

223

FIELD BOOK

300 A

Ties 8-9-16-17 Pg 39-42



N<sup>o</sup> 223

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①

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Note: This Book belongs to  
John W Curo - or  
Curo Engineering Co  
Jenkins Minn May 2-1930  
If lost - Finder pleas  
notify owners immediately  
as they may need the book.  
Liberal reward.

John W. Curo



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Addresses Page 13-

see Ostland Survey 29-137-27 Page 22 Book 212

Hune Bros { 3 to 66

Grace Hardy { 89 to 103

Frank Baldridge 67 to 88

Atlewood 105 to 121

Finstad 122 to 157 Sec 5 and 8-134-29



June - <sup>D</sup>Hardy Survey

3

Part of Gov Lot 5 - Sec 17-137-27  
Continued from old surveys

March 10-1930 Monday

Go old and I with lunch and "New Ford" stop at Pequot Bank Buy pencil - at Golden Rule Store - See Mr and Mrs H. E. Luetke. Also find new 8x8 Cem Block about 6 ft N + 2 ft W of my  $\frac{1}{4}$  Cor bet 20-21-137-27 Luetke

says

several crews of "young fellows" were up here late last Fall surveying and may have set the cement cor  $\frac{1}{4}$  Bet 20-21-137-27

I call on Clarence Erickson who says War Dept Engrs were surveying their "80" and found my corners OK. except one NE?

Erickson says I may cut any trees along W Boundary line for survey purposes. We forget our chain Run Transit line and monkey pit 3PM and go home to Jenkins-Mathison house



4

Aune-Hordy 17-137-27

March 11-1930 Tues ②

Crusted snow - Bright sun - NW wind

Gerald &amp; I with our lunch Ls 9 AM

To over Cam Cor 17-18-19-20-137-27

Focus N on my old random turn

NE angle 91°33' run

East bet 17-20-137-27 @ 90° Ls

W. Bdry Gerald cuts line. I work  
on old notes in car

Copy Old Notes

18

17



TRAIL LINE

See My Old Survey Pg 92 Book 213  
Sept 9-1924 Simpson-Robertson

old  
Hub  
40.40  
1501.08 Feb 11-1925 Pg 10-Book 33 R Chain  
1500.00 Sep 10-1924 " 95 " 213

correction = .026957 E = 1°33' Pg 21 Book 33

" Pg 24 Book 33 Pg 29 Book 33

" " 33 " 33 " 38 " 33

" " 40 " 33

Hub  
1320.00  
on random

35.60

My old random

1321.15 vertical

S 1/16 = 1X16 OAK Hub JP 4 N 47°45' E 17.95 FT.  
OAK 3" S 52°10' W 60.30. TWIN 3" OAK stump  
bear S 50° E 2.45 To Flat spot & back  
Lined from trail line Pg 40 Book 33.

1°33'

18

17

USCANTON  
10x10

19

20



③

Aune Hardy Survey - 137-27

Go old and I find old Hub at S  $\frac{1}{16}$  Cor  
Bet Secs 17-18-137-<sup>27</sup>~~26~~ We also find  
old Hub 1500 N on my old Random line  
Where we set backshot  $\pi$  over

C.M. @ Cor 17-18-19-20 - 137-27

BS N  $1^{\circ}33'W$  on random Hub 1500  
Turn NE angle  $91^{\circ}33'R$  and run  
East random bet 17-20

@  $90^{\circ}$  to True Sec Line 300-600

(<sup>3</sup>/<sub>4</sub> <sup>16</sup> old stump on line) 657.80

E. Set R.R. Spike 10 ft W of Brink  
Ties: NP 6 N  $11^{\circ}55'E$  15.00

WP 12"S  $83^{\circ}42'W$  46.80 Turned  
from true line Hi' cut Bank  
runs N  $40^{\circ}E$  - S  $40^{\circ}W$

668. cut bank 20 ft Hi'

700  $\pi$  old 12" pine stamp

705 Foot of bank - enter sand

beach 713.5 N Edge old 15"  
pine stamp; 724.80 cut notch

in log buried in sand Drive pistol  
shell in notch. 754.3 set R.R.

spike in sand, 770 about ent. ice

900-1200 on ice 1320 stake on ice

1500-1800 - 1820 stake on ice



6

④

East on ice Bet 17-20-137-27

2100 - 2400 - 2640 stake on ice

2700 - 3000 - 3300 - 3600 - 3900

3960 stake on ice 4200 - 4500

4800 - 5100 + 210 = 5310 East

intersect our true sec line from  
the South 5400 $5400 + 276.3 = 5676.3$ . Hit6" pine w/ blaze for our line  
tree on Hi' bank on East shore

Cross Lake 52 FT E of Brink

We put a long blaze on this line  
tree. From 6" Line tree chain

West bet N-21-137-27

@ 27. W @ 10x10 cern mon set by

War Dep Engrs Last Fall sets

S 13.6 FT @ 52 W Brink 20' Hi'

75' W Foot slope cut sand Beach

@ about 120 W. ent ice @ 276.3

intersect pin 5400

17-18-19-20-137-27

= 12x12 Cern Mon Set by US Engrs

20 or 30 years ago Tie's Vi'z

JP 10 N 61° 15' E 49.30

JP 12 N 44° 05' W 68.40

JP 11 S 40° 48' W 68.90

JP 15 S 40° 56' E 73.30



7

V or reads 6°30'

Random  
True

1500

1°33'

90°

ccm cor

17-18-19-20  
137-27 OK.

6.57 B.R.R.  
SPIKE

5310

CROSS

(17) OK

V

6.30' V or  
Random

N  
N

For 5600E

Trac 5676.3 E

5649.3 E

765224 E

27.0°

ccm MC?

13.6

339.3

(20)

on Page 337. Bk A<sup>r</sup>

True sec line  
339.3  
20-21-28-29  
137-27

BTS US call for

These are washed away 410 ft  
about. Gorold and I at home  
at 6-30 PM.

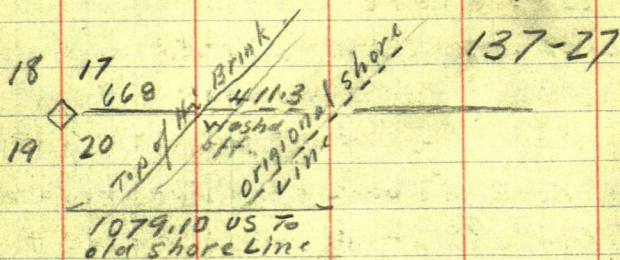
John W. Cress



8

⑥

March 12-1930 Wed



1/4 Bet 20-21-137-27

New BTS. P 42 Bet 214.

Oak 4 N 32° 40' W 41.40

" 3 N 81° 40' E 30.00

US Notes 1/4  
WP 24580 E 19=  
YP 18566 W 19=



June

Lat 5-Sec 17

③

137-27

9

March 12-1930 Continued

Reed stays home from school and goes  
with Garold and I take our lunch

Cross Lake

$\frac{1}{4}$  Bet Secs 20-21. 137-27

New BTS. Page 8 This book

The 2x48" Iron mon previously set  
by me has been pulled up but we find  
both New BTS from which we set R.R.  
spike by flat chain for True  $\frac{1}{4}$

Note: The US Surveyors last Fall must  
have pulled up my  $\frac{1}{4}$  mon because they have  
set a 10x10 Cem mon exactly on line but  
4.50 ft North. Beq @ my R.R. Spike  $\frac{1}{4}$  ch  
North on true line but 20-21-137-27

4.50 Cem mon - 3-6-9-

@ --- enlin Pine River ? ice

@ --- Island in River

@ 1100 about Lv Island enter river

238 ft wide @ 1250-

@ 1338 Lv River. @ 1373.5 N hit S. side  
old corpost of Fence blazed. 15-18-21.  
2121.8 hit 10x10 New Cem mon

2141 brink 10 ft Cut bank Cross Lake

NE-SW 2200 enlin ice 2400-2700

N. Station in



10

⑧

Reed meets Gerald and I with  
car and we drive N to N

N  $\frac{1}{16}$  Bet 8-9-137-27

Page 95 Book 201 Jan 24-1929 call for  
1 1/2 x 32" green Birch Stake & road

J.P. 15 N 22° 30' W 53.80 spot at base  
NP 12 S 72° 05' W 35.85 4° 00'

We find both trees from which we  
set R.R. spike by flat chain for  
True N  $\frac{1}{16}$  Cor

$\frac{1}{4}$  Cor bet 8-9-137-27

Page 92 Book 201 Jan 20-1919 call for

" 51 " 214 also Book 203.

Call for 2 x 48" Iron pipe

10" Br Oak Scribed N about 60° E 38.00

7" " " N about 45° W 34.65

11" J.P. S " 70° E 56.20 scribed

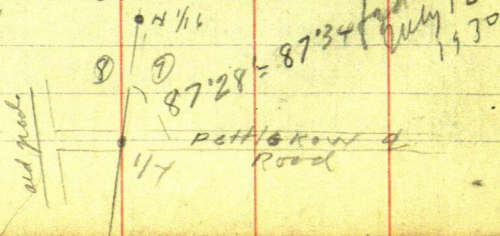
We set R.R. spike by flat chain for

True  $\frac{1}{4}$  Cor bet 8-9

X. Heller over  $\frac{1}{4}$  Cor Focus N on N  $\frac{1}{16}$   
Var reads 4° 00' Focus half a mile E  
on & road reads 6° 30'

NE angle reads 87° 28'

Eat lunch





Hume

(9)

Lat 5-sect 17  
137-27

11

March 12-1930 cont'd PM. From

1/4 Cor But 8-9-137-27 focus N on  
line line and run

South; bet 8-9-137-27 var 4' ?

Reed and Gerald at ch. F1/4 @ 247.0 R.R. spike

300 stake + 234.25 = 534.25 R.R. spike &

of old grade Co road NW-SE 600-620

sharp brink Cross Lake 15 ft hi Cut Bk.

900 side of Hi Cut Bank 1000 same. 1120

foot: N-SE: 1180 end in 1200 in

Foot of bank 50' L. Top 110 L. 25 Hi

1320 stake - Foot of cut bank 75 L - Top 125 L.

1400 Top of 25 ft bank 150 L ? @ 1500

Foot 75 L Top 125 L. 1600 Sand beach

5 L: Top 125 L 1800 Beach 20 L. Foot

75 L Top 100 L 20' Hi: 2100 sand 40 L

Foot 75 - Top 125 L 2400 beach 5 L

" 50 - " 125 L: 2640 stake on in

" Beach 10 L Top 110 L 2700 stake

2800 L line 2900 Foot of bank

3000 pinion side slope 3039.30 Hake

R.R. spike on top of point Howling NW  
wind compells us to quit at 5 PM

John A. Cress



12 Aunc-Hardy<sup>10</sup> Lot 5 Sec 17  
137-27

March 13-1930 Thurs

Cold wet wind Bright sunshine  
Reed goes to school on Bus I drive  
him up town Ground is frozen  
and as I do not care to risk  
my car tires on frozen ice I need  
Gracald and I stay home

I copy US Notes

US Notes: 9-10-15-16-137-27 In Lake  
West on Trac Line Bet 9-16-V 9°15'

27.07 Set M Post W. Side Daggett Lake

JP 6 N 3 E 19 =

Burr Oak 6 S 54 W 65 =

40.41 Set 1/4

YP 20 N 4 E 42 =

" 17 S 13 E 76

8061 Set M Post E. Side Cross Lake

YP 7 North 9 =

Elm 7 South 10 =

8082 Cor 8-9-16-17 In Cross Lake



⑪  
Addresses

13

Harry E. Peterson Cedar Falls Ia

222 N Francis St with

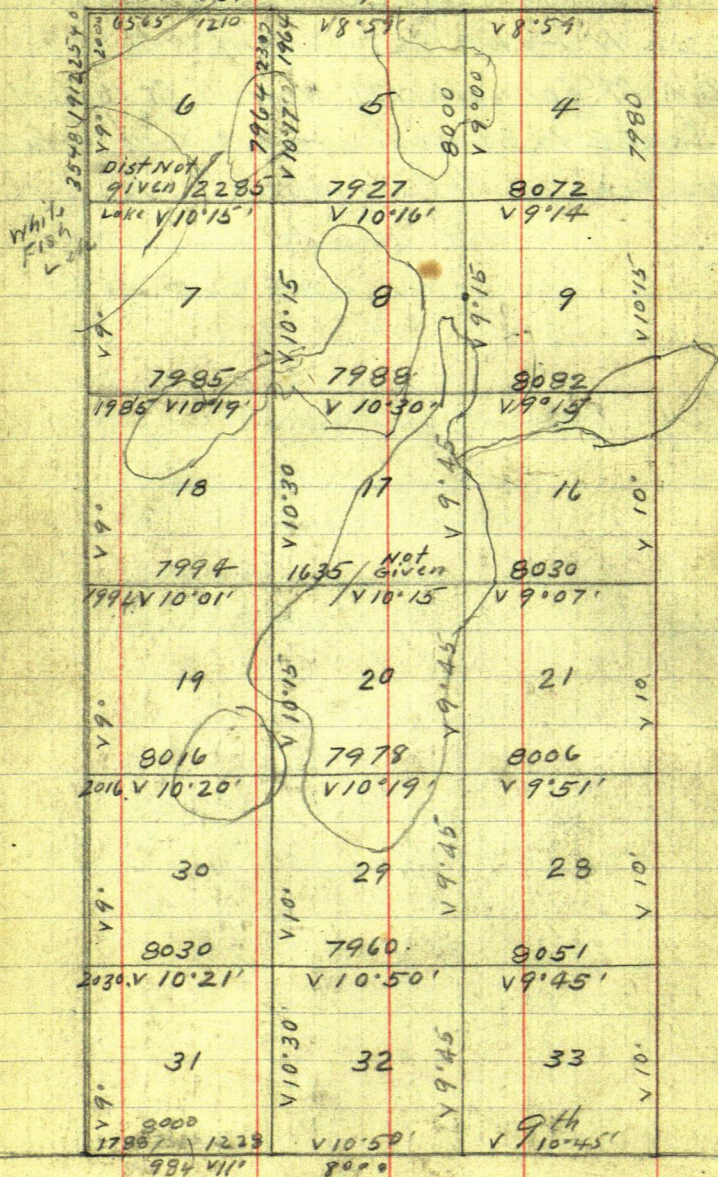
D. A. McConnell 121. Newell St Waterloo

Sept 2-1928 with alma & I at lake

Hattie - want lake shore



7775.859 T 137





U.S. Notes and Plot

13

15

R 27

5 PM

V 10° 15'	1980	V 8° 59'	1990	V 8° 59'	1900	V 8° 59'	20°
3	7990	2	7900	1			V 10° 12'
8005	V 10° 04'	7962	V 11° 11'	7990	V 10° 45'		8000
10	7970	11	7958	12	80.25		V 10° 30'
V 10° 15'		V 10° 30'		V 10° 42'			
15	7965	14	7991	13	8075		V 10° 45'
V 10°		V 10° 27'		V 10° 54'			
22	7980	23	8030	24	8016		V 10° 30'
V 10°		V 10° 30'		V 10°			
27	7980	26	8000	25	8000		V 10° 30'
V 10°		V 10° 30'		V 10° 30'			
34	V 10° 30'	35	V 10° 45'	36	V 11°		
Standard Parallel							
V 10° 45'		V 10° 30'		V 10° 30'			



16

6

(14)

5

US NO chain

V 10'15'

2285

7927 = 5231.82

V 10'16' US

7

8

19°

V 10'19'

7985 = 5270.10

5191.64 MYCH

7988 = 5272.08

US

18

17

9°

10'30'

9'15"

9'45"

US

1635 / ch Not Given

7994 = 5276.04 US

19

20

9°

10'15"

9'45"

5281.12 MY

5256.08 MY

8016 = 5290.56 FT

US

7978 = 5265.48

US

30

29

9°

10'30'

9'45"

5276.02 MY

9'51"

5278.74 MYCH

59'13"

8030 = 5299.80

7960 = 5253.60

5271.0 MYCH



# Aune-Hardy

17

4

15

3

137-27

8072=5327.52  
us

8005=5283.30  
us

9

10°15'

10

10°30'

8082=5334.12

7970=5260.20  
us

16

10°

15

10°30'

8030=5299.80

7965=5256.90

21

10°

22

10°15'

8006=5283.96 FT

7980=5266.80

5278.4 M4 C4

137-27

28

10°

27

10°30'

8051=5313.66

7980=5266.80  
us



18

(16)

6

5

4

7

8

9

5191.64 MY

18

17

16

5319

2660

19

20

21

5281.12 MY

5256.08 MY

30

29

28

5276.02 MY

5278.4 MY

5271.0 MY

31

32

33



(17) Aune-Hardy  
137-27

19

3

2

1

10

11

12

15

14

13

22

23

24

27

26

25

34

35

36



20

19

## Old Nales Book 33

7-8-17-18-137-27

on ice

252.39

5032.20 N.

10 d Nail 3/4" W of 4  
8" green maple stamp

4958. N. Hub

Maple 10 S 60 out 80 E 22.5°

" 5 N " 10 E 20.45

74.20

219.04

4738.96 N OK  
MC on ice

MC.

3963.45 N - N 1/16 min

3752.45 N Hub

WIT N 1/16

Oak 4 N 44° 40' W 11.95

" 3 S 45 W 38.20

211.00

WIT N 1/16

See Also Pg 85 Bk 213

See Also Pg 90 Bk 212

See Also Pg 25 Bk 31

See also Pg 23

This Book

1690.85 d Co Road

JP 4562.17 E 65.65

Oak 453450 W 61.65

S 1/16 Co Road

JP 4 N 47° 45' E 17.85

Oak 3552° 10' W 60.30

TV in 3" Oak S 50 E

2.45

T plot of map

Pg 40 Book 33

132/15 369.7

Stake

125.0

RR Spike hub  
on true line

545163.0K

True Line

4738.96 OK True Line

5284.59.0K



Ann-Hardy

19

137-27

21

Old Notes Book 33.

137-27 P<sub>9</sub> 39 Book 33

T137-R27

Book 33

My old survey

16° 02' 52" N  
5287.55  
True line

0° 25' 10"

16° 27' Trw

4738.96

N 5284.59 OK

0.50' 00"



22

20

March 14-1930 Friday

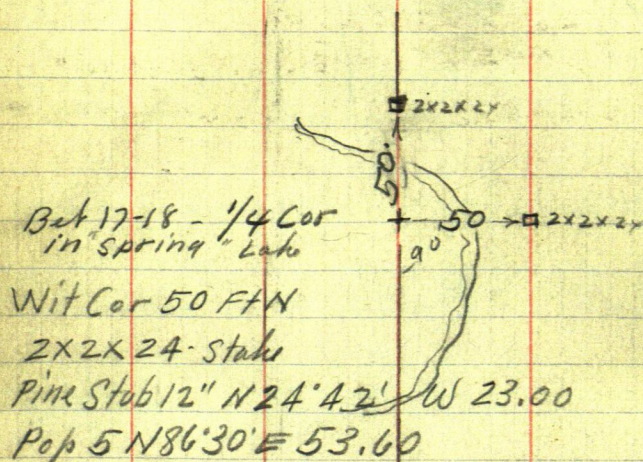
Reed to school Gerald and I  
home in Jenkins

Figurcald Nalis Pg 18 to 21 This Book

1/4 Bat 17-18-137-27

Old Nalis on Page 25 Book 31

Viz " 90 " 212



Also

Wit Cor 50 FT E = 2x2x24" stake

Oak 4 S 80° 21' E 32.80

" 3 N 27° 33' E 35.80

Pine Stub 10 N 18° 30' W 13.50

Page 27-15 Book 31

To Tack Heads  
Turned from  
Truss line



old surveys

(21)

7-8-17-18-137-27

See Page 34-36 Book 33 Two Lines

Hub 4958.N

Nap 10 S about 80° E 22.5

" 5 N. " 10° E 20.45

P 934-36 Book 33

Random and True

" 7 1/2 SW  
19.30

Random

Hub 5620.105 3/15

Nap 10 S about 80° E

" 4 N " 10° E 21.00

S



24

22

March 14-1930 Continued

1-30 PM Gerald and I drive E  
Pack Hells to Island  $\pi$  over  
nail in stump 5032.20 N

Page 20 - Focus So on 2x2x20

White Stake on line So of Lake Ch

North 252.39 Ft Set R.R. Spike  
on ice True Cor 7-8-17-18-137-27

 $\pi$  over See Cor Check in to 16 1/2

P Stub 35 ft 30" S 32° 30' W 137.20

Pine Stump 30-Short-S 24° 27' W 151.50

Pine Stump 15 S 77° 20' E 217.0

Short " 10 S 88° 50' E 105.0

Turned from line line So

 $\pi$  again on stump 252.39 S

run So 300. ends in 600-

+ 207.55 = 1059.94 So

 $\pi$  over 1059.94 Turn 90° E<sup>355.7</sup>  
~~262.6~~ R.R. Spike on SW coast old

Stumps west side of overflow

@ 809.3 R.R. Spike W. Side of

small Island. Gerald tries

to set Hub E. over lake too

dark and windy to work

Cold SE wind Home early

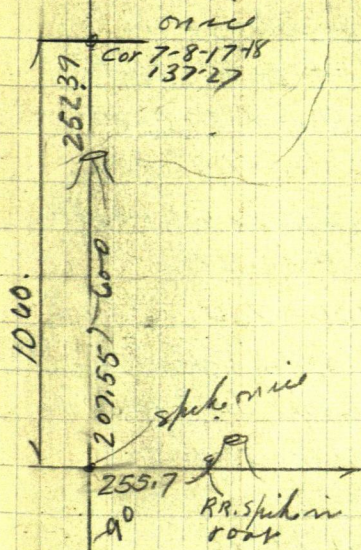
John W. Caw



Aunch Hardy

25

March 15-1930<sup>23</sup> Sunday





26

(27)

March 15-1930 Sat continued

Ch \$3.00 to Alma - Reed stays home  
Garold and I in Newford L.V.  
9-30 AM. Heller  $\pi$  300' steel

From Hub 1060 S of NW Cor  
Sec 17-137-27 Turn  $90^\circ$  run  
East 255.7 R.R. Spike in root  
SW Side of Stump in overflow

300-600 on ice + 160 = 760-775 LV  
in 760 + 40 = 800 stake sand  
Beach 809.3 R.R. Spike set yester-  
day on W Bank small Island  
in overflow Trees

Basswood Stub 8 N  $22^\circ$  W 66.15

Pine Stump 24 S  $42^\circ 15'$  E 43.80

Hardwood, 8 N  $49^\circ 15'$  E 13.10

T. flat spot turned from random  
920 R.R. Spike on E Bank

24" Pine Stumps about 30' W 2, 3 ft

all B.T.S. Spotted 962 enter ice

1100 on ice (maybe Pine River?)

1400-1452 cross + in south

End of 3 ft stone in ice N. Side

4 Rod Aired Bar 1700 on ice

(N. Side 1400 to 1700 maybe  
original Pine River?)



27

Cut bank main Level W. Brink

3200 - 3208 to 3210 Co Road NE Su

3233.8 R.R. Spink Ties Vtg

Maple 10 N 6'27'E 60.9 } March 17-1930  
 " 9 N 74'34"W 61.9 } OK proc.

Oak 8 S  $48^{\circ}07'N$  60.9

3252 E Birch Cut bank NE SW

3270 Foot 3325 entire in Cross Lake

3500-3800-4150-4400 Autonomic

4700 on rd 4725 LV in NWSE

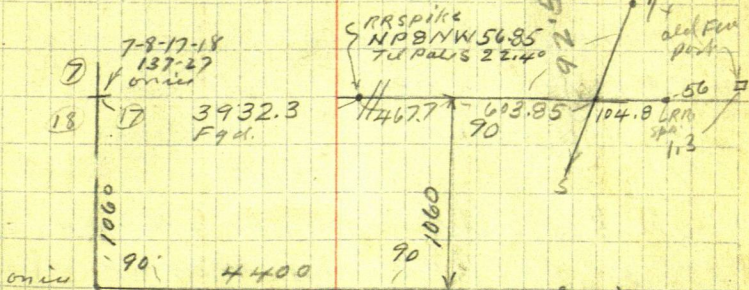
4795 Cat Barb 8/42

4816.90 Spike

Oak is about 20' w 4.00

NP 9 S " 1° E 5.10

Birch 11 N 11 70° E 34.30



See p. 29-40-

R.R. SPIKE on H.Bk  
4816.9 E



$\pi$  over Hub 4400 E on ice line 90°  
North 1060 Hub on ice and set  
line of Hubson ice to 20 line  
of sec 17 - one mile

$\pi$  over Hub 1060 N line 90° set R.R.  
spike Hub on Hi bank West of Co Road  
467.7 West of  $\pi$  @ 1060 N Turn to R.R. spike  
N 41° 50' W  
NP 8 N about 40° W 56.85

Til pole 5" South 22.40 <sup>51° 40' W</sup> chain

East @ \_\_\_\_\_ corner road @ 40  
Cut bank 20' Hi 95 enter ice Corner  
Lake 300 + 167.7 Hub 1060 under  $\pi$

From 1060 Chain East 603.85  
To Intersection of my random at  
2598.40 S. of  $\frac{1}{4}$  bet 8-9 137-27

NW angle reads 92° 50'

From IP Chain East @ 15. L is in  
31.3 drive  $\frac{1}{2}$  x 8" Iron bolt in sand  
@ 52. Cut bank brink still slopes  
up Original surface old  
Log Landing-Rollway.

104.8 E set R.R. spike on Hi BK  
West of Co road Pap 6" N about 15 W  
36.9 Fena Post 6x6 - N about 85 E 56.00  
Nab: old 6x6 post set 1.3 N of line



Lot 5 Sec 17  
137-27

Aune-Hardy

29

$$\begin{array}{r} 104.8 \\ 56 \\ \hline 160.8 \end{array}$$
$$\begin{array}{r} 2700,00 \\ 5510 \\ \hline 264490 \text{ N} \\ = \text{IP} \end{array}$$

See @ OK  
mild 500

5003.8

4400

603.80

404.9

1.2

5284.59 1060

1060

90

90

1060

4400

4224.6

90° 16' 17"

16

26

sector 4400

See Lin

DTL

close check

2640.00  
2598.00  
42.00

11.0

Q

395

246.5

935.2

57

44

6

2

[illegible]

20

+

24



30

March 16-1930 Sunday <sup>(28)</sup>  
Garold's Birthday ...



March 17-1930 (29)

Lot 15 Sec 17  
137-27  
Aune-Hardy

31

## Saint Patricks Day

Garald and I L. Jenkins @ 9-35  
Find Crew repairing Daggett Brook  
Bridge

L. can and walk so - west - north  
Beg @ I P Hat 4450 E 2106080 m  
Cross Lake Chain on ice

South 1060 + 381.15 = 1321.15

Set stone on ice call stone 0.0. ch

So 3-6-9-12-1321.15 stone for  
Limp. 15-18-21-24: 2642.30 stone  
on 8. 1 1/4 line E-W - Twp

27-30-33-36-39: 3963.45 pt on ice  
for so line see 17-137-27-

Note: Our E-W - random. Dis 119.3 ft  
with some mistake as we are 119.3 ft  
short. Check chain back north  
ice and find our chain the same

Where is the mistake?

Here is our mistake

1060	
381.15	
1441.15	
1321.15	
120.00	

120 ft on ice

Each stone 200

120 ft W OK.

1060.00
300.00
81.15
1441.15
1321.15
120.00



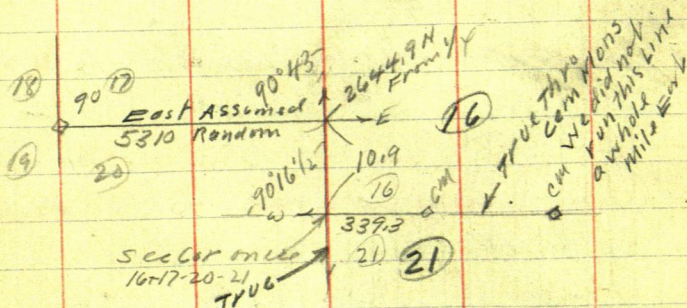
32

30

March 17-1930 continued

We find distance OK, N-S being 0.40 of a foot short on account of perfect chain on ice OK.

Pack 11 blazed JPM E Bank Cross Lake  
where I work it on line Focus West  
over lake and internet random lines



From New CM Set by US Surveyors  
lost Fall on E shore of Cron Lake  
Chain East @ 246.5 ft of old CM-MIC  
beam so 0.10 of a foot @ 935.2 New CM.  
E of road set last fall by US Engineers

Nale: Too much brush to carry  
this line E 1/2 mile to see if it checks  
on NE Cor see 21-137-22.

Walk N to Bridge. Look car to N  
line see 16-137-27 from IP of line  
mid East of fence Cor is  $104.8 + 56.2 =$   
 $160.8 + 139.2 = 300$  E pin continues



(21)

Lat 5 Sec 17  
-137-27

33

March 12-1930 Continued

East Bet Sec 9-16-137-27

6-9-12-15-18-21-Stake 2110 IP old fence

N-S-W-24-2700 + 106.8 = 2806.8

=  $\frac{1}{4}$  Cor Bet 9-16-137-27

US Notes Call for

We find two flat strips of iron  $2 \times \frac{1}{2}$  inches in a pile of stones under old fence N-S- also some old newBTS.

Will run this later Home late

Find letter from M. R. Dennen calling me to reply.



34 March 18-1930 <sup>(32)</sup> Tues

M. R. Drennen's Birthday

All day in Peguot-Senkins and  
Pine River

4-30 PM - Reed and I Lf for  
Mpls - Gerald and Alma home  
Vivian Guthrie at our house

At Hatel Summit Mpls 9-30  
(stop one hour in Red - 4 Hrs drive)

March 19-1930 Wed

Call on Drennen also Field  
All day in Mpls

March 20-1930 Thurs

Rec checks from Drennen viz  
To JWC. \$90 - \$32 - \$25 = \$147.

To Gerald Curo \$44 - \$14 = \$58.

Reed & I visit Ford Plant

See I to at St Paul

also To Fort Snelling

March 21-1930 Friday

L. mpls noon PM Call on Mitzeath  
Clothing Co & Cloud Home to Senkins



aunt

(33)

Lot 5-17

137-27

35-

March 22-1930 Saturday

To Kramer Rat Farm - Pine River  
Cold SE Wind Home early

March 23-1930 Sunday

All day in Jenkins  
Vera Kemper - Vivian Guthrie  
and Kemper Boys spend evening  
at our house



March 24-1930 Monday

Gerald and I @ 8-30 Take Reed's  
'excuse' to Miss Leighman Teacher  
Pine River School

Drive East to Nick Ritchie  
Res where Mr Jack Kraemer says  
he has changed his mind about  
Survey -- We drive a mile E to  
Tie in I m See Co. See Book  
Crosby Survey-

Drive back to Jenkins then  
East to Cross Lake Fred  
Baldridge says he will pay  
\$25. if I survey his line  
maybe I will Fred and his dad  
cut brush West on random line  
8-17-137-27

Gerald and I drive East Put  
red spikes in lips of square Cor Post  
of fence shown on Page 27 and 29  
Extend line East to pt 100 ft  
N of  $\frac{1}{4}$  Cor Bat 9-16-137-27  
Correcting Book







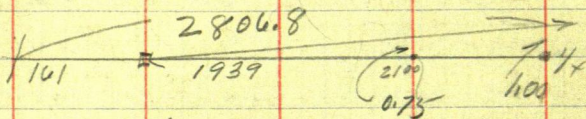
38

(36)

2807  $\frac{1}{.0003562}$ 

Correcting

Hut 2100 E  $\frac{1}{2}$  mi S. 0.75 where we  
set Heller Focus West on fence 1st  
Transit telescope and ch E



From 2100 ch E 23.8 to 2123.8 E

40 ft spike in 10" green sp stump

Walk West and Canyon

True fence line West to

IP of random line on it

Intersect 5.30 ft N of spike

On 2593.10 So of  $\frac{1}{4}$  Cor

NW angle reads  $91^{\circ}25'$

ICC has moved we check  
from pts on land OK.

Note: Small mistake in  
figuring correction at stake 2100 E  
as I figured from pt on line  
as 2806.8 instead for fence cor  
or  $2806.8 / 1.00 = .0003562$

$2646 / 1.00 = .00037795$

$2100 = 1939 \times 3779 = .73$  South OK.

$2123.8 =$  Spike in stump 683.0 W  
of  $\frac{1}{4}$  Cor bet 9-16-137-27



Aunt Hardy (37)

137-27

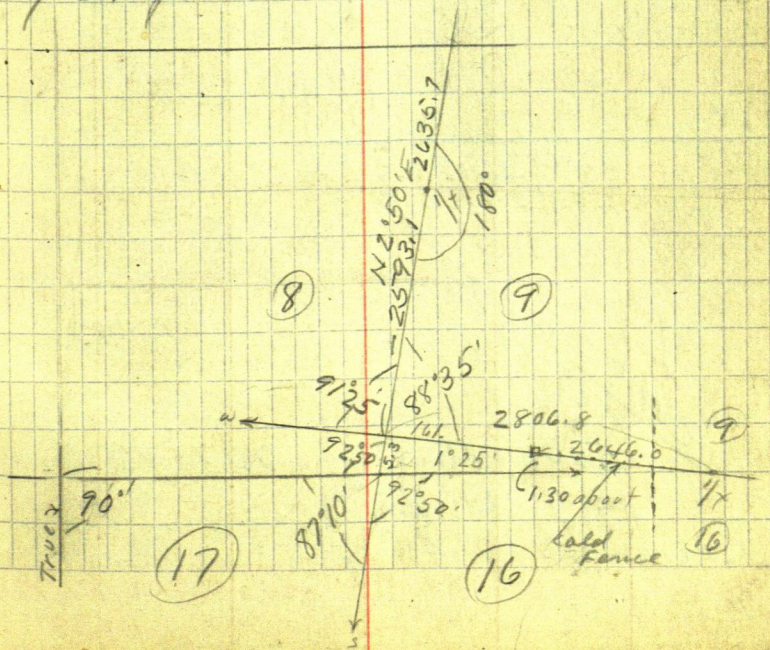
39

From  $\frac{1}{4}$  Cor Bat 9-16-137-27 Figure

1. Went along old fence which may be  
old section line. Line passes thro  
2 spruce and 1 r.p. @ 683. Spike in  
Heart of 12" green spruce stumps @ 696.6

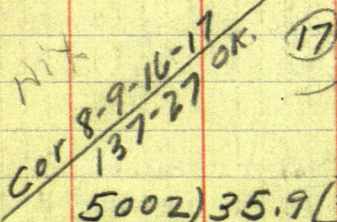
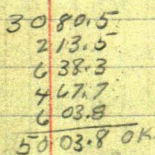
Cross old r/s fence line 3 ft N of IP.  
old fence running West: @ 800 W  
old fence line at 20: @

2646. W part thro heart of 6x6 Cor  
port of fence square port may be  
on this section line + 160.80 -  
2806.8. intersect random on ice,  
2593.1 S. of  $\frac{1}{4}$  Cor and 5.3 N.  
of 2P from the west.





137-27, (38)



Correction Pg 64. - 27-



# Aune-Hardy-Survey

7-8-17-18-137-27

(39)

41

S. A year ago by me from old USBS  
now in New Ties viz

Pine Stob 35 H' 30' Dean S 32° 30' W 137.2

Short Pine Stump 30" S 24° 27' W 151.50

" " " 10 S 88° 50' E 105.00

" " 15" S 77° 20' E 217.00

Turned  
from line  
line so +  
spelled

Run E @ 90° to W Bdry Sec 17-

@ 3030 L v in @ 3068 H' B' in E of B' in L

3080.5 R.R. Spike Ties viz

Jack Pine 145 about 20' W 30.80 ft

" " 12 S. " 45° E 21.60

12 ft E of H' B' in 15 ft H'

$3080.5 + 213.5 = 3294.00$  E Ties viz

Oak 4 H 38° 10' E 11.90

Pop 6 H 82° W 15.90

$3294.00 + 638.3 = 3932.3$  E

3932.30 = R.R. Spike on W H' Bank

Cross Lake Ties

NP8N 41° 50' W 56.85 West of Road

Tel Palo 5 S 11° 40' W 22.40

40 ft W of H' Bank 20' H'

95 W of Ice W Side Cross Lake



42

40

7-8-17-18-137-27 continued.

East @ 90° to W Bdry sec 17 -

3972 Hi Bimh: 20 H H

4027 enli in cross lake

 $3932.30 + 467.7 = 4400$  ptm in $4400.00 + 603.8 = 5003.80 E$ 

Intersect random @ 2598.4 S

NW angle reads 92° 50' continue

East same line

 $5003.8 + 16.2 = 5020$  L in $5003.8 + 31.3 = 5035.10$  spike on sand $5003.8 + 52.2 = 5056 E$  Cut Bank

still going up

 $5003.8 + 104.8 = 5108.6$  RR spike

on Hi Bank 22' Hi w/ good

 $5108.6 E$  RR spike ties up

✓ Paper 6" N. about 15' W 36.90

Sq Fence Cor Post 6x6 N about 85° E 56.00

 $5108.6 + 56.2 = 5164.8 E$  E of 6x6

Post sets north about 1.50 or 1.375 side

Our line if continued would cross  
old fence running SE-EastNote: Paper 41 and 42 are  
figured from other paper

See P 93. Bk 417



Lat 5 Sec 17  
137-27.

43

March 24-1930 continued

Hit over spike on Hi Bank West  
Side Cor Lak 3932.3 E Focus on spike  
over lake 5108.6 E and run

West on line just cut by Frank  
Baldridge and his father set spikes  
as shown on Pages 40-41-42 Then  
Gerald and I check Chain West  
on ice in Rush Lake and check  
OK. one inch long 3080.5 Figured  
chain 3080.4 only one inch off  
OK. at 3080.5

We meet Arnold Seekle at cor  
7-8-17-18-137-27 says bank  
has been worn off here about 18 years

Drive West to Aune Cabin

Touch my spike @ Temp SW Cor of  
Hardy tract bearing 1320+500=1820  
E of  $\frac{1}{4}$  Cor on W side see 17

Take Bldg

The Princess

SW Cor N55°30'W 51.70	{ 12x12 with 8 ft additional on E side = 12x20 Hip roof on main 12x12
SE Cor N53°40'W 31.40	
NE Cor N32°20'W 35.20	



44

(42.)

March 24-1930 continued

Mrs Hardy's Main Bldg

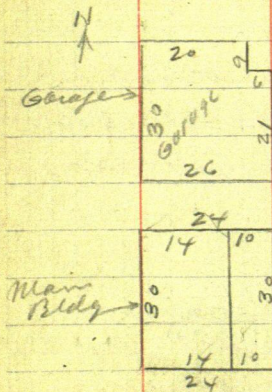
T 1820 E run north 150 ft

T over Hot 150 N to main Bldg

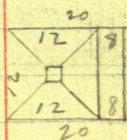
SE Cor:  $S 68^{\circ} 10' W$  90.80NE Cor:  $S 82^{\circ}$  W 67.10NW Cor:  $N 86^{\circ} 43' W$  86.3024 X 30 Over all Or 14 X 30 with  
10 X 30 addition on East side

New Garage

T still at 1820 E and 150 N.

SE Cor:  $N 26^{\circ} 45' W$  64.00SW Cor:  $N 37^{\circ} W$  86.60NE Cor: Wing  $N 13^{\circ} 20' W$  77.80NE Cor Main Bldg  $N 13^{\circ} W$  89.0

Princess





Lot 5 Sec 17  
43 137-27

45

at 1820 E and 400 N of  $1/4$  W Sec.  
Sec 17-137-27 @ 90° to W Bdry

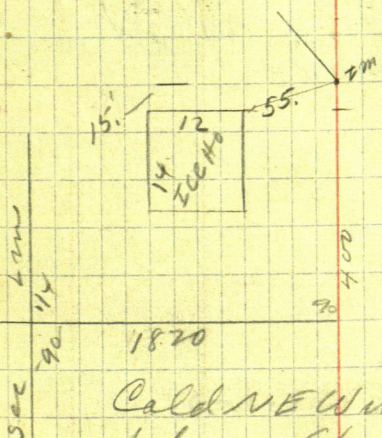
Ice House

Set about 15 South From Tm  
at Angle Point 400 N

Sec 17

NE Cor Tch to SW 55°

12 X 14 N-S.



Cold NE Wind Melt Mts  
Johnson. Charlie Johnson

sleeping and we do not wake him  
Johnson's daughter says Hank & Mrs  
Clare were here a week ago Sat  
late to Monday PM late tried to  
call me -

Home early

John W. Carr



46

(44)

March 24 - 1930 continued

Morice Reynolds and wife of  
4310. Girard Ave N. MplsCall on Alma who accompany  
them to see lake shoreThey want to buy 20 or 40  
acres. Timber and small  
lake frontage - Good fishing  
will pay \$25 an acreHe is traveling for some marble Co  
I telephone



Lot 15 Sec 17  
137-27

47

March 25-1930 Tues

Alma and I drive to O A Ryan res then back and take Reed's Bass Horn to Pine River School house and back home to Jenkins where I figure and write notes as shown on Page 36 to 46

Alma - Mrs La Zott and I take "Berdie" Aving home. Clear and Cold. Mattie at our house for supper.

5003.8 - 1.6 = 5002.2

2806.8

1250.95 1250.95 1250.95 1250.95

1.8

2808.6

1270.10

1289.25

17

1308.40

1327.55 1327.55 1327.55 1327.55

5310

E-W 6 Sec 17 is short .0232954

1320 x .0232954 = <sup>short</sup> 30.749928 (30.75)

1820 x .0232954 = 42.397628 (42.4 short)



48

(46)

March 26 - 1930 wind

Clear and Cold. NW wind. ground  
frozen. snow in patches only

Reed to school at Pine River

Alma - Gardal and I at home

5287.5

8

5003.8

90° Random

25984.2657

2598.40
5284.60
11.00
3 7894.00
2631.33

5284.00

17

5284.6

2598.40
5284.60
10.90
2633.18
4 10527.08
2631.77

90° 5310  
Random

10.9

20

26336.26318  
2634.11  
26

5256.08 Regal



March 27-1930 Wed

Still clear and cold.

Cora Baker telephones from Decorah that Ezra Reed is very sick Brain fever-may die



Aune-Hardy

51

(49)

137-27

Figuring

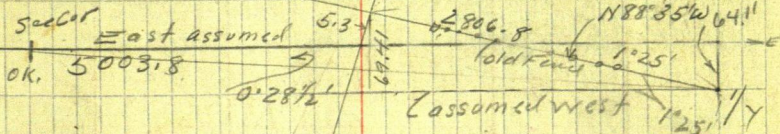
T137-27

(8)

(9)

7810.6

Total



(17)

$$1^{\circ}25' \text{ Tang} = .02473$$

16

$$.02473 \times 2806.8 = 69.41$$

$$\begin{array}{r} 5.30 \\ 69.41 \end{array}$$

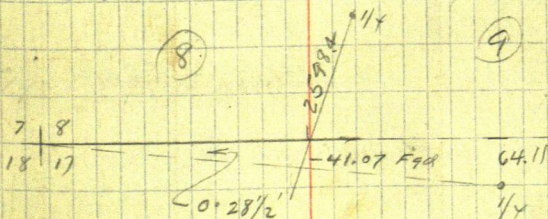
$$\begin{array}{r} 5003.8 \\ 2806.8 \\ \hline 7810.6 \end{array}$$

$$7810.6 / 64.11 (= .0082081 = 0^{\circ}28\frac{1}{2}')$$

$$5003.8 \times .0082081 = 41.07$$

(8)

(9)



$$2598.4$$

$$41.07$$

2639.47 If figured from SW corner Sec 8  
straight E  $1\frac{1}{2}$  miles to  $1\frac{1}{2}$  S side Sec 9

Cannot use this?

(16)

Figure more?

(17)



52

(50)

April 23-1930 Wed still figuring

$$5284.6 + 10.9 = 5295.5 - 35.5 = 5260 - \text{about}$$

$$5310 - 5002 = 308 \text{ off in } 5260$$

$$5260 \text{ in } 6308 = .058555 = 3'21'' \text{ Tang}$$

$$3'21''$$

$$\text{Sine } 05844$$

$$\text{Cosine } 99829 \text{ in } 6$$

Try this

$$5310. - 5003.8 = 306.2$$

$$5284.6 + 10.9 = 5295.5$$

$$5295.5 \text{ in } 6306.2 = .05823 = 3'20'' \text{ Tang OK}$$

Note: From SEC or Sec 17 North T. 1P of

Random line would be 5295.5 ft N.

5295.5 N and 306.2 West

Tangent would be 3'20'

3'20'

$$\text{Sine } .05814$$

$$\text{Cosine } .99831 \text{ in } 65295.5 = 5304.46$$

$$2634.30$$

$$5304.46$$

$$2598.40$$

$$4) 10537.16$$

$$2634.29 \text{ OK}$$

$$5304.46$$

$$2598.40$$

$$3 \overline{) 790286}$$

$$2634.29$$

Continued on Page 54







52

$$5310 \text{ in } 10.9 = .002053 = 0.07'$$
$$5284.6 + 10.9 = 5295.5 - 35.9 = 5259.6$$
$$5259.6 / 308 = .058555 = 3^{\circ} 21' \text{ Tang}$$

321

$$0^{\circ}25' + 0^{\circ}07' = 0^{\circ}32' - 2 = 0^{\circ}16'$$

$\phi$  runs  $S 89^{\circ} 44' E$  ok.

$$\begin{array}{r} 5310.00 \\ 5002 \\ \hline 2(10312) \\ 51564 \end{array}$$
$$\begin{array}{r} 5310 \\ 2655 \\ \hline 13275 \\ 39825 \\ \hline 53100 \end{array}$$

52846  
264.230  
1321.15  
3963.45

$$\begin{aligned} 7^\circ \\ \sin 7^\circ &= .1219 \\ 18.48 &= \end{aligned}$$

By Propo-

17

212

13.86

US Males

N 50 E  
20 = 13.2

US Notes

16

Y.P.  
12

2.26

$$\begin{aligned} 2640 \text{ us} &= 2634.3 \text{ mych} \\ &= 5.75 \text{ short} = .00216 \\ 105.6 \times .00216 &= 0.23 \text{ short} \\ 105.6 - 0.23 &= 105.37 \text{ okras} \end{aligned}$$



137-27 Aunc

55

(53)

9025

-2501-

-2501-

1250.5 1250.5

1250.5

S 89° 35' E

5002 FT 1250.5

89° 35'

0' 25'

2634.3

35.95

308.1

8

9

(17)

(16)

5284.6

90° 16'

89° 44'

S 89° 14' E

TRUE

5268.6

2634.3

TRUE

5259.6 N

23.5

N 0° 00' W

N 1° 40' W

N 2° 30' W

1317.15

2634.3

N 3° 21' W

90° 07'

1327.5

1327.5

1327.5

1327.5

5310.

0' 07'

S 89° 53' E

TRUE LINE

2655

10.95

20

21



56

(54)

April 24-1930 Thursday

Still plotting:

1/4 Cor Bet 9-16-137-27 1st Run

West N88°35'W See Page 33.

2806.8

2110

696.8

at 696.8 intersect

Old fence cor (sets 1 ft 50)

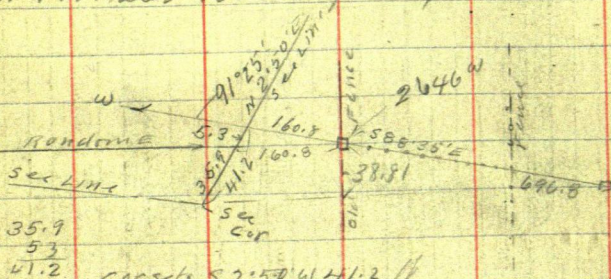
Fence runs N-S-W continues

West along old fence @ 2646 for thro

corner Post of same old fence still  
standing Natl old down fence shows

N &amp; S - Partly down.

Cor Post sets 160.8 E of IP of Random lines



Cor sets S 2° 50' W 41.2 //

1' 25"

Sine .02472 x 41.2 = 1.02

Cosine .99969 x 41.2 = 41.19

2646.0

160.8

2807.8

N 88° 35' W

2806.8

41.2 0° 50'

2807.8

N 89° 25' W

(OK)

16

2807.8) 41.2 = .014672 = 0° 50' Tang



(55) 137-27 Aune-Hardy 57

Correcting

At 2807.8 W cor 8-9-16-17-137-27 on ice

Set So 41.2 ( $= .014672 = 0^{\circ}50'5''$ )

Old Fence Cor 2646. W goes

South 38.82

$87^{\circ} 45'$   
 $92^{\circ} 25'$   
 $98^{\circ} 46'$   
 $86^{\circ} 04'$   
 $358^{\circ} 120'$   
 $= 360^{\circ} \text{ OK.}$

OK.  
 $589^{\circ}35'E$   
 $5002.1$   
 TRUE

$589^{\circ}25'E$   
 $2807.8 \text{ OK}$   
 TRUE

(17)

CROSS  
Lake

$589^{\circ}53'E$   
 TRUE

20

(16)

New cement  
 monuments  
 set last fall  
 by US. War Dept  
 supposed to  
 be on my old  
 true line?  
 I did not check  
 them the whole  
 mile east?

I think this  
TRUE LINE?

(21)

$50^{\circ}43'W$   
 TRUE



58

(56)

April 24-1930 continued 137-27

US Notes Pg 337 Book A'

East True Line Bet 17-20  $10\frac{1}{2}^{\circ}$  E

1635 = 1079.10 FT ME,

Aspen 4N 47W 7

Pine 12S 52 $\frac{1}{2}$ W 75

Meanders

See Page 354 Book A' US Notes Pg 360

-- N 55 $^{\circ}$  E 700 To M Post on line

bet 17-20 - said point being 16.35

1635 chs = 1079.10 FT E of Cor

Thence In Sec 17

N 43 $^{\circ}$  E 7.80N 36 $^{\circ}$  E 13.52N 30 $^{\circ}$  E 4.50N 22 $^{\circ}$  E 3.86N 13 $^{\circ}$  E 17.30 or 1750?N 38 $\frac{3}{4}$  $^{\circ}$  E 1200 To Inlet Pine River

200 chs wide

N 12 $^{\circ}$  E 1.33N 15 $^{\circ}$  E 1.00N 60 $^{\circ}$  E 2.36N 48 $^{\circ}$  E 25.32N 37 $^{\circ}$  E 5.55

North 4.55

To pt on line

Bet Secs 8-17

See Page 360 Book A' vs upstream

Pine backwards



April 30-1930 Wed

all AM in office on John Smith Plat  
Sullivan. Calls says Knutson  
is in. P.M.-2-30 I L. Jenkins  
alone - on Brament 3-PM wait an hour  
for Knutson who looks at my plat  
and method of survey

Lt 5 Sec 15-137-27 says O.K.

Back to Jenkins. Alma and Mrs  
Watton return from Bill Parkers -  
Rains all P.M.

Noti I/O and Marie with Jack  
Hilliher's Sludibaker Lvs St Paul  
105 miles to Albert Lee gets

Ivers. Junior Babcock Brock  
105 miles to St Paul changes  
auto - takes Jack Marks

Hudson with Hannah Farmer  
Bings Junior to Jenkins. Calls  
9 PM from River 11-35 AM.  
Jenkins finds Helen and Lillie  
Davis with and

eating lunch. I/O

Lvs Junior with me gives me \$5.  
for Mrs Ritchie and starts back  
at 12-30 for St Paul







59  
137-27 Aune

61

5284.6 North assumed

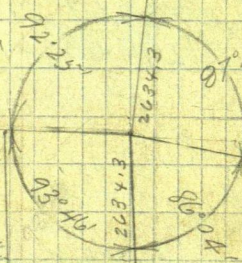
1250.5  
89°35'  
88°49'15"  
87°54'45"  
87°59'

5002

ctruc

8

9



17

16

2642.3  
70°07'

5310.0K

ctruc

86°32'

0°07'

20

21

26

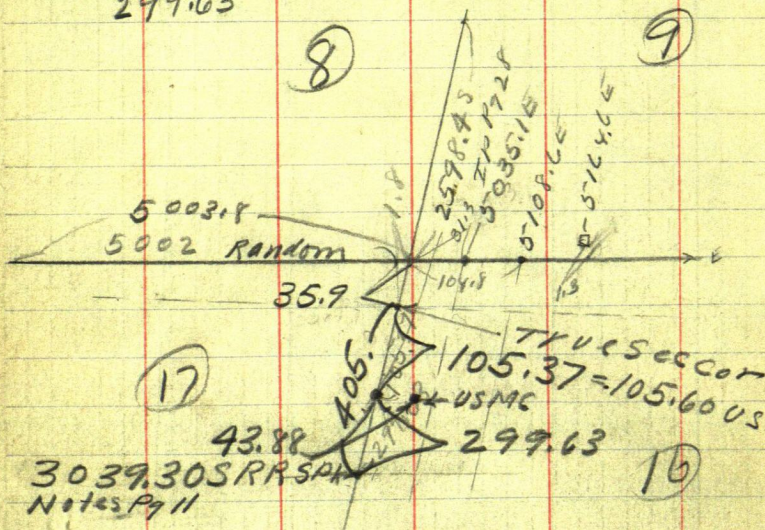
0°43'



60

$$\begin{array}{r} 2634.30 \\ 105.37 \\ \hline 2739.67 \end{array}$$

$$\begin{array}{r} 3039.30 \\ 2739.67 \\ \hline 299.63 \end{array}$$



8-9-16-17-137-27 P754

To put in MR. So. Boy @ R.R. Spike  
3039, 3080 and chari 1

North 299.63 to Pt on my random

$$2634.3 + 105.37 \quad (105.605) =$$

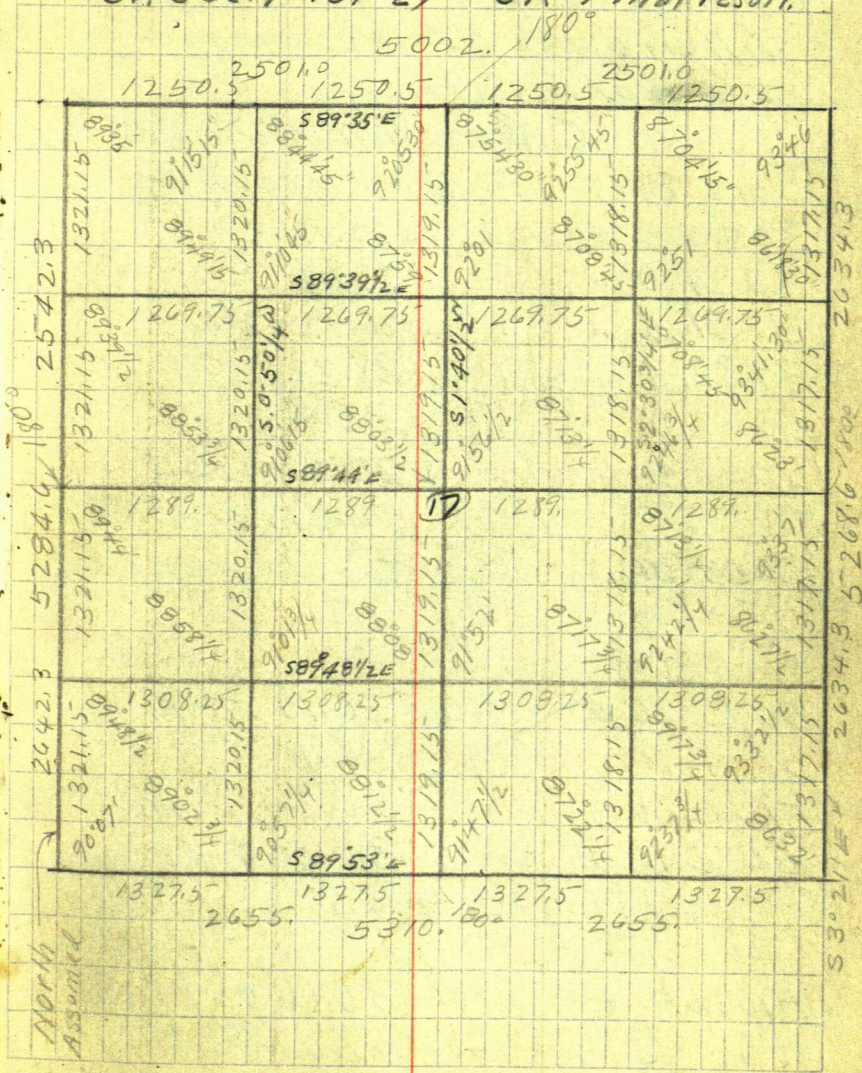
$$= 2739.6750 \quad \text{Then } \approx 6'11''$$
$$N 2^{\circ} 50' E + S 3^{\circ} 21' E = 6^{\circ} 11' E$$
$$T_{avg} = 10834 \times 405 = 43,88$$
$$\text{Since } 10771 \times 405 = 43,625$$



(61)  
Aune-Hardy-137-27

63

OK Sec 17-137-27 OK Final result.





64

(62)

May 2-1930 Friday

Bright sunshine Clear - cold

Figure Corrections

6-30 AM - Reed and Garold

still in bed - Alma cooking

I am at the office

Correction. 007177 - 0.25' S

Secs 8-17-137-27 Page 14-40

3080.5 E Goes So 22.11

3294.0 " " " 23.64 ✓

3751.5 " " " 26.92 = E 1/16

3932.3 " " " 28.22 ✓

5002.0 " " " 35.9

5003.8 " " S 2° 50' W 35.9

along True Line.

to See Cor on ice

USMC  
CROSS LK  
13.86 E  
of cor to  
8-9-16-17  
137-27

5015.86 E " So 36.10 To Pt on

on random extended  
Then SO 0.03  
 $.00291 \times 13.86 = 0.03$   
0.035 To USMC

5035.10 E Goes S 36.28 To Pt on

Random Then SO  
 $.00291 \times 33.1 = 0.11$  S  
To True Line End

33.1 E of MC. Cor  
1924 E of MC.

5108.60 E " S 36.66 To Pt on

Random Extended Then  
S 0.10' =  $.00291 \times 106.6 = 0.31$  S

106.6 E  
of MC. → See Pg 40







66

June

(64)

6°11'

$$\text{Tong } 10834 \times 405 = 43.88$$

$$\times 105.37 = 11.42$$

6°11'

$$\text{Sine } 10771 \times 105.37 =$$

$$\text{Cosine } 99418 \times 105.37 = 105.99$$

$$\begin{array}{r} 105.37 \\ .62 \end{array}$$



① Frank Boldridge 67

137-27

Book 33

W 1/4 Sec 14

0° 50' 00"

5

5225.3

2612.65

2612.65

1306.33-1306.33-1306.33-1306.33

8

0° 35' 5287.55 N 025° E

90°

5002.

0° 25' 10"

North assumed

5284.6

2634.3 2635.7  
N 2° 50' E 5270.0

6' 11"

17



68

②

Figuring Sec 8-137-27

West Bdry North 5287.55

South " East 5002.00

N 2°50'E 5270

Sine .04943 x 5270 = 260.50 E

Cosin 99878 x 5270 = 5263.57 N

Tang 4949 x 5263.57 = 260.494 OK.

Cosin 99878 x 1317.15 = 1315.54 N

" " x 2634.30 = 2631.09 N

" " x 3952.15 = 3947.33 N

" " x 1317.85 = 1316.24

5263.57 OK check.

NE Corner Lies 5263.57 N

and 5002 + 260.50 = 5262.5 E

NW Corner Lies 5287.55 N

5262.50

5263.57

5002.00

24.00

260.50

Nix  
See next page

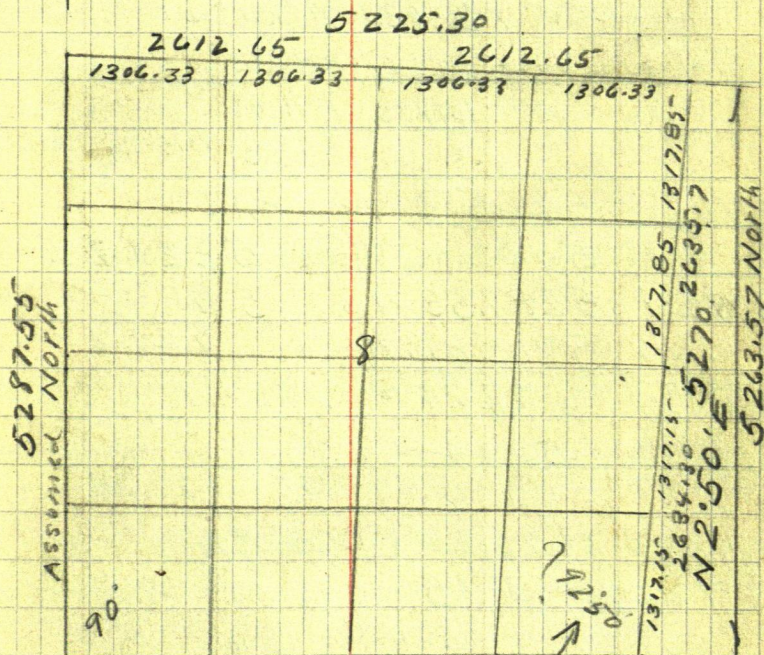


③

Baldrige  
Grove

69

Nit  
TRY Next  
Page



5002.

Mistake  
here

should be 92° 25'



④ JJ. Grove  
Frank Baldridge

Figuring

N 2° 25' E 5270

Sine  $0.4217 \times 5270 = -222.24 E$

Cosine  $99911 \times 5270 = 5265.31 N$

Tang  $0.4220 \times 5265.31 = 222.20$  close

Cosine  $99911 \times 1317.15 = 131598 N$  OK check

" "  $\times 2634.30 = 2631.96 N$

" "  $\times 3952.15 = 3948.63$

" "  $\times 1317.85 = 1316.68$

5265.31 OK check

NE Cor 5265.31 N and

$5002. + 222.2 = 5224.2 E$

NW Cor  $5287.55 N$   $5002.0$   
 $5265.31 N$   $222.2 W$

$22.24 S$

$5224.2$

$0^\circ 15' - 22.24$

$5224.2 \div 22.24 = 0.0042571$

Tang =  $0^\circ 15'$

Cosine =  $99999 \times 5224.2 = 5224.25$  OK.

US Notes Pg 54 MC.







May 3-1930 Saturday

Gerold-Reed and I Lv Senhins with  
our lunch @ 9 am. Drive to Frank  
Baldrige Resort - Mrs Baldrige  
says Frank is in Brainerd

Drive to E Shore Cross Lake

Meet Otto Seckle and his wife Pearl  
and youngster. Put in MC.

See Page 64-62-60-54-53-51-40-29-27

$\pi$  over spike in sand 5035.10 E M 64  
Turn 90° From random - Ch 80 36.28 To  
Spike on So Line Sec 8-137-27 extended

Pt 33.1 E of Cor and 19.24 E of MC. P 54

19.24

13.96

33.10

MC. is 13.86 vs Ch 80

Note: As there is a crook of 0°10' at  
Sec cor in lake the line to body of sec  
9<sup>th</sup> passes 0.10 of a foot So of spike 36.28

$\pi$  over RR Spike on top of Hill  
W of Cor and E Shore Cross Lake 5108.6 E  
Focus West on random Turn 90° S

36.66 Set R.R. Spike on S. body Sec 8 extended

Note So Line Sec 9 passes 0.31 of a  
foot So of spike 36.66. at which pt we  
set another R.R. Spike 0.31 so another

line to line sec 9.



Frank Boldridge 8-137-27

Garred and I drove to West end Corn  
Lake and at spike 3932.3 E Ch 50.22  
to so line Sec 8 - set white Bushy Birch  
Shot Drive again to E <sup>BIRCH BACK SHOT</sup> sec 6

Town Cor. Corrected Nat 36.66 being  
106.6 East of SECOR Sec 8. 137-27

Focus West along line to line Sec 8 and  
run East 43.40 set R.R. Spike E of road  
150 ft E of SECOR Sec 8-137-27

+ 50. = 200 E set another spike

Path for future use in surveying  
Sec 8-137-27

106.6  
93.4  
200.0

43.40  
106.6  
150.00

Ties to Spike 36.66

Old Fence Cor N 55° 30' E 67.50

Pop 7 N 1° 04' W 73.60

SW Cor Sec 8 West 106.6 in water

Tel Pole S 53° 45' E 62.14

R.R. Spike on so line Sec 9 Bear S 0.31

Using so line Sec 8 extended as Meridian

In order to see over hi' brink I run  
West 11.6 and set R.R. Spike 95.0 ft  
E of SECOR Sec 8.



74 May 3-1930. Continued ⑧

to over 146 continues West 19.24 changed  
From corrected lat 5035.10 E Pg 40.

19.24 Drive R.R. Spike in old timber

13.86

33.10

TRUE US M. C. sets 2 ft in wall  
edge and at a point 20.11 E of M C  
and 33.86 East of true line

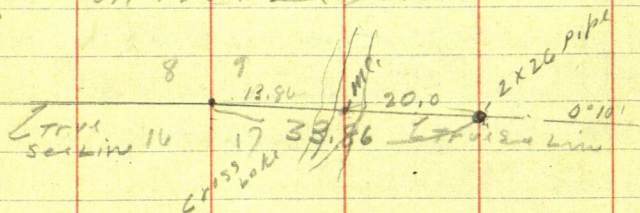
13.86

20.0

33.86

2x26" Iron Pipe in sand beach  
on TRUE line

0.103





Frank Boldridge ⑨

75

To Survey in Sec 8-137-27

So Boundary on Base E-W

$\pi$  over Spike 200 E of SEC or 8.

So Bdry Extended (Not on So Line Sec 9)

Focus West over Lake on true Line Run

North - 200 E of Line 1200 Hub - 1315.98

Hub  $\pi$  over Hat 1315.98 - RR Spike

Pop 7N 35°08'E 54.55

JP 10 S. 50°43'E 69.20

Tel pal 8 S 83°33'E 28.15

1 1/2 W of W Wheel track

9 1/2 W of 2 road

28 E of 1st Brook

0°04' - 00116 x 200 = 00.232

Pack  $\pi$  North to RR. Spike 534.25

So of 1/4 Bet 8-9 P 711 Chain

So 65.75 To 600 S.

( $\pi$  over 600 S Run S 45° E

282.84 x 70711 = 200 S and "

200 E Note: This of course to us)

Take Ties To 600 S viz

Tel Pal. 7N 42°10'E

JP 4N 31°W



76 May 3-1930 continued ⑩

# Hot my Cold Chain

To find diff bet my chain  
to-day and chain on ice

From 1315.98 North Contin

North 300-285-585 RR Spike Hub

1315.98 X over 1900.98 N

~~585~~ Spike 600S bears

1900.98 N 40.50' W 172.60

Sine  $65386 \times 172.6 = 112.86$  W OK

Cosine  $75661 \times 172.6 = 130.59$  N

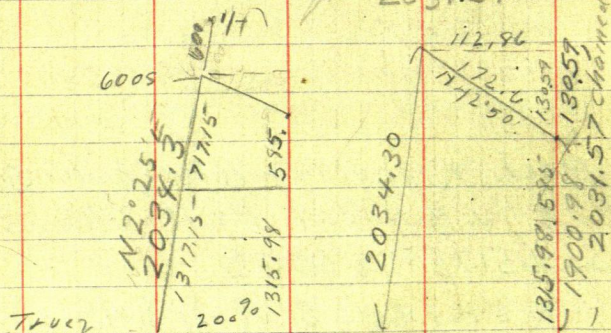
At 2031.57 N

1900.98

Hub 600-Spike W 112.86

130.59

2031.57



See Page 70-99911)

$2034.3 \times 99911 = 2032.49$  Cold Ch

2031.57 Hot Chain

$\therefore 92$  short

$= 00462$  short

$452 \times 1315.98 = 0.59$  short

1315.98 N goes 59 to 1315.39 N







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(12)

May 3-1930 continued  
Correction

South  $\frac{1}{16}$  Line Sec 8-137-27

Note: Hot chain today puts Hub 1315.98

0.59 of a foot to Far North to be directly East of the S  $\frac{1}{16}$  bet 8-9 and in order to set Transit on this line so as to begin at a point on the bank 144.46 Ft East of the True  $\frac{1}{16}$  (which is in Cross Lake)

and run with an angle of  $0^{\circ}04'$  North of a true West line I add 0.17 of a foot to the 0.59 of a foot making 0.76 of a foot from which point I may set  $\tau$  and run

West (West  $0^{\circ}04'N$ ) and at 144.46 ft my line would pass thro the S  $\frac{1}{16}$  cor bet 8-9-137-27 which is in the lake To save time I place Flag 0.76 of a foot South of Hub 1315.98 N being 1315.22 N on E side of Lake Then go around To W side and set triangulation Hub N<sup>o</sup> 966.16 W - North 39 of a foot Continued Pg 80

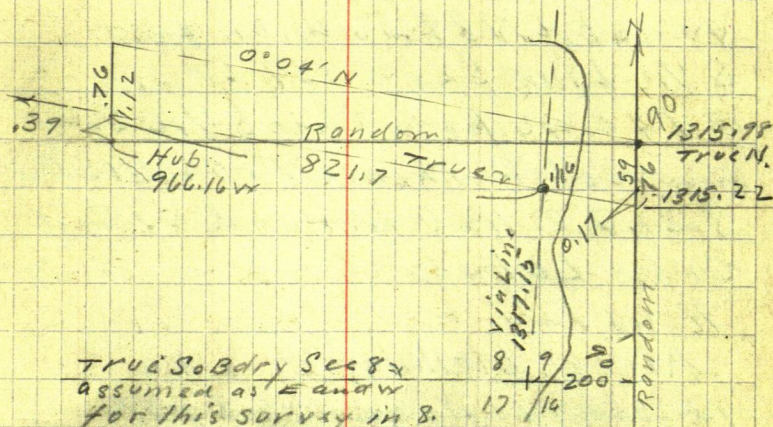


(13)

79

## Baldridge - Aune - Grove

8

Note: Two Meridians

In the Survey of Sec 17-137-27  
I used the West boundary as a  
meridian assumed N. and S. which made  
the s. bdry of Sec 8 as Eas  $0^{\circ} 25' S$   
But

For the Survey of Sec 8 I am using  
this same s. bdry of sec 8 as E-W



80) May 3-1930 continued (14)

Then with  $\pi$  over Hub 0.39  
BS East over Lake on Hub 1315.22  
and run on true S  $1/16$  Lin  
West = N  $89^{\circ}56'W$  on line  
S  $1/16$  Line Sec 8-137-27

@ 144.46 pass thro S  $1/16$  Cor  
in water Thence From  $1/16$  Cor  
821.7 To Hub in road W Side  
Cross Lake

Home late.

Alma's birthday -- Lee  
Heath hands me ok \$75.<sup>00</sup>  
half what Sam Nelder owes  
me for his part of the survey  
at Heath's

Dance in Senheim

April 4-1930 Sunday  
Rain all day in office



May 5-1930 Monday

Gerald and I call on Frank  
Baldridge

who shows me his US Lease on  
Gov Lat 2-See 17-137-27

@ \$100. a year

Says Mr. J. J. Groves returned last  
night - Gerald & I drive to Corral  
Dam where Clarence Erickson

Dam Keeper shows me US maps

Drive north to Hut on his bank

ft west of Hut 1315.98 N

ch so 0.76 of foot and set back shot

Then drive west and from Hut

966.16 W chain north 0.39 of foot and

set RR Spike in East edge of road

821.7 West of S  $\frac{1}{16}$  Cor bet 8-9-137-27

and on line E-W  $\frac{1}{16}$  line

to over Hut 0.39 BS East on flog

West  $\angle$  N  $89^{\circ}56'W$  on True  $\frac{1}{16}$  line

Cut narrow line West to Rush Lake

From Corrected Hut 0.39 ch

East on line line 11.70 to ft

on line  $\frac{1}{16}$  line 810. ft West of

$\frac{1}{16}$  Cor JP 4N  $25^{\circ}E$  4.07 (2x26" pipe)

JP 10N  $87^{\circ}20'W$  42.85 JP 9S  $42^{\circ}E$  16.25



82

16  
137-27 Baldridge

Continue True S  $\frac{1}{16}$  in Sec 8  
West Figured by Triangulation  
From  $\frac{1}{16}$  Cor  $810 + 71.7 = 821.7$  RR

Spik in E side of Co road  
 $810 + 43.8 = 853.8$  RR Spike  
 $810 + 90 = 900$  914.5 RR Spike

in Low spot 1000 pin 1012 RR Spike  
1100 pin 1115.10 RR Spike 1200 pin  
1231.6 RR Spike + 8.4 = 1240 W

S. 12x26" Iron Pipe

JP 6N 59°10' E 7.50

" 6N 34°40' W 10.50

" 6S 16°50' W 7.25

" 6S 69°50' E 5.40

Turned from line line called E

$1240 + 17 = 1257$  Brink Cut bank

10 ft Ht 1275 foot of bank

1310 enter water Rush

Lake at all points set 6 ft  
Stakes marked "E-W  $\frac{1}{16}$  Line"

12 O'Clock - noon drive 80 rods

So to Sec Line bet 8-17.

137-27 Tower random Hot

3932.3 E Turn 90° S



## Correction

See Line Bet 8-17-137-27

 $\pi$  over Hot 3932.3 E  $90^{\circ} 80$ Page 40-64 § 28.22 N set RR.Spike in west ditch Co road and  
on true sec line $\pi$  over Spike 28.22 Run  
West along sec line ( $0^{\circ} 25' R$ )Note: For this line we can now  
using the West Boundary sec 17 as  
Meridian Run.N  $89^{\circ} 35' W$  W (See Page 61)

27.3 To Pt on sec Line 3905.00 E

Set  $2 \times 26"$  Iron Pipe.33.4 W of present traveled  
road center Run

E 33.7 to 3966.00 E on sec line

Set RR spike on N bank of  
Co road.Ties to  $2 \times 26"$  Iron PipeWP 11 N  $70^{\circ} 25' W$  60.70WP 10 S  $20^{\circ} 50' W$  78.50

Blazed

Turned from sec line

V reads  $6^{\circ} 15' N$  End  $6^{\circ} 30' S$  End Needle

1 PM.



Pack & went to Hut 3080.5 E

Page 40-64 Run 90

S 22.11 Birch Hut 1X12 m in line

Touch Hut 22.11 Run N 89°25' W

West along line line 10.50

To 3070.00 E set 2x26"

Iron Pipe

JP12N 80°20'E 22.50

JP13S 29°15'W 6.30

JP10S 25°40'E 16.15

Top Cat tank 12/11k west

12/11 Fort 25W wall 53W

1-45 PM

To get approximately the  
N 1/16 line of sec 17-137-27

For Baldridge we line

So West to Hut 3233.8 E and

1060 to of NW Cor Sec 17

See Page 27-63-

We want to get roughly 100 ft

2539.5 E and 1319.15 S of NW Cor

= 259.15 S and 694.3 W

We guess at our old extent

line E & W no picks up ...

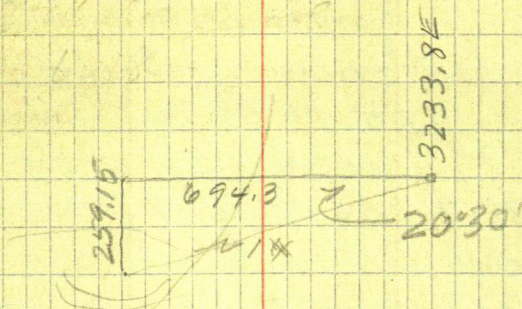


(19)

Baldridge 8-137-27

85

Tower Hut 3233.8 E Run



$$694.3 / 259.15 \quad (37325 = 20^{\circ}30')$$

$$= 569^{\circ}30' W$$

Note: This would put us in Rush Lake so we run

S 53° W along second

S. 53° W

$$\text{Since } 7986 \times 430.62 = 343.89 W$$

$$\text{Corr } 6018 \times 430.62 = 259.15 S$$

$$6018 / 259.15 = 430.62$$

$$430.62 \times 6018 = 259.15$$

We run S 53° W 430.62

694.3

343.9

350.4

still to go west

Tower Hut 430.62 set back of  
stakes E-W to water



$\pi$  over 430.62 continue  
 S53°W to point 350.4 West  
 7986 into 350.4 = 438.76

We run S53°W 438.76

@ 338.76 drive 2x20 Hub

@ 438.76 set RR spike 2 ft  
 N of wheel lock  
 Til Pale NE 51.10

12" Boxwood NW 26.6

Just for safety I call  
 Hub 338.76 Baldridge West line  
 tho I believe that when it is  
 surveyed the line will cut  
 N & so thus on line to my  
 RR spike at 438.76

Note: I have surveyed the  
 N and so lines of Gov Lts  
 137-27. for S F Baldridge  
 and these lines are correct  
 but the N 1/4 line of sec 17  
 I locate roughly just as  
 a favor for also N-S &  
 which I mark far enough  
 East to make myself safe.  
 J. M. W. Ellis



J.J. Grove - Frank Baldridge

Baldridge and I walk over the survey and he gives me a ch \$25. in full

Copy of My Bill

Curo Engineering Co

Interiors Minn

Weekly Statement For S.F. Baldridge

Week ending May 6-1930

Engineer work in survey of Gov Lot 8 - Sec 8-137-27

\$ 25.00

Recd Payment May 6-1930

Curo Engineering Co

By John W Curo

Baldridge gives me a check N° 630 in Citizens State Bank Brainerd Minn \$25.00 J.F. Baldridge Nat. This is in full

Gerald and I pick up J.J. Grove and I show him the lines. He is satisfied and says Chas Smith has sold Mr Cord of Brainerd some land and may need a survey.



J J Grove says "Battling Louise  
and Slappy Sam" tried to beat  
Dr Steele out of his part of the  
Baldridge land &c.

Gerald and I at home 5-40  
PM. Lee and May Heath call  
and want deed made out.



① Aune-Hardy

89

May 6-1930 Tuesday

Aune Plot

As court meets and the Aune-Hardy trial comes up to-morrow or next day I work on the plot

US Meanders In Sec 17-137-27

See Page 306 To 377 Book A' US Nels

Meanders: P 354

In Sec 20

5780 ( ) N From SW Cor 20

N 30° E 21.00 ( )

N 55° E 7.00 ( ) To MC But 17-20

Being 16.35 chs E = 1079.10' From SW Cor 17

In 17

N 43° E 7.80 = 514.80 Ft

N 36° E 13.52 = 892.32 "

N 30° E 4.50 = 297.00 "

N 22° E 3.86 = 254.76 "

N 3° E 17.30 = 1141.80 "

N 38<sup>3</sup>/<sub>4</sub>° E 12.00 = 792.00

To inlet Pine River 200 wide (132 wide)

N 12° E 1.33 = 87.78 Ft

N 15° E 100 = 66.00 "

N 60° E 2.36 =

N 48° E 25.32



OS Meanders Contd

In Sec 17 - 137-27 continued

N 37° E 5.55

North 4.55 To Pton Line

Between Secs 8-17

See also Page 356 US Notes Book 'A'

Viz: Begin 7251 Ch W from Cor to  
8-9-16-17-137-27 Thence

In Sec 17

S 28° E 900

S 6° W 2.86

S 52° E 4.00 To Pine River Outlet  
2.75 Chs wide

S 75° E 6.85

N 88 1/4° E 6.27

S 88 1/2° E 15.80

N 34 1/4° E 6.01

N 11 1/4° W 7.25

N 5 1/2° E 4.96 To M. Post

on E Side of Lake bet 8-17 being

34.66 Ch = W From Cr

8-9-16-17

Note This shows that meander  
of lake shore was taken to center  
of Outlet or Inlet unless  
otherwise specified



## ③ Lake Shore Meanders

Were taken to Center of Streams  
at Inlet or Outlet unless  
otherwise Specified as:

Right Bank or Left Bank

John W. C. C.

US Meanders continued

Page 360 US Natl. Bank "A"

In Sec 17.

R. Bank Pine River

Beg @ R. Bk P.R. and Rush Lake

Thence down stream in 17

S15°E 5.18 =

S58W 3.55 =

S10W 4.87 =

S62E 5.41 =

N80E 6.26

N66°E 4.81

S54E 7.04

S66E 3.72

East 3.80

N63E 2.20

To Cross Lake

Note: Run this backwards from I.P.

R Bk Pine River - With W Shore Cross Lake



## Plotting

IN 17-137-27- P<sub>9</sub> 89 THIS BOOK  
FROM SW COR

1 East 1635 Chs = 1079.10 FT T.M.C. (1)

(N 43° E 7.80 Chs = 514.8 FT

2 Sine 6820 X 514.8 = 351.09 E (2)

Cosin 7314 X 514.8 = 376.40 N

Tang = 932.52

(N 36° E 1352 Lk = 892.32 FT

3 Sine 58779 X 892.32 = 508.50 E <sup>52+150</sup>

Cosin 80902 X 892.32 = 721.90 N (3)

Tang = 726.54

(N 30° E 450 = 297.00 FT

4 Sine 5000 X 297 = 148.50 E

Cosin 86603 X 297.00 = 256.22 N <sup>257 21</sup>

Tang = 577.35

(N 22° E 386 = 254.76 FT

5 Sine 3746 X 254.76 = 95.43 E

Cosin 9272 X 254.76 = 236.20 N (5)

Tang = 404.03

(N 3° E 1730 = 1141.80 FT

6 Sine 0523 X 1141.8 = 59.76 E (6)

Cosin 9986 X 1141.8 = 1140.23 N

Tang = 052.41

(N 38'45" E 1200 = 792.00

7 Sine 62592 X 792 =

Cosin 77988 X

Tang 802.58

495.78

486.73

617.66

E N (7)



⑤

93

# Aune Hardy Trial 17-137-27

		North	East
Start = 00 N	①	00.00	1079.10
351.09 + 1079.10 =	②		1430.19 E
376.40 400 =		376.40	
S/2 =			
508.50 + 1430.19 =	③		1938.69 E
721.90 + 376.40		1098.30	
148.50 + 1938.69			2087.19 E
256.22 + 1098.30	④	1354.52	
95.43 + 2087.19			2182.62 E
236.2 + 1354.52	⑤	1590.72	
59.76 + 2182.62 =	⑥		2242.38 E
1140.23 + 1590.72 =		2730.95	
486.73 + 2242.38 =	⑦		2729.11 E
617.66 + 2730.95 =		3348.61	



93

Pine River

Meander R. Bank-Run backwards  
 IP with Cross Loh = Pg 91. Thin Blk  
 St 0.0. =

Run

$$\checkmark S 68^{\circ} W 2.20 = 145.2$$

$$\text{Sine } 8910 \times 145.2$$

Cosin

$$\text{Tang } 27^{\circ} = 509.5 \text{ in } 1000$$

To St 1.

St 1 - Run

$$\checkmark \text{ West } 380 = 250.80$$

To St 2.

St 2 Run

$$\checkmark N 66^{\circ} W 372 = 245.52$$

To St 3.

$$\text{Tang } 24^{\circ} = 445.2$$

St 3 run

$$N 54^{\circ} W 704 = 464.64$$

To St 4

$$\text{Tang } 36^{\circ} = 726.5$$

St 4 Run

$$S 66^{\circ} W 481 = 317.46$$

To St 5

$$\text{Tang } 30^{\circ} = 445.2$$



US Notes June Trial 17-137-27

Sls 5 Run

$566^{\circ}W 481 = 317.46$

To Sls 6

$Tang = 24^{\circ} = 445.2 \text{ in } 1000$

Sls 6 Run

$580W 626 = 413.16$

$To Sls 7 = 10^{\circ} = 176.3$

Lot 5 - See 17-137-27

Figuring Acreage

Vizi Re Survey throws W 13 dry as  
 $N 0^{\circ} 50 \frac{1}{4}' W$

$Tang = 0.1462 \text{ W in } 1000 N \quad 14.62 W$

$N 45^{\circ} W 600 \times 70711 = 424.27 N - 424.27 W$

$400 + 424.27 = 824.27 \times 0.1462$

$= 12.05 W + 31 W = 43.05 W$

$43.05 \times 70711 = 30.44 \text{ wid. slip}$

$400 N \text{ gas } W 5.85 + 31 = 36.85 \text{ on N end}$

$31 \text{ on 2nd } 400 \text{ ft long} =$

$a \text{ slip of land } 33.92 \text{ wid by } 400 \text{ long}$

$= 13.568 \text{ } 5 \frac{1}{2} \text{ ft and another slip}$

$36.85 \times 70711 = 26.03 \text{ wid. on 2nd}$

$\text{and } 43.05 \times 70711 = 30.44 \text{ on N end}$

$= 28.23 \times 600 = 16.938 \text{ Total } 30.56$

$= 0.70 \text{ of an acre}$



95

(8)

Figoring acreage on Page 92

to show my meridian  $0.50\frac{1}{2}$  W

would add 0.70 of an acre

+ original 4.32 = 5.02 acres

Work till dark.



⑨ June

96

May 7-1930 Wed

Rain and mist - Still on flat

Old Nalis Nox 20-1929 Pg 98 Bk 212

T over Hub 463.05 E

Small House SECor N 71° 15' E 74.0

SWCor N 63° 20' E 66.0

①

NWCor N 59° E 73.0

4.8 x 12.2 Flat Roof Faces So

Princess

SWCor N 11° W 30.0

Partition N 11° 30' E 24.0

②

SECOR N 31° 40' E 22.8

Main Part 12x12 Cottage roof Porch  
on E End 8x12 Flat roof sloping  
East to lake

Main Bldg

N-S-Porch Full Length on E. Side

SWCor Main Bldg N 27° 10' W 147.0

SECOR Porch N 22° 10' W 126.0

NECor " N 11° 50' W 144.0

③

Main Bldg 30x14 N-S

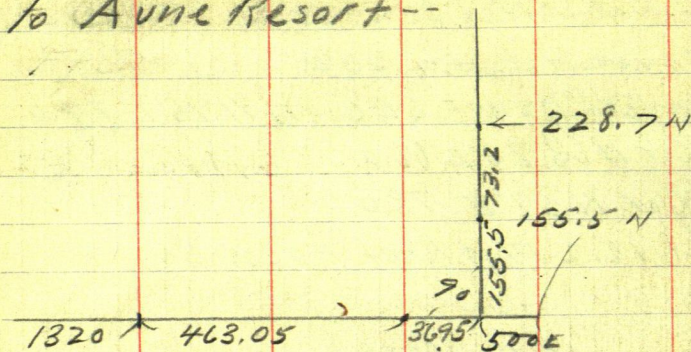
Porch 30x10 Roof Slopes East

390.6 Hub



10

97 May 7-1930 continued  
 PM. Alma. Garard & I drive  
 to Anne Resort --



Take position of buildings

⌵ over Hub RR. Spike 155.5 N to

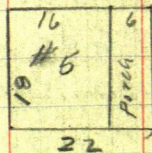
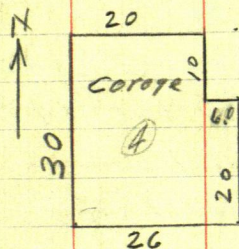
New Garage:

SW Cor N39°15'W 82.2 Ft (4)

SE Cor N29°10'W 59.3

NE Cor Addition N15°20'W 72.6

NE Cor Main Bldg N13°55'W 83.8





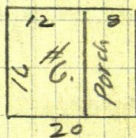
# Aune-Hardy-Fisherman's point Cottage #5

SW Cor  $S 9^{\circ} E$  41.0NW Cor  $S 31^{\circ} E$  28.7NE Cor  $S 44\frac{1}{2}^{\circ} E$  49.3 PorchMain House 16x18 N-S 6 ft Porch E side  
22 ft wide N end.

## Cottage #6.

SW Cor  $N 52^{\circ} E$  57.NW Cor  $N 46\frac{1}{2}^{\circ} E$  73SE Cor  $N 67^{\circ} 20' E$  68 Porch

Main Bldg 12x16 - 8 ft Porch on E side.



Run North 73.2 to 228.7 N

to over 228.7 #7. New Res?

SW Cor  $N 61^{\circ} E$  81.3NW Cor  $N 55^{\circ} E$  99.101SE Cor  $N$  about  $76^{\circ} E$  101.99

20x30

#8. Another bldg NE of #7.  
See sketch Page 100



99 Aune Plot

T still at 500 E and 228.7 N

I call to

12 1/2 x 14 SEC or N 21° 34' W 163.

Dep Sheriff Oberg call  
at my office and serves  
subpoena and offers to pay my  
witness fees to Brainerd

Alma Gerald & I drive  
to Aune resort and take notes



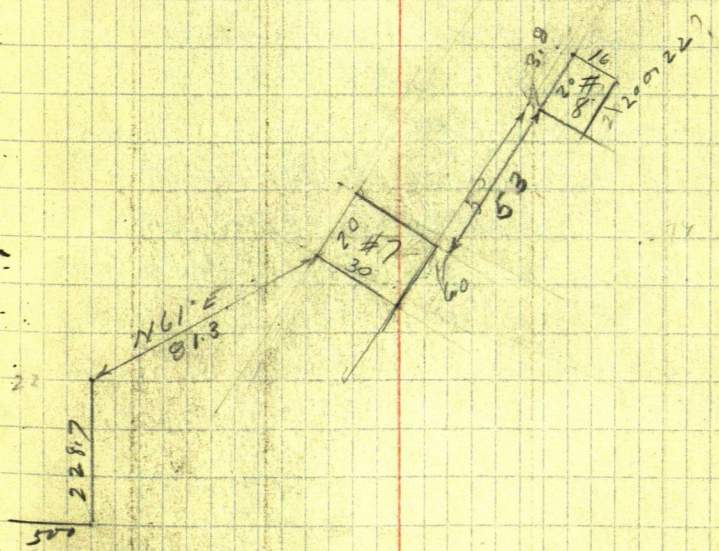
# Aune Plot

May 7-1930

Work all day on the plot and  
half the mile at Mattie Cuceres

Hank Aune & wife with  
Mrs Chas Aune and a man

Call at Matties. res about 9:30  
PM to make sure I will be at  
trial tomorrow





101

# Alma-Hardy Trial

May 8-1930 Thursday

L. Jenkins with Alma 8-30 am  
at 9.00 AM and report to the  
Court as witnesses - bring plat.

Called on the witnesses stand  
about 10 am Questioned by Sullivan  
10 minutes My plat accepted as  
Exhibit A.

Ryan refuses to accept plat  
as evidence on acct of default  
in Sullivan's Complaint

Jury dismissed 15 minutes  
for argument of attorneys  
re-called and formally  
dismissed until 9 AM to  
morrow - PM

Case continued to Fall  
term. Sullivan cannot  
give me any witnesses fees re  
Alma and I return home  
to Jenkins



15

102

17-137-27 - Aune-Hardy-Trial



Nov 5-1930

7-PM Hal Willis hands me out for  
for Home-Hardy trial for 10-AM

Nov 6-1930 Pays me \$4.00 per.

Nov 6-1930

Alma-Rud and I at Ct Ho  
9-55 AM.

Sullivan is on Faucett  
trial

Alma and I eat lunch  
PM

I copy tracing at Murphys office

Meet Isaac Hardy & Alf also

Hank & Mrs. Anne

Home for over mile

Nov 7-1930

Alma Rud and I to Senhuns

Figure extra acreage  $400 + 600 =$

1000 - W 1/4 line runs N 0°

See Page 63.



105

1

July 12-1930 Saturday

R.M. Atwell and ATTWOOLL

L.C. Heironimus 3659

Garard Ave No. Hyland 7730 mpls

Gov Lot 4 Sec 9-137-27

= 22.42 Acres

See Field Book. 203-



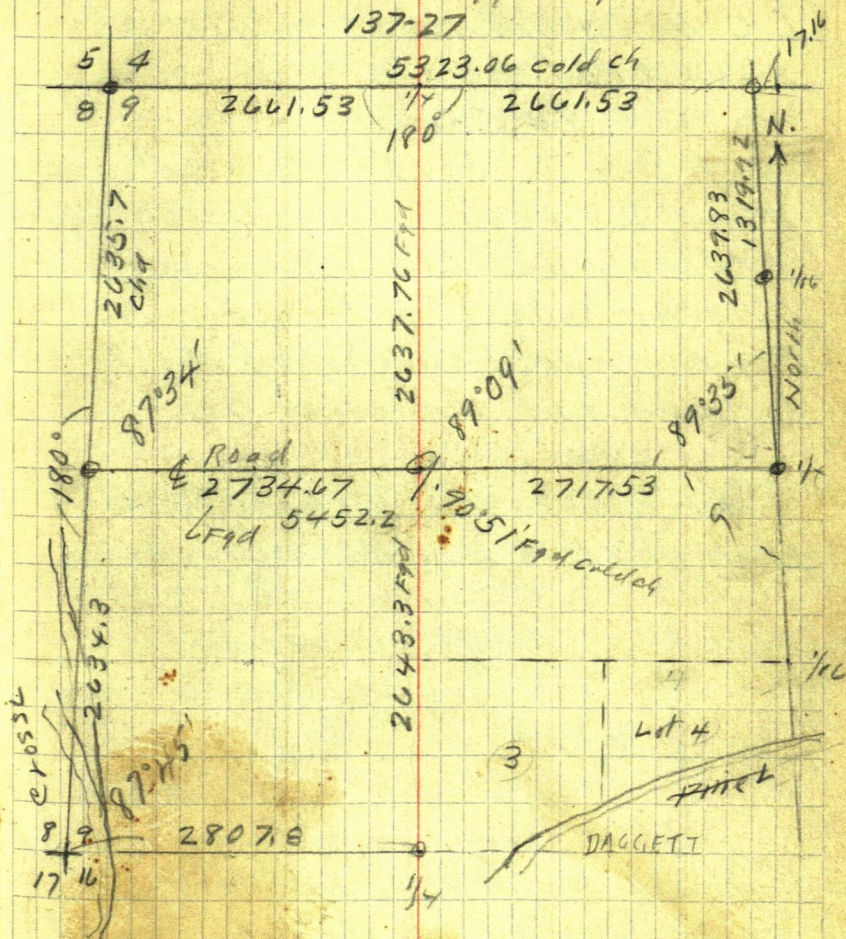
2

106

## Figuring

Gerald and W.C. in office - figuring

137-27





107

3

July 14-1930

Gorold in old T. Ford L. Jenkins 2.45  
 PM. At "Tarrymore" resort 3.40  
 Pick up R.M. Attwell - pickup also  
 L. C. Heironimus. Attwood

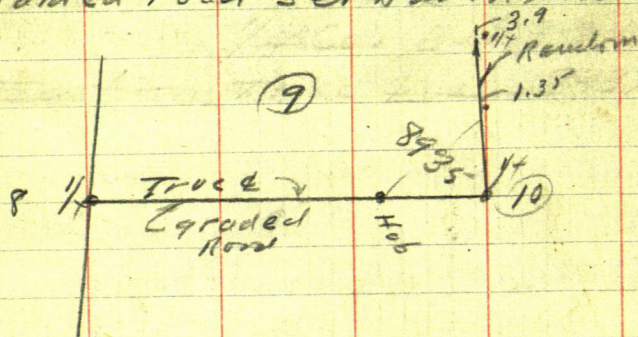
Dig up Iron Mon at

 $\frac{1}{4}$  Cor

Bet Sec 9-10-137-27

Find 2x48 inch pipe Oblon Cop  
 Probably Set By Co Surveyor  
 Knutson where John W. Curo and  
 Roy E. Bryant established the  $\frac{1}{4}$   
 cor and set Iron pipe See  
 Field Book No.

Work Heller on line in E-W.  
 graded road set that on line



Supper and over mile with Attwell



July 15-1930 Tues

Garold W. Curo & ch.

L. C. Heironimus and R. M. Attwood ax

North bet Sees 9-10-137-29

Not chaining @ about 80 rods

Iron pipe Bryants old N.  $\frac{1}{16}$  Cor-  
sets E 1.35

Slaying with Attwood

July 16-1930 Wed

Same crew continues

North chaining roughly from  
N.  $\frac{1}{16}$  pipe (Note: This pipe may  
be off) chain N 1325 ft Cor 1-  
3-4-9-10-137-27

sets E 3.90

Drive to  $\frac{1}{4}$  Cor Bet 8-9. ch  
East on True & see 9-

Garold and Heironimus chain

1300 E. 2600 E 3900 E 4366.66 R.R. spike

5450.65 intersect  $\frac{1}{4}$  bet 9-10

Old chain Pg 106 = 5452.20

My Ch Today  
pulled tight

5450.65  
1.55 short



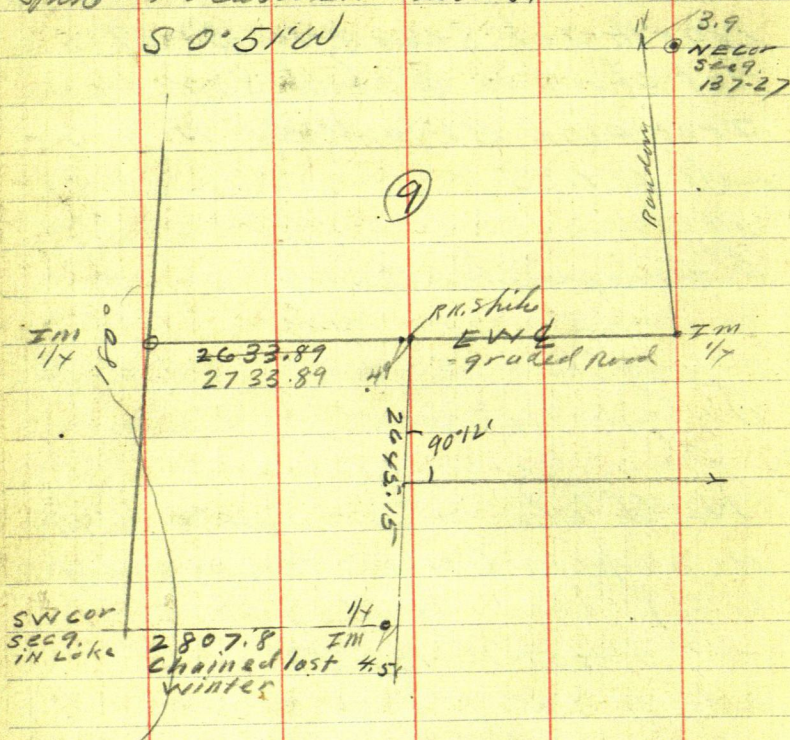
109

5

July 16-1930 continued

Figuring correction See Pg 106

At 2734.67 - .78 = 2733.89 E at R.R.

Spoke Focus West Turn  $89^{\circ}09'$  and run  
S  $0^{\circ}51'W$ 



July 17-1930 Thursday

Garold Curo & ch. Attwell and L.C.H.  
Newman in P.M. Mr. Merle Marshall &  
Garold & H.C.L. Ch From Hub 2633.9 E on & n  
S 0° 51' W 2645.15 So The 1 m 1/4 bet  
1/4 Bet 9-16-137-27

sets West 4.50 1/4. viz  
@ 535.5 S. Hub 1149.35 Hub 1300 plates  
(Naton line) 1546.6 Hub 1964.7 S. Hub  
2332.15 Hub 2645.15 S. 1/4 sets W 4.50

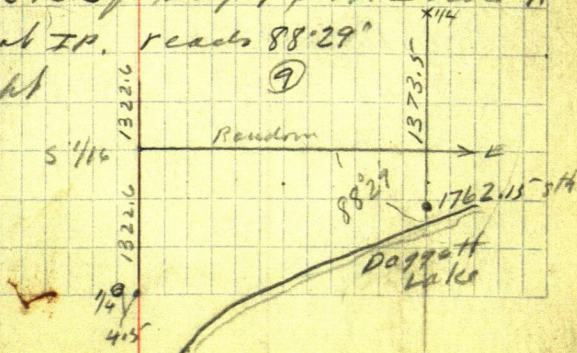
Pack & North to 1322.6 S on random  
Focos N on random Turn NE angle 90° 12'  
Run East -

still with attwell

Evening: L.C.H. goes home to sleep

July 18-1930 Friday

Continue East to pt on Krulson's  
New line 1373.5 / 20 of 1/4 on E Side 9.  
S.W. Angle at IP. reads 88° 29'  
short sight





July 18-1930 continued

Bay @  $\frac{1}{4}$  m E side Sec 9-137-27 of  
 South on Knutson's New Tract line  
 1300 station on line 1600 incline  
 road E-W 1762.15 S New stake  
 set by Knutson

$\frac{1}{4}$  E-W 1762.15 S TRUCK 2  $\frac{1}{4}$

Finish this line in rein

talk with

Mrs R. E. Sergeant & Daughter  
 about Gov't lake shore lease

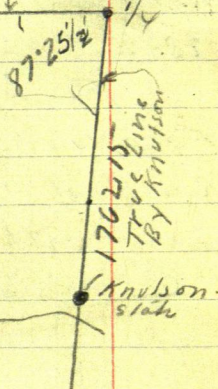
Discuss platting of gov Lot <sup>3</sup> and

NW  $\frac{1}{4}$  & SE  $\frac{1}{4}$  Advise staking

now and platting in usual

Estimate cost \$30.00

Mr R. E. Sergeant 316 Medical Arts  
 Bldg Dallas Texas  
 Home to Jenkins





Curo Engineering Co Jenkins Mining  
Time Sheet - Working For R. M. Attwell and L. C.

*Heironimus.*

July 1930		SUM	
12	13	14	15
16	17	18	19
		SUM	
		20	21

John W. Curo	7	0 <sup>1</sup> / <sub>2</sub>	Notes	-	-	-	-	-	0
--------------	---	-------------------------------	-------	---	---	---	---	---	---

	EXPENSE	-	0	-	-	-	-	-	0
1978	100	-	0	-	-	-	-	-	0
1979	100	-	0	-	-	-	-	-	0
1980	100	-	0	-	-	-	-	-	0
1981	100	-	0	-	-	-	-	-	0
1982	100	-	0	-	-	-	-	-	0
1983	100	-	0	-	-	-	-	-	0
1984	100	-	0	-	-	-	-	-	0
1985	100	-	0	-	-	-	-	-	0
1986	100	-	0	-	-	-	-	-	0
1987	100	-	0	-	-	-	-	-	0
1988	100	-	0	-	-	-	-	-	0
1989	100	-	0	-	-	-	-	-	0
1990	100	-	0	-	-	-	-	-	0
1991	100	-	0	-	-	-	-	-	0
1992	100	-	0	-	-	-	-	-	0
1993	100	-	0	-	-	-	-	-	0
1994	100	-	0	-	-	-	-	-	0
1995	100	-	0	-	-	-	-	-	0
1996	100	-	0	-	-	-	-	-	0
1997	100	-	0	-	-	-	-	-	0
1998	100	-	0	-	-	-	-	-	0
1999	100	-	0	-	-	-	-	-	0
2000	100	-	0	-	-	-	-	-	0
2001	100	-	0	-	-	-	-	-	0
2002	100	-	0	-	-	-	-	-	0
2003	100	-	0	-	-	-	-	-	0
2004	100	-	0	-	-	-	-	-	0
2005	100	-	0	-	-	-	-	-	0
2006	100	-	0	-	-	-	-	-	0
2007	100	-	0	-	-	-	-	-	0
2008	100	-	0	-	-	-	-	-	0
2009	100	-	0	-	-	-	-	-	0
2010	100	-	0	-	-	-	-	-	0
2011	100	-	0	-	-	-	-	-	0
2012	100	-	0	-	-	-	-	-	0
2013	100	-	0	-	-	-	-	-	0
2014	100	-	0	-	-	-	-	-	0
2015	100	-	0	-	-	-	-	-	0
2016	100	-	0	-	-	-	-	-	0
2017	100	-	0	-	-	-	-	-	0
2018	100	-	0	-	-	-	-	-	0
2019	100	-	0	-	-	-	-	-	0
2020	100	-	0	-	-	-	-	-	0
2021	100	-	0	-	-	-	-	-	0
2022	100	-	0	-	-	-	-	-	0
2023	100	-	0	-	-	-	-	-	0
2024	100	-	0	-	-	-	-	-	0
2025	100	-	0	-	-	-	-	-	0
2026	100	-	0	-	-	-	-	-	0
2027	100	-	0	-	-	-	-	-	0
2028	100	-	0	-	-	-	-	-	0
2029	100	-	0	-	-	-	-	-	0
2030	100	-	0	-	-	-	-	-	0
2031	100	-	0	-	-	-	-	-	0
2032	100	-	0	-	-	-	-	-	0
2033	100	-	0	-	-	-	-	-	0
2034	100	-	0	-	-	-	-	-	0
2035	100	-	0	-	-	-	-	-	0
2036	100	-	0	-	-	-	-	-	0
2037	100	-	0	-	-	-	-	-	0
2038	100	-	0	-	-	-	-	-	0
2039	100	-	0	-	-	-	-	-	

Old Ford - 0 1 1 1 1 1 - 0

New Ford	-	0	-	-	-	-	0
----------	---	---	---	---	---	---	---

Garold W  $\pi$  Ch Curo 0 1 1 1 1 - 0

EXPENSE	1.10	8.10	0

R M Athwell	O	$\frac{1}{4}$	/	/	-	0
Athwell	O	$\frac{1}{4}$	/	/	/	0

Station	Time	Lat	Long	Alt	Wind	Temp	Hum	Clouds	Pressure	Remarks
1	0800	10° 15' N	156° 15' W	10	10	28	85	10	1010	Light rain
2	0900	10° 30' N	156° 30' W	10	10	28	85	10	1010	Light rain
3	1000	10° 45' N	156° 45' W	10	10	28	85	10	1010	Light rain
4	1100	11° 00' N	157° 00' W	10	10	28	85	10	1010	Light rain
5	1200	11° 15' N	157° 15' W	10	10	28	85	10	1010	Light rain
6	1300	11° 30' N	157° 30' W	10	10	28	85	10	1010	Light rain
7	1400	11° 45' N	157° 45' W	10	10	28	85	10	1010	Light rain
8	1500	12° 00' N	158° 00' W	10	10	28	85	10	1010	Light rain
9	1600	12° 15' N	158° 15' W	10	10	28	85	10	1010	Light rain
10	1700	12° 30' N	158° 30' W	10	10	28	85	10	1010	Light rain
11	1800	12° 45' N	158° 45' W	10	10	28	85	10	1010	Light rain
12	1900	13° 00' N	159° 00' W	10	10	28	85	10	1010	Light rain
13	2000	13° 15' N	159° 15' W	10	10	28	85	10	1010	Light rain
14	2100	13° 30' N	159° 30' W	10	10	28	85	10	1010	Light rain
15	2200	13° 45' N	159° 45' W	10	10	28	85	10	1010	Light rain
16	2300	14° 00' N	160° 00' W	10	10	28	85	10	1010	Light rain
17	2400	14° 15' N	160° 15' W	10	10	28	85	10	1010	Light rain
18	2500	14° 30' N	160° 30' W	10	10	28	85	10	1010	Light rain
19	2600	14° 45' N	160° 45' W	10	10	28	85	10	1010	Light rain
20	2700	15° 00' N	161° 00' W	10	10	28	85	10	1010	Light rain
21	2800	15° 15' N	161° 15' W	10	10	28	85	10	1010	Light rain
22	2900	15° 30' N	161° 30' W	10	10	28	85	10	1010	Light rain
23	3000	15° 45' N	161° 45' W	10	10	28	85	10	1010	Light rain
24	3100	16° 00' N	162° 00' W	10	10	28	85	10	1010	Light rain
25	3200	16° 15' N	162° 15' W	10	10	28	85	10	1010	Light rain
26	3300	16° 30' N	162° 30' W	10	10	28	85	10	1010	Light rain
27	3400	16° 45' N	162° 45' W	10	10	28	85	10	1010	Light rain
28	3500	17° 00' N	163° 00' W	10	10	28	85	10	1010	Light rain
29	3600	17° 15' N	163° 15' W	10	10	28	85	10	1010	Light rain
30	3700	17° 30' N	163° 30' W	10	10	28	85	10	1010	Light rain
31	3800	17° 45' N	163° 45' W	10	10	28	85	10	1010	Light rain
32	3900	18° 00' N	164° 00' W	10	10	28	85	10	1010	Light rain
33	4000	18° 15' N	164° 15' W	10	10	28	85	10	1010	Light rain
34	4100	18° 30' N	164° 30' W	10	10	28	85	10	1010	Light rain
35	4200	18° 45' N	164° 45' W	10	10	28	85	10	1010	Light rain
36	4300	19° 00' N	165° 00' W	10	10	28	85			

Mar 1	0	-	-	1/2 AM	1	0
Mar 2	0	-	-	2:00 PM	1	0

Board With Attwell

Gerald Guro 0 SL 4 4 4 <sup>PSD</sup> - 0



113

9

July 19-1930 Saturday

All day in Jenkins

July 20-1930 Sunday

Gerald - Reed and I W @ 10  
Hard Lake - Met Emil Fiesel  
and party Signed Gerald Cur

July 21-1930 Monday

all AM in office on corrections  
drives at home

PM.

1-30 PM.

Gerald and I in Ford A  
Dr Jenkins

Heller over  $\frac{1}{4}$  on W side Sec

$\frac{1}{4}$  Sec 8-9-137-27

Focus N on N  $\frac{1}{16}$  and East on  
E sec 9.

NE angle read  $87^{\circ}27'$

$87^{\circ}27' - 174^{\circ}54' - 262^{\circ}21'$

$349^{\circ}48'$  OK @  $87^{\circ}27'$



Attwood  
Heironimus

114

drive a mil E  $\pi$  over

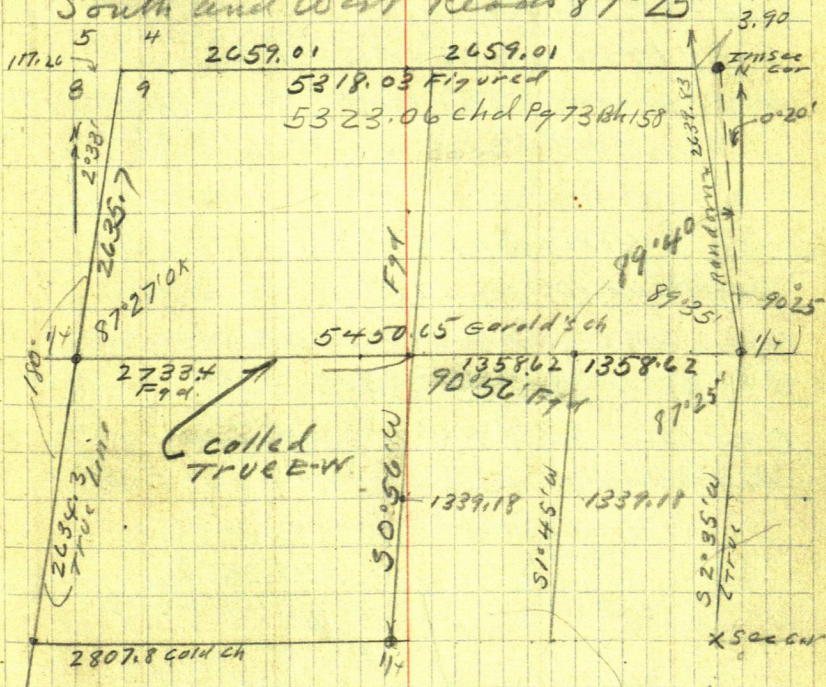
1/4 Corbett 9-10-137-27

Focus Non random

NW angle reads  $89^{\circ}35'$  shortsight N.

Check SW angle of true lines. <sup>Sho.</sup>

South and West Reads  $87^{\circ}25'$





11

Correction  $2640/3.90 (= .001477 = 0^{\circ}05'$

Tary: 004454  
 $2^{\circ}38' \text{ Sinc. } 04449 \times 2635.7 = 117.26 \text{ E}$

$$0^{\circ}20' \text{ Tang. } .00582 \times 2639.83 = \underline{15.36}$$

2659	5450.65	132.62
2807.8	132.62	2807.8
2154668	5318.03	2659.0
2733.4 Fpd		148.8

$$5280 / 148.8 \text{ C} = .0281818 = 1'37''$$

West Line runs  $S 2^{\circ} 33'$  West

Next Line runs S 2° 33' West 192'  
 & runs S 1° 37' Less or S 0° 56' W - 137  
 56

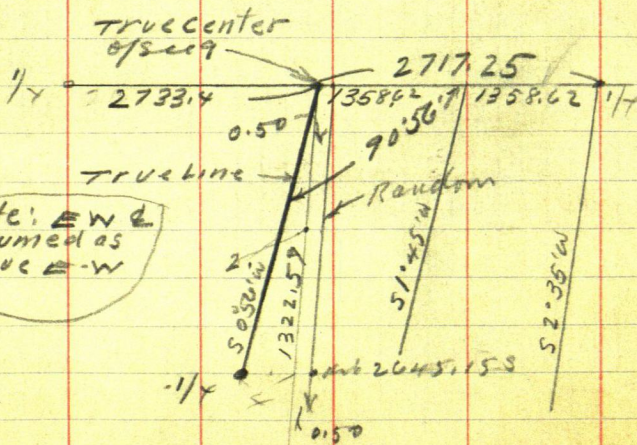
Correcting

See Page 109 Hub 2733.89 we set this  
Hub West 0.49W to True center / Sec 9

At 2) 2645.15 (1822.575

Hub 1322.575 West West 2.50

Hat 2645.155 Schwert  $0.50 + 4 = 4.50$



Note: EW assumed as True E-W



2733.4 +  
1358.62  
4092.02

At 4092.02 E set

1/16 in center of East Half

Sec 9-137-27

1/4 Cor Bet 9-10-137-27

New Ties JP3 N 70° 20' E 42.80

Fence Post #11 950' E 12.60 to center of road

JP8 N 24° 42' W 68.4 Topped by C. Surveyor

Cor 8536' 20' W 52.35 B 102' 00'.

Turned from T111 E W &

Drive South Extend New graded road  
line South by eye to lake shore and set  
red flag on lake shore about 100 ft so of  
Knutson's 4 inch round Birch stake which  
is 1762.153 Then get boat from  
Mrs Atwood and go over lake look for  
1/4 Cor bet 15-16-137-27

US Notes call for:-

Continue to Co road and return at dusk



117 July 22-1930 TUES

Gould and I in Model A Ford  
and our lunch Lr Jenkins 7-30 AM  
From Spike 3900 E chain E 192.02  
to 4092.02 E set R.R. Spike in cen of  
E-W graded road TRUE

$\frac{1}{16}$  in center of E. Half sec 9-187-27  
Oak 8 N 34° 20' E 64.7 spotted <sup>Turned from</sup>  
JP 12 N 43° 20' W 30.6 <sub>E-W</sub>

Focus Weston center of sec 9 Run  
S 1° 45' W Gould cuts line  
at 10 am. Mr Atwell arrives  
at 50 ft to old fence line E  
@ about 700 So set 2X15" Pine Hub  
1 ft N of old E-W road old fence  
old fence line East about 55 ft  
at about 850 am the old road E-W  
@ - Hub @ - Hub  
at 80 rods cross E-W cut out line  
Eat our lunch near Atwell  
PM.

Gould & I Walk West at Hub  
1322.57 S. Ch West 2.50 ft and set  
 $\frac{1}{16}$  in cen of S. Half sec 9- Ch.  
East on limit line



Eert

493.0 Hub 513 @ old Road N-S

533 E Tel line N-S 1300 stake

1339.85 intersect N-S line

< 0.0 @ 15. enter open meadow

N-S @ 85 LV @ 111, cross N-S Fence

189.3 Hub 466 Hub 550 ent

open meadow NW-SE @ 600 x 700

meadow line 30 ft N x 30 ft S

@ 800 meadow 50 ft N - 50 ft S

800 to 900 small lake N 10 ft

@ 900 meadow line 300 ft NW

925 LV meadow NE SW

1111.00 Hub 1338.5 Hub on sec

line 1373.50 40 of 1/4 Cor

Hub 1339.85 E gas

1339.85

1338.50

1.35

West 0.67 to 1339.18 E .67

Work to 0.67 W on line, another

South on true 1/16 line & water

Begin at water edge at

North 15 cut bank 42 Hub

97. Hub in E EW Road

212.7 Hub 390.6 stake on line

613.8 Hub



119

15

July 22-1930 Cont'd

Town Hat 97 N of Walei run

Run on old road  $N 80^{\circ} E = E 10^{\circ} N$ 

Sine 1736

cosin 9848) 100  $L = 101.54$ 

@ 101.54 set pin @ 203.08 Hub

at about 135 cross old N-S fence

Note: To Mr L.C. Heironimus

has bought from Mr Atwell the West

100 ft of Gov Lot 4-See 9-137-27 @ 8250?

to be 300 ft long from the water and

as he supposed the old N-S fence was

the west line - he has started to put in

his current piers about 135 ft N of E



16 *Attwood.*  
*Heironimus*

120



121

Atwood  
17 Heironimus

Aug 10-1931 Monday

P. M. John W. Curo alone in 1930 Ford  
Lidenkins & iron pipe H & B  $\pi$  100. Tfu

Mr L. C. Heironimus of 3659 Girard  
Ave No Mpls "Teacher"

has bargained for The E 100 ft y  
W 250 ft Gov Lot 4-See 9-137-27

I have promised to stake it out for \$10.

2-30 P.M.



## Finstad Rt 5 Brainerd Minn

April 29-1935

Dinner at Jenkins PM. I drive alone to West Gull Lake Take my own blankets

At Finstad Res 1 PM. Copy Deed

"Anna W. Harrison and John W. Harrison

To Olof P. Finstad: All of Lot 1- Sec 8-

134-29

Dated Aug 29-1921 \$275.00

Finstad owns: Lots 3-4-5-6 Sec 5-  
NW SW Sec 5 So 9.81 acres of Lot 7

Sec 5 and E 1/2 SE 1/4 Sec 6 Lot 17 Sec 5

134-29

27.70

Note: Kenneth Enke

9.81

of St Paul Bk Finstad Land

17.89

His Father and Bro in staples

Theo Thompson - Mrs Finstad's Brother and  
I go all over the place. supper with Mrs  
Finstad I sleep in my own blankets  
at cottage

April 30-1935

Theo Thompson and John W. Curo work

5-6-7-8-134-29 US Notes coll for:

NP 18 S 52° E 67' = 44.22 NP 10 N 44° E 40' = 26.40

NP 9 N 74° W 33' = 21.78 NP 24 S 7° W 25' = 16.50

We find all FOUR MKD set 2 1/2 x 8" Birch Hub

T @ 8° NEW 175 VIZ:

Red Oak 18° S 65° 25' E 59.55 } To spot at bore

NP 12 N 6° 45' E 63.55 } 8° Var

R. Oak 10° S 55° W 6.40

R.O. 16 S 36° 30' W 44.20

Run N 8° Var @ 202.30 Hub on hill

O.P. Finstad Leanington Tailor Shop Lvs at  
noon 1711 E Lake St N 1/2 UP stairs Flt 2

I Lv for Brainerd before supper stop at

Pine Beach 44 F 12 Call Mrs Kemper Jensen  
over mile at Brainerd



123

April 30 - 1935

(2)

old US  
NP 9  
20Kd

2 1/4 x 26" Pipe in pile  
of stone and mound  
set June 21 - 1935 Pp 130

NW-SE 66.00 US = 63.60  
= 2.40 short. 3636 short

NE SW 4 2.90 US = 43.90  
MYCH = 1.00 Long = 2.331  
Long. 16.50 = 16.89  
26.40 + 61 = 27.61

134-29

N 74° W 21.78 US  
N 73° 30' W 21.00 MY

N 44° E 26.40 US  
N 45° E 27.01 MYCH

Note: Corner  
MKd May 1 - 1935  
see pg 125

S 52° E 44.22 US  
S 51° 30' E 42.61 MYCH  
S 70° W 16.50 US  
16.89 MYCH  
FROM US NP 24  
MKd

old US  
NP 10  
dry stub  
MKdold US  
NP 18  
MKd

May 12 - 1935 Sunday

Walt Pehoski and Curo

Beg @ 202.3 CH N 97.7 To 300-600-900  
1789.3 HUB 1200 stake @ 400 cent E Edge of  
old road N-S- 525 LV E Edge old Road runs  
NW 600 pt 35 E of Road about 750 cross old  
road NE SW chain along new cut line  
cut by Theo and Oscar Thompson  
about May 1 - 1935

May 22 - 1935

Rec Letter from Mrs Finstad Walt and I  
@ 7-30 AM Talk with Jim Quinn at Nisswa  
Fr 11-00 AM Figure till noon Dinner at Finstad  
PM. Walt & I drive to Cor 5-6-7-8 CH  
⑤ but 7-8 - 225 + 130 = 355 deep even. 430  
stake 555 stk on side hill 650 stk on First  
Bench 800 - 25 = 775 on top 900 S Brink 950  
back on side hill 1160 Second Bench 1320 stk  
1340 S Brink then down hill

cont'd pg 125

John A Curo

South



1935 Time Sheet Working for Mrs Finstad

April	29 30	May 1	12	22 June	17 18	19	20	21	22	SUN 23
John W. Curo	1/2 PM	-	1/2	1	1/2 PM	1	1/2 AM	1	1	0 = 7
Car Miles	25 25	-	25	50	20	20	40	20	20	0 = 245
Expense	-	-	-	-	-	-	-	-	-	0
Theo Thompson	1/2 PM	1	?	-	-	1	1	1	-	0
Oscar Thompson	-	1	-	-	-	-	-	-	-	0
Walter L. Pehoski	-	-	1/2	1	-	-	-	-	-	0 - 83
John Ivers Bobcock	-	-	-	-	1/2 PM	1	1/2 AM	1	1	0 64

Board With Mrs Olof P. Finstad

John W. Curo	SL	DB	-	DB	-	DB	DB	DB	DB	DB
Walt Pehoski	-	-	DB	DB	DB	DB	DB	DB	DB	DB
Bobcock	-	-	DB	DB	DB	DB	DB	DB	DB	DB



④

1320 + 280 = 1600 stake - 50 = 1550 Foot of  
hill NE SW, Enter Flat. 1625 sea wall  
NE SW Timber line. 1660 Rocky sea wall  
N 20° E and W 1675 Water Guil Lake  
about 1550 S - a big pile of stone on sand  
beach bears East about 80 Feet  
We pile stone away but find no  
stake or MC.

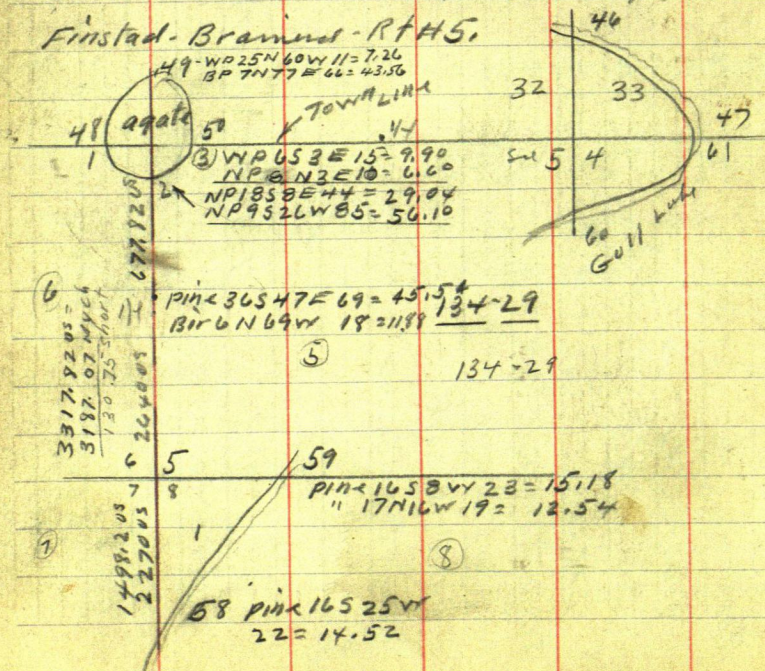
At MC. IV<sup>2</sup> 58 US Notes call for  
White Pin = 10525' V 22 = 14.52

Only one  
Do not look much - walk 80 rods N to car  
and drive 80 rods N

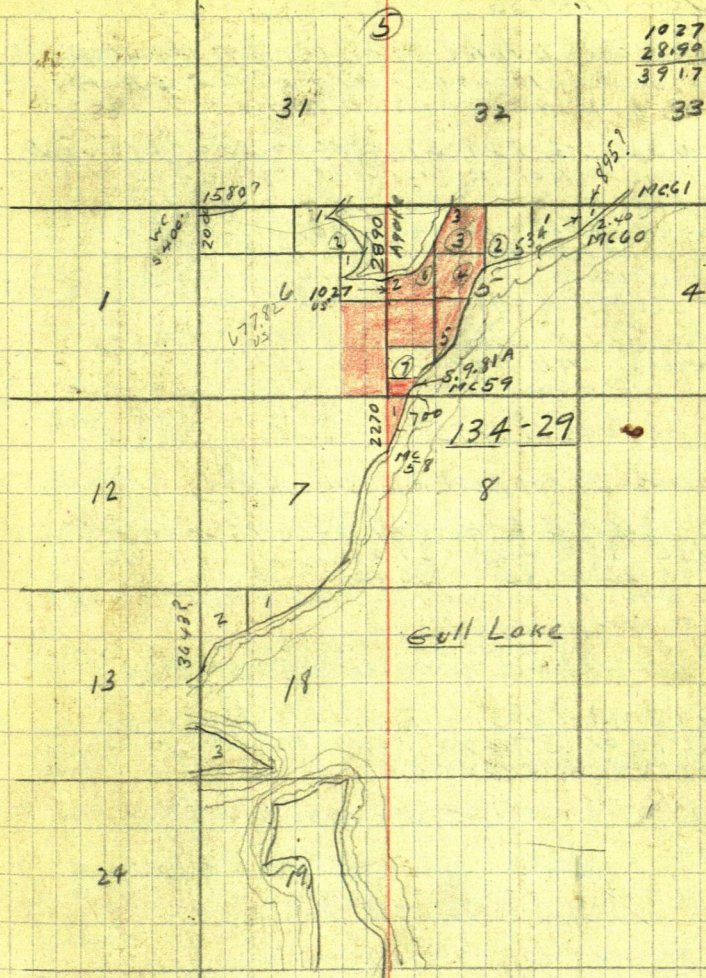
4. pm. Beg @ 1199.34 continue  
North Bet 5-6-134-29 - 1200-1320-1500  
18-21- + 104.3 = 2204.3 Gross Fenn 8 ft E7  
COR @ 2300 Fenn 1. ft W 2400 strike 1 1/2 E7  
Fenn 2484.5 Gross Fenn 15 E of NW cor  
2700 strike Do not wait for supper

Note: My First Trip Must have been dated  
one day off as Ted Thompson and I put in  
on 15 15-6-7-8-134-29 19Kd "May 1-1935"

Finstad-Braines-Rt #5.









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JUNE 17-1935 (6)

Bobcock and I take trailer - get my big tent  
back from Roy Bryant - At Finstad 2-30 PM  
Work till 6 PM Bag @ 2700 ch. N Bet

North bet 5-6-134-29 @ 30 + 215 = 3215 Hub  
Bob runs Heller X - his first try @ 3230 N Brink  
3304 Foot of Bank 3315 Top of Low Rocky Broad  
sea wall 3215 + 180.5 = 3395.5 HUB on  
sand 10 ft from water Agate Lake I walk  
1: N side cannot see Bob - Home @ 6-20 supper  
after supper Bob and I walk - bring in X

Sleep in Finstad bunk - cold - Cloudy  
4-Hours. All Hubs = 60d - spikes

June 19-1935

Bob and Breakfast @ 6-AM. Cold - Cloudy

MCN No 2 Bet 5-6-134-29 OS Notes call for

NP 185 8° E 44 = 29.04 FT

NP 95 26° W 85 = 56.10

Find both SW BT green plainly MKd - stump of  
SEBT. well preserved.

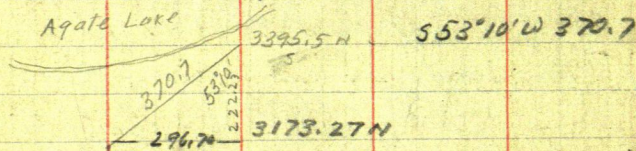
Set cor by flat chain - courses will not  
fit but distance will hold over courses

X over 3395.5 N TRUE MC bears

553° 10' W 370.70 - using random as line N.

Note: Var changes 1-6°

Agate Lake



Sine 80038 x 370.7 = 296.70 W

Cosine 59949 x 370.7 = 222.23 S

224.4 - 2400 N

3173.27 / 296.70 = .0935 W = 5° 20' Tang

.0935 = 5° 20'

5° 20' Var Read. 11° 20'

1267.98

1262.49

5.49

2535.96

2524.98

10.98

cor 5-6-7-8-13x-29



(7)

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June 18-1935 continued

@ 2400 N Run 90° W 224.4 Then N 5° 20' W

Cos 5° 20' = 99567 x 3187.07 = 3173.27 Length

13.80 longer via true line

2410.44 x 99567 = 2400.00

2640. + 677.82 = 3317.82 vs = 3187.07 My ch = <sup>short</sup> 130.75

= .03941 short . 2

2640.0 - 104.04 = 2535.96 My chain

677.82 -	26.71 =	651.11	"	"
----------	---------	--------	---	---

3317.82	130.75	3187.07		
us, ch	short	My chain	Total	

Supper with Mrs Finsted - Evening Bath & I  
go home to Jenkins - for over nite.

June 19-1935 Wed.

Take Nels Anderson to Ernest Sims  
Court at Pagant Gust Schoen complaint

48 miles - Bat and I alone at Jenkins

Figuring Correction on Random, 0935 <sup>5° 20'</sup>On Random: 2524.98 goes west 236.09 = <sup>1/4</sup>1262.49 " " 118.04 = <sup>1/16</sup>1262.49 N goes W 118.04 T. S <sup>1/16</sup>

1189.30 " " " 111.20 = .0935 W = 5° 20'

202.30 " " " 18.92

O.K.

John R. C. C.



129

⑧

Finstad

June 20-1935 Thursday

Bob and I at Finstad 7:00 AM - 7:15 PM

Northern True Line  $2400 = 2410.44$  $+3+3 = 3010.44 + 69.86 = 3080.30$  Iron Pipe $2\frac{1}{4} \times 36$  in mound on top of bank $+106.77 = 3187.07$  N = Set  $2\frac{1}{4} \times 35$  pipeon sand beach in mound of sand and  
stone 20 ft N of cut bank and

60 ft so of mud and water =

MC IV = 2 Oct Sect 5-6-134-29Old  $9^{\circ}$  NP BT (Now  $15^{\circ}$ ) S  $32^{\circ}$  W 56.10 ft  
to old "BT" mark at base (I chopped out)Old as  $18^{\circ}$  NP (slump) S  $2^{\circ}$  W 29.04Note: Off for course But "distance holds over  
courses" New BTS. Birch 15 S  $55^{\circ} 30'$  W80.25. Oak 11 S  $17^{\circ} 30'$  W 42.20 Crooked Oak 6'S  $87^{\circ}$  E 40.35 Turned From True line S.  $11^{\circ} 20'$ To Potin  $1/4$  Bet 5-6-134-29@  $2410.44$  N Ch N 125.52 To 2535.96 NSet  $2\frac{1}{4} \times 36$  pipe in large mound No BTS.In at 11:30 dinner @ 11:45 - Drive to Pequot  
for trial. Over night at home in Jenkins



June 21-1935 Friday

Bob and I or Finstad 7-30 AM - Mist-rain

We drive to Nels Johnson res. he shows me  
1 1/4 x 12 ft pipe set by B. B. Bartlett 32  
years ago working for shoemaker True  
Township Corner

Bob stays on N side Agate Lake I LV Car  
at Finstad Hs Pack Heller to Hub on N  
Side and set Flag on N Side Agate Lake  
Dinner at 11-30 AM.

P.M.

Ted-Bob and I Correct Line bet 5-6-

134-29 @ 1189.30 N Ch W 111.20 small Hat

1262.49 N Ch W 118.04 Set 2 1/4 x 26" pipe

on N Side Hill True S 1/16 Cor <sup>Pile of stones</sup> <sup>inside Hill</sup>

JP 7 N 32° 20' W 45.20 From True Line ver still 11° 20'

JP 11 S 68° 05' W 37.80

Ch 45.70 S. To 1222.28 N, 60 d spikes on  
top of green 6" JP Stamp Top of Highest Hill  
near N Edge JP 8 N 69° 10' W 28.15  
JP 12 S 62° 20' W 31.50

Heller K over Hub 202.30 Ch W 18.92

set 1 1/2 x 12" dry Oak Hub on top of raise  
Near or on a baby's grave - exact location  
within a few feet - unknown by Ted Finstad

pull up hub and set 2 1/4 x 26" pipe in pile of  
stone and mound True Cor 5-6-7-8-134-29  
Home at 5-30 = 8 1/2 Hours.



June 22-1935 Sat

Breakfast @ 6 am. on notes till 7:15

Drive to NE Cor Sec 5-134-29 Find 2x48" Pipe Bent East. pull up pipe & break in straightening. 2" Hole in clay stays perfect. Drop broken half back in hole and chain

West on & graded road Boband & 300' l/s  
3-6-9-12-1320 W set 120 of spikes in & road  
1424.2 about, inline with & road graded North  
15-18-21-24-27+150-2850 spiking & N-S road  
= Temp 1/4 Cor Bet 5-32-134-135-29

1/4 Cor N Side 5-134-29

Note: we set a spike in & N-S road and in line with fence running west. The old 2x48" referred to be here but Oscar Thompson says the Road Boss made him pull it up. I find old Big old pine vs BT lying near and the hole where the line was grubbed out checks with my Temp 1/4

#1 2700+150-2850 W intersect Temp 1/4

I meet Harry H. Imer caretaker Rt #5, Grainerd Ave. Harry came from James-town N.D. one year ago. His daughter Ruth has just finished 2 years of school there and has just come home. Harry says: W. H. Smith of Macon Mo Oilman and another man dispute the Finstad lines which Finstad claims was fixed by agreement years ago.

Boband I drive to Rocky Point meet Mrs Alliss who wants her 125 ft lat surveyed also 100 ft adjoining on the west

Land has been platted First owned by

1. Chas Anderson
2. Gale Brooks

I will look this up in Walker

West on Town Line

To miss Fence I set R 50 135 on NE Cor Sec 5 1/4 West @ spike in rock @ 2850 spike 4.75

S. of Temp 1/4 - 2850+3-6 am 3450 pm

Dinner at Finstad res

P.M. Boband I meet Ruth Imer (21?) waiting for mailman - Ruth does not know Grace Sheniker. I drive to town but she goes with Boband I to look thro Telescope she drives my car Boband I

All three drive to W Side of Agate Lake  
Lv. Bob to set pit over lake and drive back to R  
Find Ruth's dad waiting in car for Ruth. sure?



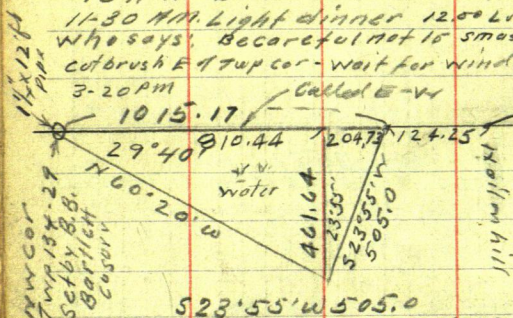




12

10 AM - Bob and I & Jenkins - At Finstad  
11:30 AM. Light dinner 12:00 L. Callon Nels Johnson,  
who says: Be careful not to smash down too much grain  
cob brush & top cor - wait for wind to slack Thunder & Rain

Called 6-14



528'55" W 505.0

$$\sin 40541 \times 505 = 204.73$$

$$\cos 91.414^\circ \times 505 = 461.64$$

$$29^{\circ}40' \tan 9.56962 \times 810.44 = 461.64 \text{ m}$$

$$60 + 1.75556 \times 461.64 = 810.44 + 204.73 =$$

Home @ 5.30 supper @ 6 - PM Figure till 7.30

Sleep at same old cottage = 6 Hours  $3/4$  day 30 miles

UP @ 5 - Breakfast @ 6-45 with Ted & Bab  
Ted widens lines Bab drives to H.  
Side re-set hubs ok.

TOVER US-MC-Nº 2, zm 50 sid

Agate Lake Sta 6330.8 on W side beam  
N 24° 10' 1/2" W Fig on E side @ 3701.5 W

bears N 46° 27' E Run  
North 38.25 to 3225.32 N

Heller @ 3225.32 N Flg on W side N 24° 37' W

Flg on E Side bears N 47° 05' E Run

✓ N 68° 30' E @ 675 to 800' water edge

1125 Hub on sand beach

Nov 11 25 BS-568'30'W

Flg on W  $N 53^{\circ} 16' 1/2'' W$ , Flg on N side brs

N 32° 57' W Flg on E Side N about 3

Rumi N 45° E 250 to 400 waler 4' 6

581.2 Hub 26.158 8 570.52

Nov 1958 1.2 BS-545 W 1000 1000

N 28° E @ 225 To 300 water 4' L 470.5  
855 28901 Run N 11° 33' E

$\pi_{over} \times 10.5$  B55 28" W Run N71 22'E  
 $\pi_{over} \times 10.5$  B55 28" W Run N71 22'E

347.27. ADD 3/01.3 W. A. EVER  
 5-5-10 3311 on MC 112.

$$45-546 \pm 1 \text{ Wm AG AG}$$

Mag. 36.30.8 on W side. 6000 N 86° 49' W

NSid: ~~At 440 06/6/10~~ S/470.5 paws

511'22" W OK. 10-30 To 11-30 on date

52° 18' W John W Curro



Brot From Page 124

Time Sheet continued

	SUN	23	24	25	26	27	28	29	30	SUN	1	2	3	4	19	20	21	27	28
1935 done											July								
John W Curo	0	1	-	3/4	1 1/4	1 1/4	1/2	-	0		1 1/2	1 1/2			1	1		3/4	mid
Car	0	80	-	20	10	13	20	-	0		-	9			1	1		1	
Expense	0	-	-	-	-	-	-	-	0		-	-			-	-		-	
John Ivers	0	7	-	3/4	1 1/4	1 1/4	1/2	-	0		-	-			1/2	1		3/4	
Babcock																			
Ted Thompson	0	-	-	-	-	1/4	-	-	0		-	1/4			-	1		1/2	
Walter Finstad (15)									0									-	

Board With Mrs Olof P. Finstad

John W Curo	0	-	-	-	-	-	-	-	0		-	-			0	-	-	0	
John Ivers Babcock	-	-	-	-	-	-	-	-	0		-	-			0	-	-	0	
Ted Thompson									0		-	-			0	-	-	0	
									0						0			0	

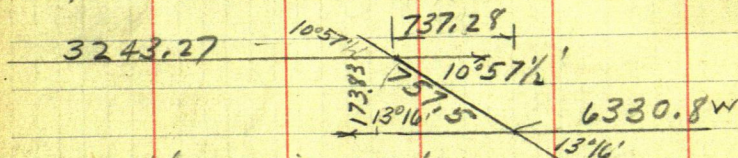


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## Finstad 14

June 27-1935 cont'd

P.M. Bob and I drive To Sch. Home Wk  
 From 1015.17 E ChE on E road 3-6-9-12-15-18  
 $1721.6 = 2736.77 \text{ E Spike 401 E Road}$   
 $18-2100 + 128.10 = 2228.1 \text{ E Set big 120 d spike}$   
 in School yard  $2228.10 + 1015.17 = 3243.27 \text{ E}$   
 TIES:  $3243.27 + 31105 = 3274.32 \text{ E a corner}$   
 "Cut in corner in 2 of 4x6" porch step 2.65" N 7  
 So edge and 1.25 S of Scho Home Don  
 TIES: To Big Spike: cross "+" in porch step  
 East 31105 ft. SW cor Main Bldg  
 N 63°30' E 23.70 PUMP 5 50°12' E 54.00  
 20P8" trees 3 Apart use E trees 15°15' W 55.8  
 Flag @ 6330.80 W Bears 10°57 1/2' R.



From Stake on N Side of Lake

Run S 60°53' W 666.8' S 25°26' W 455.4  
 S 55°55' W 507.7 Stake on W Side Agate Lake  
 6330.8 W Thunder storm  
 Drive to NE cor Sec 5-134-29

Lot stakes run SW

We stake out Finstad road East runner  
 5-30 and @ 51.45 Run Nail 4.75 S of 1/4 cor  
 BS N 86°49' W on Random Run  
 S 4°40' W 1309.6. Then S 33°45' W 446.7  
 S 29°05' W 1089.4. S 60° E @ 444 East  
 End Finstad Ho @ 455' End cen walk  
 @ 525 sea wall - West Shore Gull Lake  
 6.50 @ vit 15 miles 12 hrs

June 28-1935 Friday

Breakfast at 6- Figure 111 7- pool  
 Correct angles read is wrong flags on NW side  
 Agate Lake P 133. Rover NE cor Sec 5-134-29  
 BS W on true line 0°06' N of Random TIES viz  
 Oak 153 56°30' W 48.95  
 Boss 36°53' 4°15' W 55.4 Elm 15°12' W 16.8  
 Oak 125 87°30' E 26.75 turned from true line W  
 BS N 86°49' W on Random Run  
 S 3°45' W on Plat Stake Lines @ 89.2 Im. 330.3 Im  
 + 46.1 = 376.35 Im. 385. ground - 390 water  
 9-30 am Camp.



15

June 29-1935 Sat

work for Charles &amp; Allison

390  
 2850  
 790.04

S. 3° 46' W

S 2° 34' W

79.049.5 M

Random  
 N 88° 49' W  
 88° 49' W  
 Random



137

16

June 29-1935 Sat

Work for Chas C. Allin

June 30-1935 Sunday

All day on Frislad Plat at Jenkins  
No chg

July 1-1935 Monday

All day on Frislad Plat - work hard 12 Hrs

July 2-1935 Tues.

All AM in Jenkins Meet Rye and Baker  
H.W.O. Bernidge. I L Jenkins alone 1-30 PM

2-30 PM pick up Ted Thompson from

Nail 4.75 So of  $1/4$  cor N 81° 5'-134-29

BS N 86° 49' W Run S 2° 34' W on True

N-S C Sec 5. Hit brush. Run 2° R.

S 4° 34' W 1000 ft chd by Ted &amp; I

Tang 2' = .0349 @ 1000 ft ch E 34.9

and set flag in field for Ted to call  
by.







139

18

July 20-1935 Sat-

Babcock better - he and I with Ted Thompson, and our car drove so and run in so bet 7-8-134-29 set Huber

Set spikes along random @ 1639. South  
set 110 d spikes on line random on sea  
wall OAK 7N 13° 25' E 30.20  
JP 145 80 W 1.80

@ 1600 stake on line - 54 = 1546 Hub

MC No 58 bears N 82° 54' E 62.80

$$\sin 12360 \times 62.8 = 7.764$$
$$\cos 99.233^\circ \times 62.8 = 62.32$$

196N-58 US Notes Say NP16S 25°W 22 = 19.52

The stump of the old tower is still here in a pile of stone from which we set a  $2\frac{1}{4} \times 36$ " pipe in pile of stone for true MC

$\pi$  over MC. Ties viz

NP12S 30°W 49.70 SECOR 3700+ 570116

W. 09K 9 N 21°W 14.90 N 4°30'W 37.40

Big Pile stone S  $21^{\circ}$  E 17.5 to 4" poplar tree

Mkd GX - stands 8 ft S.W. of stone pile on Bench

Turned from Trueline North figured

POVER MC. BS 582° 54' W and run

N 2° W on True line Blaze trees 200 ft

N 2. W on 1  
Top of hill -

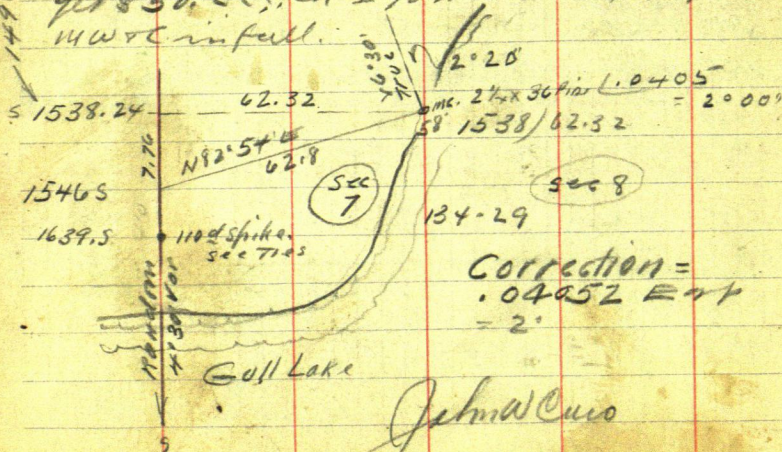
Top of hill -  
Nal. 3. In 9 m we dig - in PMS we take

Nat. 3. In the air above the  
 water. Thunder storm drives us

Malco Boat Thunderstorm cleared.  
" 30 pm. No supper Home @ 6-

in @ 4.30 pm. No supper Home @ 6-  
@ 11.00 a.m. ch. For 1/2 Broomed pay

91850. 448, 449





July 27-1935

Correction bet Sees 7-8-134-29

= .026725 Long <sup>N.S.</sup> 1320 X .026725 = 35.28 Lm

At 1355.28 S.  $\frac{1}{16}$  sec E 54.90 ( $\approx$  <sup>-2°20'</sup> .04052) E

Bob and I Lv Jenkins 11-15 AM - Ar

Finland 1200 noon 1200 noon pick up Wallis  
and his Boat (Walter K. Nord/locken 15)

1355.28 S Run E 54.90 set set 2x28"

Pipe flush with so side of slope on hill

B. Oak 6" NW 20.45 <sup>flat spot at base</sup>

" 8 NE 26.10 <sup>flat spot at base</sup>

At 1320 S Run E 53.49 set 2 1/2 x 28"

dry oak Hubs and kill Birch stake

Mhd True Line Line set by Jack Caw

1160 S goes E 47.00 - 900 S - E 36.47

776 S - E 31.40 650 S E 26.34

430 S - E 17.42

225 E 9.12 <sup>all set</sup> Hubs + Tallies

X over Cor 5-6-7-8-134-29

Focus Non Random True Line line

5°20' L<sup>OK</sup> From 3m see on Run North on

line line 25.9 to Hub on <sup>V 13°10'</sup> old E W Random

Focus Non line line True Line S Run 54°47' W

Run 71 25.9 Hub NW angle reads 87°05'







May 29-1936 continued

Ties to my 2x36" pipe on West bank  
of Gull Lake Bet Secs 5 and 8-  
134-29 viz

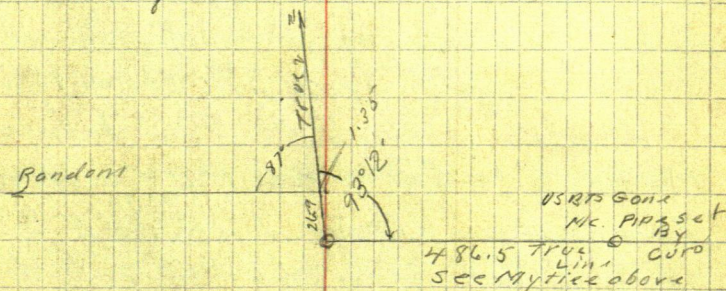
Twin Birches 7x7" grown together  
with 14 inch base

So about  $10^{\circ}E$  15.35 ft

Twin Oak 9x9-20" base bears

So about  $10^{\circ}W$  14.65 feet

Burr Oak 8" So about  $80^{\circ}W$   
23.80 ft Plumb-bob Chain



Note: Some weeks ago Reed and I  
with Junior Babcock run this 486.5  
foot line but I mislaid the nails.  
Bogart and I re-chain it to-day.

We re-locate old E-W cotout line.  
Cross-tie line 26.9 N of Sec. 8

$\pi$  over  $\pi$  P. NW angle of line & Random  
reads  $87^{\circ}$  Ch Weston reads @ 1.35 Habi  
under  $\pi$  300-335?



Mike Hamerger Cross Lake  
143 April 10-1963

John - Bob + I to Cross Lake  
stop at Hamerger's see Mrs  
Hamerger tell her we are starting  
the work for Mike

Drive to S  $\frac{1}{4}$  bet Sec. 17 + 18  
have to check chain from sec  
cor North to locate I M  $\frac{1}{4}$

Turn S  $\frac{1}{4}$  opening line South  
to US cement Mon so we brought  
the wrong field Book with us  
Book has information we  
need in it. from S  $\frac{1}{4}$  Rk spk 125' N

Turn over I M S  $\frac{1}{4}$  bet Sec  
17-18 site South on US Cem. Mon  
Sec. Cor and run N  $44^{\circ}30'E$  370.3  
spike in shoulder of road Sta 1

Turn Sta 1 run N  $59^{\circ}00'E$  1425.25  
to Sta 2.

Turn Sta 2 BS S  $59^{\circ}00'W$  run  
N  $38^{\circ}00'E$  530.35 to Sta 3

Turn Sta 3 BS S  $38^{\circ}00'W$  run S  $1^{\circ}00'W$   
368.50 to Sta 4

Turn Sta 4 - spike at S end of Bridge  
in E beam N  $25^{\circ}07'E$  257.9  
spike at N end beam N  $25^{\circ}08'E$  428.0



259.9  
2

2198  
~~428~~  
647

144

from Sta 4 run N  $25^{\circ}08'E$  440.8 to Sta 5

Town Sta 5 BS S  $25^{\circ}08'W$  and run S  $87^{\circ}14'W$  267.5 - A

T still at Sta 5 run N  $43^{\circ}29'W$  126.6 to B

" " " " " N  $35^{\circ}30'W$  244.7 C

" " " " " N  $28^{\circ}21'E$  146.55 D

Town A take stads of Pine River BS N  $87^{\circ}14'E$   
from end of Bridge

245 S  $42^{\circ}45'E$  - 205 S  $44^{\circ}30'E$

165 S  $52^{\circ}22'E$  - 77 S  $28^{\circ}20'E$

48 S  $9^{\circ}00'W$  48 N  $83^{\circ}15'W$

65 N  $19^{\circ}30'W$  110 N  $9^{\circ}20'E$

180 N N  $7^{\circ}10'E$  (130 N  $14^{\circ}46'E$  to IM<sup>out</sup> by M<sup>to</sup>)

Town B BS S  $43^{\circ}29'E$

Cor of house bears N  $59^{\circ}44'W$  42.25

" " " " N  $67^{\circ}W$  79.6

Town C BS S  $35^{\circ}30'E$  Stads of Shore line

74 N  $89^{\circ}50'W$  18 N  $78^{\circ}37'W$  35 N  $78^{\circ}06'E$

90 N  $87^{\circ}45'E$



145

259.9

4

Turn DBSS 28°21'W take start  
of Shore line. Push Lake  
46' N 34°46'W - 44' S 69°08'E  
80' S 51°13'E - 120 S 53°37'E  
226 S 64°37'E

Turn back over Sta 5 BS S 25°08'W  
Take side of E road.

92' S 27°53'W - 58 S 24°40'W  
20 S 17°32'W - 38 S 77°30'E  
75 S 84°26'E - 105 S 83°30'E  
138 S 81°20'E 178 S - 80°E  
215 S 78°47'E 250 S 77°49'E  
run S 81°E 255.9 to Sta 6

Turn Sta 6 BS N 81°E continue  
E old road.

25' S 33°E - 60° S 52°16'E  
107 S 56°14'E 155 S 57°27'E  
210 S 59°25'E 260 S 62°45'E  
295 S 69°53'E

Take Sta 6 Take side of Shore line  
85' N 69°E - 140 N 79°18'E 300 N 78°44'E  
410 N 75°36'E



A still at No 6 run

N  $80^{\circ}00'$  E 349.3 at 40' spike

This spike goes E 92.10 to line  
then S  $1^{\circ}40'$  E along N & S  $\frac{1}{2}$   
to Cross Lake and N  $1^{\circ}40'$  W  
to Rush lake



147

April 16<sup>th</sup> / 1964

Bob + I to Cross Lake stop at  
Walker to see Art Peterson at  
Hackensack Leave bill with  
Vincent at Bolls for dinner  
\$2.00 into Cross Lake

Tower I M S 1/2 bet runs 17-18  
137-27 Site South on flag at

Run Cor Vir at 00 + run

N 5° 30' E 370.6 to Don's shoulder  
of new Tar road

Tower Sta ① B S S 5° 30' W run  
along said S shoulder of new Tar  
road. N 58° 30' E 1462.0 Sta ②

Tower Sta ② B S S 58° 30' W run  
N 34° 39' E 592.5 to Sta ③

Tower Sta ③ B S S 34° 39' W run  
N 11° 30' W 214.75 Sta ④

Tower Sta ④ B S S 11° 30' E splits  
over Pine River bears N 25° 00' E

640.8 Sta ⑤ use old measurement  
no bridge is gone

Tower Sta. 5 B S S 25° W Sta A bears  
S 87° 06' W 267.5 = Sta A

N 43° 38' W 166.6 " B

N 35° 38' W 244.7 " C

N 28° 12' E 146.55 " D



148



$N 5^{\circ} 30' E \ 370.6 = sta 1$

$$\cos \alpha = 99540 \times 370,6 = 368,90 \text{ N}$$

$$\sin 485264 \times 1462 = 1246.56 E$$

$$\cos 52.50^\circ \times 1462 = 763.90 \text{ N}$$



N 34° 39' E 592.5

Sine 56856 X 592.5 = 336.87 E

Cosine 82264 X 592.5 = 487.41 N

N 11° 30' W 214.75

Sine 19937 X 214.75 = 42.81 W

Cosine 97992 X 214.75 = 210.44 N

N 25° 00' E 640.8

Sine 42262 X 640.8 = 270.81 E

Cosine 90631 X 640.8 = 580.76 N

	North	East	West
Sta 0	1321.50		
Sta 1	368.90	35.52	
Sta 2	763.90	1246.56	
Sta 3	487.41	336.87	
" 4	210.44		42.81
" 5	580.76	270.81	
	<hr/> 3732.91	1889.76	42.81
	3732.56	42.81	
Sta 5 is	<hr/> 3732.91	1846.95 E	
	56		



April 17-1964

Bob &amp; I to Cross Lake

Tower spike in & old tar run  $S 25^{\circ} W$   
 to pt in & old road on river  
 bank set  $1\frac{1}{2} \times 60"$  pipe in & on river  
 bank chain Northwly ~~and~~ along river  
 100 ft set pt from T said pt bears  
 $N 32^{\circ} 39' W$  Tower said pt BSS  $32^{\circ} 39' E$   
 $1\frac{1}{2} \times 60"$  pipe in & old road bears  
 $S 24^{\circ} 41' E$  100 ft water 10' from pt  
 at 50'  $S 24^{\circ} 41' E$  " 10 ft @ 75 water 15  
 ft.

Tower said cor to lot 1-2 BSS  $24^{\circ} 41' E$   
 run  $N 69^{\circ} 11' W$  100 ft bet lots 2-3  
 Water 8' along this line

Tower 2-3 BSS  $69^{\circ} 11' E$  run  $N 52^{\circ} 49' W$   
 100' @ 50 water 15 ft.



151

139.4

Gladić  
owners Richard & Eaton  
& Gladys E. Eaton  
of South Laguna Calif  
address  
315711-Table Rock  
Terrace

Call of Gov't let 3 Dec. 17  
Twp 137 Rge 27 Except  
portion lying East of Highway No 8

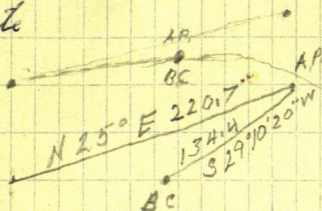


June 12<sup>th</sup> 1964

150.1 80  
144.1 69  
73'

152

Bob & I to Cross Lake Hammegrens  
Four IM on bank of Pine River in &  
old road E side of ~~Hot~~ Bridge site  
is gone. T over A.P. spike site S 25°00'W  
on spike over river and replace pt for  
IM on river bank end of old Bridge  
site



T over A.P. runs S 25°00'W 220.7 set pt for IM  
on N bank Pine River

Totall at A.P. P.C. of & bears. S 29°10'20"W

T over P.C. IM on N Bank Pine river

bears S 22°17'W 134.4 ft this is along & road  
set several spikes N 22°17'E for PI

We run from P.C. N 22°17'E 44.8 spike

Lot cor & Street.

T over 44.8 BS S 22.17 W + turn N 25°30'W

40-80-120-160

T over 40 site N 25°30'W stake on shore bears  
S 39°40'W 144.1

T over 80 site N 25°30'W stake on shore bears  
S 56°34'W 201.8



153

~~2500~~

169.7

70.05  
6

Tower 120 BSS  $S 25^{\circ} 30' E$  run  
 $S 69^{\circ} 20' W$  246.5

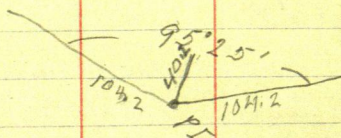
Tower 160 BSS  $S 25^{\circ} 30' E$  run  $S 77^{\circ} 44' 20'' W$   
 168.7

$\pi$  still at 160 run  $N 77^{\circ} 44' 20'' E$   
 angle  $76^{\circ} 46'$  - SE angle  
 $76^{\circ} 46' - 13^{\circ} 14'$

Sine 97345 into 30 = 30.82

Cosine 22892 x 3082 7.06

Tower 30.82 try to site  $S 25^{\circ} 30' E$  along  
 street hit big tree S site  $S 77^{\circ} 44' 20'' W$   
 along lot line - Lot cor bears  $N 15^{\circ} 12' E 84.05$



$\frac{1}{2}$  of  $95^{\circ} 25' = 47^{\circ} 27\frac{1}{2}'$

Sine 736785 into 15 = 20.36

Cosine

47° 27'

Sine 67623

Cosine 73669

47° 28'

Sine 67602

Cosine 73688

73669

73688

2/147357

736785



4 - 90°R

159.7

154

From NW cor lot 1 turn 90° run N 30' to pt on N side of street

Tower pt on N side of street BS N 25° 30' E  
4 run S 25° 30' W 16.9 S cor Lot 6

Tower 16.9 BS N 25° 30' W run N 72° 50' E

8.75 ft to lot cor Tower Lot cor on road

Chain N 88° 41' E 100' Lot line bet lots 7-8

6+7 runs N 17° 43' E 153.7

June 16<sup>th</sup> 1964

Bob & I to Cross Lake (Mike's)

Tower Lot cor bet 6-7 BS N 88° 41' E  
We change this to make Lot 7 - 85 ft  
along road. fr

Tower cor to 6-7 run N 86° 34' E 85' 10

Tower 85 BS S 86° 34' W line

bet lots 7+8 runs N 29° 45' E 74.6

Still at cor bet 7-8 runs S 74° 19' E  
100 ft

Tower 100 BS N 74° 19' W Lot line bet 8-9  
runs N 23° 16' E 65.0

Still at 100 run S 72° 58' E 80 ft

Tower 80 BS N 72° 58' W Lot line bet 8-9  
runs N 22° 20' 20" E 73.1      2 road S 22° 20' W



155 June 17<sup>th</sup> 1964 137-27

Figuring

sect 17

Page 149 This book says Sta 5 is  
1846.95 ft E and 3732.56 ft N from  
SW cor sec 17

NW cor lot 6 being W  $\frac{1}{4}$  Center of W  $\frac{1}{2}$  sec 17  
is 1288.99 ft E and 2636.31 N

Sta 5 1846.95' E & 3732.56 N

- 1288.99

- 2637.31

Sta 5 is 557.96 E & 1095.25 N of NW cor

Gov't lot 6

Note: the East line of Gov't lot 6 for E  $\frac{1}{4}$  Center  
NE  $\frac{1}{4}$  is 2630.31 N & 2577.96 E of SW cor sec 17

See page 148 This Book or page 63 Book 296

Sta 5 is 557.96' E & 1095.25 ft N of NW cor lot 6

run S 25° 00' W 220.7 IM on river bank

= Lot road =

557.96 E 1095.25 N

S 25° 00' W 220.7

Sin =  $42262 \times 220.7 = 93.27 W$

Cosine =  $90631 \times 220.7 = 200.02 S$

93.27 200.02  
464.69 895.23 N

IM on & read on river Bank is 464.69 ft E  
and 895.23 ft N of NW cor Gov't Lot 6 Sec 17  
from IM run N 22° 17' E



June 20<sup>th</sup> 1964

Bob + I to Cross Lake

Tower IM on shore of Rush Lake bet  
lots 5-6 site S 15° 12' W on street cor  
run along shore S 60° 41' E 100' W 10

Tower 100 BS N 60° 41' W run

S 45° 42' E 100 @ 50. W - 20. L @ 100 W 10

Tower 100 BS N 45° 42' W run

S 56° 12' E 50' W 5 run S 76° 51' E 50 W 5

Tower 50 BS N 76° 51' W run S 79° 09' E 80  
W 5Tower pt bet. 8-9. site S 79° 09' E  
on N 76° 51' W on pt bet lots 7-8 -  
runTower 80 on back line lot 9 BS  
N 72° 58' W run S 72° 58' E 20 ft to  
pt 100 ft. Tower 100 BS N 72° 58' W  
run S 62° 14' E 100Tetill at 100 run N 22° 20' E 70.2 -  
4 = 66.2

Tower 66.2 site S 22° 20' W run

S 39° 17' E 40' Tower 40 BS N 39° 17' W  
run S 83° 21' E 60'Tower 60 BS N 83° 21' W Tot Cor beam  
S 17° 16' W 80.2 - 7 = 73.20



$$\begin{array}{r} 60 \\ 296 \\ \hline 896 \\ 15 \\ \hline 7416 \end{array}$$