

268

$6.2''$
 $+ 9''$

 $6.11''$ to bottom from top of tar.

129
 344

 4

163.5
 90.9

 $4/363.5$

93.

No 268

Gilbert Norman 2 To 12

Howard Moody 17 To 30

Dr Smisek - - - - - 31 To - -

Becker-Whipholt 31 To - -



Standard Engineer's Field Book

Description

	Size	Rulings
No. 1307	7 $\frac{1}{4}$ x 4 $\frac{5}{8}$	"Level"
No. 1308	"	"Field"

Specify by Number, the Book desired

Made in U. S. A.

This book contains a superior 50% rag content paper having a high degree moisture resisting surface. Waterproof ink is used and it is sewed with Bing Enamel Waterproof Thread. The binding material is also waterproof.

Made in U. S. A.

BOORUM & PEASE COMPANY
BROOKLYN, N. Y.

2772
EB
606
2

1
Note: This book belongs
to John W. Curo-Co Surveyor.
Walker Minn

If lost, Finder please return
for reward - and please hurry
as we may need the book now!

John W Curo
Walker for. Jenkins Minn
Sept 30-1944

2

Gilbert Norman

Index

Gilbert Norman owns

Lot 5 Sec 25-140-29 Bet

Mule Lake and Blackwater

Howard Moody - Dr Smisek P. 17 to 30

Lot 3 - Sec 2 - 141-28 Two surveys

March 1946 29

Becker - Whipholt - P. 30 to

Becker Home -

Moody, page 61

Refer to Curo Field
Book No 233-Geo Farrar

Pr 18/21/233

Curo Tics 1936 up
Popiz N 41° 40' E 74.80 ft
Birchion O° 45' E 61.20 ft
" 9 N 55° 10' W 81.33
Turned from Random
Line N

AK 233 Page 18
1936 Summary

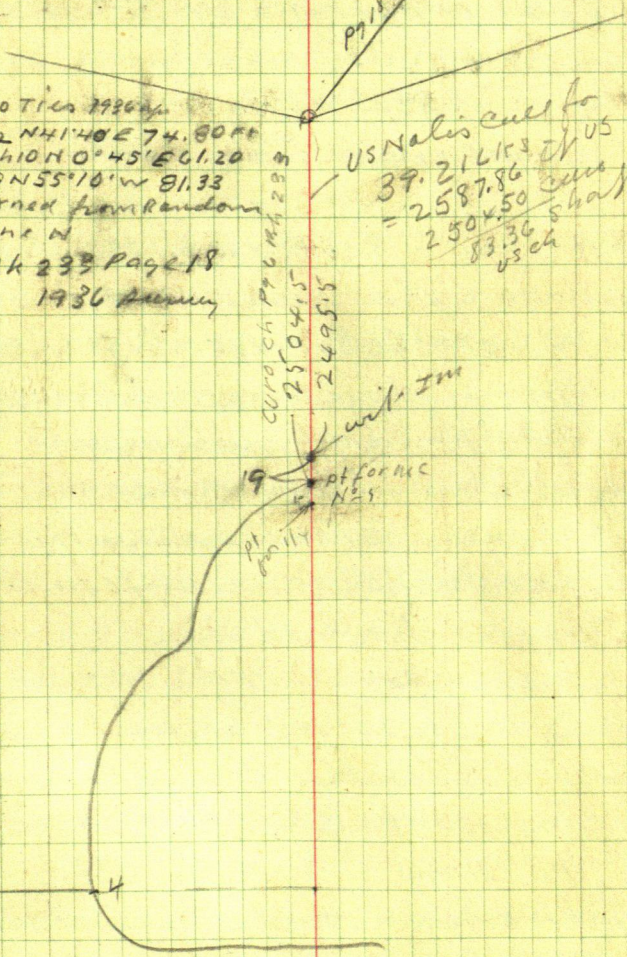
US Nalis cues for
39.216153 US
= 2587.86 cues
250 x .50 shaft
83.36 US ch

Curo ch Pr 6 N 41° 23' W
2504.5
2495.5

with Im

pt 19
pt 14
pt 15
pt 16
N-5

Mc 4 US water Curo for WP 20"
52° 5' W 25° 5' E
WP 18 N 3° W 40 = 26.40



4

Gilbert Norman

Sept 15-1944: Meet Gilbert Norman at Jenkins Minn. He has sold a part of his Resort in Gov Lot 5 Sec 25-140-29

To

who has paid \$300. down

I promise to come up soon

Sept 16-1944 - See Pg 123 Bk 252

L.T. Pollock of Jenkins Minn and John W. Cure-Co Surveyor Cass Co Minn

Le Jenkins Drive to Norman Resort arrive about 10 AM. Look over lines and wait for Gilbert who returns @ 11 AM

and shows me Iron Monuments set by the late John M. Green - former Co Surveyor Cass Co Minn

Gilbert says the Irons set bet Lats 5-6 Sec 25-140-29 were

recorded in Walker. Fixing the line by agreement OK That's fine!

Fish Dinner with Mr and Mrs

Gilbert Norman - And what a dinner! couldn't shake hands over that mountain of fish - But we "cleaned the pile"

Gilbert Norman

5

Sept 16-1944 continued

PM

We all go over more lines - I tell
Gilbert I will charge him \$25⁰⁰
for the survey - but first must go to
Walker to check Co Records and
Field Book 233 I used in the
Geo O Farrar Survey

Gilbert says OK.

Notes: At dinner we meet Erhard
Hassen - Norman's neighbor
Claims to be German

Pallock and I drive to NE Cor
Sec 25-140-29 and find a part of
the 2x48" iron pipe now in the
ditch - pulled up by road grader
Some of my bearing lines, set in
the Farrar Survey are also gone

We also meet Mrs
husband will be back soon but we do
not want. She wants Radio Tubes

Pallock and I drive back to Norway Lake
and work from 2 PM to 7 PM Book 252 Pg 123

Jahn W. Curtis

6

Isabel Norman

Copied

Sept 29-1944 while at Walker I copy

Line By Agreement

Co Reference Book B. Cass & Minn

Page 435 and 437

Evelyn Williams unmarried

To Wilhelmina and Esther Whitcomb

Joint tenants &c Lat 6 Sec 25-140-29

Before B.N. Johnston Notary Public. Hennepin

County Minn NS? 2 witnesses W O \$1.

June 30-1932 Filed July 14-1932

in Book 620 Page 129 acknowledged

June 30-1932

Boundary Agreement

Wilhelmina Whitcomb and

Esther Whitcomb Owners of Lat 6

Sec 25-140-29 and ISSAC E. Norman

Owner of Lat 5 Sec 26-140-29

Hereby agree to recognize as the

common boundary between Lats 5

and 6 the following line running
between Mud Lake and Blackwater
Lake, described as follows:

Starting at an Iron monument
on the shore of Blackwater Lake
called Meander Corner &c with

By Curo Sept 27-28-1944

7

the following Bearing Trees

Ash 4 inches S E 2.5 Feet

Balm of Gilead 7 inches, NW 4 feet

Thence running in an Easterly
and Southerly direction 1265.2
feet to an iron monument on the
shore of Mud Lake Called Meander
"Z" and marked with 2 Bearing
Trees: Norway Pine 8 inch, North
27.4 feet Oak 5" SW 33.8 feet

Before Carl H

Boundary Agreement

Date Filed Oct 3-33

Book U. Misc 82

Ack Sept 1-1933

Copied By Jack Curo at Walker
Sept 27-28-1944

Boundary Agreement Bet
Wilhelmina Whitcomb single
Esther Lots 5-6 Sec 25-140-29
Isaac Norman single
BOOK U. Miscellaneous Pg 82.

Copied By

Moulster's Notes say:

MCHS Gov notes call for:

NP 20 N 60 W 10 (= 6.60) ft

NP — N 80 E 16 LK = (10.56 ft)

"We find Stump of old NWUS BT

"This corner previously Established by
Curo" who marked the stump MC"

"I mark the old Stump BT"

"O. W. Moulster"

O. W. Moulster Dep. Co. Surveyor

Moulster's Book No 4 pg 15 to 43

Marked later No 49

Surveyed March 12-1911

To Mar 25-1911

Previously Surveyed by Curo

Copied by John W. Curo at
Walker Main Sept 27-28-1944

Curo Notes

Horst Notes

Ties to SECOR

Sec 24-140-29

POB 12 N 41.40 E 74.80

74.80

BIR 10 N 0° 45' E 66.20

BIR 9 N 55° 10' W 81.33

To spot
at Bme

Curo FBK 140-29

233

Page 18

24

Curo Notes

P924

Curo Field

Book 233

25

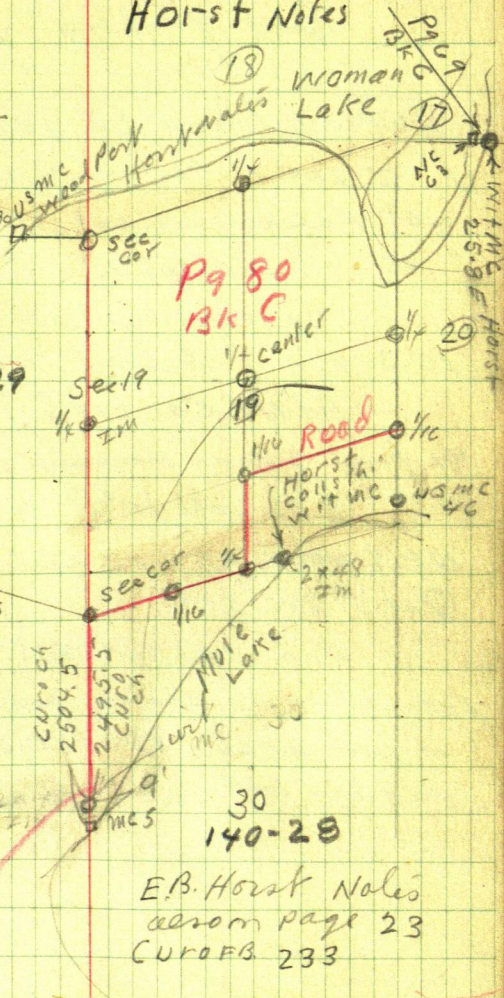
30

140-28

E.B. Horst Notes

across page 23

Curo FB 233



12

Gilbert Norman

Oct 8-1944 Sunday

9-30 AM. L.T. Palloch and

John W Cuss Lr Jenkins

I eat at Community restaurant P Riv

40° Palloch no eat (Gas + oil at Jenkins,

1.05 - Tire + patch 35-15 = \$2.05)

Call Norman 25° On Mul Lab

10.30 AM Gilbert Norman goes with us

At NE Cor Lot 5 See 25-140-29

We find 2 more monuments

B.T.S. Call for 2" Pg 7 This book

N.P. 8" North 27.4 at Bell OK

Oak 5" SW 33.8 "

We find the two B.T.S. spots grown over
from which are chains from spot at base
of each tree OK Perfect chain li
± 12x2" angle bar on left sea wall

Howard Woody

First Survey

141-29 - Sec 2

NE SW 1/4 & Lot 2 - Sec 2 - 141-29

Pt of Lot 3-

" " "

March 18-1946

PM. Mr. Woody call at C.H. Walker
Wants survey of part of his land

I promise to pick him up at
Shungobe Island Hotel at 10 AM
tomorrow

I copy Co Records of US 2nd
Survey 2 Hours on notes

141

Howard Moody

March 19-1946

Bright sun - Cool Fog, last mile

8-30 AM. Harold and I at the

copy room

Harold + I L. Walker with our

lunch in my 41 Ford

10 AM @ Shingabe Island
Hotel. Find Moody waiting the
pulls out in his truck

I talk a few minutes with
Mrs. Belford Her Shingabe
Island Land

It is in the name of.

Katherine R Belford and her
daughter Katherine B. Belford

We find Moody at his
place in Lot 3 - Sec 2 - 141-31
and he takes us to US 211
in center of Sec 2. and 211
at SE cor Lot 3.

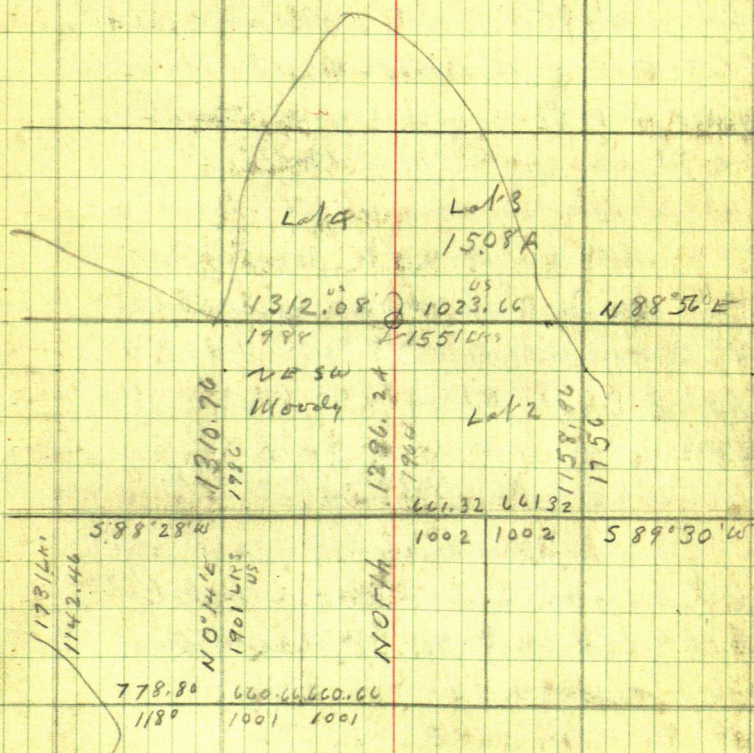
We try to walk to on line

Old Bluff

300' tape

Howard Moody ③ First Survey 19
 Dec 2-141-29
 2nd US Survey

closed March 18-1940



20

4 Moody

From IM in center of sec

2-141-28 = SW Cor Gov L of 3rd stEast on line line

@ 300 - 19.9 = 280.1 Hub

90° spike under T Ties

6" Ironwood NW 16.3. 8" Bass

SW 4.1 crooks in wood spot 5' up

300 fm - 600 - 88 = 15 512

Cut notch in so side leaving

12" basswood fork 600 fm.

+ 44.26 = 644.26 spike Ties

8" Ironwood N 7° W 44.50

10" Elm S 61° 37' W 63.7

From 644.26 E run 90° L

North 33 ft 6 20 d spike in spot
at base

At 600 spike Hub rock + 44.26

= 644.26 set 90° spike on line

line ties

T over 644.26 E on line line

Run North @ 90°. 33 ft set 2x20"

rip No line

March 19. 1946 5 Moody

21

T over 33. N Run

N $44^{\circ}56'E$ @ 156.6 set 2x20"
pipe. (8 ft NW from pipe set by
Bill Spain)

Continue N $44^{\circ}56'E$

@ 160. top of cut bank 7' up run
NW SE @ 200. edge of ice
NW + SE

Note: Shore washed off 40 ft +-

T still @ 33. Run

East 33 ft N of line line

@ 150 ft set 2x12" pipe marked

"True Corner" set by Cuss Engineers

T over MC = SE Cor Gov Lot 3.

Then from 90° spike 644.26 E ch

East 1 on line line Down Right

644.26 + 139.55 = 783.8 set

$\frac{3}{4}$ x 20" iron square top marked

"True Corner" set by Cuss

@ 788.8 ch

East 2 461.7 15 Bears Cap US

iron at true SE Cor Lot 3.

= total =

644.26 =
 139.55
 241.70
 1025.51

Note: Our chain equals
 exact with Moody Deeds
 and is correct to a cat hair
 But

Bears Capped Iron pipe set at
 each end of line by US
 Government Surveyors 1920?
 Survey shows 1023.66 ft
 while our chain shows that it is
 1.85 ft longer than what US
 surveyors call it.

Our chain carefully plumbed with
 300 ft steel tape shows 1025.51
 Total.

All OK as to Moody deeds

Quit at G. Home at 7. Rooder
 bed I charge Moody \$27.50 PA April 6 1946
 and 2.50 more if he wants map and
 certificate

Witnessed by Harold
 John W. Curo

\$27.50 Moody ch
 drawn to Harold Curo

73

135

Good Lot 3

Box 2-141-29
1938
X

1023.6608

[illegible]

2447 Chained

$$\begin{array}{r} 1025.51 \\ - 1023.66 \\ \hline 1.85 \end{array}$$

~~2943~~

644.2c

Sal Co. N. 70° 10' E.

1st pt of Aug

24

(8)

Moody

17° 35'

Sine 302093

Cos (953279) 33 (= 34.617

Tan 316899

26° 30'

Sine 446198) 20 (= 4482

Cos 894934) 20 = (2235

Tan 498582

N 26° 30' E 100

644.26
100.00
39.55

744.26
39.55
783.81
241.70
1025.51

April 6-1946

Moody 2nd Survey

134.40
39.55
173.95

Lot 3 - Sec 2 -
141-29

Tang 42.4475 x 88.83 = 37.71

N 23° E 96.5

Sine 3907 x 96.5 = 37.71

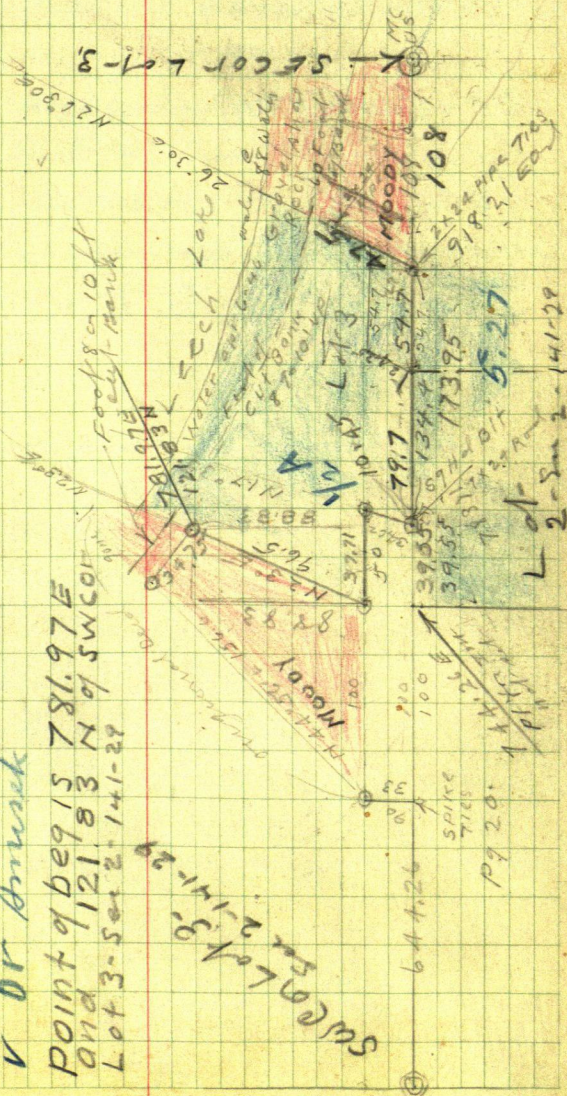
CR 920505 x 96.5 = 88.83

✓ Moody

✓ Dr Amick

Point of beg 15 781.97 E
and 121.83 N of SWCOR
Lot 3 - Sec 2 - 141-29

Survey of 2nd Survey



(26)

(2)

Howard Moody

2nd Survey

For

Dr Elmer A. Amisek 1164

Summit Ave St Paul

Elsie A. Amisek his wife

Joint Tenant deed

Ramsey County, Minn

April 6-1946 Sat

9-30 AM. Mr. Moody called
at Ct Ho. Gave us his check
\$27.50 drawn to Harold Curo
in full for his 1st Survey
Page 17 15-24 This Book 268

He wants a 2nd Survey
for part of the 1st 15 he sold to
Dr. Arrishe

Harold + I eat at Bob's and
fellow Moody to his resort in

Lots 2-3- See 2-141-29

Buff x over 90° spike 644.26 East 1/2
from SW Cor Lot 3-. Carefully chained
by Harold and Jack Curo in 1st
Survey March 19-1946 Pg 18

See This Pg 20

Focus East on brass cap USMC.
at SE Cor of Gov Lot 3. from
which we chain down sharp hill

108. Set 2x24" pipe on line line
Tree 10' Birch S 83° 37' E 36.75

20' Elm S 6° 20' W 47.50

To flat spot at base =

28 ④ Dr Smisek-Moody.

⌒ over 108 Run

N $26^{\circ}30'E$ @ 47.5 Set $2 \times 24"$ pipe
on So bank of Leech Lake

@ 60 foot of Cut bank L.T. 8' 14"

@ 88 Water edge P₉ 25

From 108 ch West along line line
bet Lots 2-3- Acc 2- 141-29

@ 134.4 Find a \square of 16 iron Set in
1st corner

West 134.4. Then N $17^{\circ}35'E$ 34.62
to our Im under ⌒ then

West 50 set $2 \times 24"$ pipe Run

N $23^{\circ}E$ 96.5 Set $2 \times 24"$ pipe on top
of 6 or 8 ft hi bank

@ 110 ft of cut bank @ 125 enter water

My old $2 \times$ pipe Set in
our first survey bear NW 34.75

Dr Smisek is to get also

The East 173.75 feet of the West

918. 21 feet of Good Lot 2

30

6

Howard Moody

Continued To Page 57
this Book

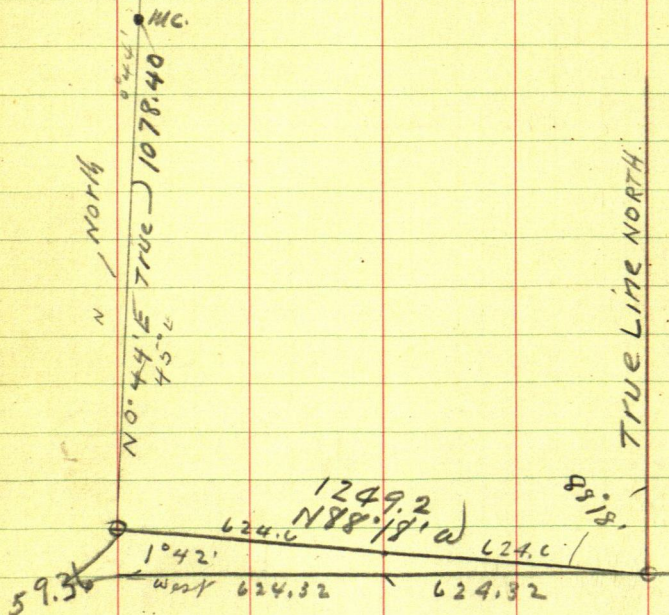
Becrer-Whipholt

July 18-1946

Index

34

July 21-1946 Harold and John
W. Curo in my car LV Walker 10 AM
Callon



John W Curo

10.41.

①

$$\begin{array}{r} 10^{\circ} 44' 4'' \\ 0^{\circ} 45' 2'' \end{array}$$

①

59.36

N 88° 18' W 1249.6

NORTH

11.88

①

①

36 Whipholt

July 21-1946 Sunday

Harold + I call on Mr & Mrs

Becker then drive on to Whipholt

10 am.

Lot 1- Sec 8-141-29

D

at SE corner Lot Dig up
Brass Cap 7m-

1072'

Sin. $029.666 \times 1249.2 = 37058 (3706)$

Co. $999560 \times 1249.2 = 1248.65$

Tang. 029679×1248.65

37.06

Lot 1-8-141-29

1249.2 chained

S 88° 18' E L 7100

88° 18'

This should have read 88° 01' NOT 88° 10'

178.00
200.00
220.00
240.00
260.00
280.00
300.00
320.00
340.00
360.00

Whipholt Becker

37

17960

88 40

91°20'

91°20'

88 40

179°60'

Leach Lake

USMC

89°02'

90 58'

179°60'

1078.40

N 0°44' E

N 0°22' E

48

53.6

720.3

4720 N

89°02'

90°58'

88°40'

90°22'

91°20'

37.06

624.6

1°42'

188°18' W

624.6

82°18'

37.06

18.53

6

July 21-1946 Sunday

At SE Cor Lot 1- Sec 8-141-29

We found the U.S. Mon bent with
road grader

Before straightening the iron
I go get Witnesser

Pull up 1 m. leave hole in the ground
1 1/4 inches in diameter straight down
pull it up in presence of above witnesses
Carefully preserve the hole in the
hard clay

Howard tries to straighten it but
it breaks about 1/2 ft from the tip
We straighten the rod drop it back
in the hole tip down

Hoe T 300 lps.

T on NE Lot 1 Sec 8-141-29

Sight North on true line

Run

N $88^{\circ}18'W$ @ 1249.2 to SW Co Lot 1

@ 624.0 set spike for E Lot 1

At NW Co Lot 1 Sec 8-141-29

US Im - MNC is bent & crooked

We straighten it up and set flag at
a point in the ground at base of
the 1. inch rod where it

straightens out in the ground
straight down

Work T on line bet NW and SW
Co Lot 1. and chain

South ($50^{\circ}44'W$) on true line

@ 141.6 Hub 60d spike under T on
N shoulder of old Co Road 34

Then to 141.6 S.

10" Maple N $56^{\circ}27'W$ 58.20 FT to spot at base

12" Basswood tree N $31^{\circ}08'E$ 45.33. " base

SW Co Stone Wall under How Bldg

N $9^{\circ}46'E$ 72.05 Turned from the
true line called N & S

40

South (^{0 45 W} ~~S 0 44 W~~) on line South
line of Lot 1-8-141-29 Continued

TX 141.6 Continue to $141.6 + 15.05 =$

156.65 Hub 60' spike in E of old
Co Road #34 (about center)

$141.6 + 54.40 = 196$ Hub 60' spike
in line with NE end Log Ho

19.7 ft west from NW Cor

$196.00 + 4.0 = 200$ pin in road

$200 + 300 = 500$ pin + 117 about

617 about E well #34 in big curve

$500 + 300 = 800$ pin + 278.4 -

1078.4 Iron Mon at SW Cor

Lat 1 Acc 8-141-29

Note My old notes Pg 30 Bk A3

of June 11-1936 calls this

line 1077.7 being .70 of a foot of

1077.78 US.

1078.40 my chain today

Note Also So line of Lot 1

1248.72 ft US.

1249.90 my chain July 11-193

Old Book 3. A.

Today My Ch 1249.2 at 0.70 diff

250
536
286

536
250
286

41

M.C. on NE cor L A 1- Sec 8-141-29
South on line Sec line

$$48.00 \text{ pin } 1 \times 30' + 5.6 = 53.6$$

big 90° wire spike

$$53.6 \text{ Continue to } 250 - 303.6$$

Q N #34

$$353.6 + 300 = 653.6 + 120.3 = 773.9$$

Talad 10 Note! Old Cham

Bk A3 P9 30 calls this

$$773.58$$

$$773.90$$

$$773.58$$

$$.32$$

$$624.60$$

$$471$$

$$679.89$$

$$619.90$$

$$619.90$$

$$471$$

$$188.180$$

$$0^\circ 22' \frac{1}{2} \text{ Tang} =$$

$$720.3$$

Tang

$$720.3$$

$$624.6$$

$$0^\circ 22' \text{ Tang } 006.400$$

$$23'$$

$$006.691$$

$$203.091$$

$$6.545 \times 72$$

$$72$$

$$13090$$

$$45.815$$

$$471242$$

42

N LIN 624.4 -
638.5

S L 631.1 +
629.0

638.5
6.7
 631.8

12.27

1236.38) 253.56 (20508258

1248.05
12.27
 1236.38

Measurement
 will NOT work

624.4

1262.9

631.1

631.8

638.5

1260.1

629

8960.
1135
 7725

631.1

6290

2(12601

630.05

629.05

1.05

936.80

3706

973.86

624.4

638.5

1262.9

631.8

624.4

07.05

973.86

720.30

2(169416

847.08

2/1236.38W

618.19W

973.86 N

720.30 N

253.56

1236.38

11°35'

1262.08

631.04

253.56

③

1410 0.110

1236.38 W
973.86 N

1236.38

477.26 W
78°25' N10947.08 N
618.19 W

631.8

973.86 N
0.0 W253.56
0.0 W

0°45'

736.8 + 37.06 = 973.86

1078.4

1248.65 W
37.06 N

828.55 + 18.53 = 847.08

624.32 W

720.3

②

37.06

624.6

1248.65 W
624.6 N

624.72

1248.65

0

44

July 23-1946

Figuring BA Johnson Project Engr
State Highway Called at CHH fa

Turn to SECOR SEC 34 Longacre Bk 454

Sta D = SECOR Lot 1 - Sec 8 - 141-29

Run W $N 88^{\circ} 18' W$ 624.6 To Sta 1.

1° 42'

Sine $0.29660 \times 624.6 = 18.53 N$

Cor $999.500 \times 624.6 = 624.32 W$

Tang $0.29679 \times 624.32 = 18.53 N$

Continue $N 88^{\circ} 18' W$ @ 1249.2 = SWCOR Lot 6
= Sta 2.

Sta 2 = 1248.65 W 37.06 N

Run

$N 0^{\circ} 45' E$ $936.8 + 37.06 = 974.4$

Sine $0.13096 \times 936.8 = 12.27 E$

Cor $999914 \times 936.8 = 936.72$

Tang 013091

11° 35' Sine 200793

Cor $979634 \times 123638 = 1262083$

Tan 204967

45

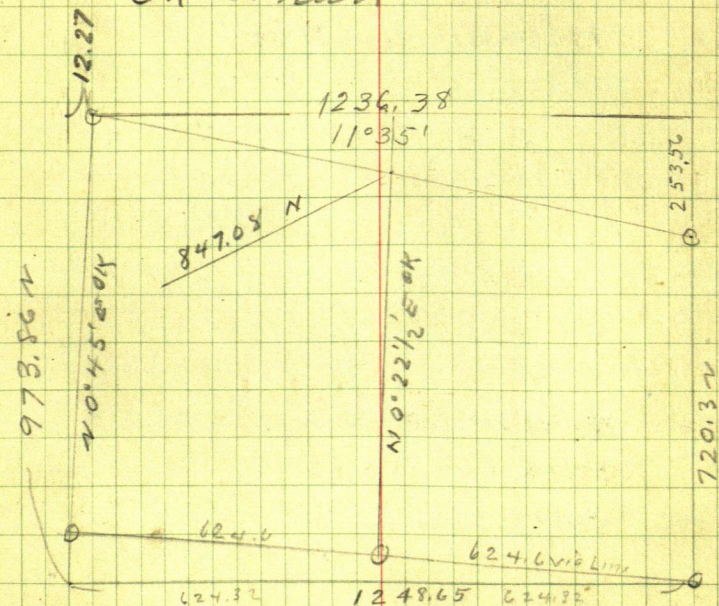
1280

123585

diagonally across lot 1 will NOT work. So: We use our line as run $N 0^{\circ} 45'$ on west line

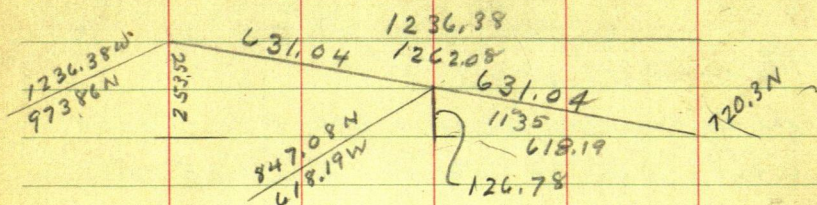
We use our Transits Lines

OK as run



46 July 23-1946

Try This



$$618.19) 126.78 = 2050825 = 11'35''$$

$$\text{Sine } 200793$$

$$\text{Cos } 979634) 618.19 (= 631.04$$

$$\text{Tang } 204967$$

$$979634) 1236.38 (= 1262.08$$

$$\begin{array}{r} 631.04 \\ 631.04 \end{array}$$

N.G. It will NOT work

It WOULD work IF the Lines were
parallel

NIX For this survey.

$$11'35'' \text{ Cn} = 979634) 1236.38 (= 1262.08$$

Becher Whipholt

47

July 24-1946

Harold + I RL-chain

cell chn 12426
6313

1262.9 - 0.30 for hill - 1262.6

631.3
630
scaled

631.3
632. scaled

996.8 ch
N 0° 45' E

N 0° 22' 12" E

720.3
chain

chr 624.6

1249.2 chr

624.6 chr

48

July 24-1940
7-30 am at Ct Ho

$78'24'' = 11'36''$

Sin 201078

C 979575)100 (102.09

T 205271

$78'47''$

Sin 204211

C 978927)100 (102.15

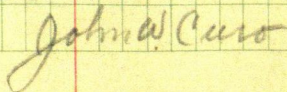
T 208607

$978927 \times 306.25 = 299.80$

49

A2 P9 17

June 25/1936



50

July 24-46

Up @ 6-30 - Herald & I
look up Hi'w. map at ct Ho 9. an
10 am an Meet Mr & Mrs
O. Becker who state that their
big buyers are here now

FA From SW Cor Lot 1- Ch
N 0° 45' E on line line
c 400 and 425 set red
b top 604 spike in N-S-Road

112.6 To Ho

264 70
136

128.70

90191

L152.00

Cor 986809) 1500.000

986809

5131.9100

4934.045

1978.650

1973.618

5032.00

986809

152

1973.618

4934.045

986809

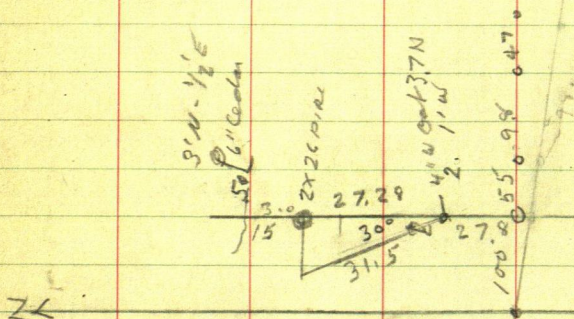
149.994968

52

30°

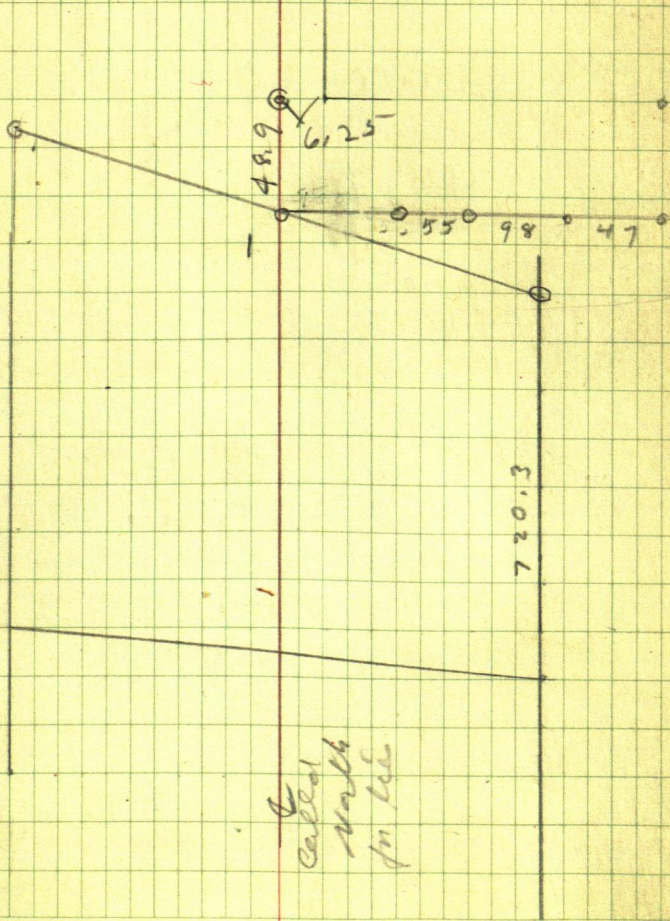
$$\text{cor} = 866025 \times 31.5$$

$$\begin{array}{r} 315 \\ 4330 \\ 866 \\ 25989 \\ \hline 2727 \end{array}$$



155
95 53
3

Town site - Twp
 NW Cor Bies Place S $15^{\circ}42'E$ 34.45
 5" spruce S $54^{\circ}05'E$ 36.25
 Charles 3 Spruce Tak Center spruce
 8" S $71^{\circ}25'W$ 34.15
 NE Cor Hb 46° 2.2" W 60.15



Called
North
for
the

Turn N-S-E at IP of EW line

Run 90° R 100 ft T. St 1

Sta 1 Run North 27.8 to Sta 2

Turn 1: Sta 2

4" w oak bear North 3.7 and well 1 ft

Sta 2 run N downhill @ 30° 31.5

Dist 27.28 set St 3 = 2x36" pipe 15 ft

So of well Turn to Sta 3

1" 6" Cedar bears 3 ft N + 1/2' E

Sta 1-run E 55 ft 1: Sta 4 = 2x30" pipe

Sta 4 = 27 ft N of E Road #34 also re

Sta 4 Run North 20 ft to Sta 5, on bank

set 2x15" pipe = Sta 5

Sta Run N Downhill 31° 28.5

= 24.43 N set Sta 6 = 2x36" pipe

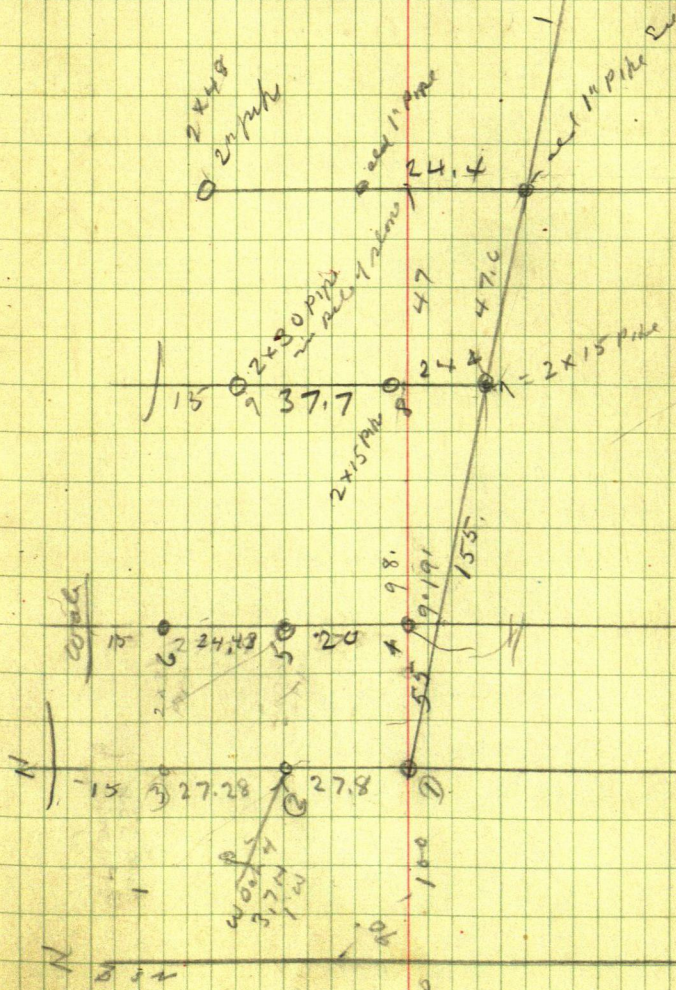
Sta 1, Turn R 9° 19' = 155 T. Sta 7 = 2x15 pipe

98 ft from Sta 4

Sta 7 Run North

Mrs Becker

53-



52

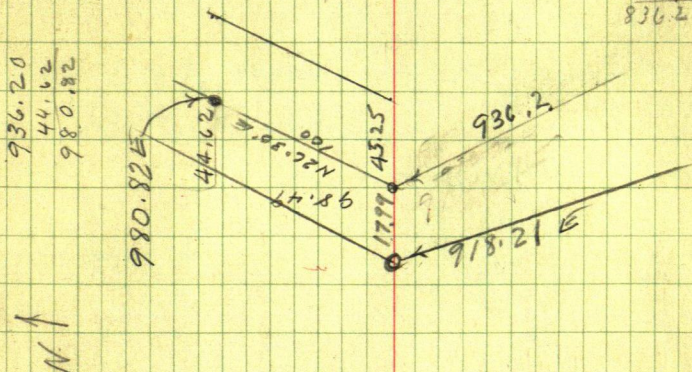
Whiphall

Howard Moody

57

Continued From Page 30,
October 15, 1947

918.21
17.99
836.20



Run 918.21 E - Run S 68° 45' E
to point bet 2 Buildings which are 78
ft apart 39 ft from each north end
Run bet 2 Bldgs

BS N 68° 45' W Run
North to a point So Line Lot 3
ft west of MC

35.3 W to opt on N line Lot 2
to opt 17.00 West of MC

Then South 35.3 + 55 -
55

90.3 ft in road
83.9

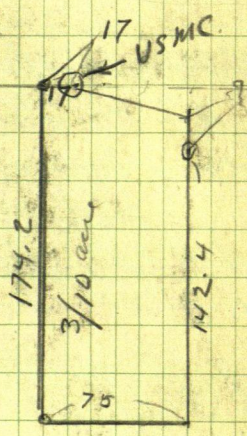
To 124.2 ft for IN

Dec 2-141-29

L-13

L-12

936.2
40.8
 977.0



60

Dec 6 - 1947

Gert + I to Moody's

Have hard time to find IM
under snow

Tower IM 54.7 W of 918?
 E BS on foot IM. E and
 Take corner of houses

Main House

NE cor. cement foundation

N $8^{\circ}49'W$ 37.5

SE cor wing

N $33^{\circ}17'W$ 21.2

SE cor wing or garage

N $60^{\circ}20'W$ 27.3
$$\begin{array}{r} 20.1 \\ 8 \\ \hline 31.5 - 4 \end{array}$$

SW cor

N $67^{\circ}26'W$ 36.3

Cottage

SW cor

S $22^{\circ}42'E$ 36.35
$$\begin{array}{r} 16.5 \\ \hline 24.5 \end{array}$$

NW cor

S $65^{\circ}30'E$ 26.7

Boat House

SW cor

NW cor N $40^{\circ}24'E$ 95-ft

Moody Lots 2-3-5 Sec 2
141-29

61

NE Cor N 52° 51' E 100 83.8

Boat house 21.7

24 X 14.2

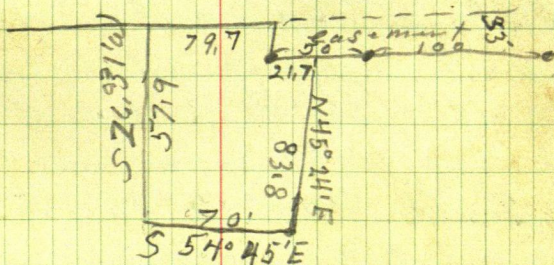
we can not get sand at
Boat house as trees on line

April 25 1960

Bob Ed. & I to Moody's old place 2

Then I M. NE Cor of 33 ft easement
roadway run W along said N line of easement
21.7 ft to I M

Then 21.7 into E on N line of Easement
roadway run N N



62 Forest View Lodge
all of Lots 3 & 4 Sec 2 - 141-29
except

Book 54 Page 400

John W Noble et al

to

Nelle Murray

Filed Aug 16 - 1924

All that part of Gov't lot 3 Sec 2
141-29 described as follows

Commencing at a point on the
South line of said lot 3 - 7838
ft East of the SW corner thence
thence N $17^{\circ}35'E$ 162 ft to the
Shore of Leech Lake thence South
easterly along said shore line
211.5 to a point which is 241.7
ft east of the the point of beginning
and due North therefrom thence
due South 80 ft \pm to said line
of said Lot 3 thence west along said
S line 241.7 to pt of begi

Forest View Lodge
all of lot 3-4 - Sec 2-141-29
except -

Book 50 page 189
Forest View Lodge. Inc.
to
Nellie Murray Filed Sept 9 - 1924

that part of Gov't Lot 3 Sec. 2-141-29
described as follows to-wit

Commencing at a point which is
644.26 ft east and 33 ft North
of the S W cor. of said Gov't lot 3
running thence East parallel with
the South line of said Gov't Lot 3
a distance of 150 ft thence N 17° 35'
E for 127.5 feet to the shore of Luch
Lake thence N 66° W along said shore
of Luch Lake a distance of 51 feet
thence S 44° 56' W a distance of
201 feet ± to the point of beg.

64 Forest View Lodge Inc.

Book Miscellaneous U page 616
Filed Apr. 9th 1938

this Indenture made this 9th day
of Nov 1925 bet. John W Noble
& Ida M Noble his wife R Vander
W Noble & Marie E Noble his wife
Ernest R Delp & Macy D. Delp
his wife of Henrups Co. Minn
parties of 1st part and
Nelle Murray of Tulsa Co.
Oklahoma party of 2nd part
that parties of 1st part for
and in consideration of \$1- & other
to them in hand paid by the party
of the 2nd part do hereby grant out
unto said party of 2nd part forever
an easement in and over those
tracts or parcels of land lying
& being in Co. of Cass - Minn
described as follow to-wit
an easement over Gov't Lot 3
& 4 - Sec 2-141-29 as follows
Commencing at a point on the
S. line of lot 3 783.8 feet E of the

S.W. corner thereof: thence running
N.W. ly through said Lot 3 & 4
to connect up with the present
Co. road near the S.W. corner of
said Lot 4

Said easement being granted
for the purpose

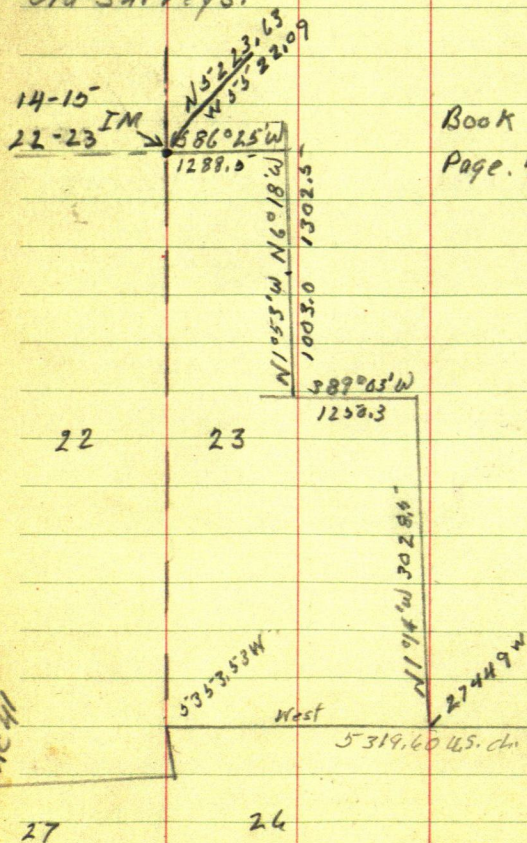
66

① 140-29

Nov. 6, 1952

Ernest Jahnke owns $N\frac{1}{2}$ of $NW\frac{1}{4}$ also
Gov't Lot 3 all in Section 26-140-29 = NW Cor
Blackwater Lake

As I told Jahnke I would be out to
his place Friday morning Nov 7, 1952
which is tomorrow morning I work all
day in the office checking old notes +
old surveys.



27

26

NC-6

68

140-29

(3)

US Notes

Cor. 23-24-25-26-140-29

1

N.P.	14 N 42° W 20	= 13.20 ft
NP	12 S 73° W 34	22.44
NP	8 S 36° E 32	21.12
WP	8 N 83° E 37	24.42

USMC No 6 = N. side blackwater Lake bet

Section 25-26-140-29

NP 12 N 20° W 28 = 18.48 ft

WP 14 N 60° E 37 = 24.42 "

1/4 bet 23-26 = L to V @ 2

Bosswood 5° N 45° E 25° =

B. Oak 5° S 12° E 25° =

Corner to Sec. 22-23-26-27-140-29

W.P. 20 S 20° E 39 = 25.74

" " 18 S 76° W 47 = 31.02

" " 17 N 65° W 19 = 12.04

Ironwood 4 N 20° E 32 = 21.12

M.C. No 41 E. side Widow Lake between Sec. 22-27

W. Birch 7 N 10° E 17 =

N.P. 5 S 2° E 19 =

1/4 bet sec. 26-27 = P to E @ 2

W. Birch 9 N 88° E 44 =

R. Maple 10 S 55° W 28 =

New Ties

(4)

True corner

69

Sec 23-24-25-26 140-29

N.P. 14 N 34° 22' E 83.45 N.P. 12 N 57° 40' W 91.03

N.P. 11 S 48° 40' W 84.40 N.P. 10 S 2° 35' W 47.15

N.P. 8 S 54° 11' W 79.20

old

pin stamp

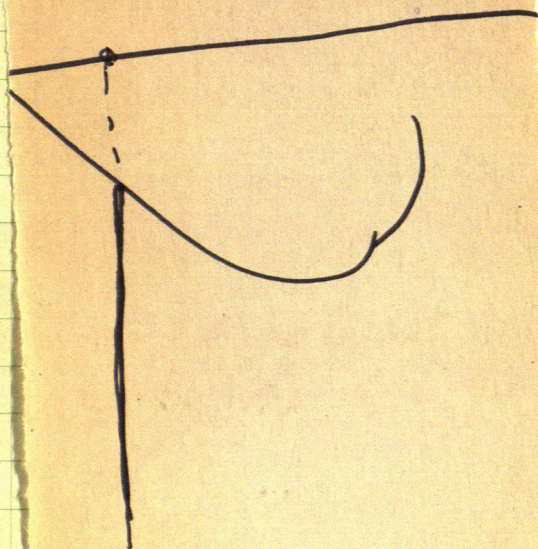
S 39

Peace

in h

X 10" long

° 02' W 34.70



New Ties

(4)

True corner

69

Sec 23-24-25-26 140-29

N.P. 14 N $34^{\circ}22'$ E 83.45 N.P. 12 N $57^{\circ}40'$ W 91.03

N.P. 11 S $48^{\circ}40'$ W 84.40 N.P. 10 S $2^{\circ}35'$ W 47.15

N.P. 8 S $54^{\circ}01'$ E 92.85 ^{3'}/₄

Old head $\frac{1}{2} \times 7$ " bolt in heart of old 14" pine stump
S $39^{\circ}14'$ W 44.15

Peace of spring steel $\frac{1}{4}$ " thick $1\frac{1}{2}$ " wide $\times 10$ " long
in heart of old 15" pine stump N $13^{\circ}02'$ W 34.70

70 US Notes (5) 140-29

26-27-34-35 - 140-29

Tam 9 S 70 W 46 = 26.40

Fir 6 S 52 E 40 = 26.40

" 9 N 75° E 46 = 30.36

W Birch 7 N 42° W 51 = 33.66

1/4 bet Sec. 34-35 - 140-29 = P to E @ 1

WP 24 N 70 W 60 =

B. Ash. 9 N 35° E 95 =

SW Cor Sec. 35 = SE 35 = P.

NP 22 N 75 E 107 =

" " 24 N 12 W 207 =

" " 20 S 26 E 181 =

1/4 bet 27-34 = M to U @ 3

Maple 12 S 10 W. 10 = 6.60

M.C. No 12 N side Blackwater LK bet 34-35

Tam. 4 N 38° W 14 = 9.24 Tam 4 N 14 E 38 = 25.08

M.C. No 11 S side Blackwater Lake bet 34-35

Tam. 45 S 35 E 10 = Tam 7 N 85 W 24 =

M.C. No 13 S side

M.C. No 13. W side Blackwater bet 26-35

WP 15 N 22 E 8 = 5.28

W Birch 7 S 85 W 44. = 29.04

Fig

From pt.

$$\begin{array}{r} 244 \\ 9 \\ \hline 264 \\ 264 \\ \hline 2904 \end{array}$$

$$\begin{array}{r} 466 \\ 8 \\ \hline 528 \end{array}$$

71

72 Nov. 7 - 1952

(1)

Lo Walker drives Blackwater
dinner P.M.

go to hub 53 53.53 W of NE Cor
Sec. 26 cut by J W Curo in 1936
see book 233. pg.

We find the 60 ft. high rough
chain E looking for old points
all gone now road along line

350.4 + 19615

535753

$$\begin{array}{r} 129.1 \\ 535753 \\ \hline 548263 \end{array}$$

Nov. 2 1952

Lx Walker drive to Blackwater Lake
 Tower hub - 60' spike @ 5353.53 W
 of NE cor Sec 26 extend this line
 west 129.1 to line running S, run
 by Bill Spain = 5482.63 W
 our line West hub, 35' S of Bill's hub
 Tower hub 5482.63 W Site E @ 90°
 and run S 0°36' E to one of Spain's
 old hubs. wood. @ cross road
 @ 418.75' S - Old wood hub, +100 = 518.75'
 stake + 80 = 598 enter wit bag - 758 LV
 bag. @ 818.75' stake + 353 = 1171.75' hub
 60' spike + 70 = 1240 enter amp @ 1471 LV
 @ 1638.15' hub 60' spike + 365.85 =
 2004.00 hub, 60' spike @ 2035 enter
 bag. + 399. hub in bag + 200 Lubag
 @ 349.75' E - 2752.75' hub
 Spain's IM sets I about 1.4 + E 1.4
 2 1/2 x 2 1/2 sq stake sets E actually 45 ft +
 continue South @ 231.4 hub
 2984.15' of with for right

74 140-29 ⁽⁹⁾ Sec. 26

Nov. 9-1952

beg @ hut 29 84.15 continue

Sec. line South + 350.4 =

3334.55 hut + 191.15 = 3525.7

hut + 3334.15 + 288 = 3622.15

hut N edge of tan swp. about 60 ft

N of water + 200 pin in swp + 143.7 =

4065.85 hut S side swp. + 64.9 =

4130.75 hut on top ridge + 279.8 =

4410.55 hut hut 14" W P Tree

offset 1.60 South continue S

@ 4909.50 hut, + 512.6 = 5422.10 hut

+ 50.7 = 5482.8 hut on ridge + 112.75 =

5595.55 spike hut in E & W Hood

P.M.

As we can not find any corner
here @ 5595.55 south this being
where the corner to Sec. 26-27-34-35
US Notes call for

Tan. 9 S 70 N 40 = 26.40 ft

Fir 6 S 52 E 40 = 26.40 "

" 9 N 75 E 46 = 30.34

W Birch 7 N 42 W 51 = 33.66

We run a picket line & cut South
to Blackwater Lake where

9810-75
Ernest Johnke on Blackwater Lake

US Notes call for MC.N^o 12 bet seci
34-35-140-29 N of Blackwater Lake
find nothing

After Supper I drive to Walker
to check Records. Arrive @ Walker
go to Court House check Records
+ old field Books until 12-30
stop and pick up Gertrude
at Bills on the way home

74 Ernest Johnke on Blackwater Lake

Nov. 10 - 1952

Order Oil as fire went out yesterday afternoon.

get gas drive to Johnson's Clearing Woodrow Twp to check over the Township road book nothing in it. get to Johnkes at noon.
PM.

Ernest Marton + I drive to corner to Sec. 26-27-34-35 in Ernest's pick-up. Walk E to Blackwater Lake @ MC No 13 on W side Blackwater Lake bet Sections 26-35 - 140-29

US Notes call for

W.P. 15° N 22° E 8 = 5.28 ft

H Birch 75 85 W 44 = 2904 ft.

We find the W.P. stump plainly marked and then go West to the 1/4 Cor bet. section 27-34 Where US notes call for

Maple 12 S 10 W 10 = 6.60 ft

There are two big Trees marked here by some surveyor but

Sec. 26

140-29

77

No record of them can be found
Mr. Harder comes and shows
us about where the corner should be
says he dug this corner up a year
ago, it was 5 inches below surface
at that time and was an iron pin
We dig up half the road but
can find nothing.

As Bill Spain run a line
from this cor. South he might
have the ties to this corner

I drive to North Star Camp
to see Bill. No one at N.S.C.

back to Jahnte's for over night
and supper - go to bed @ 9-30

78 Ernest Jahnke (13)

Nov 11-1952

from hub 5595.55 South -
609 spike in E & W Twp road
I site N $0^{\circ}36'W$ on our random
sec line bet Sec 26-27 and down
N $89^{\circ}42'E$ 273.65 to Sta. 1

Tower Sta 1 BS S $89^{\circ}42'W$ run S $60^{\circ}18'E$
220.15 to Sta 2.

2 BS, N $60^{\circ}18'W$ run S $70^{\circ}03'E$ 254.8
to Sta 3.

Tower 3 BS N $70^{\circ}03'W$ run N $67^{\circ}37'E$ 266.7
to Sta 4

Tower Sta 4 BS S $67^{\circ}37'W$ run N $68^{\circ}20'E$
330.1 to Sta 5

Tower 5 BS S $68^{\circ}20'W$ run S $71^{\circ}55'E$
36.00 to Blaze of old MS B.T. W.P.
Stump

Back to Temp SW cor Sec 26

Tower hub 5595.55 S run W along
E Twp road - S $89^{\circ}42'W$ - (Note course taken
from range line as N + S)

2492.7 spike hub 2612.7

Fig this pit should go W 13.36 feet
according to Ben Clark's survey

Sec. 26-140-29th N $\frac{1}{2}$ NW $\frac{1}{4}$ + Lot 79

Fig.

from NE corner Sec 26 to NW Cor
26 U.S. chain calls for 8060 LKs =
5319.60 ft. No cor. here

from N.W. Cor. Sec. 26 to Mc N^o 41
U.S. chain 22.70 LKs = 1498.2 ft
Total U.S. chain 6817.8

My chain = 6970.82 = 153.02 Long
 $153.02 \div 6817.8 = .02244419$ Long in
each foot

5319.60 ft U.S. chain $\times .02244419 =$
119.39 Long.

5319.60 + 119.39 = 5438.99 Length
of N line sec. 26 prop.

1498.2 $\times .02244419 = 33.63$ Long,
1498.2 + 33.63 = 1531.83 ft N line Lot 1
5438.99 + 1531.83 = 6970.82 OK

Corrections

Spike 5482.63 W on Spain's old line
goes E 43.64 ft to 5438.99 W
prop. measurement for E + W

$5438.99 \div 2 = 2719.49 = \frac{1}{4}$

Ernest Jahnke

Nov 11-1962

Fig. S. line Sec. 26

Page 78 this book

Sta 0 = 60' spike in E Twp Road 5595.55 ft S

From Temp NW Cor Sec 26-140-29

Temp NW Cor Sec 26 13- $\frac{0.00 N}{5482.63}$ W of
True NE cor Sec 26 -From 5482.63 W run $50^{\circ}36'E$ 5595.55'
to 60' spike in E & W Twp Road =
 $50^{\circ}36'E$ 5595.55'

$$\sin 010472 \times 5595.55 = 58.60 E$$

$$\cos 999945 \times 5595.55 = 5595.24 S. Sta 0$$

run N $89^{\circ}42'E$ 273.65'

$$\sin 999986 \times 273.65 = 273.65 E \quad Sta 3$$

$$\cos 005236 \times 273.65 = 1.43 N$$

run S $60^{\circ}18'E$ 220.15'

$$\sin 868632 \times 220.15 = 191.23 E \quad Sta 4$$

$$\cos 495459 \times 220.15 = 109.08 S$$

run S $70^{\circ}03'E$ 254.8'

$$\sin 939991 \times 254.8 = 239.51 E \quad Sta 5$$

$$\cos 341200 \times 254.8 = 86.96 S$$

run N $67^{\circ}37'E$ 266.7'

$$\sin 924657 \times 266.7 = 246.61 E \quad Sta 6$$

$$\cos 380801 \times 266.7 = 101.56 N$$

run N $68^{\circ}20'E$ 330.1'

$$\sin 929348 \times 330.1 = 306.78 E \quad Sta 7$$

$$\cos 369206 \times 330.1 = 121.87 N$$

run S $71^{\circ}55'E$ 36 ft

$$\sin 956606 \times 36 = 34.22 E \quad Sta 8$$

$$\cos 310100 \times 36 = 11.16 S$$

From N E Cor.

Sta 0 = NE Corner Sec. 26

Sta 1 = Temp NW Cor Sec. 26 = $\frac{00 N-S}{5482.63 W}$ Sta 2 = Temp SW Cor Sec. 26 = $\frac{5595.24 S}{5424.03 W}$

Sta 2

5424.03 W

273.65 E

5750.38 W

191.23 E

4959.15 W

239.51 E

4719.64 W

246.61 E

4473.03 W

306.78 E

4166.25 W

34.22 E

4132.03 W

Sta 2

5595.24 S

143 W

5593.81 S Sta 3

109.08 S

5702.89 S Sta 4

86.96 S

5789.85 S Sta 5

101.54 N

5688.29 S Sta 6

121.87 N

5566.42 S Sta 7

11.16 S Sta 8

5577.58 S Sta 8 = B.T. stump

B.T. M.C. face of Blage on stump = Sta 8

W 4132.03 + S. 5577.58 B.T.

E 198 S. 490 = pt for M.C.

4130.05 E 5582.48 S To M.C. Sta 9

82

17

E

So.

Sta 9 = M.C.

4130.05

5582.48

Sta 2. Temp SW Cor

5424.03 W

5593.24 S

5424.03 W

5593.24 S

4130.05 E

5582.48 S

1293.98 E from M.C.

12.76 S of MC

Sta 2. Temp SW Cor Sec 26 15

1293.98 E and 12.76 S of MC.

prop. Measurements should be

1290.45 W

3.53 E of random which is on a

1.6 ft offset =

5353.53

5374

481593 X 002110756 = 10.17

Ernest Jahnke

3 18

50° 13' E 396

83

Tin NP 15 559 W 57 H
5 37.6
900 N 10.17
correction for 5353153
.002110706

27 07'

2676.76 E 900 N 565

2719.50 E 900 N 565

50° 12 1/2' E

E - W

1359.76

50° 12 1/4' E

5353.53 W

5438.99 W
2719.50

185

Nov 12-1952

Lv @ 8-10 go to Tamp NW corner

Sec. 26-140-29

check chain W line Sec. 26

rough. beg @ stake 818.75 +

 $300 = 1118.75 \text{ stake} + 5.3 = 1171.75$ $\text{hub} + 300 = 1471.75 + 166.15 =$ $1637.9 \text{ hub} + 1471.75 + 300 = 1771.25$ $\text{stake} + 232.2 = 2003.95 \text{ hub}$ © $2071.75 \text{ stake in bog} + 300$ $2371.75 \text{ in bog} + 300 = 2671.75$ $\text{stake} + 81.05 = 2752.8 \text{ hub}$

.4 N + 1.2 W of Spanish Iron.

Spanish Iron Set 45 ft W of $2\frac{1}{2} \times 2\frac{1}{2}$

sq. stake

 $2671.75 + 300 = 2971.75 \text{ stake}$ $+ 12.5 = 2984.25 \text{ hub}$ $2971.75 + 300 = 3271.75 \text{ stake}$ $+ 254.3 = 3526.05 \text{ hub}$ $3271.75 + 300 = 3571.75 \text{ stake} + 300$ $3871.75 \text{ stake in bog} + 300 =$ 4171.75 stake © $4171.75 - 5.2 \text{ wood } 2" \text{ sq stake}$

Set E 1.55

2733.2

(20)

3590

27

86

5573

$$240 = 4411.75 - \text{hub} + 300$$

$$4171.75 + 300 = 4471.75$$

$$4711.75 + 300 = 5011.75 - \text{stake} + 300 =$$

$$5311.75 - \text{stake} + 174.7 = 5486.45$$

spike in E & W Trap road.

PM

beg @ 60° spike on hill in E road chain

W 766 ft to 60° spike 5353.57 W

beg @ spike hub on hill @ 766 chain E +

$$300 = 1066 = 1151.46 \text{ E from pt for Cor.}$$

$$+ 300 = 1451.46 + 59.9 = 1511.36 \text{ hub 60°}$$

$$\text{spike} + 300 = 1811.36 \text{ min.} + 300 = 2111.36$$

$$+ 300 = 2411.36 \text{ min.} + 274.35 = 2685.71$$

$$\text{hub 60° spike in ditch} + 33.79 = 2719.5$$

spike pt for $\frac{1}{4}$ Cor.

Ties

twind Birch 9-10 run S 10° N 16° 11' W 62.87

H Maple 18 S 35° 00' W 60.05

From $\frac{1}{4}$ run S 0° 12½' E along N & S E
sec. 26-140-29

set spike on N side ramp of creek

pt. for IM

Ties

Chm 7 N about 12° E 16.12

" 18 NW 35.73

Note I use the line ran by JWE in 1936 as the North line of Sec 26 because it has been excepted as the line for 16 years by everyone. In running South along the West line of Sec. 23. - 140 - 29 Wm Spain tied into this line and called it the line.

In running the West line of Sec. 26. Wm Spain running from the South stoped his line at intersection of his line with this line.

In building a road along the North line of Sec 26 from the $\frac{1}{4}$ cor West they followed the line ran by J. W. Curo. So I am using this as the North line of said section 26.

As there seems to be no point set for the NW corner of Sec 26 I propse the distance between the NE corner of said Sec 26 and the M.C. N 241 on the E shore of Widow lake and set the NW Cor. of 26 accordingly to said measurements.

88

(23)

4364

3851

54

573

50°36'14"

3-486.46-

Sec line W line 26-140-29

0°36'

S. 72° E

CRD. 172

X 54° 46.45-

57.45-

C. 37.11

39.99 44.5-

Y 54° 36.45-

573

Sec 26-140-29 (24)

89

Ernest Jahnke

$$38.51 \div 548645 = .00701911 = 0^{\circ}24'$$

$$\text{hub } 418.75 \text{ S} = 5067.70 \text{ N goes E}$$

$$\text{" } 1171.75 \text{ S} = \text{" } 4314.70 \text{ N " "}$$

$$\text{" } 1638.15 \text{ S} = \text{" } 3848.30 \text{ N "}$$

$$\text{" } 2004.00 \text{ S} = \text{" } 3482.45 \text{ N}$$

$$\text{" } 2752.75 \text{ S} = 2733.70 \text{ N}$$

$$2 / 5486.45$$

$$\text{hub } 2743.22 \text{ S goes E}$$

$$\text{hub } 1371.41 \text{ S} = 4114.84 \text{ N}$$

$$\text{hub } 418.75 \text{ S} = 5067.70 \text{ N goes E } 35.57 + 5.13 = 40.70$$

$$\text{" } 1171.75 \text{ S} = 4314.70 \text{ N " E } 30.29 + 5.13 = 35.42$$

$$\text{" } 1638.15 \text{ S} = 3848.30 \text{ N " E } 27.01 + 5.13 = 32.14$$

$$\text{" } 2004.00 \text{ S} = 3482.45 \text{ N " E } 24.44 + 5.13 = 29.57$$

$$\text{" } 2752.75 \text{ S} = 2733.70 \text{ N " E } 19.19 + 5.13 = 24.32$$

$$\text{O } 2743.22 \text{ S goes E } 19.25 + 5.13 = 24.38$$

to $\frac{1}{4}$ Cor W. side 26.

$$1371.41 \text{ S} = 4114.84 \text{ N goes E } 28.88 + 5.13 = 34.01$$

to N $\frac{1}{4}$ W side sec 26-140-29

Nov. 13 - 1952

Lv @ 7.45

Martin takes flag pole in boat
goes over river and sets point
on sawall out N & SE Sec 26
on sawall across river Martin
drives a 2 x 36" tub (thin) for M.C.
on point.

at Point Not river Ties on bottom
of page 85 this book drive a iron
fence post & chain N along N & SE
@ 300 yds in swp. + 242.3 = 542.3
N to 60° dip hut on ridge
Ties

Birch 10 N 66° W 7.6

" 5 N 53° E 15.45

$542.3 + 300 = 842.3$ etc. + 300 = 1142.3
min + 191.6 = 1333.9. to $\frac{1}{4}$ Cor.
@ $\frac{1}{4}$ N side Sec 26 - 140-29

Ties on page 85 this book K 268
go West along N line Sec 26
to hut. 15 11.36 E and chain West.
15.61 to 1359.75 W pt for W $\frac{1}{16}$
N side of Sec. 26

Then 1359.75 W run S 0° 12 $\frac{1}{4}$ E

Sec 26-140-29 (26) Ernest Jahnke 91

on $W \frac{1}{4}$ line of Sec. 26-140-29

Ties to $W \frac{1}{4}$ Cor

Pop 6 S $49^{\circ}30'W$ 42.4

Elm 10 N $35^{\circ}E$ 42.97

± Old W.P. stump $24^{\circ}N 5^{\circ}25'W$ 27.80

cut out ~~W~~ $\frac{1}{4}$ line Sec. 26-140-29
to Black water Lake but same
do not chain now

Corner Temp NW Cor Sec 26
Chain E 43.64 set point for Cor.
Ties to 26-27-22-23

W Oak 8 S $39^{\circ}24'E$ 30.20

Elm 10 S $40^{\circ}45'W$ 37.15

Birch 6 S $56^{\circ}W$ 14.95

W P 30 N $85^{\circ}W$ 55.70

Birch 6 N $55^{\circ}12'E$ 33.30

Pop 7 N $51^{\circ}30'E$ 22.7

go South & correct hub 1171.75 S
set a hub @ 1371.61 & correct it E
to pt for N $\frac{1}{4}$ Cor bet 26-27
Corner N $\frac{1}{4}$ " " " run N
 $89^{\circ}51\frac{1}{2}'E$ along N $\frac{1}{4}$ line

Ties to N^o 16 Corbet Soc 26-27
W. Oak 4 N 82° 43' E 23.57
Birch 11 N 90° 45' W 33.25

Nov 14-1952

Continue N $\frac{1}{4}$ Lin - Sec 26
140-29 East.From T M N $\frac{1}{4}$ Cor chain E
on N $\frac{1}{4}$ line @ 82.85 hub 60 spikes

@ 100 pins + 300 = 400 stake

@ 453.75 hub, 400 + 300 = 700 stake
+ 266.95 = 966.95 hub

@ 1000 stake @ 1025 enter map

@ 1370.8 intersection of N $\frac{1}{4}$
line and W $\frac{1}{4}$ linebeg at intersection of N $\frac{1}{4}$ + W $\frac{1}{4}$
chain E 300 stake + 300 = 600@ 603 E road @ 609.3 hub E
edge road. 1270.7 T M, West side
map.Tower 609.3 BS $589^{\circ}51\frac{1}{2}'$ E run,
S $32^{\circ}41'W$ 514.85 to pt. run S $58^{\circ}28'E$
392.13 to section cornerTower 392.13 run N $57^{\circ}01'W$ 210.6Tower 392.13 run N $15^{\circ}39'E$ along lake
shore 100 ft.Tower 100 run N $57^{\circ}01'W$ N $55^{\circ}51'W$ 193.3

From I.M. Center NW $\frac{1}{4}$
 Chain South @ 287.9 hub
 @ 300 p.m. 600 - 900 + 200 stakes
 1344.6 Iron $\frac{3}{4}$ " X 2" on brink
 + 58 = 1402.6 = 2 X 30" I.M.
 on renewal 6 ft from water

Sold

Description of 100' Tract

A tract or parcel of land situated in Govt
 Lot 3 Section 26 Township 140^N Rge. 29^W
 of the 5th P.M. Cass County Minnesota
 described as follows

Beginning at an iron pipe on the
 Northerly shore of Blackwater Lake
 placed at a point 665.51 feet East and
 636.90 feet south from the N.W. corner
 of said Lot 3 and running: thence
 N $57^{\circ}01'W$ 210.60 feet to a second
 iron pipe; thence N $25^{\circ}51'E$ 100 ft
 to a third iron pipe; thence
 S $55^{\circ}51'E$ 193.30 ft to the fourth
 iron pipe on the said northerly ^{shore} bank
 of said Blackwater lake; thence S $15^{\circ}39'W$
 along said shore 100 feet more or less to place
 of beginning

Jahnke

the land herein described extends Southeasterly to the waters edge of said Blackwater Lake and contains $\frac{46}{100}$ of an acre as near as maybe, together with easement for egress and ingress over roads now built across said Lot 3 from the public Highway to the property herein described

Subject to mineral rights and mineral reservation if any of record

subject to right-of-way of the Electric power & Light Co. where same is now located across said Lot 3.

The North line of Section 26-140-29 is considered a true E+W line in this description

Dec. 4-1952

Ernest Jahnke comes to my office looking for the tools to his chain saw they had Left them in the back end of my car where we find them. He gives me a check for \$150⁰⁰ bal. due me on his survey work

Ernest Jahnke

I write out another description
for the ¹⁷⁵150 foot tract Lying Northerly
from the one he sold

Description

A tract or parcel of Land situated in
Gov't Lot 3 Section 26 Twp 140^N Rge 29^W
of the 5th P.M., Cass County Minnesota
described as follows. Beginning at an
Iron mon ~~pt~~ on the northerly shore
of Blackwater Lake placed at a point
692.49 feet East and 540.62 feet South
from the N.W. Corner of said Lot 3 and
running: thence N 55° 51' W 193.30 feet
to a second iron mon thence N 25° 51' E
¹⁷⁵150 feet to a point thence S 55° 51' E 170
feet ± to the shore of said Blackwater Lake
thence ¹⁷⁵150 feet ± to the place of beginning the
Land herein described extends South
easterly to the waters edge of said
Blackwater Lake and contains 6/10
of an acre as near as may be

Subject to right of way for ingress & egress

" " " " for Electric power & light Co

①
Sec. 10-140-29

97

I am to run the East and West
E of Section 10-140-29 for
W.S. Mattson - Surveyor of
Buffalo Minn for \$150.00

May 5th 1953. I get a call from
Mattson to go ahead with this.
E & W E. Sec. 10-140-29

South side McKeown lake

May 6-1953

I check over Notes and plats to
see where to run the E & W E. Sec. 10.

US Notes

1/4 between Sec. 9-10-140-29

Q to D @ 5-

WP 20 N 40 E 23 15, 18

WP 18 S 25 W 30 = 19.80

MC No. 78 - S. side Mamm Lake bet Sec. 9-10

Cedar 5 S 70 W 40

W. Pin. 7 N 80 E 18

98

2

$89^{\circ}29'$

$N 89^{\circ}58'E$

10

11

$89^{\circ}46'$

$91^{\circ}31'$

$589^{\circ}49'W - 1^{\circ}31'E$

$88^{\circ}59'$

15

correcting Random on West side
Sec. 11. @ 2640.90 N goes West 25.95
where I set a 4x4x36 NP post for true
1/4 Cor bet Sec. 10-11 - 140-29

BTs

N.P. 85 2934 W 3390 to tack head
NP 1256903 E 55.60 Var. 70

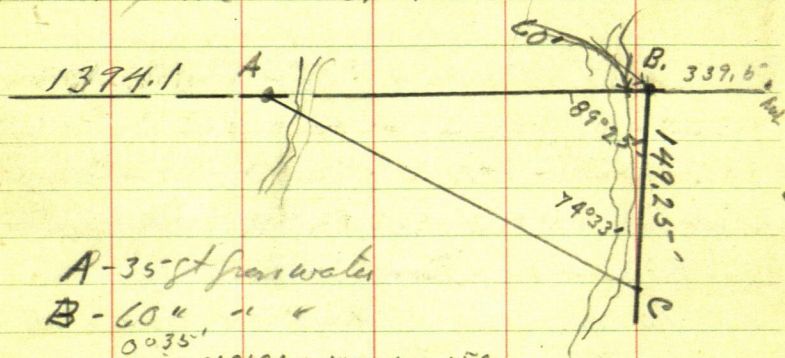
I drive to some where near
the 1/4 corner between Sec. 10-11
but can not seem to locate it

I drive over and talk with Ernest
Tussler. He says that the 1/4 on East
side of Sec. 10 is gone but that he
has set the 1/4 on the West side of
Sec. 10.

Ed. & I drive to the West side of
Sec 10 after some time looking
for this cor. We find the iron set
by Tussler in the ditch greaded
out by the road greader. We go look
again for the 1/4 on the E side of
10. find nothing We cannot tell
where to look.

We go to 1/4 bet 9-10 as the road
has taken out the old USBT if they

Were ever found and a 3
 Tussler never marked and New
 ones when he established this
 corner We can not put it back
 where, if come from. We drive
 a 60d spike for a Temp. point
 to start from and run East
 Needle reads $60^{\circ}70'$ cut line do
 not chain. When we hit the lake
 we set a 60d spike over the lake
 on our random line and
 triangulate over lake viz:



A - 35 ft from water

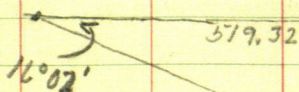
B - 60 " " "

$0^{\circ}35'$

$$\sin 010181 \times 149.25 = 1.52$$

$$\cos 149.25 = 99.9948 \times 149.25 = 149.24$$

520.84



$16^{\circ}02'$

$$\cotang 3.479773 \times 149.24 = 519.32$$

$$\text{From A to B } 520.84 \text{ ft} \quad + 1.52$$

520.84

May 15-1953

101

See 'Rg. 105-for Corant fig.
Ed & I chain up our random line
Fig. 1 from 60' spike Temp 1/4 bet 9-10
-300 pin + 250 = 550 pin + 29.3 = 579.3
hub, 60' spike + 60 = 640 ± E road.
SE NW, 579.3 + 100 = 679.3 pin + 125 =
804.3 pin in large stump + 160 =
964.3 pin + 65.8 = 1030.1 hub - 60' spike +
280 = 1210.1 pin - 2.2 = 1207.9 hub
1207.9 + 84 = 1291.9 hub A
35 ft W of water of lake.

From hub on top of hill over lake
We chain West down hill 280 pin + 59.5 =
339.5 to Pt. B.

From hub on top 339.5 E of B. chain
E 300 = 639.5 pin + 143 = 782.5 hub + 218.9
901.4 hub + 221.5 = 1122.9 ^{hub} @ 1150 E old
road 1122.9 + 100 = 1222.9 + 300 = 1522.9
pin - 146.4 = 1376.5 hub

1522.9 + 11.4 = 1534.3 + 200 = 1734.3
hub + 118.2 = 1852.5 hub at edge of run.
put road + 93.1 = 1945.6 hub, on top of mt
for night

May 16-1953

Ed & I drive to Sec. 10-140-29

from Hub. 1945.6 hub on top E of new road we continue our line East

$$+100 = 2045.6 + 100 = 2145.6 \text{ pin} + 130 = 2275.6$$

$$- 24.6 = 2251.0 \text{ hub. } 2275.6 + 113.1 = 2388.7$$

$$\text{hub} + 20 = 2408.7 \text{ pin} + 85 = 2493.7 \text{ entry}$$

spruce swamp

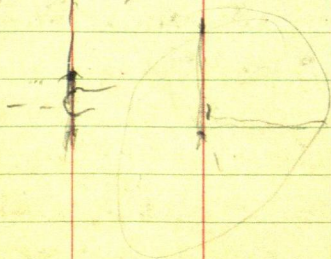
$$2408.7 + 300 = 2708.7 \text{ stake in swamp} +$$

$$100 = 2808.7 \text{ stake} + 300 = 3108.7 \text{ stake} +$$

$$136.1 = 3244.8 \text{ hub over spruce swamp.}$$

Meet Mattson we look but do not find the old B.T.s as we do not know just where to look

Mattson Ed. & I drive North $\frac{1}{4}$ mile + - to cabin and then look for N $\frac{1}{4}$ cor bet Sec. 10-11-140-29 we find the I.M. being a $2\frac{1}{4} \times 48"$ Gal iron pipe cap on top setting about 2 feet out of the ground
quit for Night.



Sunday May 17-1953

Don John + Bobbie go with me drive
to N $\frac{1}{4}$ Cor. bet 10-11-140-29

Now I M Take Ties

Birch 85 80° 52' E 3.60 ft

" 9 538° W 6.40 ft ^{apart} base

From I M. N $\frac{1}{4}$ Cor we run a random
line south. Start out with needle at 70
but have to swing the line E to set first
hub. To get by trees then offset .40 and
continue S. @ 200 pin @ 220 enter wrap
along west edge @ 290 L u wrap @ 400 pin
@ 465.2 hub. where I start my .40
offset Ead @ 598 & road @ 617.6 hub
@ 840 enter Loveland @ 917.6 pin @ 1054.3
hub @ 1217.6 hub 60° ^{apart} in E Old
Hackensack - Longville road.

We chain out rough the 1320.45 ft then
look for the old 1915 B.T.s called for
on page 41 old field Book 66 Vizi

N.P. 85 290° 34' W 33.90 ft ^{t. tack heads}

" " 128 69° 03' E 55.60 "

we find the stumps of both trees with
the tacks still in the old blags, from
which we chain and set a 60° ^{apart}
for the true $\frac{1}{4}$ corner bet sec. 10-11

Over 60° spike. True $\frac{1}{4}$ cor bet
Sec. 10-11-140-29 check the course
witch check perfect.

New Ties

Birch 4N 77°35'E 22.3 ft

" 7N 11°27'W 42.87 ft

We continue the random line
the E & W ~~line~~ and the E line of 10
to an intersection and set a 60°
spike. @ 1242.85 ft South and
70.2 ft E from hub 3244.80 = 3315.0
E of hub Bon lake shore.

Over intersection hub.

Site West on our E & W ~~line~~ the
True $\frac{1}{4}$ corner sets L 68°35' 97.50
feet S.W.

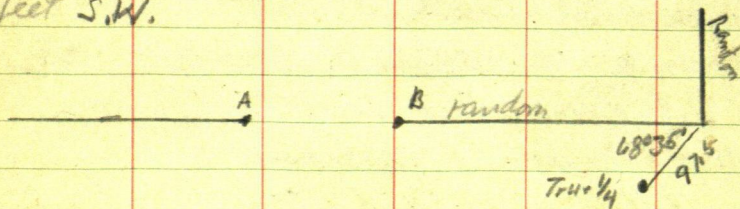


Fig E+W @ random

From Temp $\frac{1}{4}$ bet 9-10 run East
 @ 579.3 hub @ 640 cross road @ 1030.1
 hub. @ 1307.9 hub 1394.1 hub A onshore
 of lake 35 ft W of water over Lake see
 page 100 this book $1394.1 + 520.84 =$
 1914.94 hub B over lake 60 ft E of water
 $1914.94 + 339.5 = 2254.44$ hub on top
 @ 2697.44 hub @ 2916.34 hub @ 3137.84
 hub @ 3391.44 hub @ 3749.24 hub
 @ 3868.44 hub @ Wedge of New road way
 @ 3960.54 hub on top @ 4265.94 hub
 @ 4403.64 hub @ 5259.74 hub over ramp
 @ 5329.94 hub at intersection of our
 randoms

Corrections 5229.94

E+W @ at hub 5329.94 E

True $\frac{1}{4}$ Cor sets S $21^{\circ}25'W$ 97.5 ft
 $21^{\circ}25'$

$$\text{Sine } 365148 \times 97.5 = 35.6$$

$$\text{Cosine } 930950 \times 97.5 = 90.88$$

Temp
60

E+W @

5294.34
5194.3

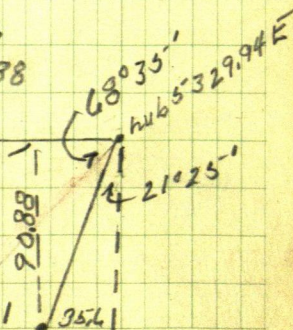
5329.94

35.60

5294.34

$$90.88 \div 5294.34 = .017165501$$

True $\frac{1}{4}$



106

140-29

Correction E+W & Sec 10.

our random line goes south

.017165, 501 of a foot for each ft East
hub "B" on E side of lake, = 1914.94 E

1914.94 East goes South 32.87

2234.44 " " " 39.70

> 2697.44 " " " 46.40

2916.34 " " " 50.06

3137.84 " " " 53.86

3391.44 " " " 58.22

3749.24 " " " 64.36

3868.44 " " " 66.40

@ 3970.77 " " " 68.16 to temp $\frac{1}{16}$ C & $\frac{1}{2}$

3960.54 " " " 67.98

4265.94 " " " 73.23

4403.64 " " " 75.59

5259.74 " " " 90.28

5294.34 " " " 90.88

Note this is the correction for E+W &
using my temp $\frac{1}{4}$ on the W. side of
Sec. 10 as the corner.

Some years ago Spain ran the N+S &
(rough line) and set a stake for a temp
center of section 10. I will look and
see if I can find anything
his distance E from $\frac{1}{4}$ should be between
2630 + 2640 ft. E

108

Johnke

Tower point on Bank of Black
Water Lake at a point 665.51 E and
636.90 ft south from NW Cor lot 3

turn. BS N $57^{\circ}01'W$ on IM
run. S $28^{\circ}16'W$ 164.95'

Tower 164.95 BS N $28^{\circ}16'E$ & run
S $38^{\circ}49'W$ 100 ft along bank 20 ft
from water, \pm

Tower 100. BS N $38^{\circ}49'E$ & run
N $57^{\circ}01'W$ hit tree turn R $20'$

181.4

$0'21'' = \text{Sine } .006109 \times 181.4 = 1.11'$

6109

1814

2436

6109

48872

6109

1,108,1726

Tower 181.4 Site S $56^{\circ}49'E$ run

N $25^{\circ}47'E$ 98.89 to IM

Tower 98.89 BS S $25^{\circ}47'W$ & run

S $57^{\circ}04'W$ 203.5 to place of beg.

56.70

N $57^{\circ}10'W$

21

56 47

19990

9889

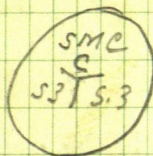
109

Monday ⁴⁶⁶ Oct

111

I copy description at the Bank
in Walker go to Court House copy
Re-survey Plot in office of the Reg.
of Deeds see page 110 fig out the
description have dinner at home
PM

drive to Lot 14 Sec 3-141-29
find Fairbank's + son cutting a
big maple tree it does not fall
the right way lodges in another
maple. big limbs over top of son's
house looks bad. they go with me
Toon brass cap monument marked



open up the $\frac{1}{4}$ Sec. 3 to IM $\frac{1}{4}$ N
side Sec 3 marked



112

Tue Oct 1953

I take Donald to Duluth

Wed. Oct 1953

I drive to Fairbanks

Town IM, SMC. SW cor lot 14

Site N on IM $\frac{1}{4}$ bet Sec 3-34Turn 90° run East

Town 60' depth hub

E of SW cor

run S $29^\circ 30' W$ 44.75'

$$\text{Sine } 492424 \times 44.75 = 22.04$$

$$\text{Cosine } 870356 \times 44.75 = 38.95$$

Town 44.75' run S $2^\circ 25' W$
302.8 to IM.

$$\text{Sine } 042166 \times 302.8 = 12.77$$

$$\text{Cosine } 999111 \times 302.8 = 302.53$$

$$302.53 + 38.95 = 341.48 N$$

$$12.77 + 22.04 = 34.81 W$$

From IM SMC SW cor lot 14
chain East 116.1 hub + 231.6 =
347.7 hub

$347.7 + 81.3 = 429$ set 60° spike
pt of beg.

from hub by house chain E 34.81
to a point due North of IM @ SE Cor
lot 14 set 60° spike due North of
SE Cor 341.48 ft.

We want 297 ft N

Take 60° spike run South

$341.48 - 297 = 44.48$ to A.P.

Take 429 pt of beg. Site W on cor
run S $79^{\circ}54'$ E 253.8 to ap
as the line E from AP hits big trees we
offset S 2.5 ft.

Still at pt of beg. 2.5 ft offset spike
bear S $79^{\circ}20'$ E

Take 2.5 offset site N $79^{\circ}20'$ W
on pt of beg & run East set
two hubs. Take these hub turn 80°
run N 2.5 ft at spike hubs on line

$72 + 210 - 29 = 214.3$ pt for IM

114

Thurs Oct 29-1893

I drive to Fairbanks on
 Lot 14 - Sec 3 - T. 141 - N 29

From hub due N of IM
 SE cor lot 14 chain West
 250 ft. to pt of Beg. of Timmer-
 man's Tract

East on true line to top
 of bank at Leech lake

From A.P. 214.3 to top of bank
 pt for IM.

From pt for IM, BS West
 run $N 1^{\circ} 43' E$ 145.3

From 2.5 offset pt chain E 7.2
 to hub. - back on true line

$N 1^{\circ} 43' E$ 145.3

$\sin 029957 \times 145.3 = 4.35$

$\cos 999331 \times 145.3 = 145.23$

Tak at da of shore

150 - $N 25^{\circ} 45' E$

100 $S 14^{\circ} E$

180 $S 2^{\circ} 30' E$

P.M.

Tower plat Bore 429 ft E
of SW cor lot 14

run North 145.23

- 44.48

100.75 to pt for IM

run South 99 ft pt for IM

fig

@ 429 + 250 = 679. E SE cor.

sets South 341.48 ft

341.48 + 679. = .502916

" Corrections .502916

but 429 goes S 215.75

@ 99 south pt for IM

Tower A.P. - 18 rod N of IM run

S 9 rod = 148.5 ft to point

Tower 148.5 can not see IM
SE cor Zimmerman tract

fig

E line 250 ft from Pt. of Bore is
192.98
- 93.98
99.00 ft N of midway point

93.98 + 250 = .37592 correction

20°30' ± 184.8 IM water 60 ft

Description

A Tract or Parcel of Land situated
in Gov't Lot 14 Sec. 3 Twp 141 N
Rge. 29 W of the 5th PM Cors Co. Minn
described as follows

beg. at an iron Mon. 126 rods to 429,
feet East from the SW cor of said
lot 14 and running $S 79^{\circ} 54' E$
253.80 feet to a 2nd I M 18 rods
297. ft N of I Mon S line of lot
14 thence East 214.3 feet to a
3rd I M on the bank of Leech Lake
thence $N 1^{\circ} 43' E$ 145.3 ft to a 4th
I M on the Bank of said Leech Lake
thence West 468.65 feet to a 5th
I M thence South 100.75 feet to
the place of beg. the land herein
described extends East to the
waters edge of Leech Lake and
contains $1 \frac{59}{100}$ acres \pm
Subject to the right of way of the
road now built across said
tract

The West line of lot 14 is considered
a true N & S line in this case,
subject to mineral rights &
reservations if any of record

also

A tract of land situated in Grant
 lot 14 Sec 3 - T 141 - R 29 beg
 at I M SE corner of said lot
 14 run N $63^{\circ}18'W$ along the
 S line of said lot 14 a distance
 of 279.84 feet to a 2nd iron mon
 thence North 116.75 ft to a 3rd
 I M, thence S $69^{\circ}24'E$ 451.90
 ft to a 4th I M thence SW $1/4$ 190 ft
 \pm to place of beg. the land herein
 desc. extends ⁵⁰⁰ to the water's edge
 & contains $1\frac{1}{4}$ acres \pm

together with an easement for a
 roadway leading from the NW
 cor of described tract to connect
 with the road now built and traveled
 across said lot 14

The Party of the 1st part reserving
 the right to enter and use the
 sand beach to launch & remove
 boats from beach lake

Subject to mining right if any
 of record the West line of lot
 14 is considered true N + S

Field Notes Continued in Old Book 166

118

Sec. 23-140-29

Ties to IM NW Corner

Sec. 23-140-29

24" Oak NW 55.00

12" Maple NE

12" Pine SE 26.9

End of Trail Plat shows

Distance along N line Sec 23

33' + 125 + 125 + 40 + 150 + 150 + 40 + 125 +

125 + 40 + 164.75 + 164.75 + 20

33
125-

125-

283

40

323

340

663

290

953

16,475

111775

128250

20

1302.50

1289.5

14.00

1302.5

1292.8

193

20

16475-

16475-

3493.0

W of PT from W 1/16

corner according to plat of

End of Trail 2 add.

Plat says from Sec. cor to

W 1/16 = 1302.55

349.5-

953.0

22.0 mi

119.8

1292.8

Now IM 953.0 E of NW cor

Sec. 23 B.S. on IM W

+ run East

16475

16475-

3293.0

953.0

22.0

1292.8

Tower spk 1292.8 East in intersection
road N4S-E+W site W on IM and run
S $2^{\circ}50'E$ 220' to hub, sta 1

Tower sta ① BS N $2^{\circ}50'W$ on Sta 0
+ 471 S $3^{\circ}27'E$ $300+300+100+300+80+$
 $140-3,6 =$ Sta ②

Tower Sta 2 BS N $3^{\circ}27'W$ + Run
S $1^{\circ}05'E$ $300+300+260.65 =$ to
Sta ③ in E+W road,

Tower Sta 3 BS N $1^{\circ}05'W$ + run
S $88^{\circ}40'E$ $300+600+300+60-8,4 =$
Sta ④ near pt of road W+S

Tower Sta 4 BS N $88^{\circ}40'W$ + run
S $0^{\circ}57'W$ $2700+300-3000+24.1 =$
 3024.1 to IM $\frac{1}{4}$ corner S. side Sec 23

Tower 4 IM BS N $0^{\circ}57'E$ + run
N $87^{\circ}20'W$ along the S line of Sec. 23
quit @ 630

swp. @ 2185 - cross rat farm fence
 @ 2195.7 set pin @ 2311.2 hub 60° dip @ 2491.
 hub 60° dip + 100 over dip revenue @ 2820.80
 hub 60° dip on high bank Said Woman Lake
 see page 48.

Hub 2820.80 N is 2424.80 N of Sec Cor
 & sets 60 ft south of water Woman Lake
 From hub 2424.8 N chain South 5.3
 to 24195 N. find my old 2x36" I.M.

Old BTs Pine Stump 20° S 48° 40' W 7.70
 Takeart " " 24 S 48° 50' E 15.60
 to old BT mark at base

Fig

$\frac{1}{4}$ on N side sec 23 is 00
 $\frac{1}{4}$ on S " " 23 " 10.74 W + 5347.24
 S of $\frac{1}{4}$ on N side
 $10.74 \div 5347.24 = .002008512 = 0^{\circ}07'45''$
 $10.74 \div 5347.24 = .002008513 = 0^{\circ}07'$

0°07'

Sine .002036

Cosine 999998 + 5347.24 = 5347.23

2045' LV SWP

122

2 | 2712651
 1363,24 -
 272651

$\sqrt{54.72,72}$

N 45° 00' 00" W 5347.24

N 11°

N 00° 03' W

N 88° 40' W

2722,77 1361.38
 1361

305° 42' 30" N
 2696.66 E

N 0° 13' W 2419.5

53° 47' 24" S
 10,74 W

52° 10' 35" S
 1347.54 E

1359.75

587° 20' E 27195

126.52
 54737.5
 2705.8 E

Friday May 5th 1954

Le Walker drive to Roy Johnson on
Woman Lake by way of Longville

Boat & eye with Ray we go to where
E line Sec. 23 hits Woman Lake
water high we can not pick up

J W Curo's old line find IM set by
Bill Spain We drive to SE Cor
Sec 23 and set a 60^{ft} spike for true
corner from old B.T.s walk south
to MC N^o 6 and from old B.T.s
set point for MC N^o 6

Then SE Cor Sec 23 BS Songflag
at MC run N on true Sec. line
following the old line run by John
W Curo in 1936 see book 233 page 2
to 71. @ $995.7 + 4 = 999.7$ find
old hub 60^{ft} spike

old Notes book 233 pg. 68-69 are off
in stead of taking of 400 ft to each ~~hill~~
There should be 4 ft added, as I find
in Hub 995.7 JWC old 60^{ft} spike.

So the rat fence fence is $2185 + 4 = 2189$ ft.
N of Sec. Cor. +

Hub. $2824.8 - 62.5 - 5.3 = 2819.6$ IM
MC.

$$5600 = 3696' - 45 \text{ ch} =$$

$$2849.5 - \text{new ch}$$

$$\begin{array}{r} 3696 \\ 2640 \\ \hline 1056 \end{array}$$

$$\begin{array}{r} 3696 \\ 2819.5 - \\ \hline 876.5 - \text{Short} \end{array}$$

$$\begin{array}{r} 23714826 \\ 3696 \overline{) 876.5} \end{array}$$

$$\begin{array}{r} 2370.43 \\ 626.07 \\ \hline 876.50 \end{array}$$

$$2640 = 626.07 \text{ Short}$$

$$\begin{array}{r} 115.5 - \\ 10.7 \\ \hline 126.2 \end{array}$$

MC. N°6

3696 ft

point 2649 N goes S 626.07' to
2013.93 N to $\frac{1}{4}$ Corner

as old notes say cross Rat farm
fence @ 2189. if at chuck with
but $10.7 + 115.5 = 126.2$ N of Rat fence
then from rat farm fence I will
chain S 165.07 to it for $\frac{1}{4}$

00 N 100 E

E & W

92°33'

87°27'

NE Cor

At W ang, 92°33'

SE Cor

NW ang 89°54'

181 87'

7182°27'

91°13'

87°20'

90

17.7 20

88°40'

N. 20°27' W

87°20'

S 87°20' E

2719.6-

10.76

89°54'

N 20°33' E

537.6

Thick bank goes

Ties

N 10.17 to 112

N 15 S 59° W 51.4

N 10 S 17°25' E 23.85

Seep 9 30 book 233

83

7 3.76

54

7 05.91 E

90°

Base

Tang. x base

N 87°20'

52°33' W

87 27

92 33

89 54

131 87

90 9

π over SE Cor Sec 23 Site N $87^{\circ}20'$
along S line Sec. 23 and run
N $2^{\circ}33'E$ 995.

π at 00 Site W on line NW angle
reads $89^{\circ}54'$

$\frac{1}{4}$ corner in swamp, run N 165.07 to
old rat farm fence & continue N
429.3 = 594.37 N of $\frac{1}{4}$ Sta ① $+1.3E \text{ of IM}$

Turn Sta 1 BSS $2^{\circ}33'W$ on Sec line
& run N $31^{\circ}17'W$ 153.5 to Sta ②

Turn Sta 2 BSS $31^{\circ}17'E$ on Sta 1 & run
N $68^{\circ}54'W$ 162.0 Sta ③

Turn Sta 3 BSS $68^{\circ}54'E$ & run

N $33^{\circ}39'W$. 220. - 1.7 = 218.3 to Sta 4

Turn Sta 4 BSS $33^{\circ}39'E$ & run

N $54^{\circ}00'W$ 393.5 to Sta 5

Turn Sta 5 BSS $54^{\circ}E$ & run,

N $54^{\circ}22'W$ 274.50 to Sta 6

Turn Sta 6 BSS $54^{\circ}22'E$ & run

N $75^{\circ}41'W$ 354.30 to Sta 7

Turn Sta 7 BSS $75^{\circ}41'E$ & run

N $53^{\circ}04'W$ 240.4 to Sta ⑧

Fig

Sta O is N 2° 33' E 2013.93 - $\frac{1}{4}$ + 594.37 =
 2608.30 from SE Corner Sec. 23-140-29
 N 2° 33' E 2608.3

Sine 044491 x 2608.3 = 116.05 W E

Cosine 999010 x 2608.3 = 2605.72

N 31° 17' W 153.5

Sine 579271 x 153.5 = 79.71 = W 36.34 W

Cosine 854610 x 153.5 = 131.18 = 2736.9 N

N 68° 54' W 162

Sine 932954 x 162 = 151.14 W = 114.8 E

Cosine 359997 x 162 = 58.32 N = 2795.22 N

N 33° 39' W 218.3

Sine 554118 x 218.3 = 120.94 = 235.76 W

Cosine 832438 x 218.3 = 181.72 = 2976.94 N

N 54° 00' W 393.5

Sine 809017 x 393.5 = 318.35 = 554.11 W

Cosine 587785 x 393.5 = 231.29 = 3208.23 N

N 54° 22' W 274.50

Sine 812762 x 274.5 = 223.10 = 777.21 W

Cosine 582596 x 274.5 = 159.92 = 3368.13 N

N 75° 41' W 354.3

Sine 968944 x 354.3 = 343.38 = 1120.51 W

Cosine ²⁴⁷²⁸¹247563 x 354.3 = ^{87.61}87.71 = 3455.86 N

N 53° 04' W 240.4

Sine 799335 x 240.4 = 192.16 = 1544.77 W

Cosine 600885 x 240.4 = 144.45 = 3600.31

128

6229 12/11/33 10 2/3
Corrected

East

2605.
1302.5 1302.5 00

West

5-220.72
10/31 1/4 5-221.95
7 10/31

2610.97 10/31 5-221.95-

5. 021233 +
cosine 99113

4522072

第 1005 号

N/02014

$\frac{1}{2}$ 2 0 1 5 9
 $\frac{1}{2}$ 2 0 1 5 9

126.52

~~587° 20' E 2719.5'~~
~~2716.55'~~

1359.75

1359.75

2002-15
5347.24 5 $\frac{1}{4}$

● 4

5

24

17.

132

9

13

07

11

Sta 1
260972 N
116.05 E

89.6

 $\frac{1}{4}$

2011.91

13.9

20

2

Cor

10

S 87 20' E

1358.28

6326

1359.75

24W 27

201. 11-25-41

2716

126.521
Cor

$\frac{1}{4}$ on N Side Sec 23 = 00

$\frac{1}{4}$ on S Side " " South 5347.24

West 10.74 ft

run S $87^{\circ}20'E$ 1359.75 = E $\frac{1}{4}$

Sta ② = 1358.28 E = S 5410.5

63.26 S - E 1347.54

run S $87^{\circ}20'E$ 1359.75 = SE Cor Sec 23

Sta 2716.55 - E = South 5473.76 S

126.52 S = East 2705.81

run N $2^{\circ}33'E$

2013.9 = $\frac{1}{4}$ E Side Sec 23 = 2795.41 E

3461.86 S

N 2608.3 = Sta ①

= 2868045

2821.86 E

South line

1358.28

63.26

126.52

Sta 8 is 1544.77 W and

3600.31 N of SE Cor

- 63.26

3537.05 N of E $\frac{1}{4}$

130

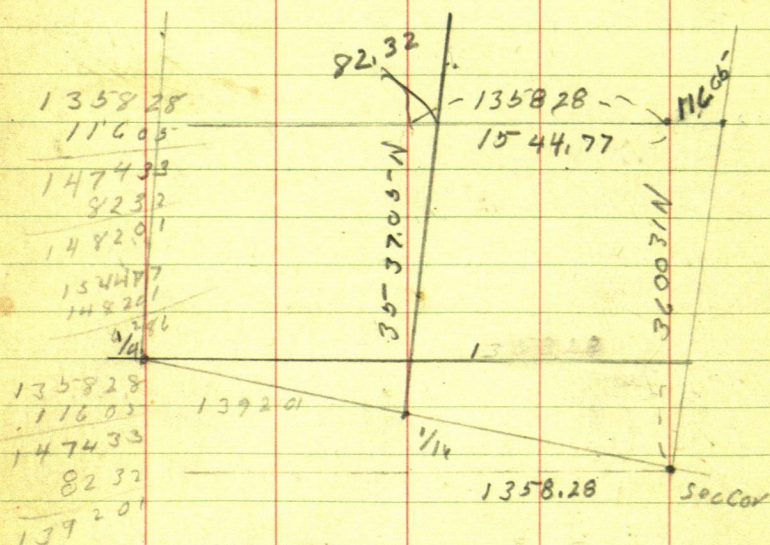
E 1/4 line runs $N 1^{\circ} 20' E$
 and is $1358.28' W + 63.26' N$ of SE Cor
 So, Sta B is
 $3537.05' N$ of E 1/4 of $N 1^{\circ} 20'$

$N 1^{\circ} 20' E$

Sine $0.23269 \times 3537 = 82.32' E$

Cosine $999729 \times 353705 = 3538'$

Tang $0.23275 \times 353705 = 82.32$



Sta B is $3600.31' N$
 $1312.67' E$ of SE Cor

Sta B is $3537.05' N$ of E 1/4 Cor
 pto $3537.05' N$ of 1/4 is $82.32' E$

East of N.

pt. 3600.31 N of Sec. Cor. would
be 3537.05 N of E $\frac{1}{16}$ Cor.

distance from

pt 3600.31 N of Sec. Cor to 3537.05 N of
 $\frac{1}{16}$ Cor is 1358.28 E + W bet pts
1358.28 - 82.32 pt where E $\frac{1}{16}$ line
cuts E of N on $\frac{1}{16}$ line is 1275.96
ft W of Nine N of Sec Cor.

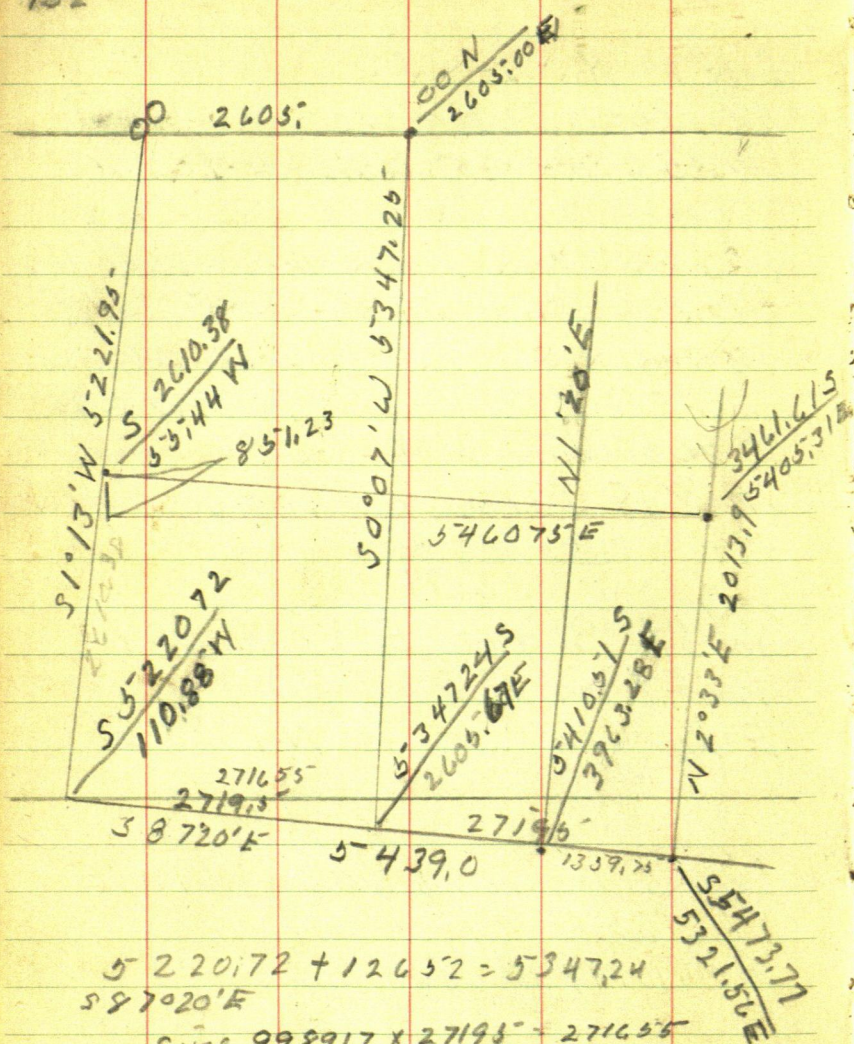
Sta 8 is 1312.67 ft W of pt N of Cor
- 1275.96

36.71

So Sta 8 goes E 36.71 ft to
point on E $\frac{1}{16}$ line
E $\frac{1}{16}$ line runs N $1^{\circ}20'E$

West Side Sec. 23 runs N $1^{\circ}13'E$
5221.95 ft to NW Cor.
at 2610.97 ft for $\frac{1}{4}$ Sig.

Sine 021233 x 2610.97 = 55.44 E
Cosine 999775 x 2610.97 = 2610.38 N
 $\frac{1}{4}$ on



$$5220.72 + 126.52 = 5347.24$$

$$587020'E$$

$$\text{Sine } 998917 \times 2719.5 = 2716.55$$

$$\text{Cosine } 046525 \times 2719.5 = 126.25$$

$$\text{Sine } 998917 \times 5439 = 5433.11$$

$$\text{Cosine } 046525 \times 5439 = 253.05$$

$$998917 \times 40.79.25 = 4074.83$$

$$046525 \times 4079.25 = 189.79$$

N 2°33'E 2013.9 =

Sin 041385 X 2013.9 = 83.75

Posin 999133 X 2013.9 = 2012.16

Set I M NE cor Lot 2 - Sec 23

2 x 30" 20 ft S of Water

N.P. 12 N about 50° E 16.55 <sup>back mount
1 ft up</sup>

Birch 6 S " 10° W 17.7 ^{apert at base}

Tisto apert 36.71 E of Sta 8

N.P. 18 N about 50° E 21.8 ^{no}

NP 7 N " 20° W 29.1 ^{apert}

2°33

0°07

2 40

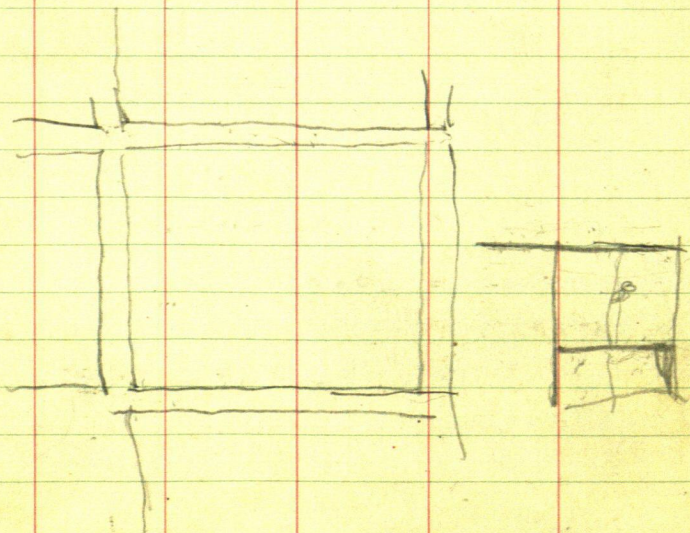
Book III of Deeds pg. 358.

Ramsford R. Gould & Clara J. Gould
toGustav A. Holmberg & Dolores H.
Holmberg

That portion of Lot 2 Sec. 23

140-29 described as follows

Commencing at the North west
corner of said lot 2: thence East
to the shore of Woman Lake: thence
Southeasterly along the shore of
said lake 300 feet: thence at right
angles Southwesterly to the West
line of said lot: thence North to the
place of beginning



2819.5' m.p.c. - 876.5' short
 3696.45' - 2419.5' m.p.c. to M.C. = 1276.5' short

23 24

26 28

3696 1276.5 3453733 short for each foot

$$3453733 \times 2640 = 911.79 \text{ short } 911.79$$

$$3696 - 2640 = 1056 =$$

36471

$$3453733 \times 1056 = 364.71 \text{ short } 1276.50$$

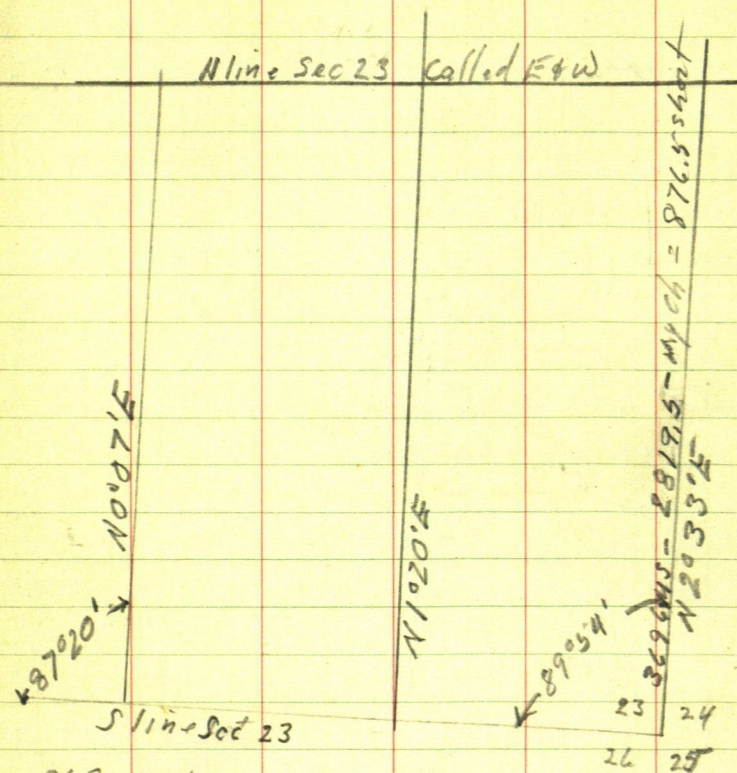
2640

911.79

1528.21

(Note) in JWC Notes pg 68 book 233

says he was off 400 ft which I found
 Not so in first sub 995.7



3696.45 ch

= 2819.5 my ch

$$876.5 \text{ short} \div 3696 = .023714826 \text{ share for each foot}$$

$$2640 \times .023714826 = 626.07 \text{ short to } 1/4$$

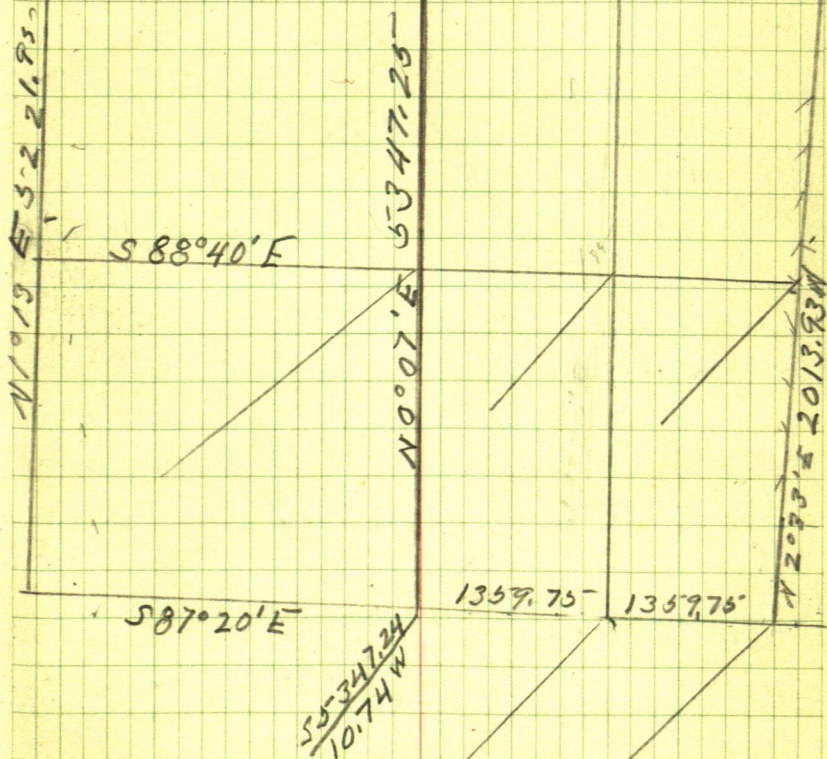
2640

626.07

$$201393 \text{ from SE cor to } 1/4 \text{ on E side Sec. 23}$$

Sec 23-140-29

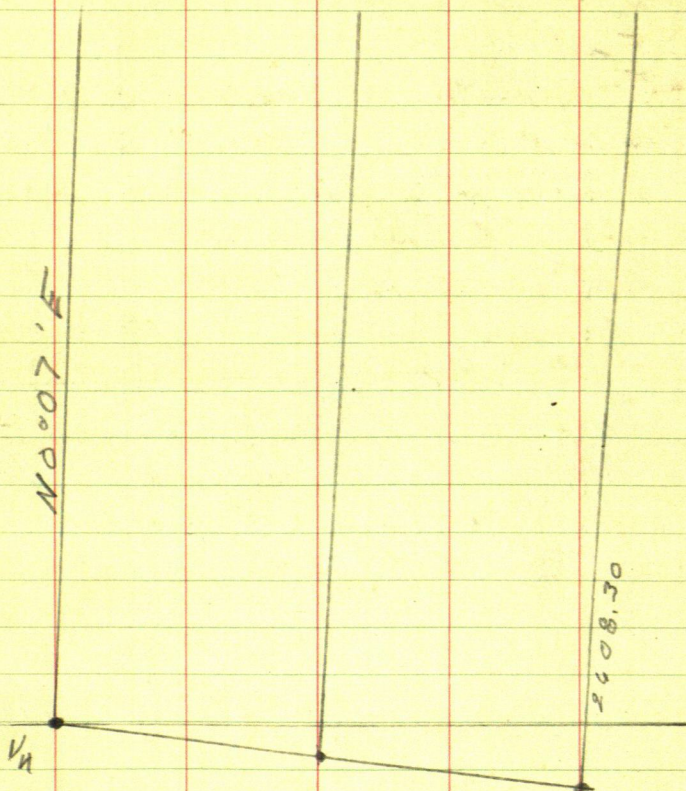
E+W

~~00~~
~~00~~

138

Correction West line

Sta 4 = 3024.1 N of $\frac{1}{4}$ S. side sec 23
 goes West. 6.15 ft. should be about 6.1



Nov. 3-1954

Roy Johnson has been trying to get me for some time Bill Spain

Set a corner on E $\frac{1}{4}$ 1st Sec 23
50 ft \pm West of where I put my corner
this spring.

I drive to Hackensack hawwheel
fixed R.F. on ford drive to Roy Johnson
Roy is in lot 2 fixing roads drive there
Roy + I go look over Bill work drive
to ridge Sec 23 set flag at SE cor.
as we can not see flag at $\frac{1}{4}$ S. side
set flag at E $\frac{1}{4}$ work T on line
between the 2 flags and set bush
on top of hill in road and one
800 ft \pm West point for night.
was nice this morning but turned
cold.

140

Nov 4-1954

Roy & I chain from hub
onto E down hill - 541.17 to
corner - SE Cor Rec. 23.

From hub on top chain went
 $541.17 + 300 = 841.17 + 300 = 1141.17$
 $+ 198.58 = 1339.75$ at for $\frac{1}{16}$ Cor
Tower 1339.75 BS S $87^{\circ}20'E$
ran N on E Vic line N $1^{\circ}20'E$

1359.75

1161.17

198.58

1359.75

1859.75

9858

1.42

141

angle 50°30'W span line

From 646 wooden Span in cor
chain West along Spanis line
@ 451.4 Spanis hut + 52.2 wooden
hut at my mean ridge water 10 ft \pm
run S 22° 09' E 131.9 to pt

Now 131.9 BS at 22° 09' W run continue
S 22° 09' E 168.9 = 300 ft

20 ft from water 4 ft from top
ancient shore line bank 20' \pm
high

Now 300 BS along my line
4 ft from brink turn 90° run SW
232.35 to hut on Bill Spain's Section

Go to E 1/4 line and continue it
North at hut Marked 250' at hut
our hut at 2.4 ft West

Now 250 on hut turn 90° run
west 125 hut + 100 hut = 225

Now 225 turn 90° run N parallel
to E 1/4 line to point on
shore 15' from water

142

$$\begin{array}{r} 80 \\ -21 \\ \hline 59 \end{array}$$

Tower pt on shore site S
lake shore runs S $73^{\circ} 15'$

Fig

$$\begin{array}{r} 72.60 \\ 1.20 \\ \hline 71.40 \end{array}$$

73°

sin $95^{\circ} 43' 05'' \div 225 = 235.28$

Cosine 292372

From 225 W of E $\frac{1}{4}$ line chain N
@ 77.9 but stake line? @ 3.22.5
pt on shore

From pt on shore chain E 235.28
at pt for true line & cor
from cor chain W along, shore
158' from water 125 + 100 at
points From T 125 bears.
S $65^{\circ} 46' E$ the 100 ft line is 12.2
S $65.46' E$ T Telescope run N
N $65^{\circ} 46' W$ 87.7 - 25 from water = sta 3
Tower 3 BS S $65^{\circ} 46' E$ run N $54^{\circ} 35' W$
100 to sta 4 - 100 to sta 5 - 20' water
Tower 5 run N $48^{\circ} 30' W$ 100 ft
to sta 6

Sat Don & I to Ray Johnson
Ray has to put his boats away
and can not help

Tower point on lake shore 225' W
of E line and N Parallel to E line
courses on pg. 142 are turned from E line
or N 85 - As E line runs N 1° 20' E
check angles Tower said point
Site S 1° 20' W on line parallel to E line
Stake line run S 64° 26' E - 112.2 + 12.2
and runs N 64° 26' W 87.7 to sta 3
Tower Sta 3 BS S 64° 26' E run
N - 53° 15' W @ 100 - Sta 4 @ 200 Sta 5 -

Tower 5 BS S 53° 15' E run N 47° 10'
W 100 to Sta 6 Tower 6 run N 43° 18' W
100 to Sta 7 Water 15' R

Tower Sta 7 run N 40° 12' W @ 100
Sta 8 water 12 R @ 200 Sta 9 water 15 R

Tower Sta 9 BS S 40° 12' E run
N 31° 11' E @ 100 Sta 10 water 12 R
@ 200 Sta 11 water 15 R 300 Sta 10 Brink 25 W
@ 400 Sta 13 water 25 R Brink 4
@ 500 Sta 14 Brink 15 water 45

Tower Sta 14 BS S 31° 11' W run
N 23° 47' W @ 100 Sta 15 - 8" Brink 20 water
@ 200 Sta 16 water 10 R
run N 24° 46' W 100 water 25 R

144

Run N $16^{\circ} 47'$ W 223.5 to pt 300
SE. 25 \pm ft run water

@ 100 sta 17 - Water 20 ft.

Tower 223.5 pt on N + S & bears
S 68° W

T still @ 223.5 peg on line along
shore 170 ft - bears N 22° W

170. - 2.45 = 167.35 - hut

Tower hut 167.35 - To building
SE cor

N $81^{\circ} 19' E$ 90.9

SW cor

19 X 37

N $55^{\circ} 43' E$ 99.2

Log cabin

NE cor N $22^{\circ} 43' E$ 40.1

SE cor N $12^{\circ} 53' E$ 35.3

9 X 7

SW cor N $6^{\circ} 16' E$ 43.4

Garage

NE cor N $17^{\circ} 29' W$ 51

SE cor $19^{\circ} 50' W$ 34.9

16 X 10

SW cor N $35^{\circ} 23' W$ 37.5

This belongs on pg 146

Monday Nov 1954

145

I drive to Ray Johnson Evergreen
Lodge Ray has left to show Forbes

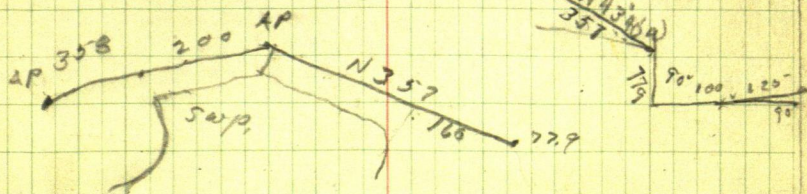
where to bulldoze I drive to Lot 2

Sec. 23-140-29 stop at old house
on top pack outfit E to the 225 ft strip
on E side Lot 2

Tower 77.9 (see page 142) BS S1°20'W
and run N1°20'E 45' to end of driveway

Still at 77.9 run N43°40' W @ 160
~~NE~~ cot of supplies S 20' run run about
90° with atob line +20° W @ 300 pin
12' N of amp. @ 357 A.P. run 12' S.

Tower 357-A.P. BS S43°40'E + run
N47°25' W @ 200 supplies S. 25'
@ 300 pin @ 358 A.P. S.



Tower 358. + 20 supplies S 30' @ 18 supplies
SE ±

Still @ 358 BS S47°25'E run N30°41'W
@ 210 amp 12 S @ 325 A.P.

146

214.75

Torch 325 AP BSS 30°41'E run

N 38°03'W 230' to AP

@ 30 - sup. 15 S bears \angle 80° to run SW

Tower AP. 230 BSS 38°03'E run

N 68°46'W 167.35' hub

Tower hub 167.35 continue N 68°46'

W + 214.75 to hub on Bill Spain's

N 8 S \angle

Bill's line seems to run N 64°4'E

hub 214.75 is N 13.75' from Bill's hub
marked 802.3

Chain N. on Spain's cut at line

422.9 to our point - NW cor Rays
land.

90
100
40
13

US: Notes

214
284

147

K-W 2 = $\frac{1}{4}$ bet Sec 14-23-140-29

WP 24 N 20 E 14 = 924

Maple 5 S 3 E 53 =

153
2
318
318
3498

MC N^o 17 bet Sec 14-23-140-29

WP 5 S 28 W 24 1584

NP 18 N 67 W 44 = 29.04

Ray & I To NW cor Sec 23

Travel IM on sec line BS W on I Mac

Sec line offset 14 ft out spike

set hub on sec line offset 14 ft spike

set hub on line at intersection of 4 roads

chain up.

From hub on top chain W 220 pin +
+160 = 380 - 55.5 = 374.5

From hub on top chain E @ 150

Bill Spains hub mtd 1185.3 into 3.4 W &

7.1 N of imp pin 524.5 E of IM.

+105.55 = 630.05

Spike on offset 14 ft N of Sec line

is 108.9 E of Spains stake mtd 1186.3

to hub at intersection is 1294.2 E of Cor

1302.5 - 1294. = 8.3 pt for $\frac{1}{4}$ cor

From hub 1294.2 @ 151.25 hub. 150 + 300 =
450 + 50.45 = 500.45 hub edge of cut in curve

148

973.7
180
337

225

of road. + 150 = 650.45' run +
 92.65' = 743.10' hub + 1230.6 =
 973.7' hub. + 180 = 1153.7 -
 2.0 = 1151.7' hub + 160 = 1311.7 -
 2.25' = 1309.45'

Nov. 11. 1954

Roy & I to N line Sec 23-140-29

Tower hub. 1309.45' to son on line W

IM 1X - sets 3.8E & 9.5S. =

@ 2607.46' IM 1/4 sets S. 9.5'

.0003643406

2607.45' / 95.0000

Corrections

hub 1151.7' is 24,45.9 E & 2065.87
to line

Tower IM BSW on true line point
 on shore is 3.48' SE of along shore
 from our wood hub

True to IM 1/4

Maple 20 S 9°30' E (24.45)

Red Oak & Crock E at bottom

N 16°47' W 42.7

As still over IM 1/4 run 50°07' W
 on true N & S & Sec. 23

1294.2
1151.7
2445.9

1151.7
160
1311.7
225
1309.45
1294.2
2603.65
38
2607.45

362
2605
2603.65
1.35

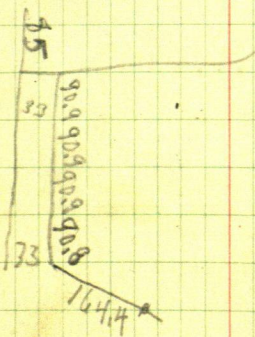
1302.5

1294.2
1151.7

2445.9
160
2607.0

1294.2
1151.7
2445.9

Nov 11th 1954 Continued
S on N+S & set hubs
To over SE cor of 300 ft tract
Turn 90 run SW
To over NE cor lot 16-17? BS S
Flag @ 300 ft tract SE cor bears
N 16° 41' W
To back over SE cor 300 ft tract 223.6
SW cor @ 90° like before S 67° 56' W
Frank's chain S 362. ft to SW cor 300' tract



3
90.9
90.9
90.9
90.8
363.5

150.

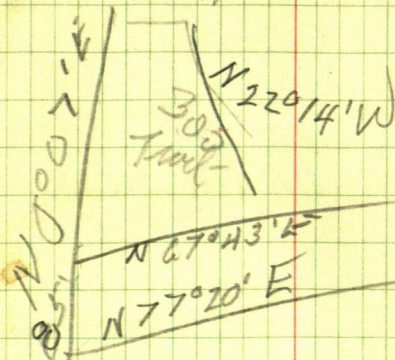
Traverse AP in Lot 8 site N 38° 41' W
& run S. 36° 30' E to Lot 7-8

run cons

Traverse - 7-8 run S 50° 14' W

Sunny Acres
 Alice S. Johnson
 Roy S. " "

93.1 ft



Tower SE cor 300 ft trail
 BS S 67°43' W
 line bet 17-18 bears 16°47' E

48.4

74

122

132

Checking

Tower SW cor Lot 14

Site $N 0^{\circ} 07' E$ NW cor bears

S

SE cor bears $S 68^{\circ} 46' E$

Tower NE cor 17 site $N 16^{\circ} 42' W$
SE cor bears $S 25^{\circ} 46' E$

Tower SE cor lot 17 BS on NW cor
NW cor lot 14 bears $S 23^{\circ} 45' E$ 200 ft

Tower 13-14 BS $N 23^{\circ} 45' W$ run S
 $31^{\circ} 08' E$ 100 ft.

Tower 13-14 BS $N 31^{\circ} 08' W$

SE cor to 13-14 bears about $S 65^{\circ} 24' E$

West's Breezy Heights Portage 153

Lot 2 Section 22-140-29

June 18th 1957

Don & I go to courthouse where I copy plat of West's Breezy Heights Portage drive to Art Malmo's place in Lot 1 Sec 22-140-29 in plat of Prairie Teepee on Lake IXL Art goes with us in his own pickup and shows us Gal capped I M's on N4S & Sec. 22-140-29 one on the shore of Woman Lake and one out in the water of Lake IXL this N4S & being the East line of Plat of West's Breezy Heights Portage. we find irons along the back line of lots on both sides of Shady Grove Drive. we cut out this line but find that none of the iron line up Art Malmo says he drove the irons where he found the old wooden stakes. that in brushing out road on his at summer homes on the lakes might have moved the old wooden stakes before he drove the I M's We chain South from I M on Woman Lake and find it 1.2 ft short chain 5 across road and find I M 5 short between I M. we try and work K on line between Gal I M's but high trees cut notch in same but can not see start to cut

134.

Down tree landowner came out and
so we go around tree and find distance
between I Pts O Has given on Plat
Note: birch tree is on the N & S E between
the plat of Minnie Teepee and West
Breezy Heights Portage about 5 ft South
of street line

June 19th 1957

I go to Office and try and figure
where back line of lot runs as the plat
on file does not give courses or angles
pick up Ed & we drive to West Breezy
Heights Portage to try out angles.

Travel True point for SE cor lot 1 Bk 1
according to Plat site Non flag at MC
and turn L $87^{\circ}40'$ and see where we hit
out.

$$\begin{array}{r} 3 \quad 3 \\ 5-7.5 \\ \hline 4 \\ 230.0 \end{array}$$

AP Protractor angle reads $18^{\circ}30'R$

A. still at NE cor lot 1 BIKI run
 $N 82^{\circ} 30' W 230'$ to A.P.

- 1830

64'00 run $N 64^{\circ} 00' W$ went workout

run $N 44^{\circ} 37' W$ $98.5 + 98.5 =$

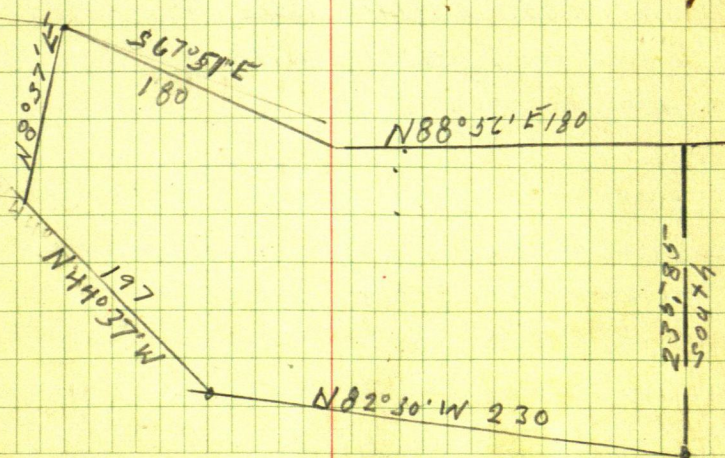
98.5

197.0

all lots from 6 W to 17 are 62.6
 along street and 60 along shore

Thurs. June 20 - 1957

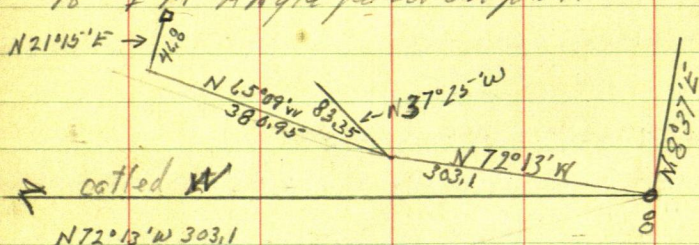
Go to Office check figures



Don & I to West Breezy Heights Portage

Lower SE cor lot 7 BS S 44° 37' E and run N 72° 13' W 303.1 to pt
Lower pt BS S 72° 13' E & run
N 37° 25' W. 83.35 to IM. lot cor
Still at pt 303.1 run N 65° 09' W
380.95 to pt,

Lower pt. 380.95 run N 21° 15' E 46.8
To IM Angle point on plat.



① $\sin 952218 \times 303.1 = 288.62$ W

$\cosine 305418 \times 303.1 = 92.57$ N

④ N 37° 25' W 83.35

$\sin 607607 \times 83.35 = 50.64$

$\cosine 794238 \times 83.35 = 66.20$

② N 65° 09' W 380.95

$\sin 907411 \times 380.95 = 345.68$ W

$\cosine 420244 \times 380.95 = 160.09$ N

③ N 21° 15' E 46.8

$\sin 362438 \times 46.8 = 16.96$ W

$\cosine 932008 \times 46.8 = 43.62$ N

622.
618

157

NE cor lot 7 = 00

sta 1 = N9257

283.8

W28862

1. 16009 N

34568

1. 2 252.66 N

63430 W

4362 N

1696 E

296.28 N

617.34 W

.47993

617.34 / 296.28.0

68463

6838

.83

.47993 X 61734 = 296.280K = 25°37' -

N 25°37' W

Sin 432348 X 68463 = 29500

cosin 901707 into 617.34 = 684.63

Tan 479477 X 617.34 = 296.00

89°60'

25°37'

64°23'

Then SE cor Lot 7 BS 544'37" W and run

N 64°23' W along st. line of Lots 62.2' to SW cor

as the side line of Lot 7 are both 135 ft long, and the back line is 62.2 and the line along the shore is 60 ft making

138

a difference of 2.2 ft in 135 ft.

$$135 \sqrt{.016296296 = 0^{\circ}56'}$$

 $0^{\circ}56'$

$$\sin = 0.16289 \times 135 = 2.199 \text{ or } 2.2$$

$$\cos = 999867 \times 135 =$$

as the E line runs $N 8^{\circ}37'E$

the West line will have to run $0^{\circ}56'$ further
 E which would make it $8^{\circ}37'$
 $0^{\circ}56'$
 $8^{\circ}93' \text{ or } 9^{\circ}33'E$

Tower SW cor lot 7 B S S $64^{\circ}23'E$ andrun $N 9^{\circ}33'E$ to lake we at this only West line

.8 @ 48.15 but pt for I M

+ 71.6 " " " " " 20 to water
 E line

SE cor 41.3 pt for I M +

+ 63.9 " " " " +

+ 24.6 + 15 to water

Clifford H. Peterson

Route 5 - Anoka

Minnesota

To Lake Netta Hardware

160 Part of Govt Lot 3 Sec. 26 140-29
John Ke's on Blackwater
A 200 ft Track John Ke sold
owner wants descriptions of this
Tract divided in $\frac{1}{2}$

Descriptions

Tractor parcel situated in Govt lot 3
Sec 26-140-29 described as follows
being a part of tract described in Book
118 of Deeds on page 242 —

beg at IM on shore of B.W.L. pland 77017
E + 382.85 S of NW cor lot 3 thence
N $56^{\circ}17'W$ 194.7 to IM thence N $25^{\circ}51'E$ 100
to pt thence S $56^{\circ}24'E$ 252.8 to pt on lake
shore thence S $57^{\circ}52'W$ 109.11 to pt of
beg. = $\frac{1}{2}$ ac. I

Tract beg. 954.55 E + 26736 S
of NW Cor lot 3 thence N $56^{\circ}17'W$ 310.9
to IM thence S $25^{\circ}51'W$ 100 thence
S $56.24 E$ 252.8 to pt at lake shore
thence N $57^{\circ}52' E$ 108 to beg. = $\frac{1}{10}$
ac. I

Oct 23¹⁹⁶¹ B. lot I to John Ke's run N $25^{\circ}51'E$ 300
run S $56^{\circ}17'E$ - 17 ft NE of IM on wall
run N $67^{\circ}26'E$ 300'

DIRECTIONS FOR USE OF TABLES

77077 E 38285-5
55424'E

IMPROVED TABLES

AND

INFORMATION

231

L

1386

1386

15246

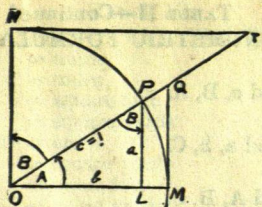


TABLE II

TRIGONOMETRIC FORMULÆ.

$$\angle A = \angle MOP \quad \angle B = \angle PON = \angle OPL$$

$$R = OB = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \frac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \quad \cos \frac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \frac{1}{2} (A+B)}{\tan \frac{1}{2} (A-B)}$$

63- 89.35
-6

TABLE XII.
INCLINED DISTANCE OF 100 FT. REDUCED TO HORIZONTAL

Slope	Horizontal Distance	Correction	Rise Per Foot	Slope	Horizontal Distance	Correction	Rise Per Foot
0°00'	100.000	0.000	0.000	8°00'	99.027	0.973	0.139
15'	99.999	0.001	0.004	15'	98.965	1.035	0.143
30'	99.996	0.004	0.009	30'	98.902	1.098	0.148
45'	99.991	0.009	0.013	45'	98.836	1.164	0.152
1 00	99.985	0.015	0.017	9 00	98.769	1.231	0.156
15	99.976	0.024	0.022	15	98.700	1.300	0.161
30	99.966	0.034	0.026	30	98.629	1.371	0.165
45	99.953	0.047	0.031	45	98.556	1.444	0.169
2 00	99.939	0.061	0.035	10 00	98.481	1.519	0.174
15	99.923	0.077	0.039	15	98.404	1.596	0.178
30	99.905	0.095	0.044	30	98.325	1.675	0.182
45	99.885	0.115	0.048	45	98.245	1.755	0.187
3 00	99.863	0.137	0.052	11 00	98.163	1.837	0.191
15	99.839	0.161	0.057	15	98.079	1.921	0.195
30	99.813	0.187	0.061	30	97.992	2.008	0.199
45	99.786	0.214	0.065	45	97.905	2.095	0.204
4 00	99.756	0.244	0.070	12 00	97.815	2.185	0.208
15	99.725	0.275	0.074	15	97.723	2.277	0.212
30	99.692	0.308	0.078	30	97.630	2.370	0.216
45	99.657	0.343	0.083	45	97.534	2.466	0.221
5 00	99.619	0.381	0.087	13 00	97.437	2.563	0.225
15	99.580	0.420	0.092	15	97.338	2.662	0.229
30	99.540	0.460	0.096	30	97.237	2.763	0.233
45	99.497	0.503	0.100	45	97.134	2.866	0.238
6 00	99.452	0.548	0.105	14 00	97.030	2.970	0.242
15	99.406	0.594	0.109	15	96.923	3.077	0.246
30	99.357	0.643	0.113	30	96.815	3.185	0.250
45	99.307	0.693	0.118	45	96.705	3.295	0.255
7 00	99.255	0.745	0.122	15 00	96.593	3.407	0.259
15	99.200	0.800	0.126	15	96.479	3.521	0.263
30	99.144	0.856	0.131	30	96.363	3.637	0.267
45	99.087	0.913	0.135	45	96.246	3.754	0.271

TABLE XIII.
MINUTES IN DECIMALS OF A DEGREE.

0 30"	.00833	10 30"	.17500	20 30"	.34167	30 10"	.50833	40 30"	.67500	50 10"	.84167
1 00	.01667	11 00	.18333	21 00	.35000	31 00	.51667	41 00	.68333	51 00	.85000
30	.02500	30	.19167	30	.35833	30	.52500	30	.69167	30	.85833
2 00	.03333	12 00	.20000	22 00	.36667	32 00	.53333	42 00	.70000	52 00	.86667
30	.04167	30	.20833	30	.37500	30	.54167	30	.70833	30	.87500
3 00	.05000	13 00	.21667	23 00	.38333	33 00	.55000	43 00	.71667	53 00	.88333
30	.05833	30	.22500	30	.39167	30	.55833	30	.72500	30	.89167
4 00	.06667	14 00	.23333	24 00	.40000	34 00	.56667	44 00	.73333	54 00	.90000
30	.07500	30	.24167	30	.40833	30	.57500	30	.74167	30	.90833
5 00	.08333	15 00	.25000	25 00	.41667	35 00	.58333	45 00	.75000	55 00	.91667
30	.09167	30	.25833	30	.42500	30	.59167	30	.75833	30	.92500
6 00	.10000	16 00	.26667	26 00	.43333	36 00	.60000	46 00	.76667	56 00	.93333
30	.10833	30	.27500	30	.44167	30	.60833	30	.77500	30	.94167
7 00	.11667	17 00	.28333	27 00	.45000	37 00	.61667	47 00	.78333	57 00	.95000
30	.12500	30	.29167	30	.45833	30	.62500	30	.79167	30	.95833
8 00	.13333	18 00	.30000	28 00	.46667	38 00	.63333	48 00	.80000	58 00	.96667
30	.14167	30	.30833	30	.47500	30	.64167	30	.80833	30	.97500
9 00	.15000	19 00	.31667	29 00	.48333	39 00	.65000	49 00	.81667	59 00	.98333
30	.15833	30	.32500	30	.49167	30	.65833	30	.82500	30	.99167
10 00	.16667	20 00	.33333	30 00	.50000	40 00	.66667	50 00	.83333	60 00	1.00000

$$\begin{array}{r}
 130 \\
 65 \\
 \hline
 195 \\
 108.83 \\
 \hline
 108.83
 \end{array}
 \qquad
 \begin{array}{r}
 300 \\
 10.885 \\
 \hline
 191.15
 \end{array}$$

$$\begin{array}{r}
 130 \\
 12 \\
 \hline
 120 \\
 1010
 \end{array}
 \qquad
 \begin{array}{r}
 2752.7 \\
 5505.4 \\
 5482.8 \\
 \hline
 22.6
 \end{array}
 \qquad
 \begin{array}{r}
 86.6 \\
 29.5 \\
 \hline
 116.1
 \end{array}
 \qquad
 \begin{array}{r}
 995.7 \\
 4 \\
 \hline
 999.7
 \end{array}$$

$$\begin{array}{r}
 214 - 38 \\
 \hline
 176 \\
 84 \\
 \hline
 9.24 \\
 25.08 \\
 1885 \\
 \hline
 174.7
 \end{array}$$

$$\begin{array}{r}
 1511.36 \\
 1369.75 \\
 \hline
 15161
 \end{array}$$

$$\begin{array}{r}
 75 \\
 100 \\
 115 \\
 60 \\
 \hline
 310
 \end{array}$$

$$\begin{array}{r}
 210 \\
 182.13 \\
 \hline
 392.13
 \end{array}$$

$$\begin{array}{r}
 51136.850 \\
 5100 \\
 \hline
 51.1
 \end{array}$$

$$\begin{array}{r}
 190 \\
 135 \\
 \hline
 225 \\
 1320 \\
 895 \\
 \hline
 1409.5
 \end{array}
 \qquad
 \begin{array}{l}
 \text{Tained @ 24155} \\
 \text{on NX84}
 \end{array}$$

$$\begin{array}{r}
 850 \\
 5100 \\
 510 \\
 \hline
 1150
 \end{array}
 \qquad
 \begin{array}{r}
 6900 \\
 6900 \\
 \hline
 759.1
 \end{array}$$

$$\begin{array}{r} 41,7175 \\ 240 \\ \hline 4411,75 \end{array}$$

$$\begin{array}{r} 70 \\ 415 \\ \hline 65,85 \end{array}$$

$$\begin{array}{r} 170 \\ 36 \\ \hline 1464 \\ 5150 \\ 565 \\ \hline 1050 \\ 1050 \\ \hline 115150 \end{array}$$

$$\begin{array}{r} 5311,75 \\ 1747 \\ \hline 5486,45 \end{array}$$

$$\begin{array}{r} 3 \\ 416 \\ \hline 276 \\ 276 \\ \hline 3086 \end{array}$$

$$\begin{array}{r} 98. \\ 14.8 \\ \hline 1028 \end{array} \quad \begin{array}{r} 53 \\ 3746 \\ \hline 3,28 \end{array}$$

$$\begin{array}{r} 1471,75 \\ 16614 \\ \hline 143790 \end{array}$$

$$\begin{array}{r} 29968 \\ 7492 \\ \hline 18730 \\ 68 \\ \hline 19778 \end{array}$$

$$\begin{array}{r} 17,71,75 \\ 232,2 \\ \hline 200395 \end{array}$$

$$\begin{array}{r} 2671,75 \\ 18105 \\ \hline 2752,80 \end{array}$$

$$\begin{array}{r} 2971,75 \\ 125 \\ \hline 298425 \end{array}$$

$$\begin{array}{r} 327175 \\ 2543 \\ \hline 3526,05 \end{array}$$

$$\begin{array}{r} 553 \\ 1885 \\ \hline 11210 \\ 11310 \\ \hline 124410 \end{array} \quad \begin{array}{r} 1142,3 \\ 1916 \\ \hline 13339 \end{array}$$

$$\begin{array}{r} 3 \\ 1150 \\ \hline 4900 \\ 490 \\ \hline 75900 \end{array}$$