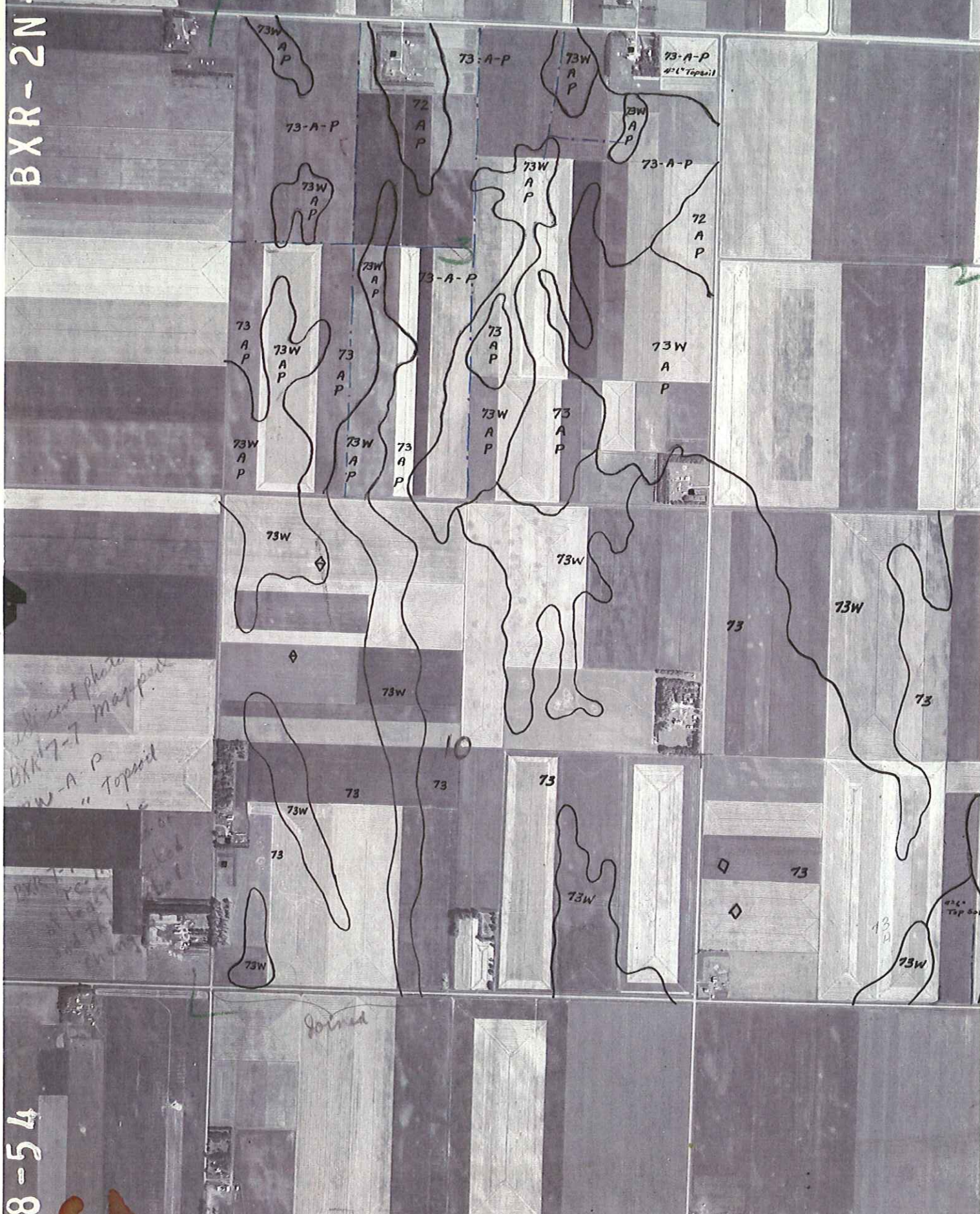
OAKPORT

5 4  
8 9



OAKPORT  
32  
10 11

BXR-2N-62



8-8-54 Clay Co., MN T140N R48W

8-54

*Handwritten notes:*  
BXR 7-7 mapped  
73W-A-P "Topsoil"

*Joined*

10

13 A

42" Topsoil

BXR-2N-117

14  
23

13  
24

OAK Part

13

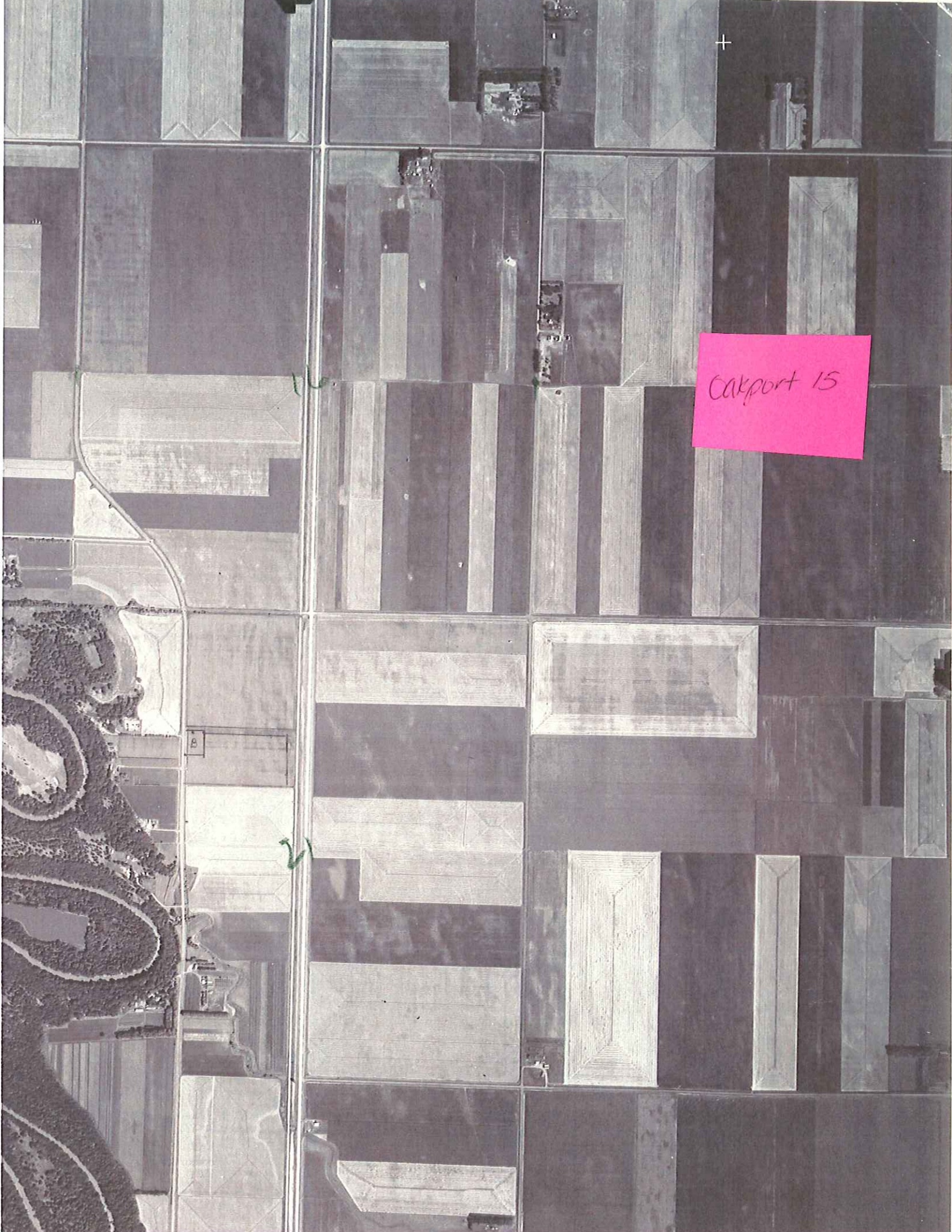
24

8-8-54 Clay Co., MN T140N R48W

8-54



T140N R48W Clay Co., MN Part of Oakport 15. (aerial is missing) 8-8-54 BXR-2N-120



Oakport 15

BXR-2N-135

OAKPORT  
25  
36

MOLAND  
30  
31

64-A-P

64-A-P

68W-A-P

68W-A-P

68W-A-P

68

68  
A  
P

72W  
A  
P

72W-A-P

68-A-P

36

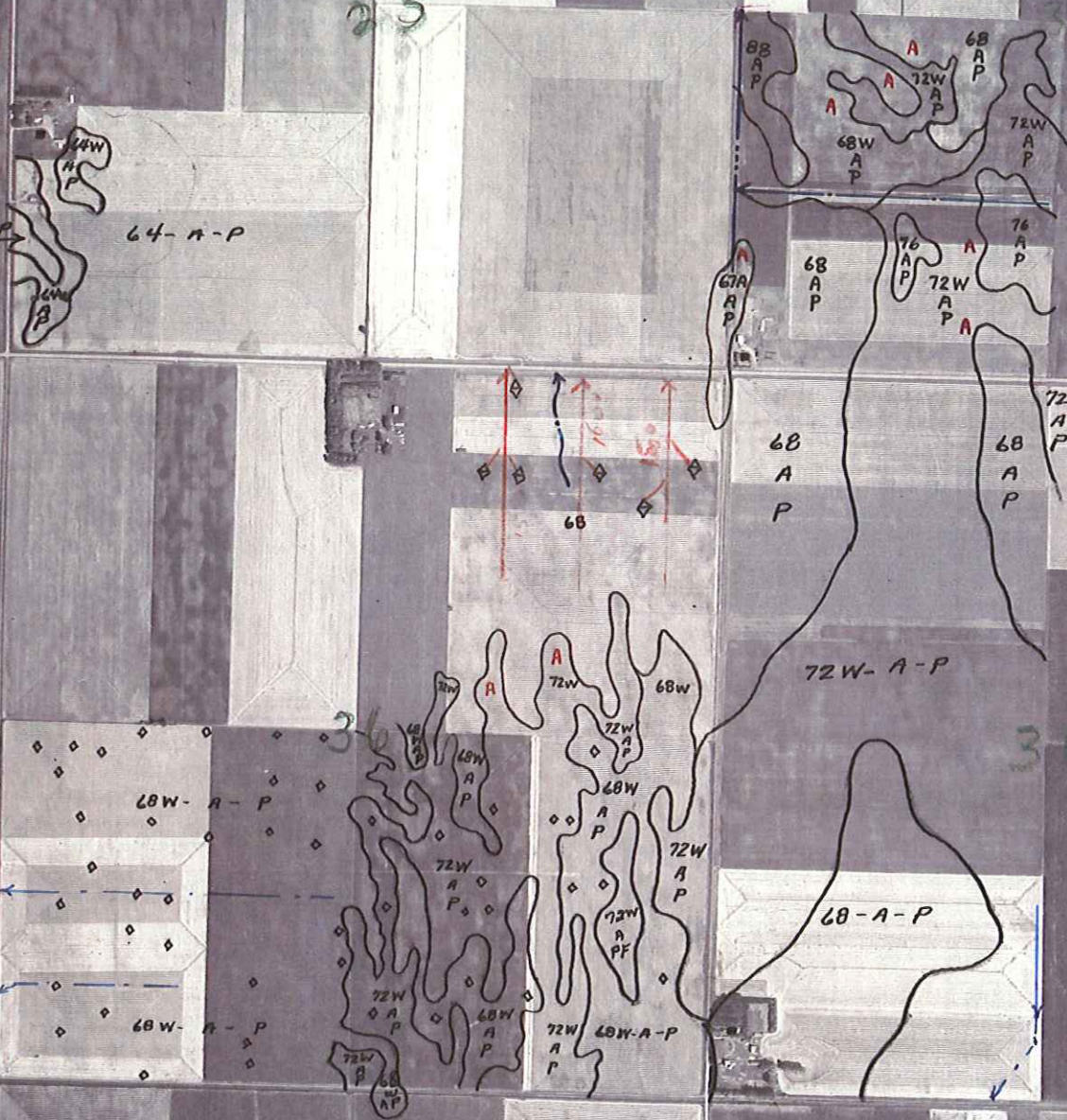
31

25

30

8-8-54 T140N R48W Clay Co., MN 1

8-54



7-24-54 Clay Co., MN T 141N R 48W

24-54

BXR-1N-160



Kragnes  
18  
19

18

19

✓

✓

8-8-54 T141 N R48 W Clay Co., MN

BXR-2N-45

8-54

Kragnes  
27 26  
34 35

Permanent  
Sample

27

11-164

26

64  
A  
P

72-A-P

64  
A  
P

64  
A  
R

64  
A  
P

72  
A  
P

72w-A-P



34

35

73w  
A  
P

73w  
A  
P

72w  
A  
P

73-A-P

73w  
A  
P

73  
A  
P

73  
A  
P

73  
A  
P

73w  
A  
P

73  
A  
P

4-6" Top soil



8-8-54 BXR-2N-47 T141N R48W Clay Co., MIN

Kragres  
27 28  
32 33

29

28

32

33



United States Department of Agriculture



Natural Resources Conservation Service  
1615 30<sup>th</sup> Avenue South  
Moorhead, MN 56560

Phone Number (218) 233-7773 ext. 3  
Fax Number (218) 287-1787

---

August 3, 2010

Melissa Edsill Tiedemann, AICP  
Stanley Consultants Inc.  
2658 Crosspark Road  
Suite 100  
Coralville, IA 52241

Dear Melissa,

Enclosed are the 1972 aerial photos from Clay County, MN that you requested.

If you have any questions, feel free to call me at (218) 233-7773 ext. 3 or e-mail me at [nancy.alexander@mn.usda.gov](mailto:nancy.alexander@mn.usda.gov).

Sincerely,

A handwritten signature in blue ink that reads "Nancy J. Alexander". The signature is written in a cursive style.

Nancy J. Alexander  
Soil Conservation Technician

Enclosure

*Helping People Help the Land*

An Equal Opportunity Provider and Employer



T. 137N R. 48W Clay Co., MN

Holy Cross

$\frac{4}{3}$   
 $\frac{1}{10}$

D

2700

2702

10 12

4

3

9

10

T137N R48W Clay Co., MN 10-6-72 27027 172 220 D

Holy Cross

6/5  
7/8

5

8



T132N R48W Clay Co., MN 1972

94

B

27027 172 141

KURTZ

2

1

11

12



93

B

172740

27027

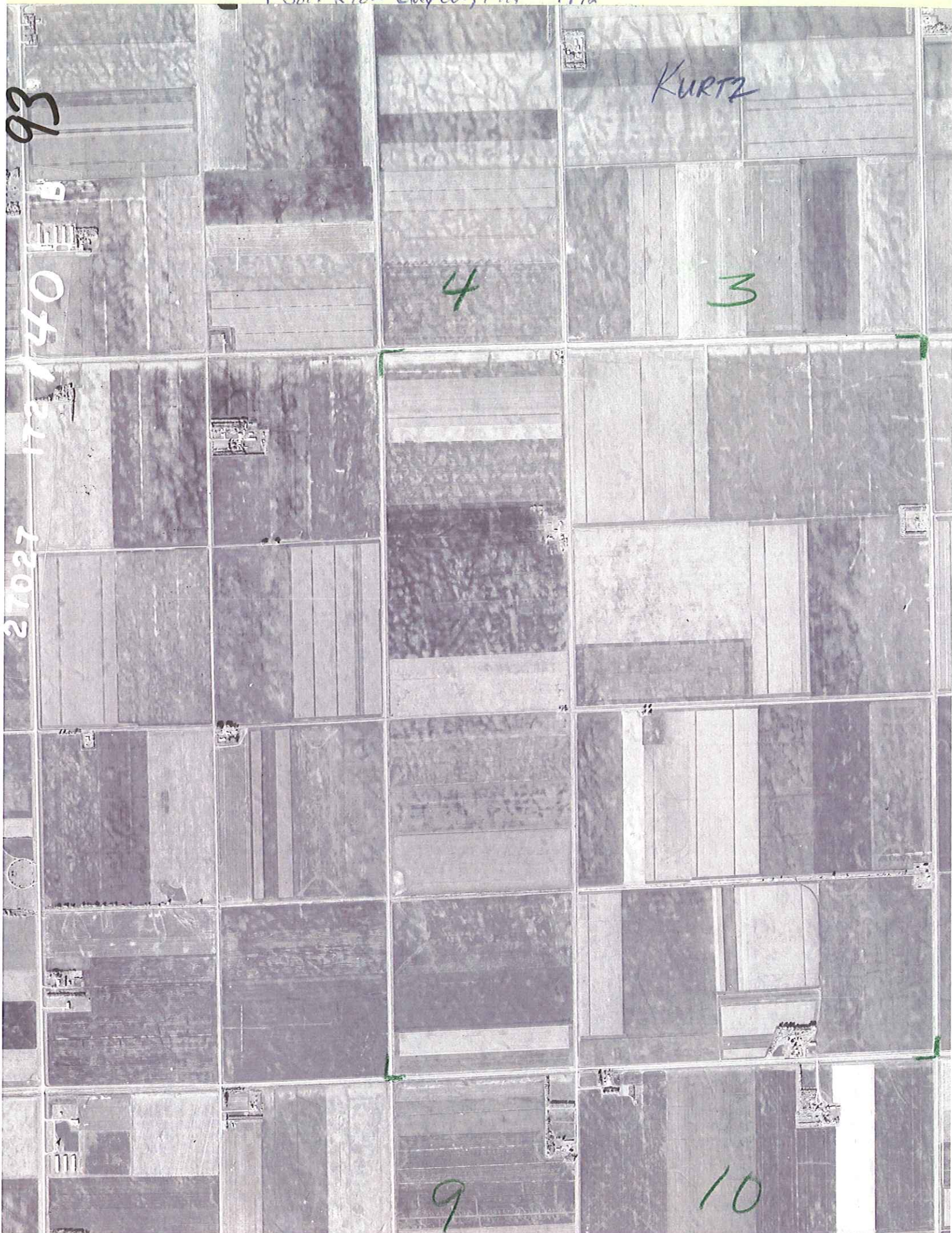
KURTZ

4

3

9

10



T138N R48W Clay Co., MN

Kurtz  
16/15  
21/22

1724041

27027

10-6-73

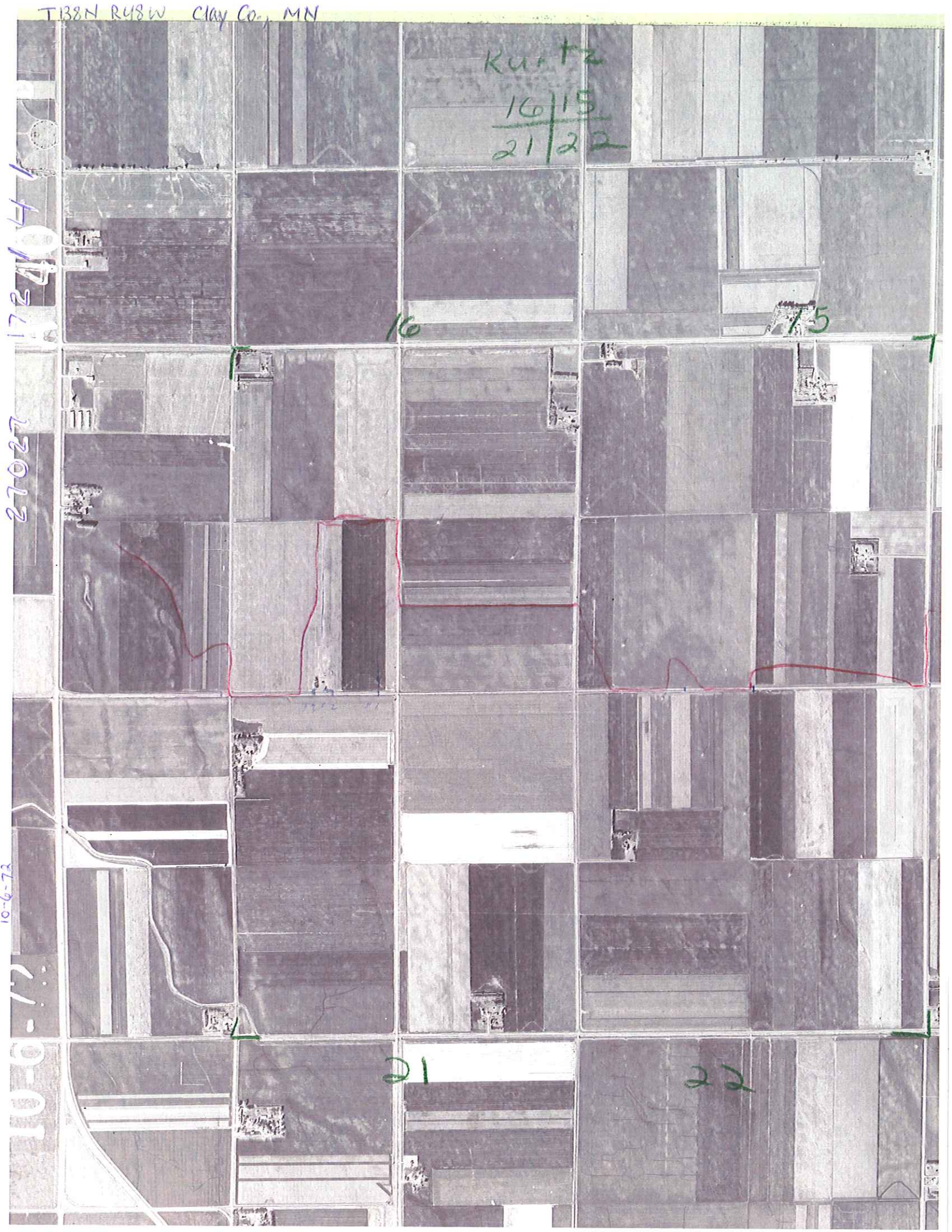
10-0-17

16

15

21

22



T138N R48W Clay Co., MN

Kurtz

8/17  
11/20

17440

27027

BIRTH  
KOTA

10-6-72

101





617-211  
172  
27027  
A 40

Kurtz  
28/22  
33/34

28

29

33

34

T138N R48W Kurtz Twp Clay Co., MN 1972 2702.7 172 221 B



29

2

908

47

47

47

908

US NO 75

50 FE

32

33

87087 173 57 D  
Ciley Co. MN T139N R48W

A 40

Moorhead

2 / 1  
11 / 12

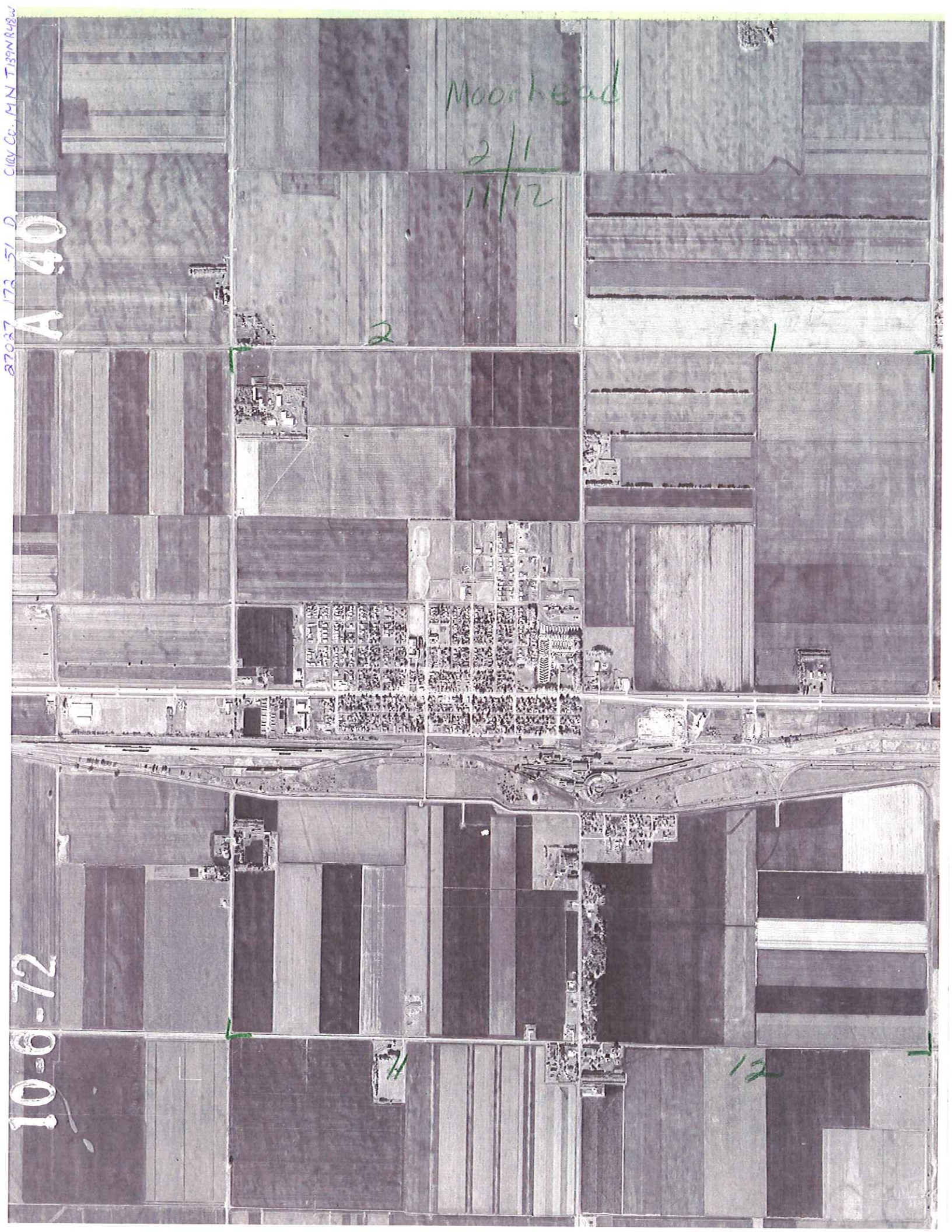
2

1

10-6-72

11

12



MOORHEAD

14 1/2  
23/24

172-133

14

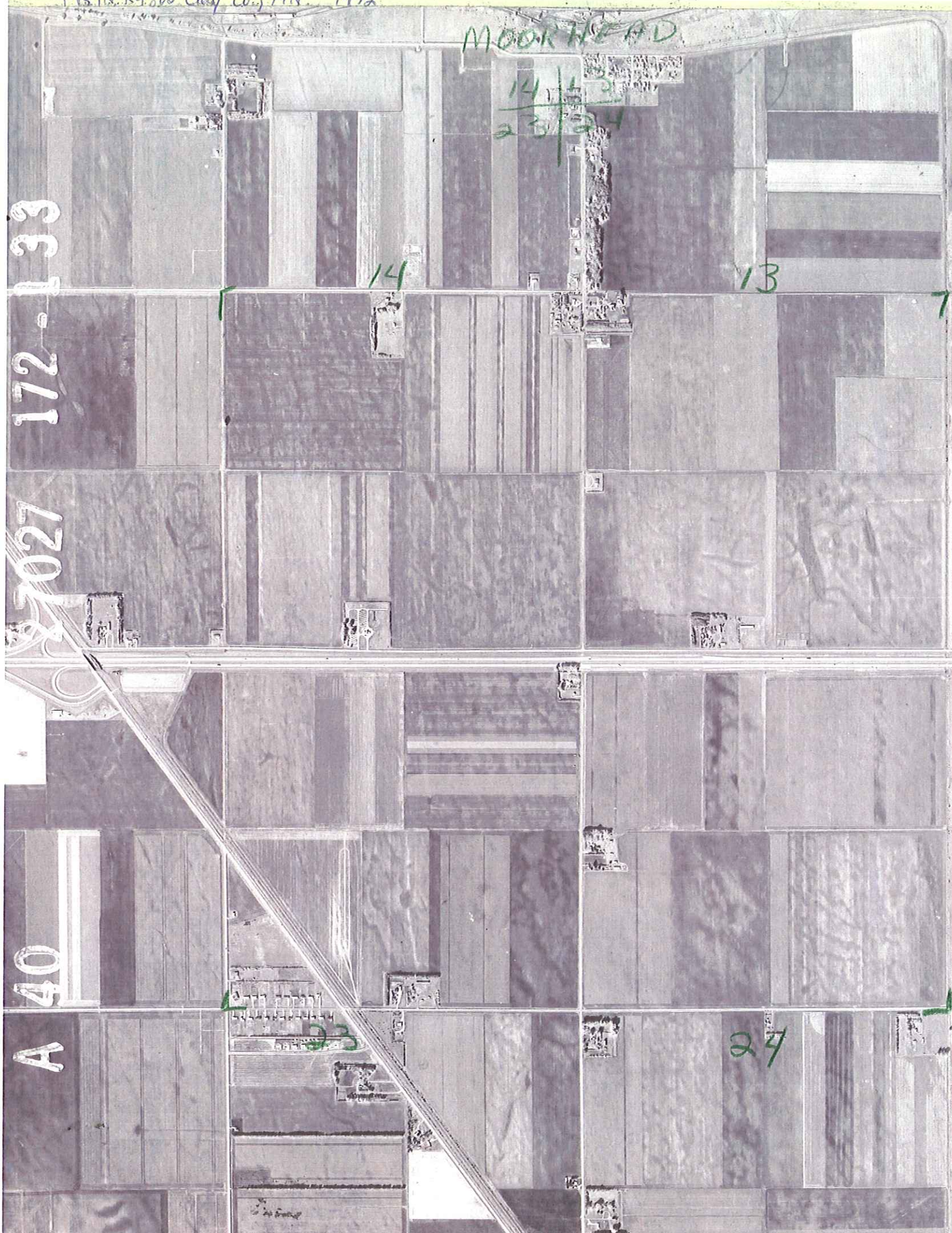
13

27027

A 40

23

24



1972 T139N R48W Clay Co., MN

MOORHEAD

1311 C

172

27027

26

25

35

36



OAK PORT

4 3  
9 110

4

3

27027  
172

40

A

9

10

OAKPORT

40

14

13

A

27027 172 40 0

10-6-72

23

24

Oak Port

10/15  
21/22

C

142

172

27021

16

15

21

22





1972 T140N R48W Clay Co., MN

oak port  
26/25  
35/36

A 40  
27021 172 51

26

25

35

36

Kragnes T141N R48W Clay Co., MN 1972

58-217-17012

18

17

19

20



T141N R48W Clay Co., MN

K RAGNES

28/27

33/34

27027  
272 A 840  
D  
272 A 212

27

33

34



T141N R48W Clay Co., MN

KRAGNES

30/29  
31/32

CORN DEER  
M. LERT  
DUGOUT

30

29

27027

27027

10-7-72

31

32

