

271

FIELD BOOK

ST 135

Mayer sec 4-139-29 This BK 271

See also Peterson BK-162-222

" " Hornberg 419

" " Huspeck-Windoske 226

See 414 Hare Nelson  
TR Huston Oma Lakouting Club  
No 271



PIONEERS  
SINCE 1831

# Field Book

## No. S 1135

88 LEAVES

Made in U. S. A.

LITHOGRAPHED IN WATERPROOF INK ON  
WATER-REPELLANT RAG PAPER AND SEC-  
TION SEWED.

1727  
2261  
39  
232



①

Please Note

This book belongs to  
John W. Curo Walker Minn  
If lost, finder please return  
for reward

or

Notify any of the Curo family  
at Jenkins or Walker

John W Curo  
July 1-1945

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

## Index

Time Pg

Board Pg

Omaha Lakeland Club Pg 14

N Pg

S

E Pg 3-

W

Old Notes See

Book 271-Pg 37.11. Fred Moyer

" 226 Clarence Peterson-Ryan

214 Harry Nelson

Address: Pg 18-19

Gertrude Baltzly 13F210  
Backus

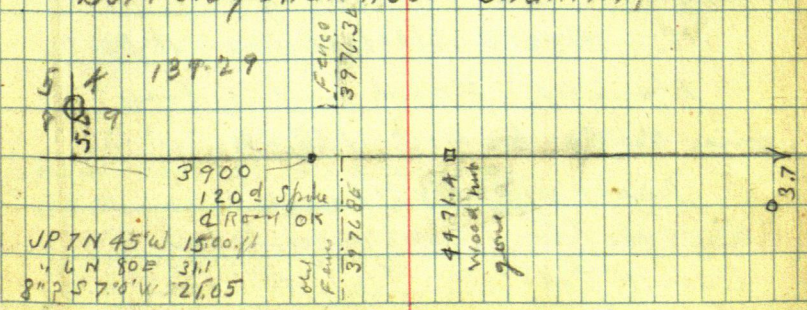


Long Lake Cass Co Minn  
Sec 4-139-29 r Mayer  
Working for MYERS (Fred) H  
See also - Book 226  
Windsorke Bros BK 226  
Huspeck Land COBK 226  
Peterson & Ryan BK 226

John W Curo \$15.00 day 8 hours  
25% for figuring = 6 hrs in field

Curo C@ \$2.50 car  
Hotel Exp 2.50

Harold J Curo Deputy Co Surveyor  
Cass Co Minn Same rate \$2.50  
an hour if working alone  
But: only \$1.00 an hour chaining &c



## Index

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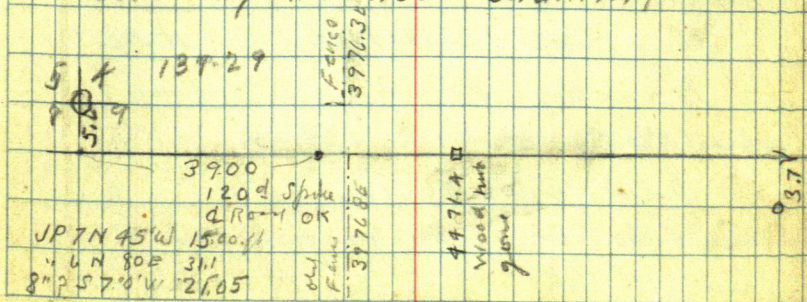
Long Lake Cass Co Minn  
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 See also - Book 226-

Windsorke Bros BK 226  
 Huspeck Land Co BK 226  
 Peterson & Ryan BK 226

John W Curo \$15 a day 8 hours  
 25% for figuring = 6 hrs in field

Curo C @ \$2.50 car  
 Hotel Exp 2.50

Harold J Curo Deputy Co Surveyor  
 Cass Co Minn Same rate \$2.50  
 an hour if working alone  
 But: only 81 an hour chaining &c





4

June 21-1945

I, JWC, and Harold L V Walker  
in my 1941 Ford Coup @ 2.P.M.

Call at Whipholt Bay Sand-  
wich & Call on Mr and Mrs

Becker who want their 200 feet  
Leech Lake shore surveyed

Then on to Jenkins Call on  
Doris - Mattie - Gertrude, John and  
young Dwight

Sleep over night in my  
Trailer House (Trailer now pd for fuel)

June 22-1945

Harold and I take trailer to  
Ponto Lake 139-29

Camp at Myers Resort on E Side  
Long Lake Sec 4-139-29

Mrs Myers starts dinner 11-30

Harold - Fred and I look  
over 1/4 Cor be 4-5-139-29

Dinner with Myers

We take trip to old Huber but 4-9

but I lost the valid Find old but

@ 5218, 8 & P 9 139 Book 226



June 22 1945 Could

P.M.

Look up old notes

Old Notes

3-4-9-10-139-29 BK 226-Pg 137

Book 414 Pg 76 Call for Ties

We locate RR Spike over 7m

True Cor 3-4-9-10-139-29

Then cut limbs along old road

West Bet 4-9-139-29 BK 214

Old Notes Book 226-Pg 139

" " " 414 Pg

West Bet 4-9-139-29 on old road

Random Line BK 226-Pg 138

Find big 120 d spike BK 226-Pg 137

@ 3900 Today we put in New Ties

8" ? S 7° W 21.05

JP 7N 45° W 15"

" 112° N 80° E 31.1

@ 3976.35 m on fence runs north and

@ 1

Old Notes - Book 226-Pg 139

20 d spike 5218.8 E new ties

30 Birch S 32° 39' W 11.42

5" Birch S 40° 33' (or 46° 33' E) 14.35 ft

@ 5294.6 E Cor S-3.70 BK 226-Pg 139

June 22-1945 continued

From Cor to 3-4-9-10-139-29 drive  
North about 80 Rods No chain  
Set Hub 60  $\frac{1}{2}$  spike in west wheel  
track of N-S Road Ties

① graded road bears  $S 89^{\circ} 25' E$   
700 feet +-

6" JP  $N 19^{\circ} 23' W$  35.30'

12" JP  $S 59^{\circ} 41' W$  15.75'

I call on O. C. Soules of Marshalltown  
Ia just arrived at cabin on Route  
says Mrs C. H. Eckles of Ida  
Grove Ia owns adjoining Land  
Gov Lot 1- Sec 9-139-29

I met Mrs Eckles a year  
ago and she thought maybe it would  
be well for me to plat her land  
into lots. No price was mentioned  
I must see her Re: Platting.

John W. Carr



Meyers

7

Time Working For Fred Meyers Sleep in My Trailer Ho

1945 June 21 22 23 24

John D. Gurox

1100 ft  
5 9

Car

2.50 2.50

Expense

2.50 2.50

Harold J. Gurox

@ 31.

5 9

Fred Meyers owner

5 8

Angus Cronk

- 88

Meats With Mrs Meyers

JMC

@ 60c

D DB  
S S-

Harold

@ 60c

D DB  
S S-

8

June 23-1945

Terns  $\frac{1}{4}$  bet Sec 3-4-139-29

= 60 d spike 0.50 800' E-W Fence

2 main road S  $63^{\circ}35'E$  90 ft2 angle road S  $63^{\circ}W$  14 ft Two

60 d spike in heart of old 14 JP

Shump bear S  $43^{\circ}44'W$  38.35

Old scribed sp on NE side

10 ft of body of tree lies near

Not US BT.

Old Fence runs S  $87^{\circ}40'E$  700 ft

Then croaks NE Old rotten

7" cor post of fence bears S  $89^{\circ}05'E$ 

24.30 to heart of post

8" Pop N  $80^{\circ}34'E$  90.1Pack  $\times$  to Top of Hill 90 rods

+- North 977.7 So of Terns NE cor

4 Sec 4 - Two

Pop 5 N  $40^{\circ}50'W$  50.50 ft" 7 S  $68^{\circ}48'W$  25.45

Angus CROK Single Backers

P.O. has worked for George Calvert

Lives year round on Point



N Meyer  
137-29

9

Tanxwood 51k

22.44

SW COR POST  
FENCE

Find 1 1/4 x 30" Solid  
Iron rod on ground

60d SPIKE on my random  
5" POP SW 47.9

6" POP NW 49.6

9" DEAD POP N 60° E 19.2

7" POP S 70° E 46.05

FROM TEMP COR SECS

3-4 T 137-29 CHAIN

SOUTH ON RAIL

WHICH WAS RUN NORTH

5117 To TOP of 3" TALL SKP

+300 = 417.7 + 260.7 = 677.7 + 300 = 977.7 South

+214 = 1191.7 + 193.85 = 1385.55 Hub 60 d Spike

110 ~ 4 FENCE ?

+202.10 = 1587.65 Hub in clover field

+137.3 = 1724.95 S Hub 75 ft North

of small lake - bears NE-SW

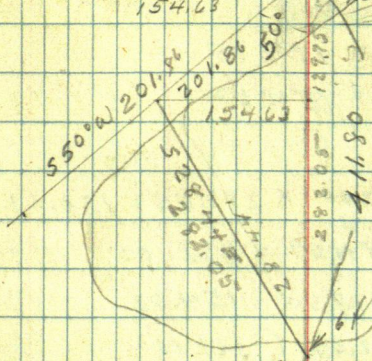
TO OVER 1724.95 S RUN A S 50° W 201.86

Sine 6428 x 201.86 = 129.76

1724.95 S

cos 51600 x 201.86 = 154.63

75 To water +



370.25  
411.80  
1724.95  
2507.00

From Temp 1/4 COR 0.50 S of EW FENCE - Ham

North on random @ 132.25° HUB @ 300 PIN

+70.25 = 370.25

To stake 6 ft from  
water

370.25  
132.25

Temp 1/4 COR  
0.50 S of EW  
Fence

June 23-1945 cont'd  
 Harold and I eat supper with  
 Mr. Myers. After supper  
 Triangulate small lake shown  
 on page 9 This Book 271. Then  
 pull our Trailer 140 15 Hack  
 where we leave it with Chet  
 Flasher. Then drive home to  
 Walker.

June 24-1945

FIGURING triangle Pg 9

$$S 50^{\circ} W 201.86 \quad 40^{\circ}$$

$$642798 \times 201.86 = 129.75$$

$$766044 \times 201.86 = 154.63$$

$$28^{\circ}44' \text{ Tang } 548240 \times 282.05 = 154.63$$

$$\text{Cot } 1.824017 \times 154.63 = 282.05$$

$$\text{Sine } 480734 \times 321.26 = 154.63$$

$$\text{Cos } 876867 \text{ in } 282.05 = (321.66$$



N. Meyer  
139-29

11

Temp Sec ca

④  
2x20.100  
50 BY 888

22.4

③

22.4

76  
30.0

Fence corner

2507.00

1320.05 1178.10 US

2498.10 US

Temp 44

0.50

1320 US

2640. US

Road

4

3

9

10

139-29

Fred Meyer 13  
4-139-29

Oct 21-1946 Monday

Harald and I in his car

Call on Peet Kruckow

Peet says Mrs Eckles of  
Ida Grove Iowa wants her  
land surveyed

Lot 1. Sec 9 = 25.65' 139-29

Lot 1 " 10 = 1.80' 139-29

Joe F. Dilworth Lives on west  
side of Ponk Lake - is Mrs  
Eckles caretaker Backus po.

Call on Fred H. Myers who is  
care taker for Omaha

Lakouling Club

Fred says Cliff Mclenger  
who now lives in  
a rooming house next to Dan  
Delury at Walker built the  
fence near the wall Co.

See 4-139-29



14

1

Oct 22-1946

Omaha Lake & Lagoon  
Club owns East Half of  
West Half of /

Sec 3-139-29

I agree to plat the Lake Shore  
and establish their West  
line for \$350. Too cheap!

At Walker I call Dan Delany  
w. - someone brings Mr  
Cliff Mullenger to the phone  
Cliff says that:

He and B.B. Bailett

established NW Cor Sec 3-  
139-29 many years ago

Exactly 30 ft West of SW Cor  
post of his fence and drove an  
iron and that the Co Road  
was the Center of Sec 3  
was run by Stoddard &

Omaha Lehigh Club  
Corner SE. NW. 4 Lots 3 x 9  
Sec 3-139-29

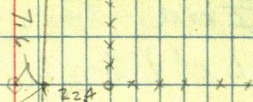


Ties on pg 9

2507.20 so  
Channel

Ties on pg 8

Ties on page 6



18

5

Address

25

1152

P96 Mrs C. Heckles Ida Grove Ia

Ida Grove Iowa Pop 2206

Own Lot 1, Sec 8-139-29

Lot 1 " 9 " "

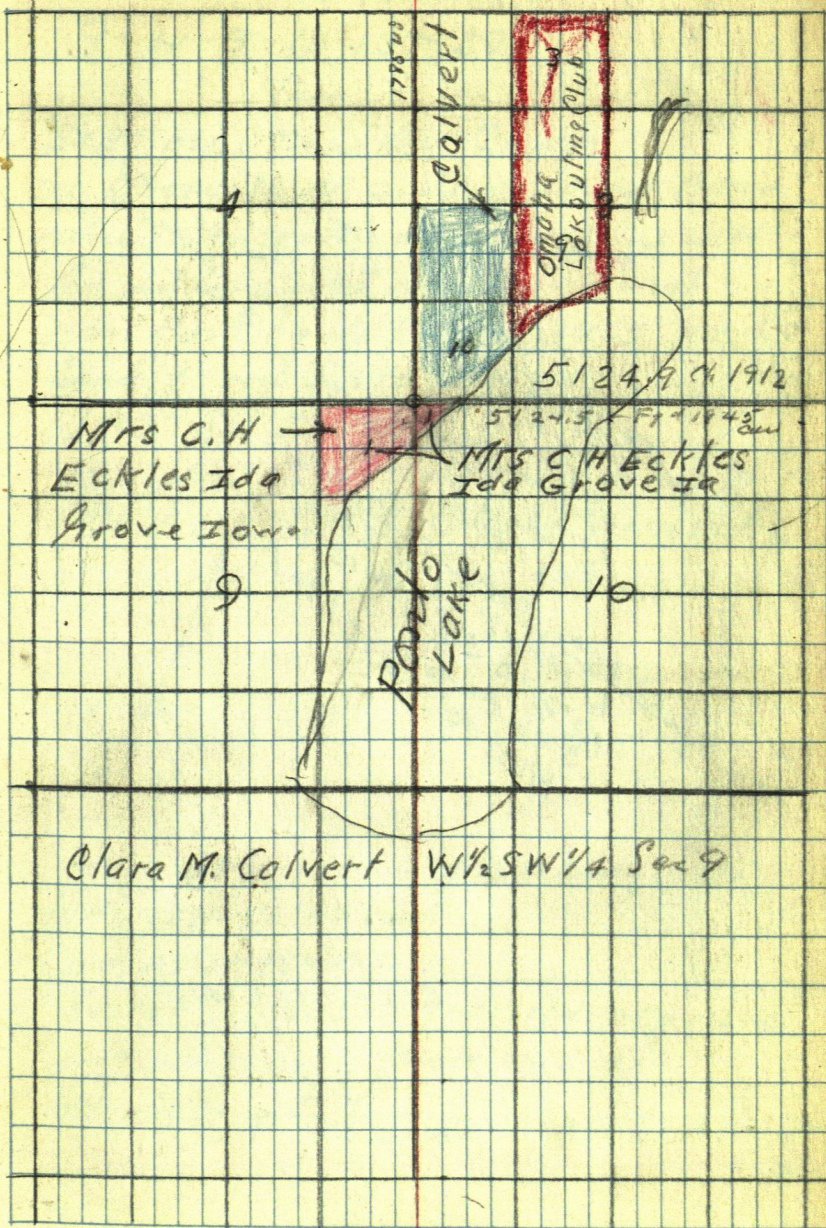
O. C. (Soules Mr Heckles Brother)

Marshalltown Iowa Pop 17373

Ida Grove Center of State  
of Iowa Pop 2206

Marshalltown Ia Center of State  
Pop 17,373







22

Pond Lake 139-29

5138.10 FT US  
Tidal

76

$28404 = 0.10'$

Temp 11- 99.8 60 d spike  
0.50 S 4 E W F S 6.35 E 99 d 14" J P stump  
60 d. SPIKE IN 39.35 24.30 T. Heart 1 post  
543 S 99.05 E 90.1  
9" pap N 8  
see p 8

Temp 11

3.8

1325.49

3.76

1325.51

Spike on Random Temp 11/16  
6 JPN 19.23 W 35.30  
12 JPS 59.41 W 15.75  
see p 8  
MUST 90 West 1.90 W

4

3

5124.5 Feb 1945 con

5124.9 chd 1912

9

Recorded



3-4-9-10 139-29

Turn

2x30" pipe Turn See Corner

In line with N. side of short Road  
running East and in line with

So side of road running west

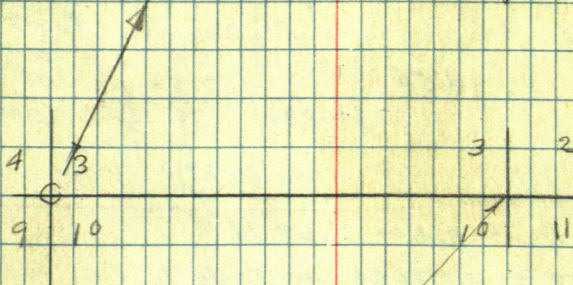
East Post 99 abt 8" NE. 39.65 FT

Oak 7" NW 43.90 ft

JP 3" SW 55.70 FT

Birch 5" S about 33° E 58.10 ft

Old U.S. B T S Check perfect



Ties 2-3-10-11 Book 99 P 981 Record N 2857

JPL 1482°48'E 53.60

P 9 B P 9 211  
" 207

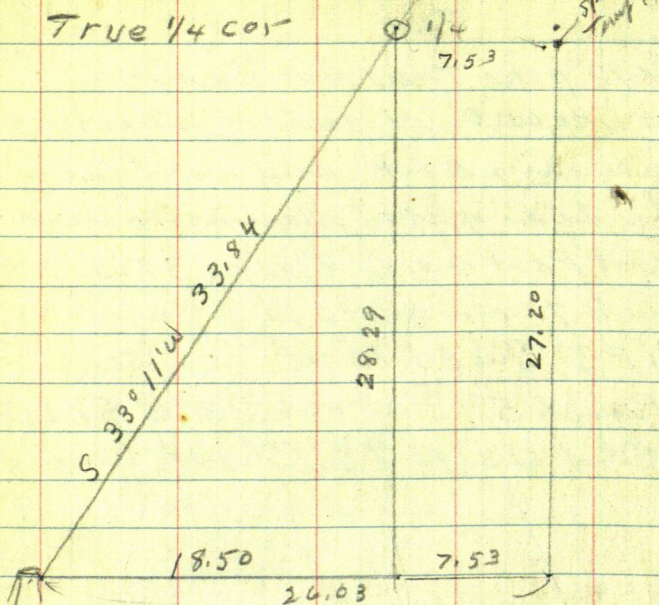
NP 14841°25'W 75.75

SW Cor Sch Ho Enterece N 46°05'E 102.10

V 18°E P 981 Bk 99 Mar 19-1912 by

John W Curo Co. Surveyors

TEMP COR P 951 Bk 14 AUG 5 1942

True  $\frac{1}{4}$  cor

Tang  $\frac{1}{4}$  cor goes 1.09 N  
 and 7.53 W to pt for True  $\frac{1}{4}$   
 bet Secs 3-4 T 139-29

1325.48 + 1325.48  
 2650.96 T  $\frac{1}{4}$

3-4-9-10-139-29



5159.45 old notes Mar 16-17-1912 By Curo

5138.10 U.S.  
21135 2 m

1178.10 H U.S.

1785.45

2000

2000

1183.0

1325.48

1325.48

2650.96

2508.48

4

3

9

12





Old Notes 2-3-139-29

1/4 Rm 2-3-139-29

US AT NP24 E 31.10

VP 155 67 W 16.16

Find East AT

NEW TIGS VIZ Pine Stub 155 56 30 E 31.85

JP 6 S 30° 18' W 57.65

# 285 P9 202 1912 Feb 19 Curd

UPSE 29.4  
PSH 26.45

2215.

5 1/16 Rm 2-3-139-29

+ Cross in 3/4 WP STUMP

S 59° 22' W 48.75

JP 6 N 25° 30' W 90.40

Pg 207 T. 209 B. 101

Record 285

March 1912

Old Notes

3 2

10 11

28

Jan. 20 1947

I Lv Walker 10-30 in my car. drive to Jenkins to get Coin to help me at Porto Lake.

Coin is in Pegnet but should be right back I wait. Dwight & Cain come about 1 O'clock Coin says he will go as soon as he sees a man from the R.R. Who he is to meet in Jenkins about a job for the R.R. Coin does not get back until almost 3 To late and it is getting colder. 10 below I cut some wood for T.H. over night in T.H. @ Jenkins.

Harold Curo



Jan. 21-1947

up all night keeping fire  
do not go to sleep until 3-30  
so do not wake up until  
9 o'clock eat get car started  
get stuck in snow get to  
ranch about 11 o'clock

Have to pull both their  
Cars to start them coin  
has to change oil barrows  
then fix the fire then water  
the cow so by the time we  
could get to points it would  
be 3 o'clock so decided  
to try and get started earlier  
to morrow

14 arald Cars

Jan 22 1947

up early drive to  
farm Pick up Coin

Coin is ready to leave  
about 10 AM drive to  
S  $\frac{1}{4}$  Cor bet Sec 3-4-13929  
N end of Ponto Lake

Tower spike hub 60 ft  
spike set by JWC and  
myself Sunday for the  
T & W S  $\frac{1}{4}$  Cor bet Sec 3-4

Look south at flag on  
sec Cor. Cor to Sec 3-4-9-10  
Turn  $88^{\circ}30' L$  and run

S  $88^{\circ}30' E$  on S  $\frac{1}{4}$  line Sec  
3-139-29 going through N  
gap in Trees at end of  
road.

@ 300 pins 600 pin 900 pin

@ 963.9 spike hub N side  
of road @ 1200 pin

@ 1323 spike hub does not  
drive down buds

@ 1324.8 spike hub in line  
with fence N & S







Jan 23-1947

Lv Jenkins @ 930 drive  
into Pine River and get  
stakes at the lumber yard  
974. drive to Ponto Lake  
by and locate  $\frac{1}{2}$  of road  
on N+S  $\frac{1}{2}$  sec. 3-139-29  
intersect  $\frac{1}{2}$  of road with  
S  $\frac{1}{4}$  line sec 3-139-29  
on ice Read NW angle  $89^{\circ}09'$   
or  $N0^{\circ}39'E$

From Hub: 2247.2 E chain  
E 50 ft: 2297.2 foot of bank  
@ 2595.2 E spike @ intersection  
of S  $\frac{1}{4}$  with N+S  $\frac{1}{2}$  80 ft E  
of water killed trees & brush  
which must be edge of lake  
as this will move the W  $\frac{1}{4}$   
line at least 27 ft W of line  
fence. I drive to Walker  
to see J.W.C. before I do any  
thing more Lv Ponto @ 3:15  
Coin goes to Walker with me  
Talk to J.W.C. and drive back  
to Jenkins Lv Walker 445 drive  
Jenkins 6 o'clock

H.J.C.



Jan 24-1947

33

Drive out to farm for Coin 9-30  
Coin & Dwight want me to run  
line in Jenkins for them and  
not go to Porto I tell them  
I will run their line before  
I leave Jenkins but want  
this Porto lake stuff first  
Coin and I lv about 10  
Coin wants to see a man  
about a dog so we drive  
20.3 miles N of Porto Coin  
sees his man. We drive  
to SW cor sec 3-139-29 arrive 11:30 am  
T over cor to 3-4-9-10-  
Site N on S  $\frac{1}{2}$  cor bet 3-4  
and run **S88°46'E**  
bet 3-10 @ 236.2 spike butt.  
@ 285' pin + 137.4 = 422.4 spike  
on ice wall @ 455' into Porto L  
@ 475' pin on ice @ 775' pin  
@ 1075' " " " @ 1375' " on ice  
@ 1383.85' wood butt under  
T, @ 1675' pin 1975' pin on ice  
@ 2275' pin on ice @ 2575' pin on ice

34 Jan 24

@ 2770 hve inc @ 2814.4  
spike hub

Ties to hub 2814.4

J.P. 16 N 68°13' E 241

Pop 6 S 70° E 9.8

dubble center hubs

Plum bot chain

quit 430 Coin walk

E to road I go back W to  
Car and drive around and  
pick him up



Jan 25-1947

Coin can not go as he  
has to fix light plant  
and cut up some meat  
Dwight & I work  
setting cor in sec 27

Jan 26 - Sunday

Dwight goes to Brainerd  
Coin & I mark S  $\frac{1}{4}$   
line of sec 27. The N line  
of the NW  $\frac{1}{4}$  of SW  $\frac{1}{4}$  of sec  
27 with 6-60 ft spikes &  
tall stakes.

H, J, C,

36

Jan 27-1946

I go after Coim he has to a few thing to do before he can go.

We leave Jenkins around 11 o'clock drive to Ponto leave car @ Cor to Secs.

2-3-10-11 and walk west to hub. 2814.4 S ridge 3

$\pi$  over hub 2814.4 Continue S line of sec 3-139-29

S  $88^{\circ}46'E$  double center hubs - 300 ft chain plant lot chain

2814.4 + 482.20 = 3296.6  
60 ft spike hub

Ties

Brick 10 N  $44^{\circ}E$  14.66" up to Ball

" 8 S  $56^{\circ}46'E$  18.8 - 3 ft up

As we want to hit the end of a new road which runs from cor. 2-3-10-11 west.

I call hub 3296.60 E sta. ①

$\pi$  over sta ① BS N  $88^{\circ}46'W$



and run S  $82^{\circ}51'E$  603.5 ft  
to Sta ②

From Sta ② BS N  $82^{\circ}51'W$   
and run S  $88^{\circ}07'E$  1233.70  
ft to RR spike in E N 65  
Tar road set by J W Curo  
for temp Cor to see 2-3-10-11  
139-29.

Ties to True Cor on page 23  
this book Call for

JP 6 N  $82^{\circ}48'E$  53.6  
NP 14 S  $41^{\circ}25'W$  767.75  
SW Cor Sch. Ho. entrance  
N  $46^{\circ}08'E$  102.10

The Sch. Ho. has been made  
into a house and old entrance  
tore out so can not tell  
any thing about it

We chain from the NE JP  
and put a mark in the road  
We chain SW and look for  
the N.P. stump snow deep  
find place where stump could  
of been taken out. Cold strong  
wind so do not look further



but sure the old RR spike  
Temp cor.

$\pi$  over Temp cor to 2-3-18-11  
the NE J.R. sets N  $62^{\circ}07'E$   
54.8

The place where I think  
the cor sets bears N  $13^{\circ}47'W$   
20.9 course taken from  
W side Sec 3-137-27 as N+S

$\pi$  over RR spike Temp S E  
cor Sec 3 BS N  $88^{\circ}07'W$   
flag @ NE cor Sec 3 bears  
N  $2^{\circ}06'E$  as close as I can  
get it as there is a Tele. Pole  
on line

Back to Jenkins @ 6 O'clock  
Cold.

To late to go to Walker



40

3-139-29

Jan 29- 47 Wed

Harold + Jim in car Lv Walker

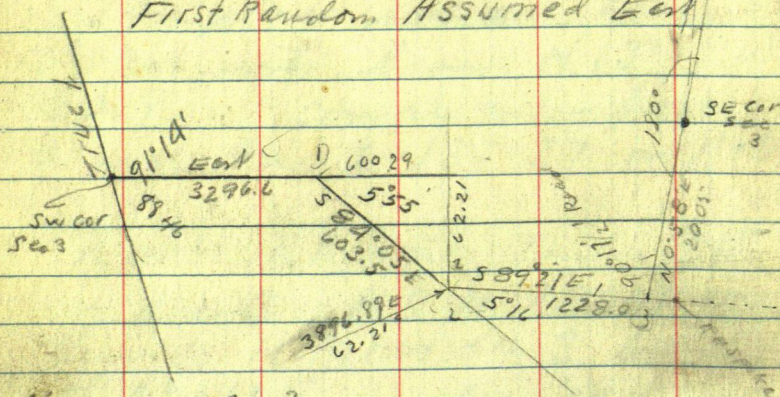
11 AM Via Backus

NE Cor  
Sec 3

Check Angles

To line Sec 3-139-29

First Random Assumed East



Sta 0 - SW Cor Sec 3

0 East 3296.6 to

Sta 1

1 S 84°05' E 603.57.

2

= 5°55' E

Sine  $103082 \times 603.5 = 62.215$ Cos  $994673 \times 603.5 = 600.29E$ 

Sta 2 - S 89°21' E 1228.0 to Sta 3

Sine  $011344 \times 1228 = 13.935$ Cos  $999936 \times 1228 = 1227.92E$ 

3 Run N 0°58' E 20.05 to True SE Cor Sec 3

= 0.34E



Sta 0 - SW Corner 3

Sta 0 =

E

S

1 - 2

E

S

1

3296.60

.00

2

400.29

2

3896.89

62.21

1227.921393

5124.81

76.14

.34

20.055125.15

56.09

$$5125.15 / 56.09 = .010944069 = 0^{\circ}38'N$$

$$4/5125.15 = (1281.2875 \text{ E } 900 \text{ S } 14.02 \text{ to } 1/4)$$

2562.5750

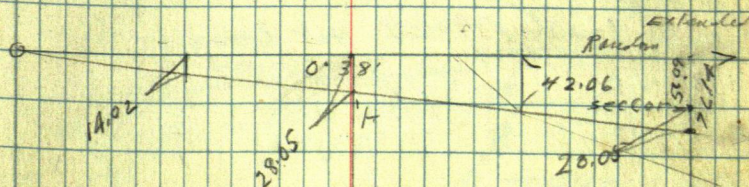
28.04 to 1/4

384386.25

42.06

5125.15

56.09



1281.29

1281.29

1281.29

1281.29



42

236.2

422.4

1383.85

2814.4

3296.6

0.38'

Random  
Extended

True

Hub 236.2 E gas 8 2.58

422.4 " " 4.62 on sec wall

1383.85 " 15.14

102.56 West Then S 14.02

To West  $1/16$  bet Secs 3-10 mine

Test To Random only

2814.40 gas S. 30.8 - Not connected

2814.40 gas West 251.82

Then South 28.05 To  $1/4$  on mine

Bet Secs 3-10 - 139-29

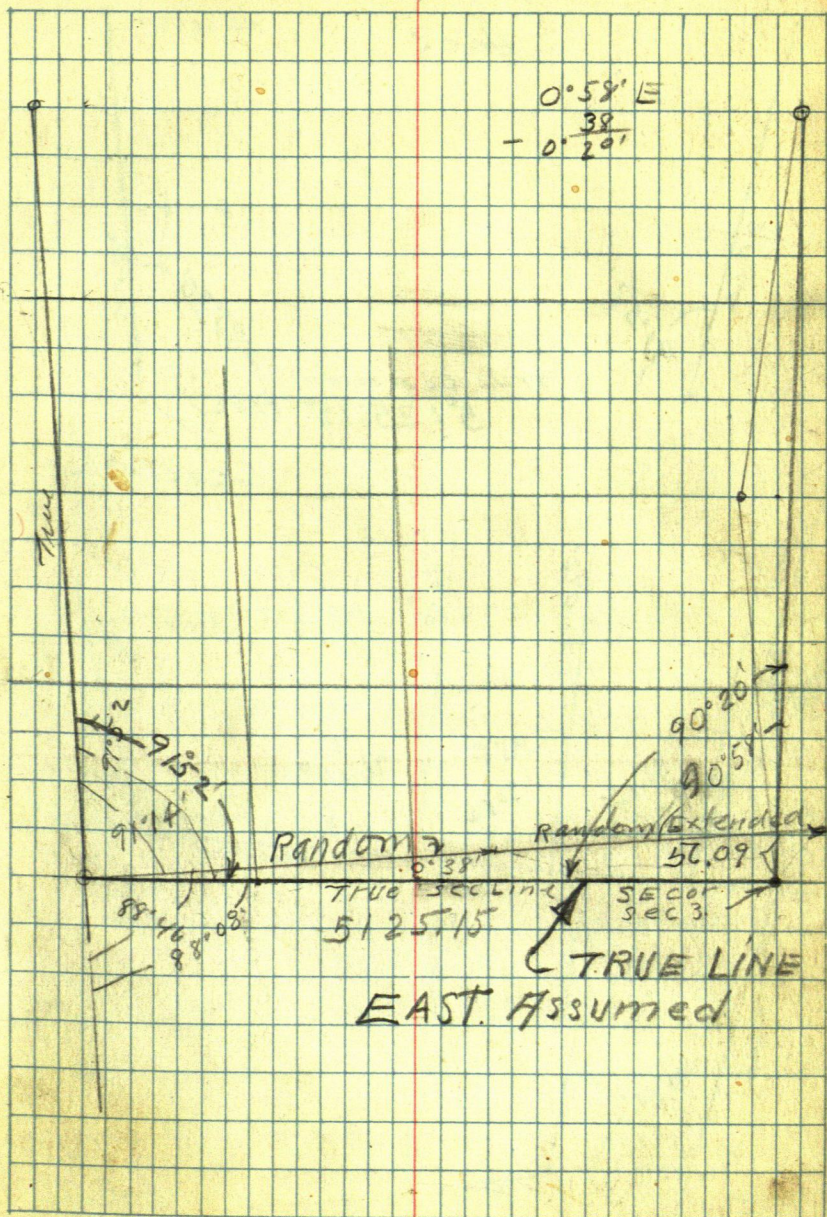
Test To Random only

3296.6 gas S. 36.08 To True line

bet 3-10 - 139-29 Not connected

Sec 3-139-29

43



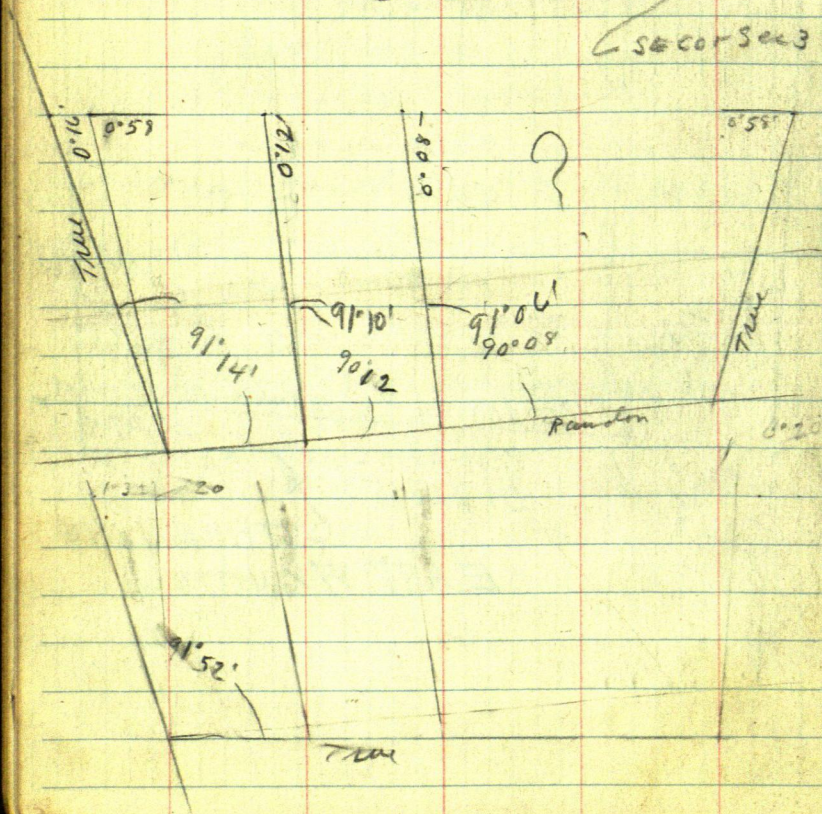
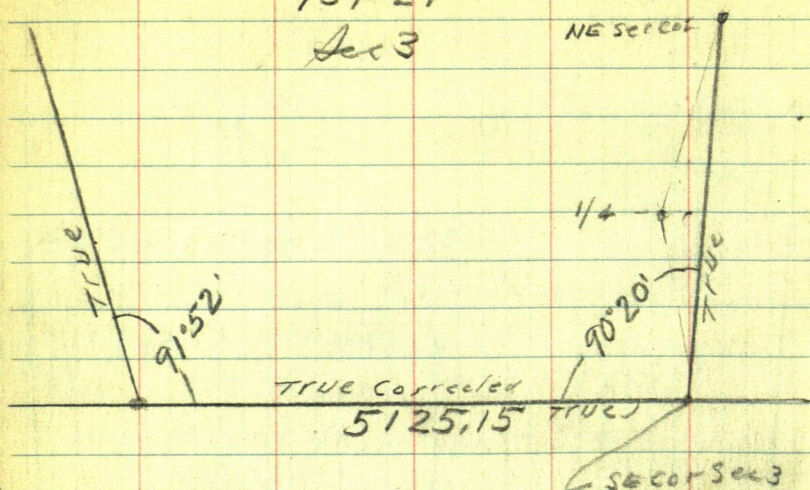


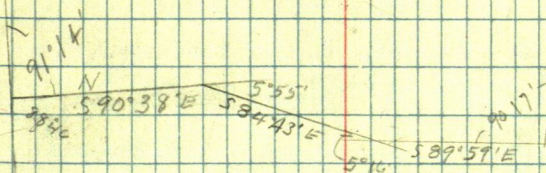
44

139-29

Sec 3

NE Sec 302

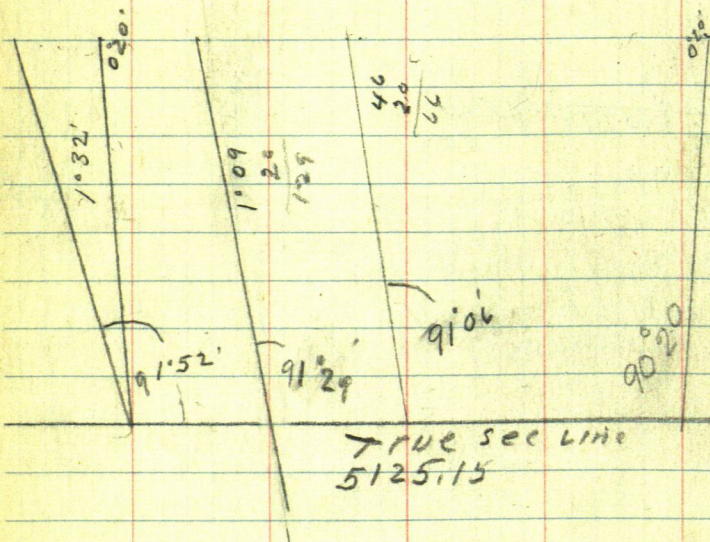






46

$$\begin{array}{r} 9152 \\ 20 \\ \hline 9132 \end{array} \quad \begin{array}{r} 9046 \\ 20 \\ \hline 9066 \end{array}$$



Feb 13-1946

Harold & I L<sup>1</sup> Walker in Harold's  
Can at noon

Call at Hackensack Pay 1.10 and  
1.10 for two syrup

Eat at Pine River 30¢  
Talk with Morris Crommett  
Re- West line of E $\frac{1}{2}$  NE $\frac{1}{4}$

G-137-29

Doris pays Harold 1.10 for 1-  
glass can of Syrup

Request See Henry Bayl &  
Chick Ewertant

Back at Jenkins check  
the line for Ponto Lake

S 84° 43' E

S 89° 59' E

N 0° 20' E



48

1281.29

1281.29

326

131389

129089

23.00

129089

9

387267

38

129089

3260

125829

128129

3

3843.87

3260

3876.47

3872.67

3.80

N152°W 1000 Tan

1290.89 m

5163.56  
2581.78  
1290.89  
32.6 1258.2

N152°W OK

1000 Feet

OK N152°W T-1-2-3  
1.19

OK Feb 15-47  
N152°W

13.40  
0.46

0.13'

(We do not use this 1/16" of creek  
line & set line of section  
Curb Feb 15-47)

5.8

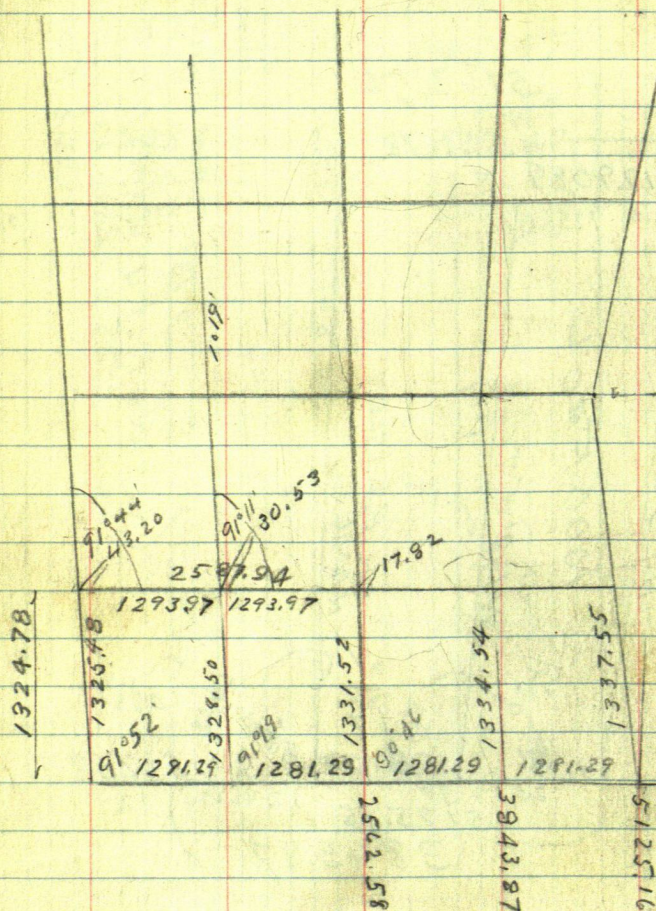
1281.29 1281.29 2562.58  
2562.58 5125.15 1286.29 1291.29  
3843.87



$$1.52 \text{ Tang} = 0.32591 \times 1325.48 = 43.20$$

$$1^{\circ}19' \text{ Tang} = 0.22.984 \times 1328.50 = 30.54$$

$$0.46 \tan 9^\circ = 0.13382 \times 1331.52 = 17.82$$



Feb 13-1947 Thur

51

I Lv Walker with Harold and his car

Lv Ct Ho Walker at noon

Buy 2 glass jars of Syrup at Hackensack 1.10 x 2 = \$2.20

Lunch at Pine River

Talk with Morris Crommett about Survey

at Jenkins Doris pays Harold \$1.00 for one jar Syrup

at Pequet I still have \$12. + in Pequet bank

Talk with Henry Byl and Chuck Everhart

Rosengreen has been in Texas two weeks. Should be back in one week

at Jenkins Check Transit  
Sleep in Trailer Ho

Buy protein in Pequet +  
Jenkins \$3.+-

John Cur



52 Sec 3-139-29

Feb 14 1947 Friday

Rained last night

Snow and heavy N wind  
this morning

Call on Mathe & Coyne 10 To  
12 AM

Eat at trailer house and as  
sun comes out decide to work

Harald gets Coyne MC Laughlin  
and we three L & Jenkins

1-30 PM @ 215 on Ponto Lake

Warren Knight T. 300' deep

JWC T Harald & Coyne

at 56

T over 3-4-10-11 139-29

Focus Ely on Plog 100

Haralds Random Hut 2814.4

Page 42. Twin 0° 38' R and  
run

East on line line bet sun

3 x 10 - 139-29

@ 300 W set picket on line

on east slope of hill also

Back that at T



Pack X east to Hat 1383.85  
Pg 49 Turn 90° R + CH to 15.14  
set 60 d spike on line E W

See line Chain West 102.50  
To 1281.29 E set 60 d spike  
on ice for True W  $\frac{1}{16}$  Cor Bat  
See 3-10-139-29-

Looking West my line cuts  
both pickets showing that  
our correction is OK

From W  $\frac{1}{16}$  chain  
East on ice line line  
1281.29 To 2562.58 East set  
set double Center on 3" spread  
for True  $\frac{1}{4}$  Cor on ice  
Bat See 3-10-139-29

X over West  $\frac{1}{16}$  Cor just  
Focus West on See Cor  
Turn R 88° 41 R and run

N 1° 19' W on line W  $\frac{1}{16}$  line  
300-600 fm on ice 630.85 set  
60 d spike on strong sea wall  
2 ft N of ice



56

This 1: 630.85 in

6" Red Oak N about 20' W 9.75

10" JP N " 80 16.50

N S Fencel 28.8 E

Screen fence 3 feet wide  
on top. Continue

630.85 + 54.45 up steep bank  
= 685.30 Hat on top 28.4

West of fence

This 3" Red Oak N 11° 06' E 14.45

4" Red Oak N 53° 49' W 12.30

Turned from N-S line

685.30 + 278 = 963.30 Hat

This

14" NPN 10° E 12.0 28.4 W of E

11" NPN 73° 20' W 12.8 of Fence

about 50 ft ahead we hit  
west edge of 12" NPN and will have  
to turn 0° 10' L. Left. Nearly dark

I call on Fred Meyer while Harold  
goes for Car

Home @ 6.45 a 5 1/4 hrs for Coyne

= \$5.15 Over mile in trailer



10 am LV

75°47' N

57

Feb 15 1947 Saturday

30 above to wind

T over 963.3

BSS 1°19' E Contine

N Turn 0°17' L

10 get past the 12" NP @ 81.7  $\pm$  12" NP.

@ 87.7 Hal 3' N of line 300 pin

370.45 Hal  $\pm$  Road

32.824 N West of DNS Fence

414.4 Hal N of Road

370.45 N Spike in Road

24 ft N of E W fence

0°17'

Sine 004945  $\times$  370.45 = 1.83 W

Cos. 999988  $\times$  370.45 = 370.44555

Tang. 004945

slope 87.7 N goes E.43

" 370.45 " E 1.83 in  $\pm$  road

N 414.4 N " E 2.05



Take Blodge  
 From 685.3 ch N 040  
 To 685.7 N Town  
 685.7 Call West 1/16  
 lin North-S 17  
 N 75° 47' E

Blodge

SW Cor Patch N 44° 53' E  
 104.55

NW Cor Main Ho N 33° 55' E  
 123.2

685.7 = Sta 0.

W 1/16 Considered as North  
 NE Angle 75° 47'

RUN N 75° 47' E 148.9

To Sta ①. At Sta 1

At Sta ①.

SE Cor Patch N 53° 31' W 67.7

SE Cor Main Bldg N 44° 29' W 69.30

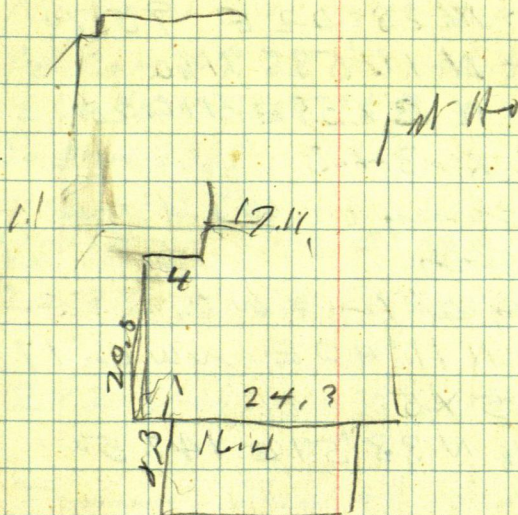
SE Cor Screen N 36° 53' W 73.

NE Cor Screen N 32° 55' W 83.60

Screen 12' NS - 6' EW

Total NE Cor N 22° 34' W

171.10 4' EW 4' NS





2nd Hour

SW Cor N  $23^{\circ}02'E$  95.70NW Cor N  $16^{\circ}53'$  119.0SE Cor N  $37^{\circ}58'E$  116.25

26.1 X 34.3

Chimney on West end

No porch

Chimney extend W 2. x

Toilet N  $11^{\circ}40'E$  NW cor 178.1

4 X 4 5 X 5

Pump N  $38^{\circ}51'E$  147.50

3rd Read

NW Cor N  $39^{\circ}21'E$  2170.1SE Cor N  $49^{\circ}28'E$  146.8SE Cor N  $58^{\circ}51'E$  165.4

So End 22.3

W Side 37.0

NE 10 E ~~112 S~~ 14 S 12 E

22.3 S To SE Cor Chain around Ho

2x2 Stake N  $47^{\circ}30'E$  122.0

Tramit Stake at Ho 1

E N end 3 ft Mainway

N  $77^{\circ}18'E$  42.5

Run So Jorg 6 ft W 1

then So to lake

Foot of slope S  $52^{\circ}53'E$



St 1 continue N 75 47 E

173.5 To St 2

To one St 2 BS S 75 47 W

Check E Side

3rd House

Flag at foot 1

Stone steps on 6 ft of wall

Bar S 58 26 W

Check E Side

Ho No 3.

SWCn N 47° 07' W 77.7

SECn N 32° 13' W 65.10

NECn N 25° 31' W 85.5

2 x 2 Slat

Carage, 24° 01'

SWCn N 24° 01' W 182.5

SECn N 17° 48' W 175.9

NECn 16° 10' 196.0

21.1 E end

20 S end

This includes wood

shed on N end 4 ft wide

Ticket AX 4 SWCn N 11° 08' W

168.45

ald 2x2 slate

IV 7°58' W 53.02

No IV<sup>2</sup> 4

NW Cor N 2°10' E 98.7

SW Cor 6°43' E 67.50

SE Cor N 24°24' E 72.00

Wentwood 32.0

So End 24.3

Narrow steps <sup>steps</sup> Ex 1 end

10 ft E by

Cement porch floor on

N side 8 ft wide

Cement floor 8 ft wide across  
North end of bldg



64

At Home N 5

NW Cn

N 38° 30' E 133.3

SW Cn N 49° 45' E 116.3

SE Cn

2x2 Sitch N 48° 52' E

91.9

add 2" pipe N 46° 11' E 90.7

Slt ② in so edge of walk  
which extends W by 20 ft

From Slt ② Central

79.88 N 75° 47' E

To Slt ③

Slt ③ is 4 ft to 9 ft

3 ft walk

Now

Quit at 4 PM Home at Earler 1 to

4-40 10 AM To 4-41

40 minutes for lunch

6 Hours for Coyne @ 1- \$6.00

Feb 16-1947

10-10 AM Harald goes

to get Coyne McLaughlin  
Cloudy. Light N wind  
exactly  $30^{\circ}$  above for the  
last two days

45° Doughnut

10-30 L

Chair

West side

HO N 1.

44:3 E of fire

Put HO N=1 and 2

82 ft but screen

poth on N=1 to chimney  
NW side of N=2

Put 2 and 3



66

But N° 2 x W red clay

31 11

But 2-3-40

Pring 17 W of N° 3.

But 3-4 - 43.8

But 4-5

4 T. chimney 55

But 4 x 5 57

Tou. pla 3

~~H° N° 5~~ 4

SE C4

N 42° 10' W 68.25

NE Cn N 31° 09' W 96.

2" iron N 15° 40' W 44.7

2 x 2 steel N 11° 24' W 41.7

Ho N<sup>2</sup> 5

SW Cr 110°35'E 56.7

NW Cr N 3°47'E 85.

Chimney on W side 3' on

SE Cr 30°15'E 69.7

SE Cr Cr N 35°23'E 72.8

Current 7 rods

Shed

NE Cr N 7°37'W 225.7

SE Cr 8°28'W 218.5

SW Cr about N 9°45'W 223.2

□ Square ?

West of NW Cr of Shed 33.7

EE 31.2

SE Cr 34.3

3 1/2 x 4 1/2 NS

3 ft Cr Walk @ 4' N



K stilt at Sta 3  
H<sub>o</sub> N 6

NW Cn N 30° 32' E 128.2

SW Cn 9 add N 33° 34' E 116.5

SW Cn Main H<sub>o</sub> 11 42° 48' E 108.3

SW Cn 9 add N 53° 08' E 113.7

SE Cn N 56° 55' E 123.6

N Side 40.8

E Side 40.8

NW Cn S. 13.5

St 3 Run N  $62^{\circ}22'E$  4  
126.15 to St 4

Total of St 3  
NW Cr Sep N  $57^{\circ}E$  557.9  
NE Cr N  $59^{\circ}26'E$  47.2

SW Cr on Loh S  $76^{\circ}48'E$  on 4  
SE Cr on Loh S  $77^{\circ}40'E$

Spoke at the end of  
Stone wall ex. Loh  
beam 1X N  $54^{\circ}03'E$  60.45

Now St 4 at  
Do end of line of  
stone ex. Loh  
BSS

SW Cr Stone Ship on Loh  
S  $32^{\circ}26'W$   
SE Cr S  $27^{\circ}34'W$



70

213,

Te Clo 4 Run N @  $3^{\circ}15'$ 

E @ 143.9 sharp rock

C 213 Sta 5

another line of stone  
parallels 5-5 or 6 ft

sharp rock ch W by 63.8

West to another line of  
rock

K shell of Clo 4

Take Ho No 6

N

SE Co N  $42^{\circ}52'W$  12.2

NE Co

Ho N<sup>o</sup> 7NW Co N  $16^{\circ}28'E$  89.6

SW Co of addition

N  $20^{\circ}08'E$  75.9SW Co Main Ho N  $34^{\circ}15'E$  57.4SE Co N  $34^{\circ}10'E$  71.1

= 4' pond

SE Co N  $48^{\circ}$ 

71.1

T@ 816.4

Run N 76° 30' E

@ 207.0 Sta 6

@ 847

T@ Sta 6. Tak. Log No 8

SW Cor Current Foundation

N 56° 41' W 163.3

SE Cor N 37° 20' W 44.0

NE Cor Lean <sup>5th</sup> to N 21° 03' W 180.2

NE Main Bldg N 23° 17' W 66.3

Log array

SW Cor N 19° 35' W 78.8

SE Cor N 7° 38' W 73.0

NE Cor N 3° 48' W 96.3

1 1/2" pipe ~~in line with~~

N 12° 30' W 58.2

Pump N 74° 31' W 126.0



Top H. H. 89

NWC N 6° 16' W 59.7

SWC N 10° 10' E 35.0

SEC N 40° 40' E 44.2

Small add on vend

Flog Pole

S 27° 06' E 20.8

Burly Hill 25.5

Sl 6 To 7. 56.2 A

Top Sl 7

H. H. 8

SEC N 57° 34' W 33

NWC N 31° W 52.

Pump N 12° 16' W 59.2

H. H. 9

SWC N 12° 05' W 63.8

SE 42° 05' E 62.

NE 05 " E 92.2

Tallet <sup>SW</sup> ~~NW~~ 4x4  
 N 2°05'E 159.

Bank of Hill E 30

N<sup>1</sup> 54°30' E 110



$\pi @ 8105$

BS S 3'15' W m 4

Tch Garage

SE C<sub>1</sub>  $\pm$  S 47° W 45.1

NE C<sub>1</sub> S 65° 43' W 35.5

Good pit S 85° W 59.5

@ 90° ch 65.8 to pt  
line with stone extended  
N 4

18.3 x 16.2 Garage  
With wood pile on  
West side

I c c H

SWC N 67° 31' W 94.5

SE N 62° 31' W 84.9

NE 56° 55' W 93.8

12 x 12

Trails at 245

SWCn  $S 55^{\circ} 8' 16'' E$  35.5

NWCn  $S 83^{\circ} 42' E$  31.2

NECn  $S 84^{\circ} 51' E$  50.3

Small log Ho

SECN  $N 86^{\circ} 12' E$  134.5

SWC  $N 85^{\circ} 46' E$  127.5

NWCn  $N 82^{\circ} 50' E$  129.8

Q road East 12 H

Turn Turn

Q 3 rows

N  $25^{\circ} 30'$  152.2

4.15 PM Back at Trailer Ho

85.75 due Coyne



## Ponto Lake

March 13 1947

Ilo and I L.V. Walker drive to  
Jenkins drive @ 12:30 have sand  
coffee at store ILO waits for  
Bus to St Paul.

I drive out To farm for  
Coyle who has something else  
he has to do. and can not  
go today

Geo. H. Stauff

Real Estate &amp; Mortgage Loans

Insurance

Office, Cedar 8768

608 New York Bldg.

Res. ELKHurst 3063

St. Paul. 1 Minn

comes looking for JWC

ILO bring him out to see me

he wants Hor Lot 2 run out

Sec 35-139-26

JWC run Lines for Lot 3

and he wants line continued  
to cut out Lot 2.Would like to have it done  
before ice goes

H.C.

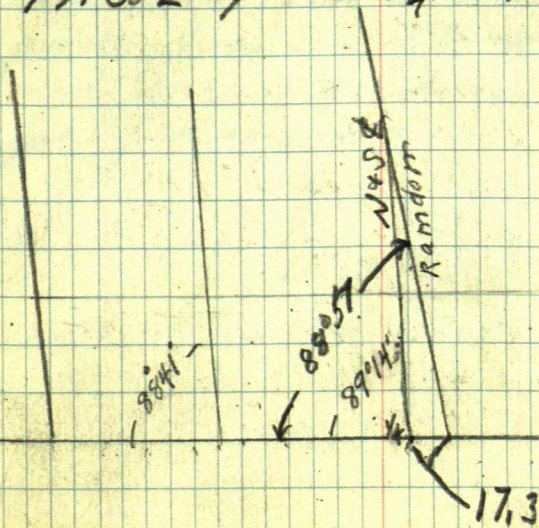


139-29

77

March 14-1947

Coyne & I go to Ponto Lake  
 Try to locate many old spikes  
 on E of road on N+S E sec  
 3-139-29 we find one on  
 hill in road but can not  
 find the one @ the<sup>3</sup> end of the N+S  
 road we put in a stake where  
 we intersected this line with  
 S  $\frac{1}{4}$  randoms see page 32  
 this book, and continued south  
 on what we figure is E of road  
 We intersect the south  
 line of sec 3-139-29  
 17.30 E of our  $\frac{1}{4}$  cor on ice





T over intersection hub  
read NW angle  $88^{\circ}57'$   
read from S line of sec 3-139.29  
and E of road which should  
be on N & S  $\frac{1}{2}$  of sec 3-139.29  
wind blowing hard  
and snowing all day  
back to Jenkins  
5 mi.

H.J.C.

See 3 139-29 Ponto  
March 15-1947 Sat.

79

I drive out to the farm for  
Coyne. Their powerplant is  
on the barn Joe is working  
on it Dwight has gone to the  
city so Joe asks me to take  
Coyne to Pine River to get  
the car from John so they can  
go for parts for engine at Pine  
River John let Art take the car  
to Brainerd to see a Doctor  
Back to Jenkins.

Coyne has to stay home either  
today or tomorrow and as  
they have no car and need  
parts I make 3 trips to Peguot  
and Jenkins for them and help  
Joe fix engine.

H. C.



80 Ponto Lake Sec 3 139-29

Sunday March 16-1947

Coyne and I Lv Jenkins in  
my car arrive @ Ponto  
Lake @ 12-30

T over hub 630.85 N on W $\frac{1}{4}$   
Line (See page 53 this book)

Turn @ 00 into S on W $\frac{1}{4}$  Cor  
bet 3-10 Turn L 73°30'

and run S 73°30' E 775 ft  
to sta ①

T over sta ① B.S. N 73°30' W

Take shore line with stada

Course	Stada	Course	Stada
N 70°30' W	715	N 40°50' E	750
N 68°10' W	680	N 41°30' E	830
N 52°30' W	510	on Random N+S	
N 36° W	450	Sec 3-139-29	
N 26°45' W	420	S. side of point	
N 15°10' W	415	N 41°47' E	960
N 1°20' W	390	sta ②	
N 11° E	400	Note (do not	
N 27°20' E	470	chain this not	
N 32°30' E	555	important so	
N 34°45' E	570	use stada for	
N 36°20' E	630	distance. H.S.	



Sec 3-139-29 Ponto Lake  
Sunday Mar 16 1947

81

Over sta ②

B.S. S  $41^{\circ}47'W$  on sta. ①

Stada back @ last reading on random  
N4S &

reads S  $44^{\circ}W$  125 ft

Continue shore line

S  $63^{\circ}40'W$  50 end of point  
Take bay.

Still @ sta ② run

S  $89^{\circ}30'W$  84 cross random N4S

& see 3-139-29 on N side of  
point

N  $80^{\circ}40'W$  145

N  $64^{\circ}W$  185

N  $39^{\circ}50'W$  245 cross S  $1/4$

random line see page 30-32. this took

N  $25^{\circ}40'W$  310

N  $14^{\circ}25'W$  335 on N4S random

& see 3-139-29

quit @ 3 P.M. drive  
back to Jenkins

HJC



82

.102.67

99863)102550.

99863

266700.

199726

669740

599178

705620

699041

65796

See Mrs S alway

May 30-1947

Harold and J. W. P. in my car  
 put up with Miller & Walker  
 10 AM @ 11 AM on

Omaha Lakeview Hotel

North Shore Pontic Lake

Touch Hub 66.75 S. of Hub 963.30.

Pg 54 = 896.55 N  $\begin{array}{r} 66.75 \\ 896.55 \end{array}$

Run  $N 87^{\circ} E$  600 ft -

Sin 052336-e

@ 998630

Run  $N 87^{\circ} E$  102.67 = 102.53 E

@ 28.2 Cron Hi. wire fence

Nailed to west side 3" post.



84

Time	963.30		3°	N 87° E
	162.67	68.09	67.08	68.09
896.55	162.52	68	67	68.0

①

2

$x = 44.25$  feet  
 offset 43.25 N and in  
 East

July 11-1947

85

Walt Miller and I in my car  
Gas \$3.10 LV Walker around 10-30  
drive to Poncha Lake Omaha  
Lakeouthing Club North shore  
Poncha Lake

T over 60° spike on W side of  
St ① BS N 87° E and run S 210.8 to

60° spike on Brink Run N @ 76.45 spike back  
road Turn E @ 300 spike @ 409.95 spike @ 432.85

T over 60° spike bet. lots 1-2. BS N

87° E and run S @ 60° road. @ 121.6 spike 1/4 E

of house @ 189.12 - hit 60° spike on brink

@ 179 N edge of rock walk @ 184.5 S

edge of stone walk.

N @ 107.90 hit 60° spike in E of

road. + 282.2 = 390.1 hit 60° spike

@ 393. N fence E + W down.

107.9 + 300 pin = 407.9 pin + 20 =

427.9 hit 60° spike in @ county

road

back @ Walker @ 7 o'clock

390.1 + 3. = 393.1 cor to lots 1-2

(3415' E of 1/16 L17-e)

1 1/4 E of W wheel track  
in S 80° Road.



July 12 1947

Walt and I by Walker

@ 9 o'clock drive to Omaha  
Lakeauitting Club on N shore  
Ponto Lake

Travel spike in Co. Road  
West side of lot 1. We find  
this spike is not in  $\angle$  so  
we run S on W side Lot 1  
2 ft. and set 60¢ spike  
which lines up with the  
road E & W

Travel This new spike  
read angle of  $\angle$  of road and  
W line Lot 1. S E angle reads  
 $88^{\circ}59' = 1^{\circ}01'$

$$\begin{array}{r} \text{Cosine } 9998431 \quad 33.00 \\ \hline 33000000 \\ 2999529 \\ \hline 3004710 \\ 2999529 \\ \hline 518100 \end{array}$$

We chain S along W side Lot 1  
33. ft set spike for NW cor  
Lot ①

Travel NW cor Lot ① Site

S Turn L and run  $S 88^{\circ}59' E$   
@ 68.01 spike NE cor Lot 1



July 12

87

- @ 135.02 spike NE cor Lot 2
- @ 202.03 " NE cor Lot 3
- @ 270.04 " NE " Lot 4
- @ 338.05 " NE cor " 5

Over NE cor Lot 2 Run S bet. 2-3.  
From our old line in center of  
lots chain S bet 2-3.

- @ 96.9 spike @ roots of 16" J.P.
- @ 166 N edge of rock lined Walk
- @ 172 S edge of rock lined Walk
- @ 178.3 spike Point for I.M. bet  
lots 2-3.

road into house is 14 ft W of  
spike on our old line @ this Pt.  
a road from back of house on lot  
1 comes out and intersects this  
road at this point 14 ft W of lot  
line

North @ 148. spike in E road. E+W  
From spike in E E+W road road  
to house starts turning S 25 ft W of  
spike @ 45 W road Run S with  
to house and is 20 ft S of Pt. 45 W  
of spike in E E+W road



July 12

From spike in E & W road  
continue chaining North

$$148 + 239 = 387 \text{ Fence}$$

$$148 + 240.6 = 388.6 \text{ spike on}$$

Rofway Point for I M bet 2-3

Bet 3-4 From our old line  
in center of lots 3-4

Chain S @ 71.7 spike in platform  
of well by the pump + 46.1 =

117.8 spike on line in the trees

$$117.8 + 36 = 153.8 \text{ Nedge of rock lined}$$

$$\text{Walk } 117.8 + 41.2 = 159.0 \text{ Sedge rock lined walk.}$$

117.8 + 49.2 = 168.0 spike on Brink  
Point for I M. bet lots 3-4.

From our old line North @ 190.3  
spike in E & W road.

$$190.3 + 193.4 = 387.4 \text{ spike on}$$

Rofway Point for Cor bet 3-4

Lo for, Horn @ 6-15

1.3 ...

2.1 ...

11.5 ...

@ 13.35 ...



July 13-1947 Sunday 89

Walt and I L. Walker @ 9:30  
Hos 100 Arrive @ N end of  
Ponto Lake @ 10-45

Tower <sup>spike on</sup> old line E & W thru  
middle of lots bet lots 4-5

From spike on our old line thru  
middle of lots chain

South @ 144 N edge of stone lined  
walk @ 147.3 S edge of stone lined  
walk @ 151.6 spike on brink Point  
for I M bet 4-5

Chain North @ 30 cross roads E & W  
@ 113 driveway To lot 5 from lot 4

driveway lot 4 is 33 ft W

driveway to Lot 5 leaves Lot 4 driveway  
@ 140 N of K + 33 ft West

@ 220.5 spike in E road

driveway Lot 4 leaves this road

10 ft W of this point run N & S

about 33 ft West of lot line

220.5 + 15-8.2 spike on R of Way

Co road 2 ft N of fence point for I M

bet 4-5



90

July 13

Over spike on our old line & W  
thru Site N  $87^{\circ}$  E and run  
N and S bet lots - 5-6.

From  $\pi$  chain South bet - 5-6

@ 108 NE edge of Pvt. stone lined  
walk @ 121 SW edge

@ 130.3 N edge of main stone lined

walk @ 135.8. south edge of stone

Lined main walk @ 136.1 spike

on brink Point for I.M. cor to Lots

5-6.

Chain North From  $\pi$

@ 256.7 spike in  $\frac{1}{2}$  main road  
+ 115 = 371.7 cross Fence

$256.7 + 117.6 = 374.3$  spike on

edge of R of W of Co road Point for  
I.M. bet lots 5-6.

$\pi$  over our old line in middle  
of lots bet lots 6-7. BS N  $87^{\circ}$  E  
and run N + S. bet lot 6-7

beginning @ 60' spike on brink  
point for I.M. bet Lots 6-7 Chain  
North bet lots 6-7 - 1.30 W of  $\frac{1}{2}$  cement  
wall of steps and 2.10 S of same.

@ 11.5 N edge of stone lined walk



Ponto Lake  
July 13-1947

91

- @ 13.35 spike in corner of lawn
- @ 48.8 spike @ 106.9 spike on our old line E & W thru middle of lots
- @ 151.2 spike on old off. net spike
- @ 209.7 spike on line @ 283.3 spike 2.3 ft E of SE cor ice house
- 300 pin @ 413.7 spike in E road
- @ 473.3 fence @ 476.3 spike at edge of R of W of Co Road Point for I M cor to lots 6-7

$\pi$  over spike hub. @ cor of garden B 3  
S on spike set for cor to lots 7-8

From spike under  $\pi$  chain S @ 57.0 spike @ 90.10 spike hub on our old off. line thru middle of lots @ 124.2 spike in E stone line walk

@ 165.8 spike on wedge of rock on E side of walk. @ 185.7 spike hub E side of rock on E side of walk @ 202.5 N edge of stone lined walk @ 209 S edge of stone lined walk @ 214.55 spike on brick point for I M bet Lots 7-8

From  $\pi$  chain N @ 216.1 spike in E road. @ 234.2 spike on R of W point for I M bet Lots 7-8  
quit @ 5-45



Ponto Lake

92 July 14-1947 Monday  
Walt and I & Walker in  
my car @ 8 o'clock drive  
to Hackensack buy Gas 1.00  
drive to N shore of Ponto Lake  
cut out right of way line  
of Co. Road.

Then second offset on our old  
line thru middle of lots

Then 60° spike between  
lots 8-9 site S on spike hub on  
line

(Note) These points were set  
May 30-1947 - By H.C. - J.W.C.,  
and Walt Miller with

Club members showing about  
where they want the lot lines  
to go to fit the buildings

beg. @ 60° spike where R of way line of  
Co Road intersects Lot Line bet  
lots 8-9 chain South bet lots  
8-9. @ 4.30 p.m. @ 54.4 spike in  
E road. @ 90.3 spike in E second  
road. @ 262.4 spike on our second  
offset thru middle of lots



- @ 322.0 hut 60' spike on our old line  
 @ 361.9 " 60' " 2 1/2 ft W of pump  
 platform @ 390.8 spike on line bet 8-9  
 @ 420.4 N edge of stone lined walk  
 @ 425.4 S edge of stone lined walk  
 @ 427.5 spike on brink point for IM  
 bet lots 8-9.

From spike on our old line  
 chain S @ 59.6 spike on line bet 9-10

- @ 106 put stone line walk W side  
 crosses over into lot 9. from 70.  
 @ 135 E side of same stone lined walk  
 @ 154 N edge of stone lined main walk  
 @ 159 S " " " " " "  
 @ 161.6 spike point for cor bet lots  
 9-10 on brink

Chain N bet 9-10 From  
 our old offset line @ 140.8 spike  
 in line bet 9-10 at base of 14" SP on  
 line @ 159.6 spike in  $\Phi$  road  
 @ 224. spike in  $\Phi$  second road  
 @ 256 cross fence @ 261 spike on  
 edge of R of W Co. Road Point for IM  
 bet lots 9-10



beg @ spike on R & W line  
 bet lots 10-11 chain S  
 @ 6 ft cross fence  
 @ 29.9 spike in road,  
 @ 118.2 spike E side 20" W.P.  
 @ 133. spike in road at turn of  
 road, @ 259.6 spike bet lots  
 10-11 on our old offset line  
 @ 405.3 N edge of stone lined walk  
 @ 410.9 S " " " " "  
 @ 414.4 spike on brick Point for IM  
 bet 10-11.

beg @ spike on our old offset line  
 bet lots 11-12 chain South  
 @ 138 N edge of stone lined walk  
 @ 143.5 S edge of " " "  
 @ 144.3 spike on brick point for IM  
 bet lots 11-12

From our old offset line chain  
 North @ 18 spike on line center  
 of 16" N.P. @ 118 spike in & road  
 @ 155 road 12 ft E @ 186.6  
 spike in & road @ 252.3 fence  
 @ 258.10 spike on edge of R & W

Co. Road point for IM Cor to Lots 11-12  
beg. @ N.E. cor Lot 12 bet 12<sup>th</sup> street  
on Co. Road, chain South @ 6.30 p.m.  
@ 149.4 spits on line bet Lot 12 & St.  
@ 256.5 spits on our old affect line  
@ 319.2 spits bet Lot 12 - street  
@ 406.9. spits at foot point for IM  
SE cor Lot 12 bet 12<sup>th</sup> Street  
Lv for home @ 5-30



96

## Ponto Lake

Ohama Lakeouting Club.  
July 30, 1947.

Walt and I, Lo Walker in my  
car. @ 8-30 drive to Jenkins  
pick up 30 I.M. and drive to  
Ohama Lakeouting club  
N shore Ponto Lake where we  
drive in I Ms at all hot coisurs  
eat dinner

P.M.

we go to hub 87.7 N of hub 963.3

We correct hub 87.7 N goes E .49

We set a tall stake on true W line

We go to hub 414.4 N of 963.3 and

correct hub 414.4 N goes E 2.05 to

True W  $\frac{1}{16}$  line

True corrected hub 414.4 N of 963.3 BS, S.

on corrected hub 87.8 N of 963.3 and

continue N  $1^{\circ}19'E$  on true W

$\frac{1}{16}$  line

We cut line N about  $\frac{1}{4}$  mile

J.W.C. arrives around 5-30 talk to Houston

leaves Walt & I set hubs on our cut

out line Myers want to know the

cost to cut out SE of SE sec 4 will see

later Walt & I lo. Ponto @ 6-50

arrive Walker 7-40

H.J.C.

Ponto Lake

97

July 31, 1947

I work on Map of Ponto North  
shore until 11 o'clock.



98 Aug. 1-1947

Walt and I L. Walker in my  
car @ 10 o'clock drive to  
Ponto Lake and continue cutting  
W  $\frac{1}{4}$  mi. of Sec. 3. -139-29  
we find we can not finish  
so quit @ 6 o'clock 1 hr for  
dinner

Aug 2, 1947 Sat.

99

Walt and I L<sup>v</sup> Walk in my car @ 8.30 drive to sec. 3-139-29 Porto Lake where we finish cutting out the W  $\frac{1}{4}$  line of sec. 3-139-30 where we set a 2x30" I M on E & W fence line @ a fence post for the true W  $\frac{1}{4}$  cor on Town line bet sec. 3- & 34

With Trees

Red Oak 8' N about 50° W 17.15

Pop. 20' S " 70 W 13.10

Walk back to car drive @ 1 o'clock drive to store where I get a bottle of milk eat lunch

Walt wants to come home after we eat says it is Sat and we should go get clean up for Sunday, P.S.

I drive to cor 3-4-9-10 then take old road west to about 3900 E of NW cor of sec. 4 where we look for and find 120' spike on old random line North side sec. 4-139-29



Walt does not want to  
do any thing althou he does  
I Lv him @ 3900 and walk  
West to  $\frac{1}{4}$  I do not find I.M.  
set by case in 1934. but  
locate The Ties Talk to some  
people on long lake who have  
been trying to get JWC to run  
their lines walk back to car  
and as I know walt does  
not want to work but to get  
to where he can buy beer to come  
home.

Lert. has a party

Sunday Aug 3-1947

All day at home  
mostly alone @ Hart  
works J.W.C. off with the  
Kido some place



①

103

139-29 Sec

NCN° 50 US Notes BP9S 64°W 10 = 6.60

LN 66°W 21 13.86

MCA 57 NP 15N 81 1/2°W 50 = 33.00

NP 12N 36°E 61°40.26 F

S 88°47'E

2045.8

80° 47'

1322.9

1322.9

82° 1322.9

82° 1322.9

630 LK5  
N 158° 01'  
MCA 57  
80° 47'  
487 LK3  
321.42

S 88°49'30"E

N 88°49' 1/2°W

S 88°52'E

S 88°52'E

NORTH

88° 52'

N 0°01'E

N 0°02'E

N 0°02'E

S 0°02'W

1321.45

1321.45

S 88°57'E

2042.9

1.95

88° 52'

Aug 18-1947

Walt and I L. Walker in  
my car @ about 10 o'clock drive  
To car to see 8-9-16-17.

Where J.W.C. old notes book 226

Pg. — says

I.M. set 6" below road level in  
center of E wheel tract.  
with this Vig.

Pop. 10 S  $19^{\circ}25'$  E 83.00

J.P. 7 S  $40^{\circ}40'$  E 73.04

J.P. 8 N  $63^{\circ}30'$  E 61.30

60% spike in heart of 24" W.P. stump N  $26^{\circ}33'$  E 75.10

Birch 4 N  $21^{\circ}25'$  E 43.93

Tel. Pole 10 N  $8^{\circ}$  W 163.6

" " 6 S  $52^{\circ}25'$  W 27.05

Fence runs S  $88^{\circ}57'$  W 31.6 To car Post 8'

Var. 6'25" Turned From road line E.

We measure in from the 10" Pop.

4" Birch - Fence post, and closest Tel. Pole

and dig down and find the capped I.M.

We then drive  $\frac{1}{2}$  mile E to  $\frac{1}{4}$  car

lot 9-16. where J.W.C. notes Book 226

Pg. — says I.M. 4" down in  $\phi$  E+W  
road. with this Vig.



Ties To  $\frac{1}{4}$  south side sec 9-139-29

J.P. 7 N  $15^{\circ}10'E$  33-10

Old U.S. B.T. N.P. 18" is 24" sets N  $71^{\circ}40'W$  47.00

Fence runs  $S0^{\circ}50'E$  32.3 To 8" cor Post  
N side Var.  $6^{\circ}20'$ .

We find the 7" J.P.

The N.P. is gone The Fence cor Post  
is rotted down we chain in from  
the J.P. and bottom of cotton fence  
post dig down and find the capped  
I.M. as the line crooks here  
we chain N. 1.95 and drive a 60"  
spike on straight line

We drive To N.W. cor sec 9-139-29  
where I.M. set up plain

We drive To  $\frac{1}{4}$  N side sec 9.

where J.W.C. notes Book 226

Pg. — says This Dig.

J.P. 1 N  $70^{\circ}40'E$  36.70

J.P. 8 N  $16^{\circ}W$  10.50

Pop 14 N  $42^{\circ}20'W$  62.75

J.P. 9 S  $55^{\circ}20'W$  25.70

J.P. 15 N  $57^{\circ}10'W$  88.45

From S.W. J.P. and N.E. J.P. and the 8" N.W.  
J.P. we chain in and dig down and

Aug. 18, 1947 sec 9-139-29  
 find the 2x30" I. M. set by S.W. Curro.  
 We set a pop. stake in this pipe  
 drive back to NW cor sec 9,  
 as we can not see from NW cor  
 sec. 9 To SW cor. I work T on  
 line bet same, and set a  
 flag on line bet NW & SW cor sec 9  
 139-29

Turn SW cor sec 9 into N on  
 flag, and read the NE angle  
 to flag @  $1/4$  south side sec 9 =  
 $91^{\circ}03'$  - sec 19 this Book 271

Work T on line bet N<sup>W</sup> E cor sec 9  
 and  $1/4$  on N side sec 9.  
 set flag.

Turn N<sup>W</sup> E cor sec 9 into S on flag.  
 The  $1/4$  cor N side sec 9 bears  
 $S 88^{\circ}47' E$  see plat pg. 103 this  
 book 271

quit @ 6 o'clock.



Aug 19-1947

J.W.C. and I work at court house  
fig. angles for sec 9-139-29.  
see page 103 this book, 271

I pick up Walt @ 10-40 drive  
to NE cor sec 9-139-29 where  
we widen out burst on N side sec  
9.

Work T on line between the N  
1/4 cor and the NE cor sec 9-139-29  
From J.W.C. old 120° spike set  
on his random 3900 E of N.W. Cor  
Sec 9 see book 226 pg. —  
owe chain E 68.7 To 3968.7 and  
set a 60° spike for E 1/4 cor N side  
sec. 9.

T over NE cor sec. 9 BS W on  
flag. and Turn S E angle  $88^{\circ}49'$   
and run South @ 264.10 spike hub  
quit @ 6-15-

108

Aug 20. 1947

Walt and I L.V. Walker 9-30  
 drive to Hackinsack and I  
 get 100+ stakes  $2 \times 2 \times 16$  for  
 Ten Mile Lake plat. I Pay \$2.50  
 We then drive on to Porto Lake  
 arrive 11-10.

Tower NE Cor sec 9-139-29

Varner on  $0^\circ$  site South on our spike  
 set last night Birch Tree very

Birch 5 S  $15^\circ 13' E$  96.43 this Tree  
 Leaves S and is where the line was to be run

" S  $16^\circ 19' E$  95.55

60<sup>th</sup> spike S  $14^\circ 45' E$  95.35

K still @ NE cor sec 9 we

run S  $49^\circ 16' E$  242.5 To sta ①

Top of sta ① BS N  $49^\circ 16' W$  and run  
 S  $31^\circ 52' E$  52.9 = 60<sup>th</sup> spike set for Taylor  
 broken off S.P. which marks this  
 end of line sets S  $34^\circ 45' E$  62.3

This Pin sets @ water's edge

Tower NE Cor. sec 9-139-29 BS West

Varner @  $90^\circ$  and run S  $0^\circ 30' W$  125.22 To  
 station E of road.

K still @ NE cor 9 run S  $3^\circ 17' W$  243.6



To sta ① @ 200  $\frac{1}{2}$  of road Turns R R.C.

@ sta ① road  $\frac{1}{2}$  16 ft W

Over sta ① BS N  $3^{\circ}17'E$  and run

S  $54^{\circ}35'W$  747. // to sta ②

@ 40 ft  $\frac{1}{2}$  road R.C. or EC.

@ 300 lake shore 50 L

@ 600 " " 50 L

Sta ② " " 80 L

Over sta ② BS N  $54^{\circ}35'E$  and

run S  $36^{\circ}04'W$  245.4 Sta ③

@ 156  $\frac{1}{2}$  6 ft L

Sta ③ lake shore 35 L

Over sta ③ BS N  $36^{\circ}04'E$  and

run S  $43^{\circ}W$  408.7 To sta ④

@ 200 drow or low place

@ 300 lake shore 40 L

Sta ④ " " 60 L

$\frac{1}{2}$  of road 6 ft. L " "

Over sta ④ BS N  $43^{\circ}E$  and

$\frac{1}{2}$  road. bears S  $25^{\circ}30'W$  112 ft

run S  $21^{\circ}48'W$  353.2 to sta 5

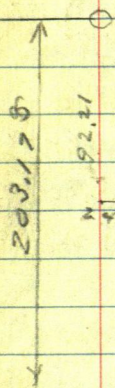
Over but 264.10 see page 107 this book

continue S @ 321.15 spike on sea wall

@ 332 water edge "

T @ 264.10 old U.S. B.T.  
 bears S  $24^{\circ}57'E$  30.30 to last  
 Needle reads  $7^{\circ}$

	S	E
Sta 1	92.21	24.28
2	158.24	183.70
3	44.93	27.93
	203.17	211.69



$$187.41 / 110.96 = (5920708 = 30^{\circ}38')$$

Cor. 860446

8960

30 38

29 22

$$860446 / 187.41 = 217.82$$

(US Notes US.B.T. to MC. -57-61/9.10

N.P. 15 N  $81\frac{1}{2}$  W 50 = 33.00 OK

N.P. 12 N  $36^{\circ}E$  61 =

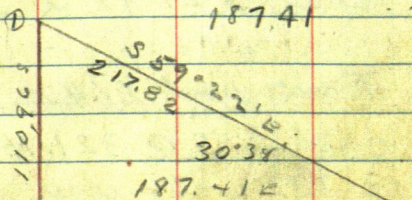
211.69E

203175  
 92215  
 110.96

211.69E

24 28

187.41



187.41E





From NW Cor Gov't Lot ONE

Sec 8-139-29 Run South on

True sec line @ 76.3 Run

S 61° 02' E @ 37.72 Set 2x26" pipe

R of way line : @ 97.2 RR Spike

@ 153.4 RR Spike in E old road NE

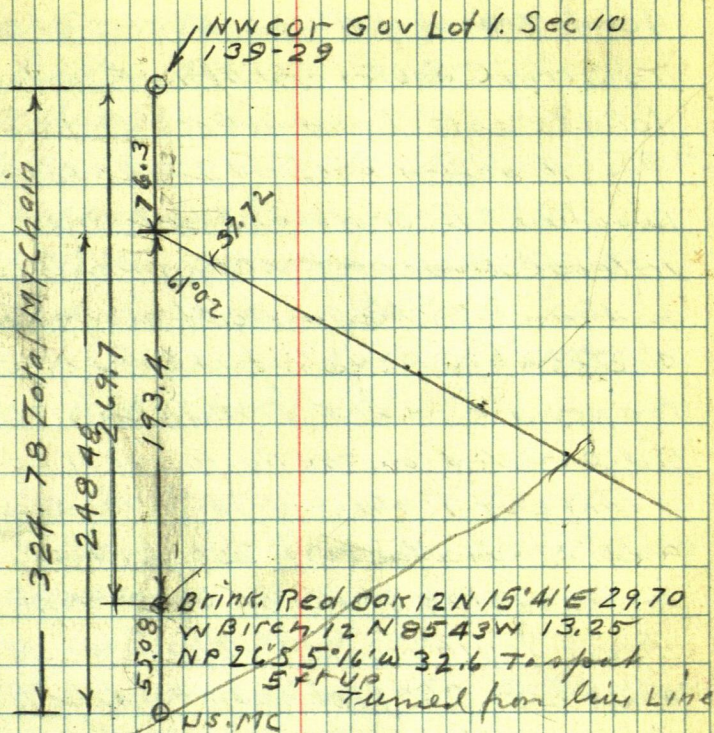
@ 159 set 60 d spike on so side 7" oak  
tight against the bark

@ 193.9 set 60 d spike on East  
brink of hill

@ 246.8 Set IM 12 ft W and  
12 ft North of water edge  
in Pontö Lake

@  $246.8 + 9.2 = 256.0$  = East end  
of Soules tract From here  
on Soules line with, to E of Lake





Joint tenant deed

Orrin C. Soules <sup>2nd</sup> Della F. wife

Joint Tenant Alice L. Eckles et al

To Orrin C. Soules and Della F. Soules

Joint tenants Land in Cass Co Minn

"A part of Lot 1 Sec 10-139-29  
Beg where SW Cor of said Lot One  
intersects the North shore of Ponto Lake  
and running thence North along the  
section line 248.  $\frac{1}{2}$  feet more or less  
to a point on said section line 76.3  
feet South from the North-west corner  
of said Lot 1; thence South 61 degrees  
and 2. minutes East 256. feet to a point  
on the North shore of said Ponto Lake  
thence South westerly along the edge of  
said Lake 260 feet more or less to the  
place of beginning Containing seven-  
tenths ( $\frac{7}{10}$ ) of an acre more or less  
The West line of said Lot 1. is considered  
a true North and South line in this des-  
-cription Subject however to the right-  
-of-way of existing public highways  
Subject to mineral rights and mineral  
reservation if any of record"

The above is a copy of the description I  
wrote in a blank Deed form Mr Soules  
Walker Minn Aug 25, 1947



# Contract

115

Note: Our rate for surveying a small Lake tract is \$35. Mr Soules is to pay half of the cost of survey.

My Contract with Mrs Eckles is \$350.00 if I cut Lot Sec 9 into 4 Tracts But! if she desires to plat it into 100 foot lots the cost will be \$150 more or \$500. total Verbal Contract only Lot 1 - Sec 9 - 139-29

The Soules tract is in Lot 1, Sec 10 and I promise to survey this small Gov't Lot 1, Sec 10 - 139-29 Free of cost and to survey the Soules tract free

But, Mr Soules is to pay Mrs Eckles \$17.50 for his half of the \$35.

116 August 25-1947

Harald and I in his car drive  
to Ponto. Call on Mr Huston of

PONTO NORTH SHORE

Mr Huston requests that we walk  
in the plat before filing the words  
in addition to where it reads.

"The South 50 feet of the North  
100 feet of this plat, is a right-of-  
-way easement for the use of all  
owners in this plat



Aug 24-1947

Glen Miller and I L. Walker  
about 10 o'clock. Gas-Oil-<sup>2.50</sup>  
drive to Hackensack where  
I buy Glen's Breakfast and  
cigs. for him 75¢ we drive to  
Ponto Lake

Tower E  $\frac{1}{16}$  cor = 60.9' spike on  
N side Sec. 9-139-29

site E and Turn R  $88^{\circ}49'$

and run S  $1^{\circ}11'E$  on Turn E  
 $\frac{1}{16}$  line Sec. 9-139-29

@ E  $\frac{1}{16}$  cor Kruickows Fence  
is 8 ft E

@ 300 pin @ 311.4 hub 60.9' spike  
This

R.O. 6 S  $36^{\circ}41'W$  33.10

J.P. 18 N  $87^{\circ}33'E$  16.20

Kruickow Fence is E 12.30 - to T.P.  
wire @  $90^{\circ}$  from hub

@ 600 stake @ 712.7 hub 60.9' spike  
This

Turn R.O. 6-6 use SE ~~corner~~ N  $47^{\circ}43'W$  7.9

crooked 10" R.O. N  $76^{\circ}47'E$  5.6

Fence E 18.2

Aug 24, 1947

@ 815' E of drow NW-SE

@ 900 stake @ 1200 pin

@ 1324.84 - hub 608 spike

True  $\frac{1}{16}$  cor Center NE  $\frac{1}{4}$  sec

9-139-29

This

R.O. 18 N 23°33'E 20.50

R.O. 18 S 43°03'E 37.6

True  $\frac{1}{16}$  cor

Run S 89°57½'E on Trench

N  $\frac{1}{16}$  Line sec 9-139-29

@ 27.95' Kuckow fence

I turn onto line E

While I go back for car  
we cut line to the road  
and go home L.O. @ 6-15'

Here and my Dinner 80¢

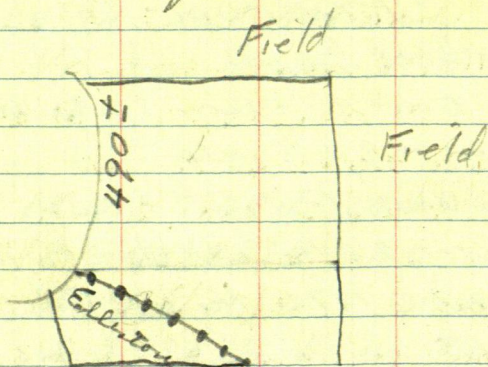
Harold Ciro

8 Hours @ 75 = \$6.00





The next 240 feet of that parcel  
described as follows: }





## Contract for Deed

A part of Tract Lot 1 Sec. 15-139-29 described as follows: That part of Lot 1 lying in the S.W. Corner of said lot and containing 490 feet more or less of Lakeshore on the N.W. Shore of Sand Lake also known as Lake No. 1 on Townships Plat map bounded on the East by the west fence of the Ellerton property and continuing Northerly to the fence partitioning the fire and timber on the north line, thence westerly along said fence, approx 490 feet thence southerly along the west fence line partitioning the fire and timber on the west side of this tract to the shore of Sand Lake, or Lake No. 1, thence Easterly to the East line of the Ellerton property, a distance of 490 feet more or less.

Also: The East 175 feet of the above described plat of land.

122

Gov't Lot 2 - Sec. 15 - 139 - 29

Aug. 9 - 1952 Sat.

I pick up Fred N. at  
Walker @ 8 o'clock. Drive to  
Sec. 15 - 139 - 29 where I meet  
James G. Terry. Vince come  
along, and they show me where  
they want the lines run.

at car axle IM on Fence line  
(Elleston West line) on bank and  
another at Elleston's NW Cor of fence.  
I offset & set 609 spikes westerly from  
each iron to get away from the line  
fence, and continue this line  
N  $37^{\circ}51'E$  116.2 from & fence post  
thence N  $14^{\circ}38'W$  125.4  
thence.







James &amp; Terry Sr. &amp; Eunice D. Terry

the NE quarter of the NE  $\frac{1}{4}$  and Lots 12-7-8  
all in Sec. 15 - Twp ~~139~~ 139-29 except  
the following described parcels

Commencing at the NE Cor of said Sec. 15  
run West along Sec line 1842.5 ft to a point;

thence S.  $5^{\circ}$  E 536.2 ft. to a point;

thence S.  $14^{\circ}40'$  E 194.6 ft to a point of  
beginning;

Thence S.  $37^{\circ}51'$  W 200 ft. to pt Thence S  $37^{\circ}37'$   
W 55.6 = (255.6) to a point on water's edge  
of Lake No 1: ~~th~~

thence S  $47^{\circ}54'$  E along water's edge 75 ft  
to a point;

thence N  $46^{\circ}59'$  E 55.6 ft to a point

thence N.  $46^{\circ}59'$  E 200 = (255.6 ft) to pt

thence N  $47^{\circ}53'$  W 115.9 to pt. of beginning  
 $\frac{1}{2}$  acres. in Lot 1 Sec 15-139 29

Also. except

Comm. at NE Cor Sec. 15 run West 1842.5

Thence S.  $5^{\circ}$  E 536.2; thence S  $21^{\circ}04'$  E  
423.3; thence S  $16^{\circ}52'$  E 189.4, Thence  
S  $6^{\circ}41'$  E 152.2 to place of beg.

Thence S  $73^{\circ}40'$  W 200 ft Thence S  
 $73^{\circ}40'$  W 35.4 to water's edge Lake No 1  
thence N  $16^{\circ}20'$  W 150 ft along water's  
edge of Lake No 1 to pt



thence N  $73^{\circ}40'$  E 357.4 to pt.

11. N  $73^{\circ}40'$  E 200 ft thence

S  $16^{\circ}20'$  E 150 ft to pt of beg.  $\frac{3}{4}$  Acre  
 Lot 1 Also Except

Parcel No 2 Ellingson lot being  
 parcel No 1

Commencing at NE Cor run W  
 1842.5 to pt; thence S  $5^{\circ}$  E 536.2  
 thence S  $14^{\circ}35'$  E 194.6 to pt of beg.  
 S  $37^{\circ}57'$  W 200 to pt on water edge of  
 Lake No 1 - thence S  $47^{\circ}54'$  E along  
 water edge 75 ft to pt; thence N  $46^{\circ}59'$   
 E 200 thence N W to pt of beg. Lot 1  $\frac{1}{2}$  A.

Starting @ NW Cor Lot 2 run E on N line  
 of said Lot 2. 20 ft thence S parallel with  
 E. line approx 74 ft to the E of highway 87  
 called pt of beg. thence continue S with  
 115 ft thence East parallel with N line  
 of said lot 220 ft to pt thence S 95 ft  
 to pt thence East parallel with N line approx  
 1080 feet to E line lot 2 thence N on E line  
 284 ft  $\pm$  to E highway 87 thence W on N line  
 of said lot 2 approx 1320.7 ft to place of  
 beg.  $\approx$  8 acres in Lot 2

And the said tract described as =

Bounded on the North by the South line of Rohne tract, on the W by lake on the S by N line of the tract formerly known as the Andersen tract & on the E by a line from NE cor of said Andersen tract to the SE Cor of Rohne Tract =  $\frac{1}{2}$  Acre Lot 1

The Rohne tract is described in Book 83 of deeds page 582

The Andersen tract in book 69 of deeds on page 291



Aug 11-1952

Nichols Fred & Ed + I drive to Sec 15-  
139-29 at the  $\frac{1}{4}$  Corner N side  
Sec. 15 bet 10-15-

old Notes Book 414 on page  
28 - dated Aug 3-1942 says  
@  $\frac{1}{4}$  bet 10-15 US Notes call for  
NP18 S 41°W 77 = 65.82

NP24 N 30°E 134 = 88.44

Find Old NE B.T. drive big RR split  
8 ft N of  $\frac{1}{4}$  cor road True  $\frac{1}{4}$  Cor  
Torey  $\frac{1}{4}$  Pence E

Old B.T. stamp bears

N 30°55'E 88.44 Now 30"

another 30" NP. stamp sets

N 37°50'E 87.44

New ties to  $\frac{1}{4}$

Blk Oak 9 N 35°E 91.10

W.P. true 30°N 82°W 109.70

I.M. South

We find all ties and set pt for  $\frac{1}{4}$   
drive E to NE cor Sec 15-

old Notes Book 414 - on page 41-42  
says

SE cor Sec 10-139-29

$1\frac{1}{2} \times \frac{1}{2} \times 8"$  drift bolt

J.R. 9 N  $42^{\circ}20'E$  68. ft

NP 20 N  $25^{\circ}50'E$  82.25

NP 22 N  $55^{\circ}30'W$  89.8 in cemetery

Power Pole 10 S  $43^{\circ}30'W$  36.8

" Anchor Pole 8 S  $30^{\circ}E$  32.9

J.R. 8 S  $41^{\circ}10'W$  400  $\pm$

We chain in from Power Poles  
and find the drift bolt

set flag drive W to  $\frac{1}{4}$

Then  $\frac{1}{4}$  S. to E on flag @ sec. cor  
and chain E 800.5 to pt 1842.5 W  
of NE cor Sec 16 at 60 ft spike on  
line N line Sec 16.

Then 60 ft spike on N line Sec. 16  
1842.5 ft W of NE cor run S  $5^{\circ}E$   
536.2 at 60 ft spike

Then 536.2 run S  $14^{\circ}40'E$  194.6  
pt of beg. Alleston tract

Then 194.6 run S  $37^{\circ}57'W$   
at 60 ft spike

From Pt of beg. run N  $25^{\circ}31'W$   
60.20 ft at 60 ft spike



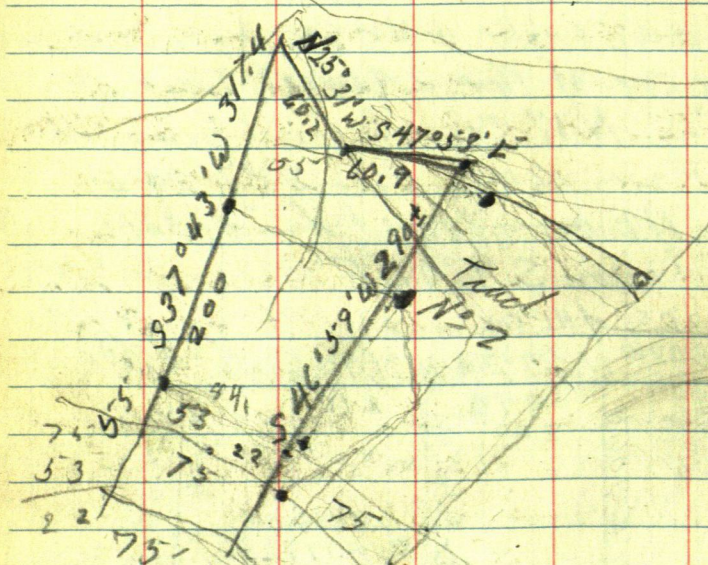






130

Ellingson Deed  
book 60 of Deeds on page 573



Leonard E Jensen  
568 S. Saratoga St  
St. Paul

Theo. J. Albright + Johanna his  
Wife to  
J. Magnus Rahre

Parcel N<sup>o</sup> 2 - Ellingsen Lot being  
parcel N<sup>o</sup> 1. Commencing at  
the NE cor. of Sec. 15 - 139 - 29. thence  
running W. along the section line a  
distance of 1842.5 ft to a point  
thence S 5° E a distance of 536.2'  
to a point 1 thence S 14° 35' E a  
distance of 194.6 ft to apt. of beg  
Thence S 37° 51' W a distance  
of 200 ft to a point on the waters  
edge of Lake N<sup>o</sup> 1 - thence  
S 47° 54' E along the waters  
edge a distance of 75 feet to a  
point thence N 46° 59' E a  
distance of 200 ft to apt.  
thence NW to pt of beg  
enclosing a tract of ground  
containing 1/2 acre being in lot  
1 Sec 15 - 139 - 29

This deed is given to correct the  
description in deed made aug 24 - 1935  
recorded in book 79 pg. 452



$\pi$  over IM old Point of  
Beginning called for in  
Deeds Site  $N 25^{\circ} 31' W$  on  
IM and run  $S 47^{\circ} 53' E$  60.9  
ft set point

$\pi$  over 60.9 BS  $N 47^{\circ} 53' W$   
and run  $S 46^{\circ} 59' W$  to lake

$\pi$  over pt on lake BS  $N 46^{\circ} 59' E$   
run along lake shore 75 ft

From pt 75 on lake shore  
run  $N 46^{\circ} 59' E$

Tac I Mold Ptof beg. site  
N 25° 31' W run S 25° 31' E



Dec. 16<sup>th</sup> 1952

Warm sunshining. I call  
Vincent @ Backus 15 FMI  
he has the papers he thinks I  
get Hert & Gas and drive to  
Vincent's place between Hackensack  
and Backus on 371

Elmer Ellingson  
Nicollet Minn.  
Box 102

Dec. 17-1952

Don & I drive to Lake No 1 south of Ponto Lake in Section 15-139-29 Ellingson's Tract being Tract No 1 in Lot 1-sec. 15

From I M Ellingson's <sup>Now</sup> SW corner chain Easterly along bank of Lake No 1 a distance of 84.95 feet to I. M. ~~Now the~~ S E. Cor of said Tract (Note) these iron's were set at the 200 foot point as his deed calls for the Lake has come up - so that the 55 foot I.M.s are in the lake

The 4 I. M. at Ellingson's 4 Cor. are car axles and have been set a long time

Over said S E I. M. I site N E ly. thru I M at N E cor and continue line N E ly.

From said S E I M I chain 84.95 ft along sea wall and set a 60 ft spike for Leonard E Jensen's S E cor @ 79.8 there is a 1/2 x 18" Lead pipe set by Jensen I take this up. &



From IM at Ellingson's NEly cor. I chain Easterly in line with Ellingson's Northerly line 115 feet and set a point

Then over 60 ft. spike Jensen's SE cor site Northerly through 115 ft. point and set a 60 ft. spike for Jensen's NE cor. New cor. This line passes the easterly edge of  $\frac{1}{2}$  x 18" Lead pipe set by Jensen for his NE cor.

Then over IM point of beginning call for in deed. I site  $N 25^{\circ} 31' W$  on IM Ellingson's New NW cor and run  $S 25^{\circ} 31' E$  80.6 ft to intersection of Ellingson New North line and his old East line extended

Then over 80.6 BS  $N 25^{\circ} 31' W$  the East line of Ellingson's Tract runs  $S 46^{\circ} 55' W$  @ 63.6 the old IM, NE cor. of said tract @ 263.4 I.M. on bank of Lake No. 1, Ellingson's SE cor now about 18 feet from water edge

T still @ pt 80.6 B.S. N  $25^{\circ}31'W$   
and run. S  $24^{\circ}14'E$  123.3 to  
point for Jensen's New NE cor  
Tower 123.3 B.S. N  $24^{\circ}14'W$  and  
run. S  $54^{\circ}57'W$  239. feet  
to 60' high on seawall Jensen's  
SE cor.

I drive 2x30" Iron pipe at  
Jensen's SE cor, at his New  
NE cor and also at his New  
NW corner,



Ponto Lake  
Lot 3 Sec. 15 - 139-29

A. H. Hinshaw & Grace C  
to

A. M. Duff and Anna Duff

Commencing at the NW Corner of Lot 3  
Sec. 15 Twp 139- R 29 following high  
water mark of shore line of Ponto Lake  
Thence E 50 ft following said high  
water mark of said shore line Thence  
in a NE direction to main road thence  
West 50 ft following said road  
thence Northwly from road to highway  
mark of shore line to place of begining  
Intention is to convey a strip of  
Land 50 ft wide extending from  
Ponto Lake to said road.

Work  $\pi$  on line between MC and  
NW cor bet sec 15-16

highway 110 S - 33- E chain N  
@ 110 - 3.8 = 106.2 hnt - 110 + 190 + 8.7  
= 308.7 hnt under  $\pi$  Turn 90°

10° off + 72.7 = 381.4 to MC

Sine 173448

water 18 N

Cosine 984808 into 50 = 50.77

984808 " 150 = 152.31

984808 " 250 = 253.87

243.87  
 102.21  
 101.34

3087  
 727  
 3814

170.5 - 92.139

Tower 50.77 ran N 80-5.5-74.15-  
 S 170.5 pt for IM 33 ft Westely  
 and 90 ft N from E road.  
 Water 18 ft N

Tower 250 ran NC 92.15 pt for IM  
 15 from water South 44.0 - 136.75  
 887

150. hit ship 76.35 to pt for IM  
 33 from E 40 S to E 182.7 N to pt  
 for IM. Water 18 ft

Tower converted but 32

83  
 3  
 247



140

Hohage, Lots 12-13

KINNE - Comp Lot 1 Sec 16 - 139-29

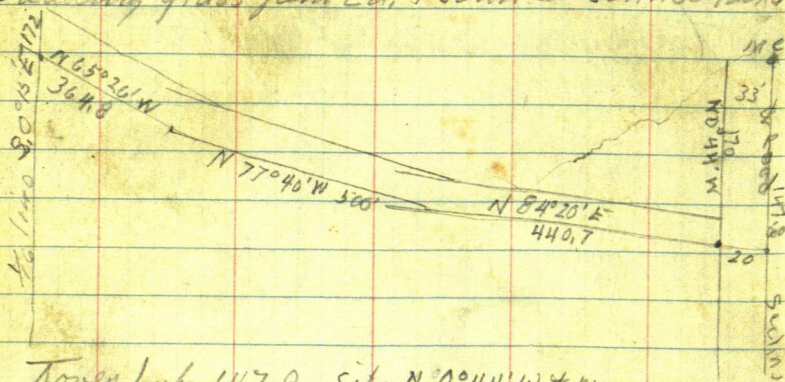
July 27-1959

Don + I to Kinne Camp.

Turn I M on Ac. line at flag on line  
from flag. chain Nover brush, 70'  
pin + 64.95 I M M E Galv. capped I M,

170	70	170	134.95	147.8
147.8	134.95	134.95	35.05	22
22.2		35.05 OK	14000	70

Turn but 40' split 170 S of M E  
chain N 22.2 to 147.8 S of M E  
according to plat on file. Send Don to get  
reading glass from Ed. + John at Johnson Lake



Turn but 147.8 site N. 0° 44' W + run  
S 84° 20' W 440.7 + 33

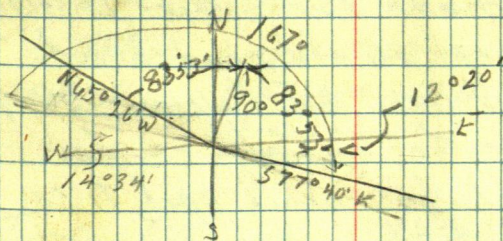
Turn 473.7 site N 84° 20' E and run  
N 77° 40' W

Don + I to Backus no brush hooks  
on to Pine River Brush hook 5.99  
dinner 1.40 back to Porto Lake

N 0°44' W 20 ft

$$\sin = 0.12799 \times 20 = .26$$

$$\cos = 999918 \times 20 = 19.998$$



$$\begin{array}{r} 89^{\circ} 60' \\ 77^{\circ} 40' \\ \hline 12^{\circ} 20' \end{array}$$

$$83^{\circ} 53'$$

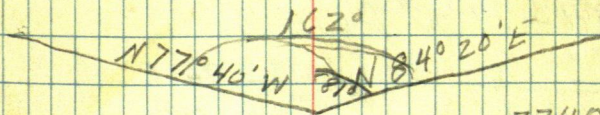
$$\begin{array}{r} 83^{\circ} 53' \\ 2 \\ \hline 167^{\circ} 106' \end{array}$$

$$\begin{array}{r} 89^{\circ} 60' \\ 65^{\circ} 26' \\ \hline 14^{\circ} 34' \end{array}$$

$$\sin = 994307 \text{ into } 20 = 20.01$$

$$\cos = 106553 \times 20.01 = 2.13$$

$$\begin{array}{r} 65^{\circ} 26' \\ 12^{\circ} 20' \\ \hline 77^{\circ} 46' \\ 90^{\circ} 00' \\ \hline 1107^{\circ} 40' \\ 83^{\circ} 53' \end{array}$$



$$81^{\circ}$$

$$\sin = 987688 \text{ into } 26 = 20.25$$

$$\cos = 156434 \times 20.25 = 3.17$$

$$\begin{array}{r} 77^{\circ} 40' \\ 84^{\circ} 20' \\ \hline 162^{\circ} 60' \end{array}$$

29.1 to pt in dock



## Ponto Lake

NOV-7-1956

Cold  
Snowing.Ed & I drive to Ponto Lake  
pick up at his

house near Corte Sec. 2-3-10-11

drive West on old road about  
1200 ft Lr car walk West 600 ft  
and Locate our old random  
60.9 apik hub walk back to car  
get  $\pi$  + tools

old hub is at 3296.6 ft

E of cor to 3-4-9-10

Will look for hub on reavall

@ 2814.4

see ties on page 33-34 this  
bookas we want  $\frac{1}{2}$  of Lot E of Lake@ 3843.87 pt for E  $\frac{1}{4}$ 

- 2814.4

3296.6

2 1029.472814.4

514.78

482.2

482.2

32.58

3843.87

3296.6

547.27

820.5-

143

We correct hub 3296.6

" " " 2814.4

Then correct hub 3296.6 E  
 Site ~~then~~ corrected hub 2814.4  
 and run ~~E 75° 36' N~~

E 75° 20' N 816.5 ft

Then IM run W 14° 40' N 214.7

Earl D Oliver  
 Backus Minn

5125.15 ft

see (3) - 139 - 29

2542.58

1281.29

1281.29

1281.29

1281.29

5125.15 ft

3843.87



144

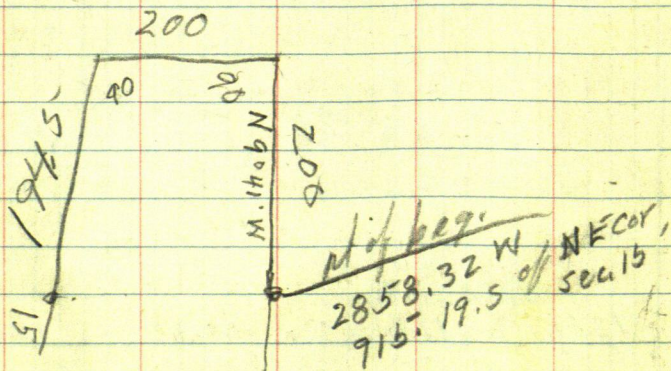
Edmund E Martineau

Nov 10<sup>th</sup> 1956 Sat

Don & I & Lu Walker drive  
to Vincent. He says the  
Tract to be surveyed on Lake No 1  
is to be 200X200 with the  
buildings to be in about Center

"We go to I M <sup>SW cor. tract</sup> bank of  
Lake No 1 site N 9° 41' W on  
I M <sup>NW cor.</sup> and run S 79° 59½' W  
282.2 to Pt. Tower 282.2 BS  
N 79° 59½' E run. S. 76° 06' W  
140.0 to SE cor of Martineau's  
Tract

Tower SE Cor BS N 76° 06' E  
run N 9° 41' W 200 ft





A tract or parcel of Land situated  
in Gov't Lot 2 Section 15 Twp 139<sup>th</sup> Rge  
29<sup>th</sup> W of the 5<sup>th</sup> PM Cass County Minnesota  
described as follows to-wit:

Beginning at an iron monument on the  
North shore of Lake No 1 also known as  
Sand Lake placed at a point  
2858.32 ft West and 915.19 ft South  
from the North East corner of said  
Section 15 and running thence N 9° 41' W  
200 ft. to a 2<sup>nd</sup> iron mon. thence  
N 80° 19' W 200 ft to a 3<sup>rd</sup> iron mon.  
thence S 9° 41' E 194.5 ft to a 4<sup>th</sup> IM  
thence in an easterly direction along  
said shore 200 ft ± to the place of beg.  
The land herein described extends  
southerly to the waters edge of said  
Lake No 1 and contains 92/100 acres  
as near as may be. The North line  
of said Section 15 is considered a  
true East and West line in this  
description together with an easement  
for a roadway 20 feet in width  
along the N side of the above described  
property and running N E to connect  
with a road running North to the public  
Highway Subject to Mineral rights + reversion of any



146

419.2  
71296 199.8

Feb 25 - 1958

Jim + I drive to Hand Lake see Kury  
then drive to Portage Camp

Turn IM on N line of Sec 14 - 139.80  
said IM is W 1/4 Cor bet Sec 14 - 23

begin IM MC on Rainy Lake chain  
E to said 1/4 and continue E

39.1 to E road arrive about 11 o'clock  
from MC to W 1/4 Sec 23 is 148.2 <sup>15 E of MC</sup>

Turn spike in E BS W and  
run S  $3^{\circ}13'E$  215.3 to spike in E road  
at 100 E 10' E in curve

Take 1<sup>st</sup> Cabin

NE Cor N  $67^{\circ}35'W$  126.6

SE Cor N  $75^{\circ}35'W$  118.7

SW Cor N  $79^{\circ}40'W$  148.1

E side 19'

S side 31'

Log.

water 65 ft in line with S line of house

Turn 215.3 BS N  $3^{\circ}13'W$  + run

S  $3^{\circ}39'W$  193.8 to Sta 2

Turn 193.8 BS N  $3^{\circ}39'E$  Take

2<sup>nd</sup> Cabin N  $58^{\circ}17'W$  114.7

NE Cor N  $67^{\circ}13'W$  105.4

SE Cor

SW Cor N  $72^{\circ}05'W$  134.4

Sta 2 is 61' W of E curve corner is 147  
139-380 ft each way from 2

cabin E side 21 S side 29 W 15

N 20.5° - W 6 - N 8.5

Water 70 in line with S. side of house

T still

Sta 11 S 13 S N 3° 39' E in 1

and run S 27° 41' E 412.5 to sta 3

370 because of road Sta 3 - 15 W of E

Corner 412.5 BS N 27° 41' W and continue  
S 27° 41' E 78.55

T still @ 412.5 run S 66° 06' E on E <sup>377.7</sup>

T still @ 412.5 run S 77° 53' W 167.3

Corner 167.3 BS N 77° 53' E run

S 46° 36' W 61.8

T still at 167.3 run N 50° 27' W 115.75

Corner 115.75 BS S 50° 27' E ~~61.8~~

Take 3 cabin

NW cor S 80° 20' W 50.65

NE cor S 77° 40' W 40.7

SE cor S 53° 00' W 49.9

N 10' - W 8 - N 8 - W 13 - S 19 - E 21

Tap 60 W in line S side of house

Corner 61.8 BS N 46° 36' E Take cabin

NW cor S 77° 38' W 90.8 E 9 N 8 E 4

NE - S 75° 30' W 70.2 N 21 W 15

NE S 68° 57' W 43. S 29.6

SE - S 61° 30' W 66.0 water 60.5



148

119.9

13930

412.5 + 78.55 hut  $\pi$  run<sup>78.55</sup>  
491.05 BS N 27° 41' W run S

S 4° 35' W 220.7

Tower 220.7 BS N 4° 35' E + run

S 11° 25' W 291.3

Tst 11 @ 220.7 run S 46° 20' W

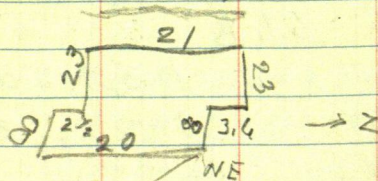
114.9

Tower 114.9 Take cabin

NE N 66° 08' W 60.6

SE N 84° 42' W 51.6

SW N 89° 07' W 82.6

Water 125  
in line with  
S. wall of Cabin

Tower 291.3 BS N 11° 25' E

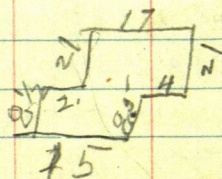
Take 6 cabin

NW cor. S 81° 54' W 135.6

NE cor. S 81° 25' W 114.8

S 79° 06' 106.7

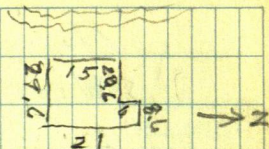
S 71° 08' 108.9

50 to  
water

Feb. 26-1958 139-30 78.55

149

Note! check house No 2



Cabin No 1 Tumble Inn

" No 2 Buena Vista

" No 3

" No 4

" No 5

" No 6

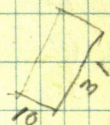
Note 377.7 B S N 66° 06' W on 412.5  
and run S 46° 17' E 139.1 St

Take dog house

" S 82° 30' W 57.8

S 60 15 W 42.7

S 50 11 W 40.7

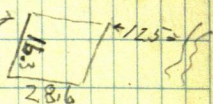


Cabin No 7 Hill Top

NW N 9° 52' W 174.3

SW N 8° 29' W 160.4

SE N 0° 48' E 170.1

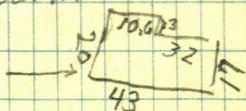


Garage + Barn + Cabin

NW N 2° 18' E 33.5

SW N 31° 03' E 17.0

SE N 57° 55' E 57.3

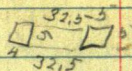




130

139-30

Clean Shed fish



SW Cor N60°38'E 79.7

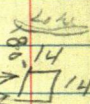
SE N61°13'E 85.4

Wood shed

NE Cor N75°18'E 119.6

NW Cor N77°08'E 105.5

SW Cor N84°08'E 110.2



Gas Pump &amp;

S 28°22'E 47.8

Tower 139.1 BS N46°17'W

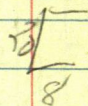
Run, S 62°41'E 154.6

Tool shed

NW N71°10'W 99.75

NE N74°34'W? 80.0

SE N80°00'W? 92.5

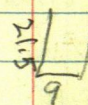


Cabin Oak Hill

NW S 70°46'W 133.1

NE S 68°05'W 125.1

SE S 61°14'W 139.4

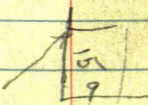


old shed

NW Cor S 58°58'W 163.7

NE S 56°18'W 157.8

SE S 53°43'W 172.0



1576

13930

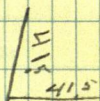
157

57.1

SW N 0°46' W 54.0

SE N 37°43' E 18.0

NE N 62°10' E 56.5

Lake 100 Lm  
Side

Tower 154.6 BS N 62°41' W and  
run S 38°37' E 413.65

Take boat house

SW N 12°32' E 40.0

SE N 32°26' E 28.75

NE N 39°41' E 35.75

8x16

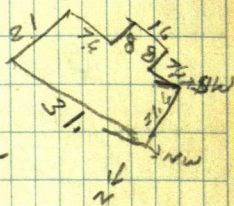
Tower 413.65 BS N 38°37' W Take Cabin  
run S 49°24' E

Take Port O Rest Cabin

SW cor S 51°14' W 47.1

NW cor S 2°35' E 29.95

NE cor S 26°02' E 55.1



out house 5x4

NW S 86°20' W 55.65

NE S 82°21' W 54.1

SE S 80°42' W 59.0

from hill and  
N 45° E 45' to  
Lake



152

139-30

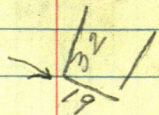
From hub 413.65 run  $S 49^{\circ} 24' E$   
 at 200 Lake into L-90° to  $\Delta$  in 45 ft  
 @ 300 min + 196.2 = 496.2

Town 496.2 BSN  $49^{\circ} 24' W$  lake  
 Cabin Jannneys End

SW cor  $N 10^{\circ} 50' W$  92.7

SE cor  $N 1^{\circ} 53' E$  76.1

NE Cor  $N 6^{\circ} 12' E$  107.0

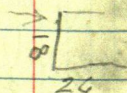


New house

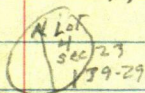
NW cor  $N 22^{\circ} 04' E$  104.9

SW cor  $N 22^{\circ} 30' E$  86.7

SE cor  $N 39^{\circ} 13' E$  82.5



[C] Copped mon in armit marked



bears  $N 48^{\circ} 06' E$  164.2

A. Leslie Smith

Owner & Mgr of

Portage Camp Resort

Box 201

Backus Minn

Brainerd

Teaches School at Brainerd

1321.75

N. 1/4 Sec 14 1318 25 133

13930

13

1325.25

1326.33

Sec 14-139-30

1/4 1/4  
1326.23

Rainy Lake

US  
ME

147.45 1/4 530.35

NW Cor Sec 14

Portage Lake

1318.25

1318.25

Sec 14

139-30

1321.75

1321.75

1325.25

1325.25

1332.25

1332.25



## Deeds

Book 90 of Deeds page 381 W.D. filed 9/6/45  
Lippke to Schrueder

a part of lot 3 Sec. 23-139-30 described  
beg. on E shore Rainey Lake & run East to I.M.  
placed at a pt. 792' N & 216.2' W from SW cor.  
Lot 3 thence East 421.62 ft to I.M. placed  
at a pt. 792' N & 400' E from S.W. cor.  
Lot 3 thence N 100' to I.M. thence W 405.92'  
to 4 I.M. thence W 20'± to shore of Rainey L.  
thence S to place of Beg.

## Lippke to Kuhns

Book 90 of Deeds page 383 W.D. filed 9/7/45  
a part of lot 3 Sec 23-139-30 described as  
Beg on E shore Rainey Lake & run E to I.M.  
placed 792' N & 216.2' West of SW cor lot 3  
run E 421.62' to 2nd I.M. placed 400' E &  
792' N from SW cor Lot 3 thence S 100' to I.M.  
thence W 392.07' to 4. I.M. continue W, 16. ft±  
to shore thence N to place of Beg known as Tract 7

## Lippke to Waldron (Glen)

Book 86 of Deeds pg. 207 (W.D. filed 10/24/44  
lance ± in SW cor of lot 3 Sec 23-139-30 described  
Beg at I.M. on W line of lot 3- 90' N of SW cor.  
thence S 90' to SW cor lot 3 thence E along S  
line 564' to I.M. thence N parallel to W line 90'  
thence W to place of beg.

Book 870 of Deeds page 531

Lippka to Norman. W.R. filed 9/7/45  
a part of Lot 3 Sec 23-139-30 described  
Beg. on the E shore of Rainy Lake run East  
to I.M. placed at a pt. 992' N & 11.58' E  
from SW cor Lot 3 run E 388.42 to 2nd I.M.  
placed 400' E & 992. ft N from SW cor Lot 3  
thence S 100' to I.M. thence W 405.92 to I.M.  
& continue W 20<sup>th</sup> to shore of Rainy Lake thence  
N 100' to beg.



156

Lot 3 Sec. 15 - 139-29  
Oct 28-1960

Walter W. Ponsford Backus Minn  
to Lawrence H. Johnson Grove City Minn.  
Arthur Peterson Attorney writes me that  
the description is NG as follow

That part of Gov't Lot 3 in Sec. 15-139-29  
Commencing at a pt on the shore of Ponto Lake  
6.5 ft South of the N. line said Lot 3 thence  
Northwly along shore of said Lake to North line  
thence Eastwly along N. line to a pt directly  
North of the Public road on the eastwly side of  
said lot thence S along Public Road R/W a  
distance of 113 ft  $\pm$  to an I.M. thence westwly  
to pt of beg.

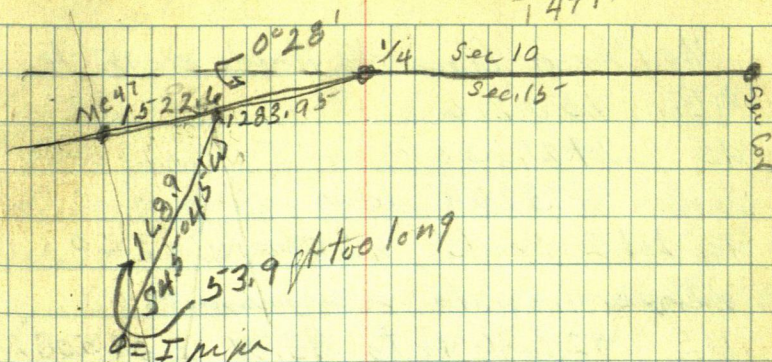
Ed + I to Ponto Lake we find  
Iron bolt at NE cor Sec 15 also  
big RR spike in tar road at by SWE  
for True  $\frac{1}{4}$  bet  $\frac{10}{15}$  from tie

Tower  $\frac{1}{4}$  N side Sec 15 site E on flag  
at NE cor Sec 15 + run S  $89^{\circ}32'W$   
1209.25 <sup>true</sup> To I.M. MC N<sup>o</sup> 47  
@ 1522.6

Note! This iron was in in 28 years ago  
Tower 1283.95 W = pt on line with R/W  
S, run S  $45^{\circ}45'W$

15226  
51  
14716

157



Tower pt 1471.6 W run S. 30° W

Sine 1500000  $\times$  75.06 = 37.53 W

Cosine 866.025 into 65 = 75.06

Tower 75.06 side N 30° E + run West  
to pt on rear wall

Tower I.P. pt BS N 45° 45' E 168.9

run N 70° 12' W 156.0 ft to pt on shore

Tower 156 BS S 70° 12' E IMMC bears  
N 24° 04' E 71.20

T still at 156 Pans feds 6.5 ft IM  
bears N 33° 03' E 6.5

T still at 156 take corners of cabin.

SE S 82° 11' E 70.65

SW S 88° 01' E 52.0

NW-N 79° 31' E 58.25

NW cor. N 76° 06' E 70.15



over



My Chain from  $\frac{1}{4}$  N side sec 15 to

M.C. 1522.6

US 1429.56

93.04 long

as. Lot 2 sec 15 US Chain 1320

proportionate measurements

US 1429.56 into 93.04 = .065082962

for each foot West the line goes .065082962 of  
a foot West 1320 ft W US. goes W 85.91  
to 1405.91

US notes give N line of Lot 3 as 109.56 ft  
+ .065082962 for each foot = 7.13 ft = 116.69'

Gov't Lot 2 Sec 15-139-29 139

Sept 26 1962

John + I to Hockensack see  
Vernant onto Backus cash check  
\$500, put 75 in Backus Bank  
drive to  $\frac{1}{4}$  cor N side Sec 15 chain  
west at 1283.95 find our old 60'  
spike. Tower 1283.95 site N  $89^{\circ}32'E$   
and run. S  $40^{\circ}26'W$  681.40

Tower 681.4 BS N  $40^{\circ}26'E$  run  
S  $68^{\circ}54'W$  826.1

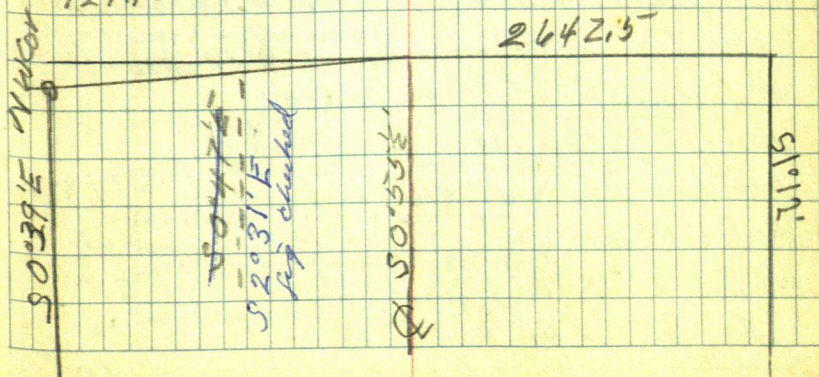
Tower 826.1 BS N  $68^{\circ}54'E$  run  
S.  $38^{\circ}33'W$  231.65 to IM on W line  
Sec 15

Tower IM BS N  $38^{\circ}33'E$  the East  
line of Sec. 15 runs S  $0^{\circ}39'E$   
259 ft to N  $\frac{1}{16}$  Cor

1485.91 W from  $\frac{1}{4}$  to W  $\frac{1}{16}$

1283.95 Wh spike on line with R/W of road SW  
12196

2642.5





Sat. Sept 1962

John &amp; I to Sec. 15-139-29.

Tower hut on N line. Sec 15-1283.95  
W of  $\frac{1}{4}$  mile S  $89^{\circ}32'W$  on I M M C  
E side Ponto lake run S  $89^{\circ}32'W$   
45 ft to hut = 1328.95 W being a  
77.00 ft E of pt for W  $\frac{1}{16}$  Cor NW Cor  
Lot 2.

Tower 1328.95 BS S  $89^{\circ}32'W$  + run  
S  $0^{\circ}47'E$  parallel to W  $\frac{1}{16}$  line. Sec  
15. hit brush move back East 5 ft.  
Still hit into Brush move E 10 ft  
more = 92.00 offset E of  $\frac{1}{16}$  line  
run south parallel to W  $\frac{1}{16}$  line

at 80 ft. Tan. @ 351.65 hut in E road  
+ 481.25 = 832.90 hut at Wedge of road  
+ 300 1132.90 pin at Wedge of road N + S.  
beg. of curve + 151.2 = 1284.1 hut

Tower 1284.1 BS N  $0^{\circ}47'W$  parallel to  
W  $\frac{1}{16}$  line and run S  $89^{\circ}32'W$  parallel to  
N line 92 ft to W  $\frac{1}{16}$  line

hut 1284.1 is 11 ft E of Fence

1284.1 + 94.5 = 1378.6 hut + 102.9 = 1481.5

hut 25 ft from water Tower 1481.5 run W

S  $89^{\circ}32'W$  92 ft to W  $\frac{1}{16}$  line 30 ft N of Water

See Book 202 page 148 fence 11 ft W

Continued in Book 202 pg 148

$$\begin{array}{r} 128396 \\ 48 \\ \hline 132895 \end{array}$$

1405-91  
13289  
77100  
1059

## TRIGONOMETRIC FORMULAE

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



169.9      220  
                  657

3.7

1689  
 115  
 539

210

224

240

285.7

440.7

438.8

1.9

19910

6.45

13.35

1209 223

12 2 60

22

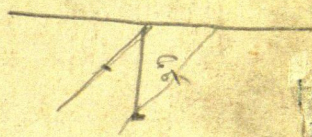
441.8  
 29.1  
 412.7

1209.23  
 313.35  
 1522.60



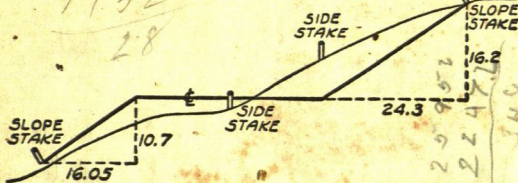
Mar

1154761



65  
 5773505  
 6928206  
 75.055565





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING  
SLOPE  $1\frac{1}{2}$  TO 1. ROADWAY OF ANY WIDTH

	.1	.2	.3	.4	.5	.6	.7	.8	.9	
4	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
5	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
6	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
7	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
8	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
9	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
10	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
11	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
12	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
13	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
14	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
15	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
16	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
17	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
18	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
19	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
20	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
21	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
22	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
23	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
24	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
25	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
26	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
27	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
28	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
29	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
30	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
31	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
32	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
33	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
34	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
35	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
36	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
37	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
38	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
39	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
40	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
41	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
42	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
43	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
44	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
45	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
46	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
47	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
48	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
49	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
50	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
51	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
52	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
53	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
54	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Distance of slope stake from side or shoulder stake for any width roadway, slope  $1\frac{1}{2}$  to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.