

2 4 3

DIETZGEN
TRADE MARK

ENGINEERS
FIELD BOOK

No. 403

No 243

R.D. Ziegler: 1 To 29
Lot 6. Sec 2-137-27-May 1939,

Jacob Woodley-Riley Ford
Sec 5-140-27 P930 To

Paul Sands. Breeze Way Resort

Sec 24-141-28 -

130- and

978
21938

Note:

This book belongs to
John W. Cur County Surveyor
Cass Co. Walker Minn

If lost, finder please
return to owner for reward

John W. Cur
Walker Minn
May 8-1939

2

Index

Ziegler Lot 6 Sec 2-137-27 Pg 4 to

Maps Pg 11

Books to Look up-

Harry Gould Bk (154 Pg 57)

Plats Pg 3-11-

US Notes Pg 18 For 137-27

Time Sheet Page 17-

US Notes For 140-27 Pg 32-35-

Any Township

A	B	C	D	E	F	G	H
	6	5	4	3	2	1	H
Y	7	8	9	10	11	12	I
X	18	17	16	15	14	13	K
W	19	20	21	22	23	24	L
V	30	29	28	27	26	25	M
U	31	32	33	34	35	36	N
T	S	R	Q	P	O		

4

Crow Wing Co.

Ziegler

May 8-1939

Working For R. D. Ziegler

207 NY Life Bldg St Paul

"Don Ziegler"

Owns Lot Sec 2-137-27

= 21.86 acres US Survey

Got from J. J. Hennen

Bal due \$100?

May start a resort no road

Crow Wing Co.

Lake-See 2
137-27

5

May 8-1939

Harald and I Lv Jenkins
9 AM. At 9:30 To meet on So
side Pine Lake - Ziegler and his
Hudson Coops arrives with
Otto Palmer @ 9:40

Find my old I.M. in mound
of dirt True $\frac{1}{4}$ Cor bet 10-11
137-27 See Old Field Book

The iron is bent - Don helps
dig - no shovel. we straighten
I.M. Hae π over $\frac{1}{4}$ I.M.

Sight North over lake to
clump of trees

Don and I in his car
drive East - North West
and South 7 miles around
while Harald and Otto stay
at Transit

I set flag over lake
Harald placed red flag @ $\frac{1}{4}$
then with his car brings
 π and Otto

π on point over lake

6

Ziegler

Crow Wing Co

π on Hub R.R. spike on north
bank of Pine Lake Focier
South on red flag @ $\frac{1}{4}$ Cor
over lake var reads 5°

O.O. Hub under π on
Ridge 8 ft above water and
4 ft from Brink

All Hubs are R.R. Spikes
Hub O.O. under Transit Lake
Ties viz

JP8 N $38^\circ 40'$ E 49.75

BOak 7 N $70^\circ 50'$ W 16.70

To flat spot at base 45°

Chain South 20.4 16

Flag on Sand Beach

Bank runs E-W Flag 20.4
is 2 ft N of water

From O.O. on lip BS Ss
on flag @ $\frac{1}{4}$ over lake & run
North on random bet

Acres 2-3-137-28

@ 222.8 Hub on Hill

Scrub J.P. 11" S $17^\circ 55'$ W 24.00

NP 14 S 65° W 18.25

Lat 6-2-137-27

7

May 8-1939 Continued

North on random belt 2-3-137-27

$$222.8 + 300 = 522.8 + 51.10 =$$

$$573.9 \text{ Hub } 822.8 \text{ pin} + 123.3 \\ = 946.1 \text{ Hub under Transit OK}$$

Otto Palmer + 5 or 50 of
Mound Mine helps me
chain - Harold and Don
cut line

Bill Bucholtz arrives
to fix his fence and goes
with us as we all quit
for dinner

All eat dinner with
Don Ziegler and his young
wife & Baby Harold & I
eat only a part of our lunch
P.M.

Bill Bucholtz goes with us to
help a little

946.1

JP 10 N 26°40'E 75.55

JP 11 N 50°15'W 12.65

to spot at base U 5°30'

8

Crow Wing Co.

May 8-1939 cont'd

Ziegler

N. bet 2-3-137-27 PM

$946.1 + 275 = 1221.1$ oak stake
 not on line Our line cliffs
 off east end of wet marsh
 Bill Bucheli and his long
 rubber boats helps me chain
 300 ft over bog

1221.1 end of marsh $580^{\circ}W -$
 $\sim 80^{\circ}E + 300 = 1521.1$ oak stake
 not on line in west edge of
 Second marsh

@ 1360 N L marsh - Bags $30^{\circ}E$
 runs $1/2$ mile West

Another marsh NE
 $+175 = 1450$

1570 bog runs NE

$1521.1 + 175.1 = 1696.2$

Hub under Transit

JP 7N $54^{\circ}54'W$ 27.80

JP 8 $56^{\circ}E$ 6.72 To spot at bore
 $+300 = 1996.2$ fin + $116.0 =$
 2112.2 Hub

JP 8N $36^{\circ}W$ 5.50

JP 9 S $18^{\circ}W$ 6.18

To spot at bore

Lat 6 Ziegler
2-137-27

9

2112.2 Bill Bucholtz quits
about 4 PM

Robert Donald Ziegler
called 'Don'

4-30 Don goes after water

$$2112.2 + 300 = 2412.2 \text{ pin} + 300 \\ = 2712.2 \text{ pin} - 171.3 = 2540.9$$

& West Hay 10" green sp sp
on line $2712.2 + 111.5 =$

2823.7 Hat Quit for mile
5-35 PM.

Don owes me \$15 plus \$2 for
Harald = \$17.00 He pays me
\$15. Cash Bal \$2.

Nali: He cannot afford to
go on with the survey

I tell him it will cost
\$75 to get his lines - and I
may make the survey and
he can pay me later

We eat cake with Don & wife
and Li Lali for Jenkins

John W. Curo

10

Ziegler

Crown Wing Co.

May 19-1939-

Ziegler writes from St Paul
Unsatisfied with delay

May 22-1939

I receive his letter

May 23-1939

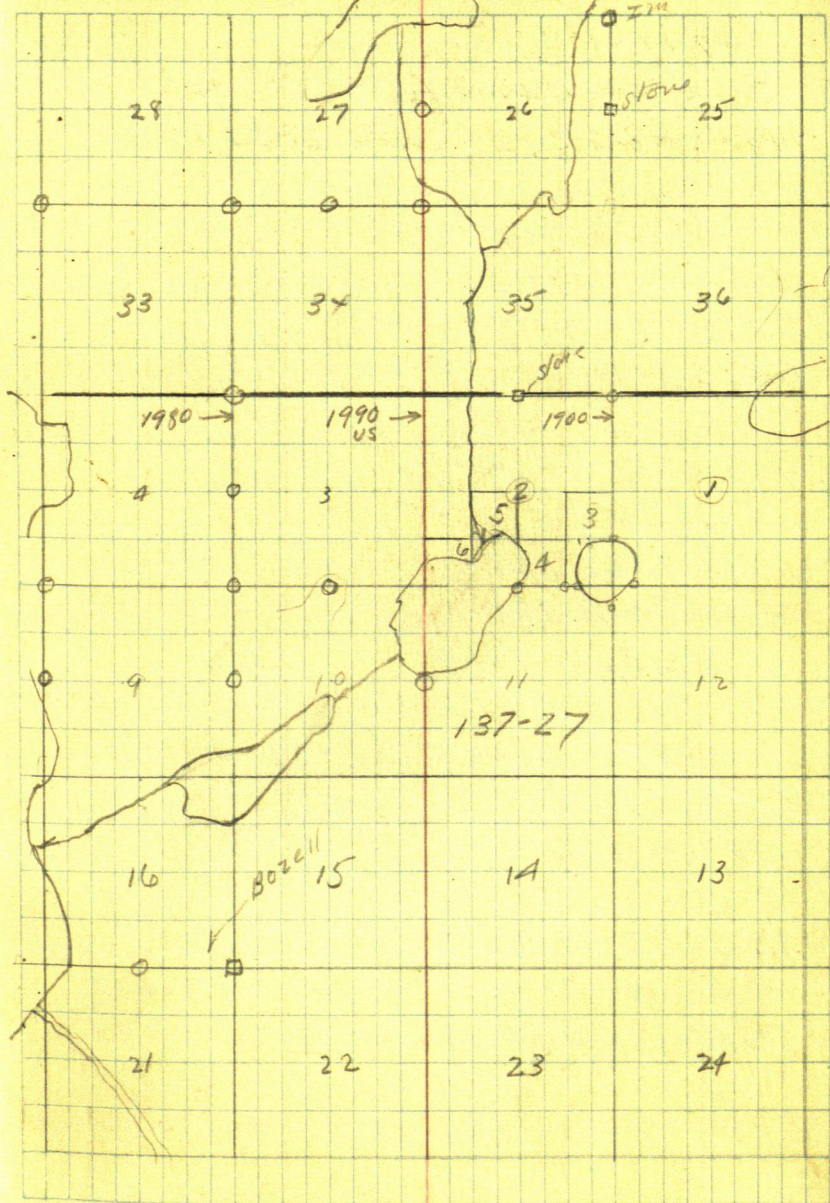
Copy notes

138-27

E
Fox

Eagle
V

11



Crow Wing Co

12 TOWN Line US Nales

137-138^N Rg 27-W

Page 102 Book A.

Weston True Line 2-35' 8° 59'
40 Set 1/4

JP 4 N 70 W 13 = 8.58

" 8 S 72 E 54 = 35.64

5775 (= 3811.50 FT)

Daggett Brook 70 Lks Wide Runs SW

80 Cor 2-3-34-35

WP 4 N 2 W 34 =

YP 14 N 70 E 127 =

" 14 S 81 E 173

" 15 S 53 W 149

West True Line Bet 3-34. ✓ 8° 59'

40 S Set 1/4 Cor

WP 20 N 29 E 16

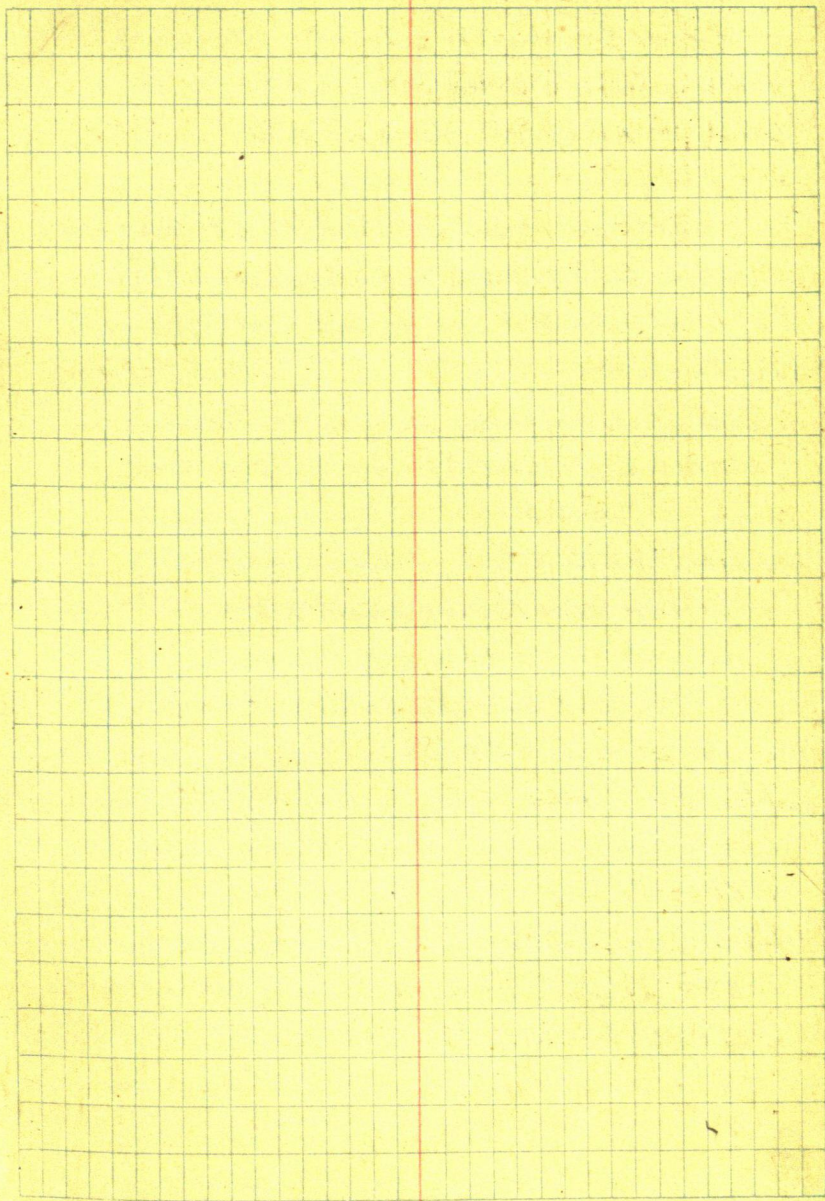
Bl Oak 8 S 7 E 16

80 Cor 3-4-33-34 ←

OK Set By Curo Ben Christian
Survey Book 156-158

ziegler

13



Crown Wing Co

14.

May 23-1939

Harold Curren and I at 9-40 AM.

LV Jenkins See Small Memo Bk 1.

Call on Roland Boggie AM

PM

We call on Bill Stowe pg 70 Memo 1.

Call on Al Duban who refuses to pay
\$9 half the cost as one day as witness
Field Book.

Call on Mrs May Delaney: Her bill
is Plat \$35- one day as witness - her
share \$9 Total \$44 She gives me a
check \$9. Bal \$35 Field Book

Mr Ziegler is not at his
new cabin - I LV a note

Harold and I with chain
only walk to Hut 2823.7 N pg 9 ch
North - Rough ch in brush - Keeping
course @ 90° to the turn may cross
 $+300 = 3123.7 - 3423.7 - 3723.7 - 4023.7$
Keel marks on ground $+260.3 =$
 $+284$ intersect my old E-W π
line @ 125 W from CCC Stake MKD 4950
 $= 5075 W$ - chain W 205 π 5280 W
Find $2 \times 2 \times 72$ " stake where 'See Cor'
Rough ch Home @ 6-50 PM Call as hell at
Jenkins John W Curre

Ziegler

15

June 10-1939 Sat

Rain all day PM. Don Ziegler
came in AM while Harold and
I were in Wisconsin - Returns
again in P.M. I give him
copy of my hubs as on page 6-7

Olto Palmer is with him and
they will go back and cut line
N to town line I will come over
in a few day and try to find out if
he is safe on his land

See Ritchie and his wife Lelli
with Noah call on Martha - Harold
and I at Jenkins

See Small Memo book N^o 2

6 PM Still raining Cloudy - dark

16

Crow Wing Co

Time Sheet Working For R D Ziegler

1939

May

8 June

John W Guro

1

Car

1

Expense

-

R D. Ziegler

1

Ziegler Car

1

Otto Palmer

1

Bill Buchite ?

18

US Notes 137-27

June 10-1939

Page 318 My Book A.

North bet Secs 10-11 $\sqrt{10\frac{1}{2}^{\circ}E}$ 8.00 LV Marsh $NE\ SW$ 40.00 Set $\frac{1}{4}$ CorScrub Pine 9N $20\frac{1}{2}^{\circ}W$ 72 =Scrub pine 12N $63\frac{1}{4}^{\circ}E$ 71

4124 Set M Port on S. shore of lake

Scrub Pine 108 $57^{\circ}W$ 32 =WP 20S $57\frac{1}{2}^{\circ}E$ 54

Measured on ice

80.00 pt for Cor to

2-3-10-11

East Random Bet Secs 2-11 $\sqrt{10\frac{1}{2}^{\circ}E}$
on ice

4075 Set M Port on E side

7000 Temp M Con W. Side of lake

7962 Intersect $N-S$ line 95L

80 of ft for cor 1-2-11-12

on ice from which Iron

Work on True Line $U 11^{\circ} 11'E$

962 Set M Port on W Side of lake

WP 12N $69\frac{1}{2}^{\circ}W$ 44 =.. 12S $67^{\circ}W$ 113.

3887 Set M post on E Side of lake
WP 24 S 14 W 24

" 14 N 86 E 113

7962 Cor For Sect 2-3-10-11
North bet 2-3-10 1/2 E

The point for Cor to Sect
2-3-10-11 on ice I begin
at said point and measure
on ice

8.73 Set Temp M. post on N Side
4000. Set Temp. 1/4 post

7990 Intersect N Body of
Temp at the Cor. for
Sect 2-3 From which Cor
I run

South on line line bet 2-3-10 1/2 E

3990 Set 1/4 Cor

WP 18 West 4

" 15 S 70° E 65

7017 Set M post on N Side of Lake
Scrub pine 10 N 25 E 50

" " 5 N 6° W 15

7990 Cor to 2-3-10-11

20

US Notes

Crow Wing Cor

137-27

East random bet 3-10 $N10^{\circ}E$

3800 Swamp $N-S$

4000 Temp $1/4$

4200 LV Swamp $NWSE$

7669 Temp MC on W Side of lake

8005 indirect $N-S$ line

on ice 10 LKS So of the Cor

1/2 Sec 2-3-10-11

West on line line bet 3-10 $N10^{\circ}4'$

336 Set M Post on W side

WP14 S $44\frac{1}{2}^{\circ}W$ 43

Qah 5 N $76\frac{1}{2}W$ 34

4000 Set $1/4$ Post

Tam 8 $N10^{\circ}E$ 15

Spruce 8 S $15^{\circ}W$ 6

8005 Cor 15 3-4-9-10

137-27

Town Line Pg 162 Bk A. 21

North Boundary 137-27

✓ 855

West on True line Bet 2-35

4000 Set $\frac{1}{4}$ Cor OK Stone by

JPH N 70° W 13 Garrison

" 8 S 72 E 54. P 957 Bk 154

5775 Daggett Brook

70 Lks wide RUNS SW

8000 Cor 2-3-34-35

WPH N 2° W 34

YPI 4 N 70 E 127

" 14 S 81 E 173

" 15 S 53 W 149

Weston True line Bet 3-34 ✓ 859E

4000 Set $\frac{1}{4}$ Cor

WP 20 N 29 E 16

Blk Oak 8 S 7 E 16

8000 Cor 16 3-4-33-34

OK Curo + Ben Christian

established this

Book

Page

June 19-1939 Sunday

11-AM. Harald, Martha and I drive
to $\frac{1}{4}$ Cor Bt 10-11-137-27

Buff and Berger π over pt for $\frac{1}{4}$
IM - (bent East) FOCUS North
on "Flag 20.4 on sand" Page 6 -
and on Flag @ 0.0 - also Page 6

Run over base 90' East @ 200
and 300 set RR spike Hub

Then another base 2'30"E =
N 87°30'E 447 Hub RR spike So of
So wheel track of old road
1st π over 300 BS West on $\frac{1}{4}$

Flag 20.4 over lake bears N 5°6½'W (5°07'
NW Angle reads 84°52½'
One minute off

Second reading Harald keeps notes
 π still @ 300 BS on $\frac{1}{4}$ West
Flag on sand 20.4 bears N 5°07'W
Flag on top of bank at 0.0 or 6 bears
N 5°05'W

Ziegler

23

Newton

Assumed North

115.64 m

135.58

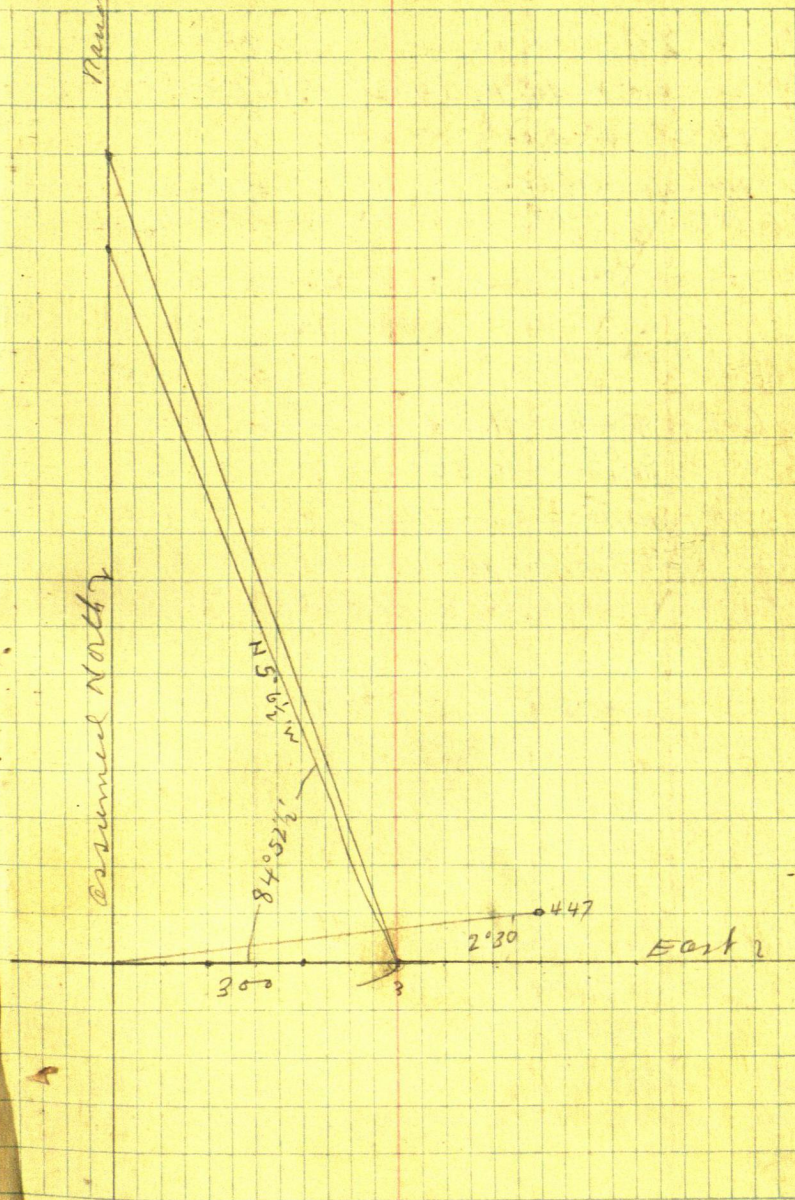
300

3

2°30

447

East 2



Crow Wing Co.

24

π over 447. BS on '1x' Flag over

Lake 20.4' on sand bears N 84° 52' R

Flag 0.0. on top p 96 - bears 84° 55' R

N 5° 05' W and 5° 07' W

1117.1

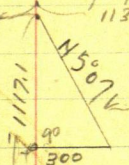
We will figure

20.4

20.

1137.5

1137.5



Cot

5° =

11.43

5° 05' =

11.245

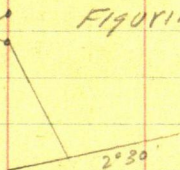
5° 10' =

11.06

5° 07' = 11171 To hub 20.40 on sand

20.4

Figuring



Ziegler

25

N87°30'E (2°30')

Sine 0436x447 = 19.49 Feet

CR 99905x447 = 446.58 OK

26

Crow Wing Cor.

0.0 196

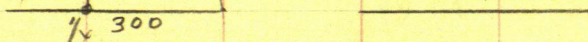
$N 5^{\circ} 07' W$

$\cot = 11171 \times 3 =$

3351.3 F

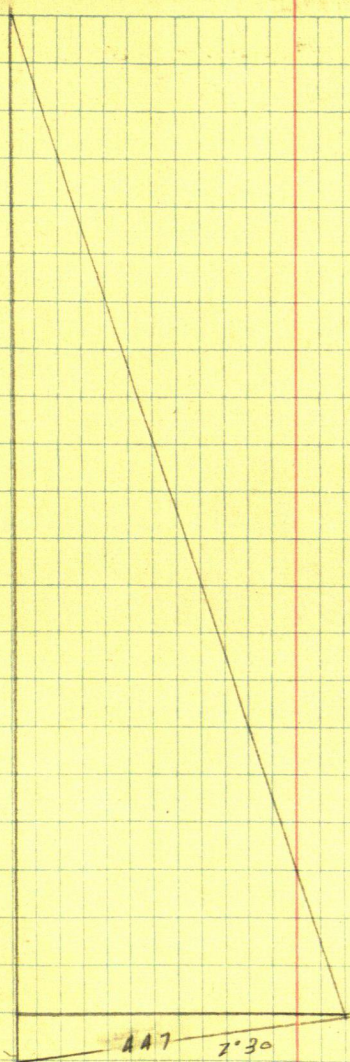
$N 60.9' N$

1/4 300



R. D. Ziegler

27

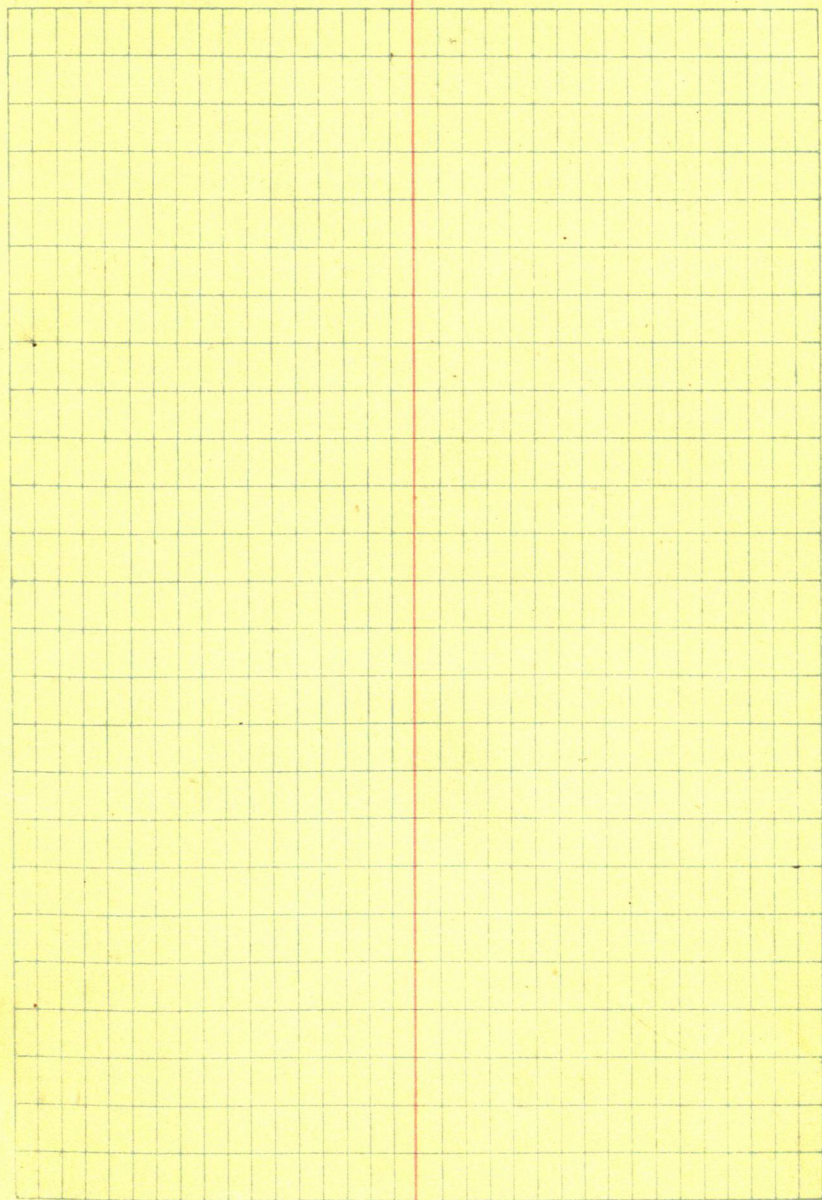


28

Crow Wing Co.

Ziegler

29



30

①

Cass Co

May 18-1942

Jacob Woodley-Riley Ford

Sec 5-140-27

Index

Jake
May 18-1942

2 Woodley
and
Ford

31

Mr and Mrs Woodley call at
Ct Ho-Walker I tell them I
will come tomorrow or next
day @ \$10 a day and expense

5F162 Remm

May 19-1942.

All day in Walker on mail

May 20-1942

All day in Ct Ho

Lv Walker @ 5-P.M via 34
Ar 6-PM Supper and overnile
with Woodley. Store + Gas Sta
NE COR Sec 5-140-27

Evening copy notes

32

3

Cass Co

US Notes 140-27

4-5-8-9-

Birch 8°N 59°10'W 39 LKs =

Aspen 8 S 81°40'W 30 " =

Maple 6 S 73°20' E 50 " = 33.00 Ft

Aspen 7 N 30°15' E 76 " =

H to Y @ 5 = 1/4 Cor Bet 5 and 8

Pop 9 N 25 E 12

Pop 10 S 45 W 12

6

R to C @ 5 = 1/4 bet 4-5

NP 8 S 86°30' E 25 = 16.50

NP 8 S 17°15' W 50 = 33.00

✓ MC No 22 - Bet 5-8 - E Side Inguadonna

Elm 12 S 49°30' E 12 = 7.92

Cedar 6 N 5° E 15 = 9.90

MC 23 Bet 5-6 - W side Ingu. Lake

Br Oak 12 S 53°20' W 31 =

Bass wd 6 N 47°29' E 27 =

MC 26 - on 10th Pt. W. side Lake

Elm 7 N 70° W W

5-140-27

4

Jake Woolley

33

2.22 = 146.52 US

1209.12 US

1832

280 =
184.8 US

1851

1221.66 US

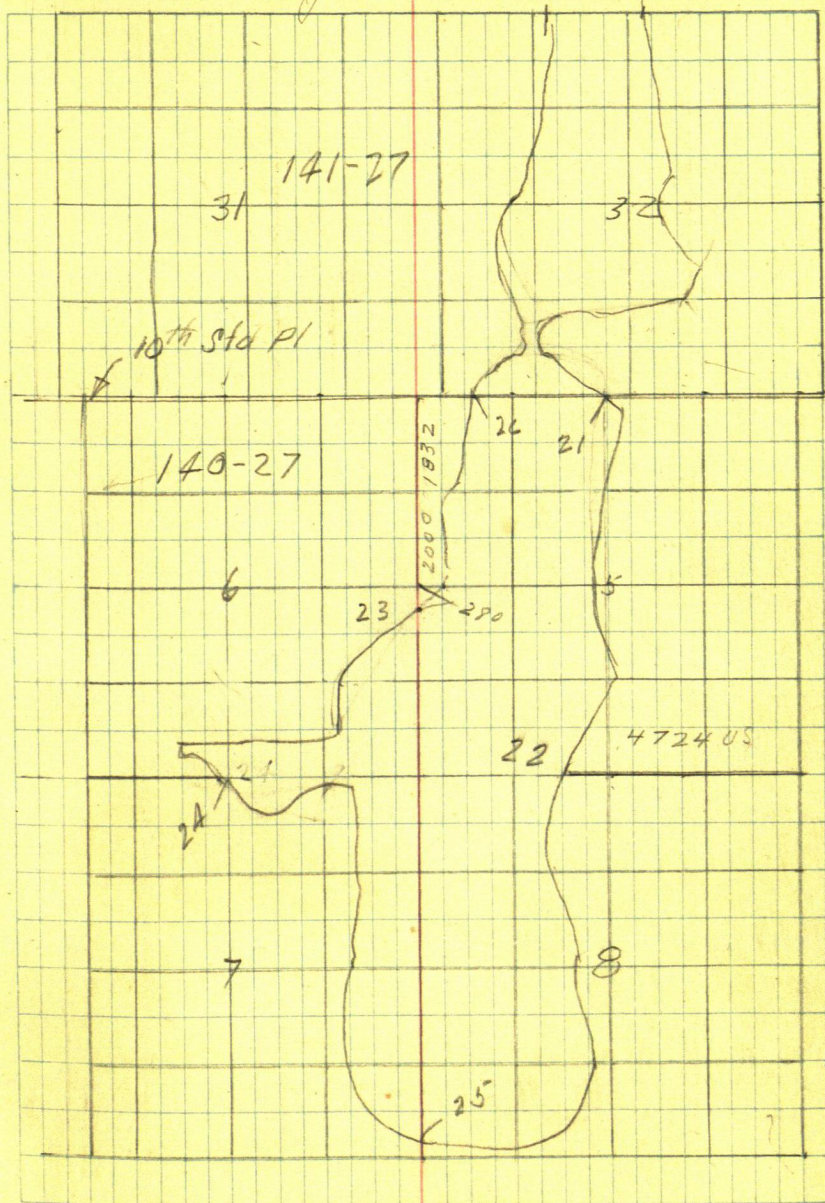
34

5

Coso Co.

Jan 6 Woodley

35-



36

7

Caso Co.

Boarding with Woodley

1942 May

2021 2223 504 25 26

John W. Curo

08080-080808
SLSL--SLSLSL

Time Sheet Working For Jake Woodley - Riley Ford

and others

May 1942

John W. CURO Tch

Car

Exp

Jacob Woodley

Car

Riley Ford

Car

Glenwood O. Lovegreen

Floyd Carpenter 20' Single

Harold Carpenter 18" Long. VMC PO.

Louie Bondemer

Bill Lang

18 19 20 21 22 23 24 25 26

8 8 8 8 8 8 8 8 8

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840 pm

6 @ 810. 60

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

5.65

38

(9) 140-27

May 21-1942

Up at Breakfast at 8-

Glenwood O. Louegreen corner
walking in with his axe.

8-30 Jake Woodley - Glen and I
in my car drive So

4-5-8-9- 140-27

See US Naler - Page 32.

We find this corner previously
established and recognized by
all in this neighborhood

OK.

Jake & Walker straight to it - hits
it with his axe. Well known
I m See cor from which good
graded-main line runs

North and East

also lower graded road So
a cut out line runs west

We find the iron to be a rifle

barrel - Road grader bent the top

We dig down - remove the dirt
so as to preserve the true pt

continued Pg 40

Jahr

10

Woodley

39

40

11.

4-5-8-9-140-27 Continued

Straighten and put back

Corner is $1\frac{1}{4}$ ft West of E N S.Road and in line with E road
E and S.Buff Transit over Iron
Focus $3\frac{1}{4}$ mile N. E road on hill
Focus on E of Top of green tree
more than a mile north chain.North on E road 300 ft Chi
Steel tape and plumb-bobLake and Glen ahead I am
near Chamblin
Perfect-accurate - Ch

4-5-8-9-140-27

Focus N on E road

New BTS

NP15 N $53^{\circ}00'E$ 77.65NP16 N $55^{\circ}50'W$ 50.61NP17 S $51^{\circ}35'W$ 93.21NP12 S $50^{\circ}00'E$ 101.80

All 16 flat spot at base

 $3\frac{1}{4}$ mile E road N $89^{\circ}37'E$ $3\frac{1}{4}$ mileRoad So - S $0^{\circ}25'E$ $3\frac{1}{4}$ mile.Road North $3\frac{1}{4}$ mile

North bat Secs 4-5

@ 3-6-9-12-5^{min} St RR Spike Not on line

Level land 12.00 RR spike not on line

1400 enter foot low hills

1500-1800-12100 plumbob Cham

2400 - 2640 - 66 =

2574.00 Hub on Hill Nail

2640 Hub-RR Spike Not on line

2700-3000-3300 fin 4200 Nail

Hub 20th spike + 270.25 =

4470.25 Hub nail 4500-4800 fin

5100 fin 5100 +

5164.6 - 5176.9 - 5186.60

Nail Hubs + 19.3 = 5205.9 ± 3"

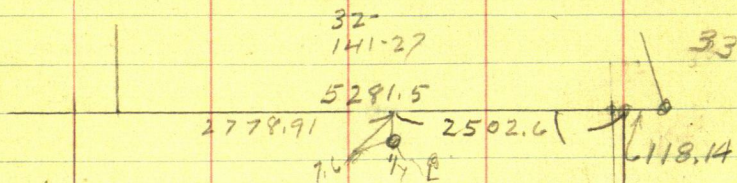
Sign post - Line cuts E. Edge

4470.25

13

Std Parallel

32-33-141-27



5

140-27

At the So Cor 32-33-141-27

We find a 2x48" pipe & Main graded Highway N and W

This iron has been bent in a long crack

We pull it up and put in its place a 2 1/4 x 26" pipe 0.25 of a foot

So of So side of a Forsyth post

6' East 8" this set, salient

New Tree

16" poplar N 59° 50' E 85.32

Twin Cedar 5-5-10" at base

N 51° 02' E 92.18

12" Cedar N 32° 23' W 121.30

To spot at base turned from

true line West 2nd spot 3' up

Riley Ford has driven 1/2 a mile

West and set birch pole in line

MC on E Side Inguadonna Lake

Old 20 pop. Stumps N 39° W 84.9 To Heart ^{5 1/2 cut} old spot

West 118.14 set RR spike for
True North Corner

See 4-5-140-27

compression

44

15

Case Co

Ties to Cor 4-5-140-27

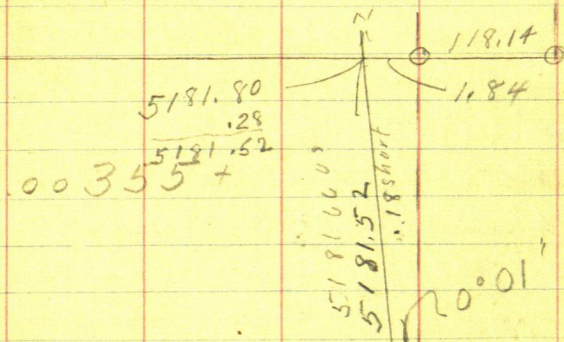
10th Standard Parallel

12" Cedar N 6° 35' E ~~80.00~~ 80.29W. Birch 15 N 65° 10' W ~~106.80~~ 106.959" Palson S 8° 42' W ~~237.75~~ 137.4314" Poplar S 53° 40' E ~~85.39~~ 85.20Bring our Random up from
the S @

$$5100 + 81.8 = 5181.80 H$$

Closing Corner to Sec 4-5

140-27 - Set East 1.84



May 21-1942 continued

45

To correct ¹⁶ & Line Sec 5 but

4-5-140-27

Length: Page 33

1851 LKS = 1221.66 + 3960 = 5181.66 is

= 5181.80 My chain =

5181.66

What the Hell !!

Only 0.14 of a foot, Long!

NIX

5181.66 in 0.14 = .000002702

1320 Ngas NO.04 = 1320.04 1/2 inch

2640 " NO.07 = 2640.07 1 "

3960 " NO.11 = 3960.11 1 1/2 "

5181.66 " NO.14 = 5181.80 1 3/4 inch

Dam Close Note:

This is the 3rd time in 50 years
when the measurement came out
that close

John W. Cress

And listen: It just happened
that we were lying to see how
dam accurate we could chain it
with no that that our chain would
fit the US chain -- didn't want it to
fit - but we did intend to proportion
it to a great hair -- isn't it a laugh

Jack Cress

46

17

correction

00 355 East

1320.04 N gas E

2574 " " E

2640.07 " E

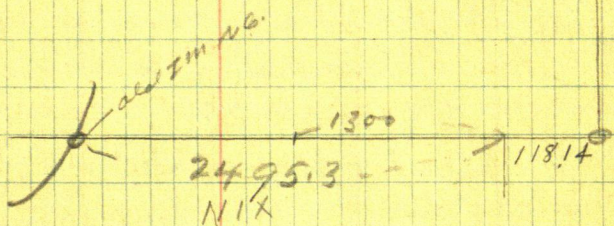
42

4470.25

West 3-6-9-12- 1300 Hub

$$15+8-21-24 + 95.3 = 2495.3$$

ME & Seal



2495.36

 118.14

2613.50

48

19

140-27

May 22-1942 Friday

up @ 6-30 - 8AM Glen arr.

8-10 Lv

Riley plow for

Jake - Glen and I dig up
E Road North Cor

5-6-140-27

We find it lying in the ditch
NW of Cor

Drive to Meet

Byron - Sherwood

So 450 feet Lat 4 - Sec 5-140-27

Longville P.O.

"Bertnirma"

Drive half a mile to 1st Big
while post 6 ft tall 9" thick set
by some one for

$\frac{1}{4}$ Cor bet 5-6-140-27

From 2 post ch

North on graded road

3-6-9-12- + 118.3 = 1318.3

PR Spike & Road in

line with old Fence West

Spike set on our line

1500 Prin + 101.5 =

1601.5 Old Fence Runs &

1800 prin 2100-2400 prin

+ 112 = 2512 Hut &

green spot

2400 + 127 = 2527 about

& E W road

$$\begin{array}{r} 2512 \\ 13.5 \\ \hline 2525.5 \end{array}$$



50

US Hales 2)

17
103
102

PM @ MC N 26.7

East on line line to sid. 32
On 10° 15'

13.12 MP on West side lake

E 117 N 70 W 32

" 10 N 36 E 43

4000 = 1/4 and MC E Side Lake

Cedar 10 N 15° E 17 = 11.22

OK " 4 S 28 E 12 = 7.92 FT

PM.

At MC H 27-141-27 E Side Lk

We find the "4" inch Cedar

Now 12" at base standing

green plainly marked

from which we set

True MC on 7.6

which sets 7.4 West and 36.40
West

2400. + 102.95 W MC

sets to 6.40

Go 10⁽²²⁾ 210
 25
 235

51

2-30 PM. Quit. Get 10 gal
 gas 1.94 oil from Woodley

Gas 210
 oil 23
 235

3-PM Ld for walken-Search
 Co records

52

23

May 23-1942 Sat

8 am L. Walker 12 ins

at 9- Pickup Jaki

K over, Co 32-33

Focus annul

West on flog @ Cor 16

5-6-140-27

K still @ Stat Cor 32-33

10th Standard Parallel

Q. Co Road runs 1'

N 12° 40' W 1/2 mile

Four 1 mile West on no 5

West 118.14 Nail on Str Line

Focus on flog @ True

1/4 Cor Run 0° 10' L

West S 89° 50' W 118.14

118.14 Ft Set True Closing

Corner 4-5-140-27

See page 44-45

Set on 1st cor 0.28 S. T. 5181.52 N

New Chain to New B.T. P. 44.

Straight West Cuts 0.33 N of 1m

2 x 14" pipe Driven 0.30

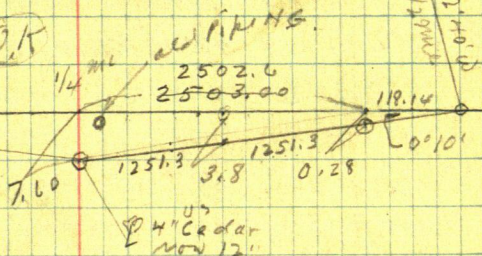
below surface

woodley

53

24

Re Chain O.K



1251.50

2) 2503.00

1251.5
2503.0

1251.3
2502.6

Rechain total

1251.5 Hwt

+

1251.1

38
2
7.6

2) 2502.6
1251.30

420000
3615

4163.85

89'32" 1/2
3000 ft

54

(25)

May 23-1942 cont'd

P.M. Jacob Woodley and John W. Curo

Correcting - Bet 4-5-140-27

00355E Paq 44-46

1320 - 0.05 - 1319.95^NE 0.472640 - 0.10 - 2639.90^NE 0.943960^NE = 3959.85 1.414200^N gasE 1.49

4470.25N-E 1.59

4770.25

5181.52^N gasE

4770.25 E 0.355

$$\begin{array}{r}
 477 \\
 355 \\
 \hline
 2385- \\
 2385 \\
 \hline
 1431 \\
 1.69335-
 \end{array}$$

$$\begin{array}{r}
 815751 \\
 48 \\
 \hline
 355 \\
 42 \\
 \hline
 710 \\
 1420 \\
 \hline
 1.491
 \end{array}$$

Jak
Woodley

55

(26)

4163.85 N gain E

4200 " " E

1.49

1.48

4470.25 E

5181.52

2639.

$$\begin{array}{r} 4164 \\ 355 \\ \hline 20820 \\ 20820 \\ \hline 12492 \\ \hline 1.77822 \end{array}$$

$$\begin{array}{r} 447 \\ 355 \\ \hline 2235- \\ 2235- \\ \hline 1341 \\ \hline 158685- \end{array}$$

56

(27)

5181.52 N 90° W E 1.84

4470.25 " " E 1.59

4200.00 " " 1.49

4163.85 " 1.48

Olson Sid Sidney A
 Kerner with Hank

50' 8" W

5181.52

2640

2541.52

(28)

Tom CC

Focus 0 mi W Line in

S 0° 27' W

Focus W Line S 89° 33'

Sw angle = 89° 33'

S 89° 23' W To MC

Triangulation

Line W Tom straight line

thru 10/10 & road in cave

Focus E on MC Run

N 26° E 90.15 m in E edge

old 24" stump + 300 =

0.40 E of head 24" pointed

Ash stump - There over

cut mark 300 = 390.15

in marsh

93.70

Hub Wedge road 483.85

T over 483.85 BSS 26° W

MC bears S 74° 46' E

From A ch E 25.3 below wh

A W on N 948.5 ft 25 25.5

North of big white post

Big W Park S 0° 8' W 25 25.5

Turn for line E

58

(29)

North Cor 105-6-140-27
drive 2x

WOak 7 N47°37'E 59.25

Pap 12 N 39°15'E 45.20

WOak 8 N 10°45'W 33.50

10" Cor Post Fence NE Fence

S 29°W 34.75 spot stone

Old NPBT

S 29°40'E

29°45' from MC

29°55' from Big white post

S E angle 89°59' Post to MC

Fence E corner

MC bears 0°9'W R S

Set 2x15' Pipe Truss Cor

in line with Q Road So

and 2 ft 10 of E W Q

to road 0.4" down

2541.5
2525.5
16.0

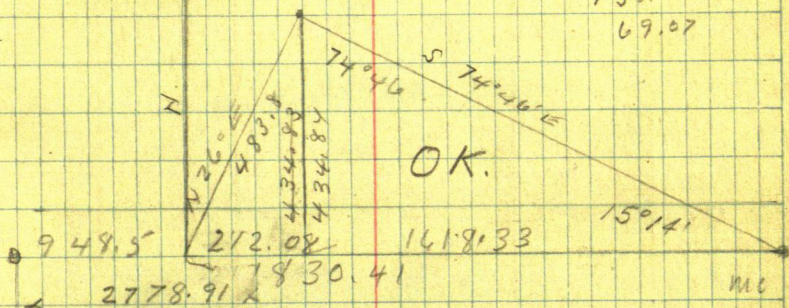
30

$$26^\circ \text{ Sine } 4384 \times 483.8 = 212.12$$

$$\text{Cor } 89879 \times 483.8 = 434.83$$

$$\text{Got } 2050 \times 434.83 =$$

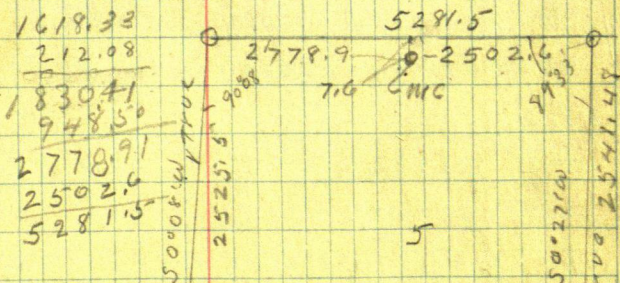
$$\begin{array}{r} 2778.9 \\ 2502.6 \\ \hline 276.3 \\ 138.15 \\ 69.07 \end{array}$$



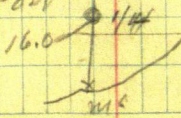
$$\text{Sine } 438371 \times 483.8 = 212.084$$

$$\text{Cor } 89879 \times 483.8 = 434.84 \text{ N}$$

$$15^\circ 14' \text{ Cot } 372106 \times 434.84 = 1618.33$$



Big White Post



31

$$\begin{array}{r} 2525.5 \\ 842 \\ \hline 253392 \\ 10 \\ \hline 253632 \end{array}$$


0.27, 607854 x 2541.5 = 19.96

$$5267.42 / 16 = .003038 = 0.1012'$$

$$0^{\circ}08' \cdot 002327 \times 5165.5 = 12.02 \text{ OK}$$

0-27' 007854 x 5181.5 = 40.70 OK

$$5173,51 \overline{) 123,81} = 0,2393 = 0K = 1^{\circ}17'$$

$$5173.51 \times 2392 = 123.81 =$$

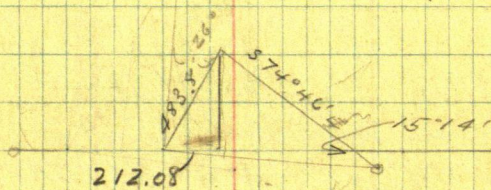
Jake
Woodley

61

(32)

May 24 - 1942 Sunday

Up @ 7:30 - Breakfast & with Jake
Woodley - Clear sunshine Calm on
hill the last 4 nights Check figures
Pg 59



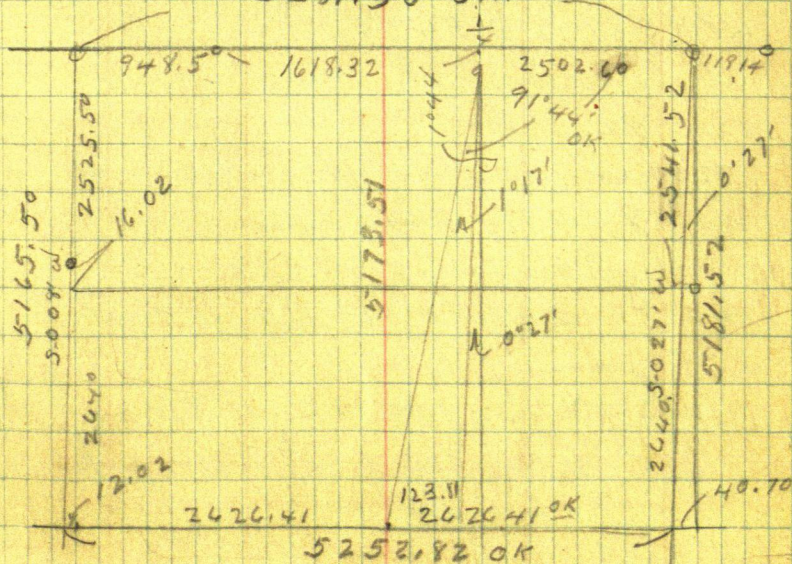
$$N 26^\circ E 483.8$$

$$\sin 26^\circ 438371 \times 483.8 = 212.08 \text{ OK}$$

$$\cos 26^\circ 898794 \times 483.8 = 434.84 \text{ OK}$$

$$\cot 15^\circ 14' = 3.72166 \times 434.84 = 1618.32$$

$$5281.50 \text{ OK}$$



9-30 am Jake and I go to town
 From Hub 2640 N ch to 66.6 to
 2573.4 N Nail hub (called
 "257400" Pg 41 ch E 0.91 on line
 line nail - drive 1/2 mile to set flag at
 see cor drive back to town corrected
 Hub 2573.4 - ch N 66.6 - 1/2 mile called
 2640 - set nail Hub 4 N - S Road
 True 1/4 Cor bet 4-5-140-27
 True NP 20 N 26° 40' E 82.15
 old scarp -

NP 16 S 46° 35' W 59.10 -

Old Scarp

NP 8 S 87° 12' E 54.50

all to new spots turned from
 true line so

to over 1/4 Focus to on line line
 turn 89° 43 1/2' Rand run

West on line E-W & see 5
 140-27. @ 33.00 set RR spike Hub
 @ 75 same

Jake walks 800 ft West Set Hub
 Pull up nail and set 2x16" pipe
 True 1/4 Cor Bet 4-5-140-27
 @ 108 ft N Focus run west.

1/4 Corbuck 4-5-140-27

US Naler call for

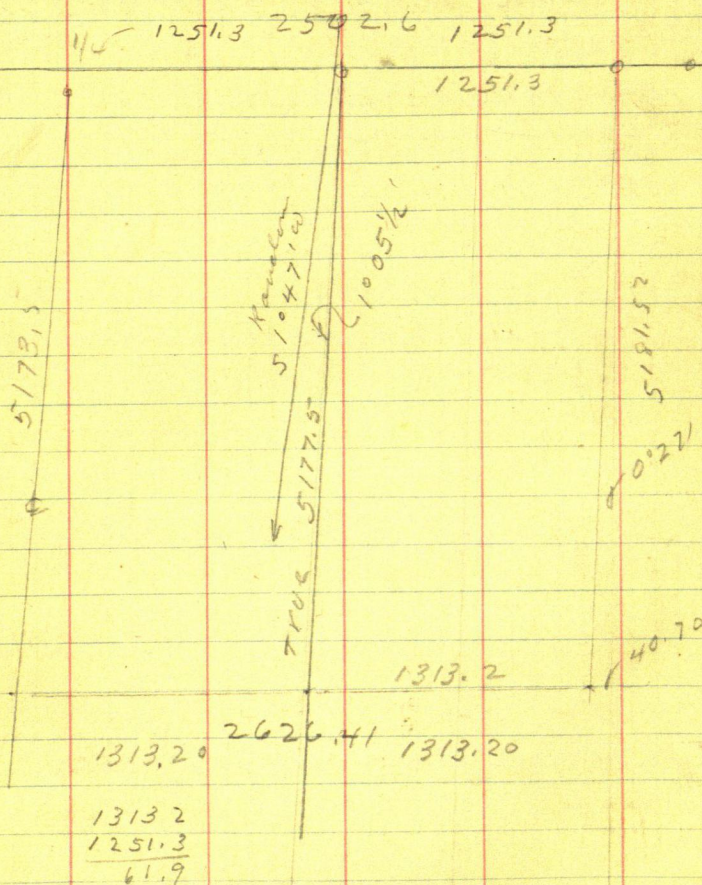
NP 85 86°30'E 25 Lks = 16.5 FT

NP 85 17°15'W 50 " = 33.0 FT

all have been graduated out in coral

64

35



$$5177.5) 61.9 = (11957 = 0^{\circ}38'1/2'$$

$$0^{\circ}38'1/2' + 27' =$$

Jake Woodley

36

65

Random

We run $S 1^{\circ}47'W$ it is too much w

Figuring from $1/4$ should have been
 $1^{\circ}44'$ ($1^{\circ}43\frac{1}{2}'$)

East line runs $S 0^{\circ}27'W$

C runs $0^{\circ}17' + 27 = 0^{\circ}1^{\circ}44'$

$E'1/10$ Line run $= S 0^{\circ}38' + 27 = 1^{\circ}05'$

38'

27

65'

38

103

60

43'

665

27

38'

38'

27

65'

38

103

60

43'

We run

$S 1^{\circ}47'W$

Should have run

$S 1^{\circ}05'$

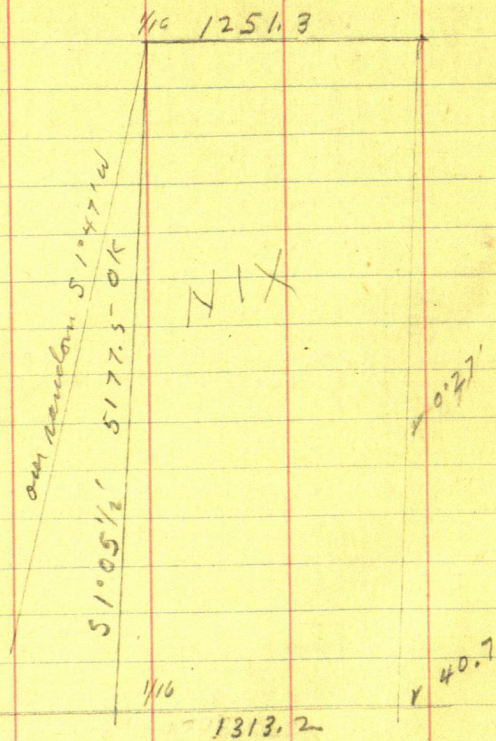
Too much

$\cdot 42'$

$0^{\circ}42'$ Tang $= .002218 \times 5177 = 114.83$

66

37



1313.2
 1251.3

 61.9

$$5177.5 / 61.9 = 38'$$

$$0^{\circ}38' \frac{1}{2}$$

$$\frac{27}{65}$$

Jak
Woodley

67

$$1.011957^{38} = 0^{\circ}38\frac{1}{2}' \text{ OK}$$

$$\begin{array}{r} 5177 \overline{) 61.90} \\ \underline{5177} \\ 1013.0 \\ \underline{5177} \\ 4953.0 \\ \underline{46593} \\ 29370 \\ \underline{25885} \\ 34850 \end{array}$$

We should however

$$0^{\circ}38\frac{1}{2}' + 27' = 65\frac{1}{2}' = 1^{\circ}05\frac{1}{2}'$$

We can $1^{\circ}47'$

$$\underline{1.05}$$

$$42 = 0^{\circ}42' \text{ Too much}$$

Tang $0^{\circ}42' =$

$$2218 \approx 1^{\circ}16' \text{ Too much}$$

$$2218 \times 5177 =$$

$$\begin{array}{r} 114.8311 \\ \underline{40.701} \\ 64.13 \end{array}$$

68

39

1

1251.3

4

5 1'05" 4 5'17.5"

5 0'27.0"

61.9

40.7

1313.2

40.7

61.9

40.7

102.6

1196X

40 Jacob Woodley

69

$$\begin{array}{r} 13132 \\ 12513 \\ \hline 61.9 \end{array}$$

$$5177/61.9 = .0011957 = 0.38' + \frac{0.27}{65}''$$

E 1/16 mm S 1°05' E

W mm S 1°47' E = 0.42' Too much

$$\text{Tang } 0.42' = 0.12218X$$

$$12218X5177 = 63.25 \text{ Too much W}$$

OK

$$\begin{array}{r} 12218 \\ 5177 \\ \hline 85526 \\ 85526 \\ \hline 12218 \\ 61090 \\ \hline 63.252586 \end{array}$$

$$\begin{array}{r} 1891 \\ 5177 \\ \hline 13237 \\ 13237 \\ \hline 1891 \\ 9455 \\ \hline 9789607 \end{array}$$

$$\begin{array}{r} 619 \\ 407 \\ \hline 1026 \end{array}$$

$$1.05' \text{Tang} = 1891X5177 = 119.76$$

70

41
Try once more

So End 62.00 longer than N. end
5177 in 62 = 0.11976 Tang = $0^{\circ}41'$

East line runs S. $0^{\circ}27'$

Plus

0 41

$0^{\circ}68' = 1^{\circ}08'$

$68 = 1^{\circ}08'$

So that E' 1/4 runs S $1^{\circ}08'$ W

Our Random run S $1^{\circ}47'$ W

$0^{\circ}39'$ Too much

Correction

1251.3

30.4

1281.7

31.5

1313.2

1251.3

2541.5

30.4

1281.7

1313.2

61.9

$1196 \times 2541.5 =$

woodley

71

42

$$1.011976 = 0^{\circ}41'2''$$

$$5177 \overline{) 6200}$$

$$\underline{5177}$$

$$10230$$

$$\underline{5177}$$

$$50530$$

$$\underline{46593}$$

$$39370$$

$$\underline{34237}$$

$$3131$$

$$1^{\circ}47'$$

$$\underline{1^{\circ}08'}$$

$$39'$$

$$11976$$

$$\underline{5177}$$

$$83832$$

$$83832$$

$$119.76$$

$$\underline{59880}$$

$$61.997752$$

ok

$$1196$$

$$\underline{254}$$

$$4784$$

$$5980$$

$$\underline{2392}$$

$$303784$$

$$1196$$

$$\underline{254}$$

$$47842$$

$$5980$$

$$\underline{2392}$$

$$30,3784$$

From wood hub on random
 Run 5 $8^{\circ} 3.5\frac{1}{2}' E$ 196.75
 To I.M. Temp $1/10 - 28.5 E 1$
 Random

$\frac{1}{2}$

Ref 5-8-140-27

Work on line section

223. pin then over road

523.

58.2

581.2 RR spike Hst

881.2 pin + 237.5 =

1118.7 Hst + 50 + 154.7 =

204.7

1323.4 wood hub $\frac{1}{2}$ edge

old road

+ 241.3

241.3

1323.4

1564.7

1564.7

+

3 or

1864.7 pin

1435

Pin

20082

+ 43.3

43.3

20515 Hst

May 25-1942 44

73

2051.5 + 300 over bag

3

2351.5 pm

193.3

2544.8 Hubon Tap

200.0

2744.8 pin

287.0

3031.8 Hutv

35.2

3067.0

old 12x12 paper

regained up set. N3H

3.5 to 2

3031.8 + 55-

54.2

3086.0 2 3H seal wall

3 H E y water

74

45

$$\begin{array}{r}
 1492.48 \\
 \hline
 196.75 \\
 \hline
 7442.40 \\
 1044.736 \\
 89.5488 \\
 1343.232 \\
 1492.48 \\
 \hline
 29.3645440
 \end{array}$$

Chained 28.57

$$\begin{array}{r}
 19675 \\
 9888 \\
 \hline
 157400 \\
 157400 \\
 157400 \\
 177075 \\
 \hline
 194546400
 \end{array}$$

$$1.011605$$

$$0^{\circ}40'$$

$$253/29.36$$

$$253$$

$$406$$

$$253$$

$$1530$$

$$1518$$

$$1200$$

0°40'

252632

194.55

29.3°

40 Jacob Woodley

75

May 25-1942 Monday

True $\frac{1}{16}$ Cor Ref 4-5-140-27
Work on True & Fence to on Cor

4-5-89-140-27 True

$89^{\circ}33' + 0^{\circ}10\frac{1}{2}' = 89^{\circ}43\frac{1}{2}'$ Page 60

West True Lin @ 33- and 75

RR Spike + 300 = 375 pin + 118 =

493. Hat RR Spike 675 pin

975 pin + 135 = 1110. 0 Hat

RR spike 2 ft So of Fence N & SW

Cross fence + 171.7 =

1281.7 Set 2 x 26" pipe

True $\frac{1}{16}$ Cor Center East

Half Sec 5-140-27

SW Cor Jacob Woodley 80°

Bring up my new Transit
line from the North

@ So Set wood Hat

From which $\frac{1}{16}$ Cor bear

SE $8^{\circ}35\frac{1}{2}'$ L 196.75

$8^{\circ}35' - 196.75$

Sin $149248 \times 196.75 = 29.36$

Cor $988800 \times 196.75 = 194.55$

48 Jacob
Woodley

77

May 26-1942 TUES.

Up @ 6-30 Cloudy - Cold wind

I drive a mile South. Walk
3/4 mile NW - Tell Glen to
Come help.

Breakfast with Jake

We drive half a mile to porch

π 80 rods West

π over Huber random

194.55 N

of C BS N. on our random

I m 2x26" pipe True 1/16 in

cen of East Half Sec 5

140-27 bears S $8^{\circ}35'E$ 196.75

π over 1/16 BS N $8^{\circ}35'W$

Swing Tel Back to 00. ~~run~~

Then $0^{\circ}40' L$ and set
picket Back shot on

True line

Focus N on True line

E W \angle runs S $89^{\circ}03'W$

SW angle of True Line

$89^{\circ}03'$

78

49

140-27

Glen corner and
helps judge cut line

So on line line

I take lies:

10" Balcon N 67° 10' E 35.85

12" Pop N 58° 56' W 58.15

Old 3x3 Slake

S 67° 02' W 38.0

NW corner of fence

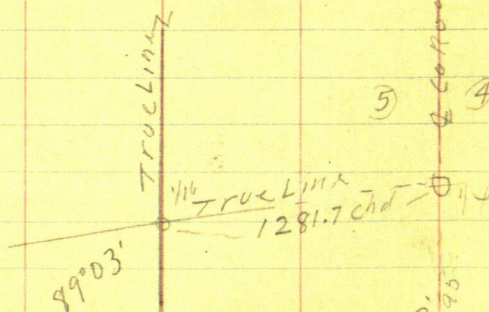
S 63° 35' W 38.4 To heart of park

All turned from true line

with called north

spot at base of bath lines

1323.4
10.3
1313.1



5 4

2640.
2439.45
204.55
5 4
8 9

50 Jake Woodley 79
South on line line

E $1/16$ line @ 13.5 wri
4 wri fence E & W 300 pm 600
pm Cut about 1200 ft.

Walk home to dinner

P.M.

Pick up Bill Lang Rosing gas part
way Continue to

1320 Set small wood Bill and

Allen cut to. Tower $1/16$

Can SE $1/4$ Sec 5-140-27

Ties

Cedar 5N 46°45' W 13.00

" 6N 87°50' E 13.05

Start True Line W

S 89°03' W

Old 4X4X 48 Cedar Post
N 83°40' W 30.05

All turned from true $1/16$
line & called "North" for
this line So 2640 set

Intersect True & W line 10.3 E
of that 1323.4 W P 972

80

51

East $\frac{1}{16}$ bet 5-8-140-27
 Set $2\frac{1}{4} \times 26$ pipe 15 ft E of new
 trail Road NE SW

Turn 1m NE angle road

$89^{\circ}02\frac{1}{2}'$ OK $89^{\circ}03'$

Dam Close Check

New Ties

6" Tann N $9^{\circ}10'E$ 35.07

8" Pop N $51^{\circ}35'W$ 70.85

$4\frac{1}{2}"$ W Birch S $18^{\circ}40'E$ East 19.95

7" Pop S $73^{\circ}45'E$ 31.60

4-45 PM

Walk around

Turn $\frac{1}{16}$ in cen SE $\frac{1}{4}$ Sec 5
 140-27. Focus N on line line

Turn SW angle $89^{\circ}03'$ in
 S $89^{\circ}03'W$

52

Jah
Woodley

81

NE 1/4 N Side Pa 5-140-2C
set 2x12" pipe @ E of Road
Trees

6" Cedar N $48^{\circ}40'E$ 65.80

5" Cedar S $53^{\circ}50'E$ 58.10

1
Ray Brookman
Contract

Contract

N $\frac{1}{2}$ Lot 1-Sec 8-

Milton E. and Estelle E.

Christison Mpls

Res 5027 Ewing Aves S.

Walnut 4361 Nov 30 1948

84

475-
2

Ray Brookman

100
100
100
107.5
407.5
111
111
678.6
126.5
705.1

Not in
this
plat
N 42° 52' W

Part of Govt Lot 4

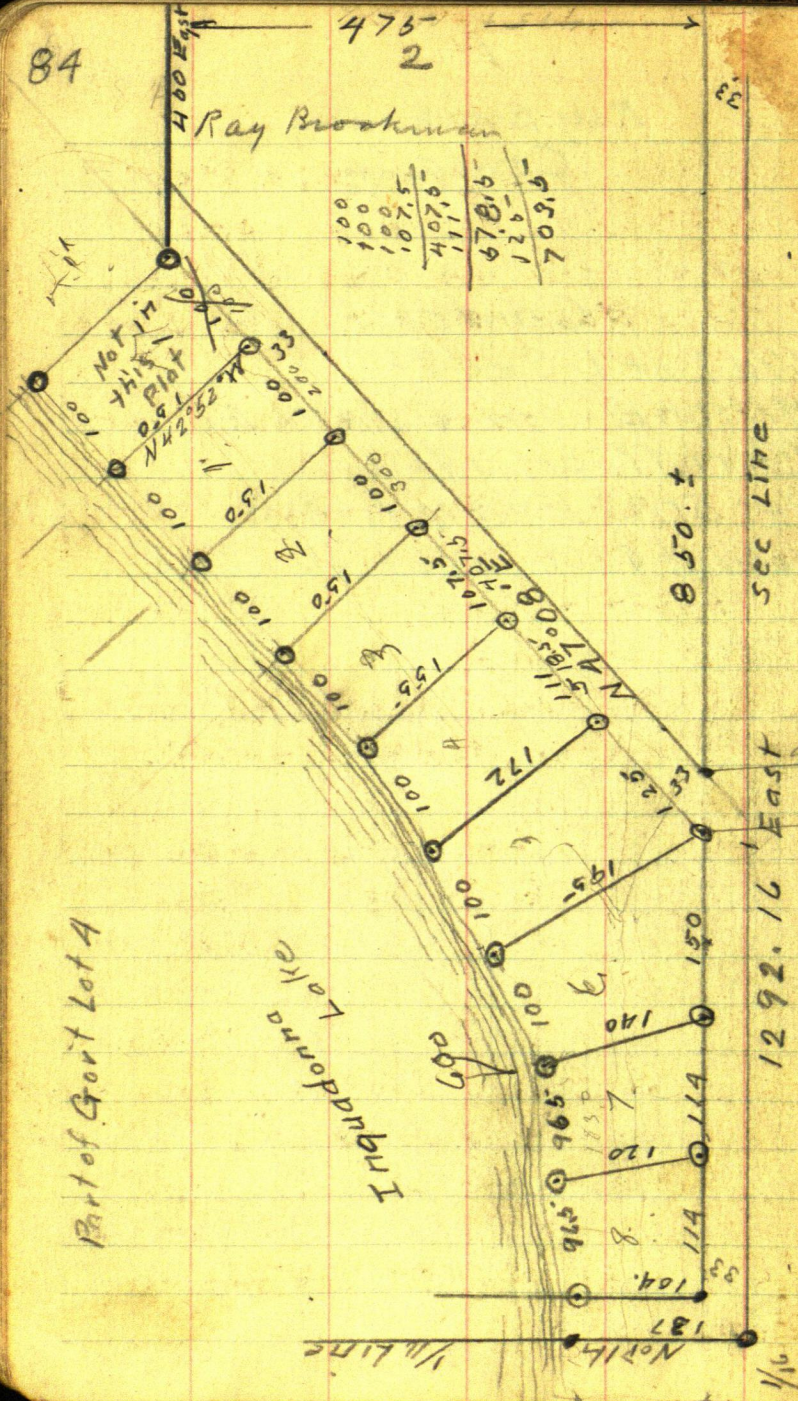
Ingonoma
Lake

850.4

sec line

1292.16 East
45941
411
411

1/4 line North



(3)

Sec 8-140-27

85

Dec 30-1948

As we have to finish Ray Brookmans survey and have to cut up sec 8 viz plat the North end of Govt Lot 4 for Russel

Plat the N $\frac{1}{2}$ of Govt Lot 1 for (Christerson) ?)

Cut out the NE $\frac{1}{4}$ of SE $\frac{1}{4}$ for Lenard Berg.

and most of what is left belongs to Jake Woodley

I take J.W.C.'s Car and drive to Longville take Donald Curo with me

Stop at Brookmans Restaurant where I meet Lenard Berg who wants to go along but has to unload his truck says he will be out after dinner I & Don drive to Jake Woodley. Jake has a few things to do first before he can go. We eat egg sandwiches

Jake - Don & I drive to the SE cor of Sec 8-140-27 where we leave the car

Harold Curo

Sec 8 (4) 140-27

86

Dec. 30-1948

Take outfit and walk west
3/4 mile following the road
at our corrected hub @
Sta 5 set X (see small
book-454) BSW on True Vic cor
and run E on sec line bet
Sec 8, + 17-140-27

Cut line until 4:30

Walk back to car drive to
Jake Woodleys arrive 4:45

Lenard Berg comes along
says he could not find us

Jake + Lenard will cut line
to morrow

Don + I drive to Walker

Harold, Curo

Dec. 31-1948

Friday Last day of the year
Elsworth Miller + I in ford car
drive to longville I buy milk
+ rolls 65¢ drive to Jakes
where we find Lemard waiting
for Jake to finish watering his
stock. meather wants to take
their truck out as they say
they can not drive in deep
snow with their trucks so
we pick them up in the ford
drive to SE cor of sec 8 140-27
in car pack outfit W and
continue our sec line East
bet 8-17. We set a 60¢ spike
in center of road + Tie into
cor. Over 60¢ spike & road
cor sets $N 0^{\circ} 26' 25.4''$

We all eat Elsworths lunch
and my rolls + milk.

Work from 10-30 until 3 PM
quit as Jake has to haul hay
and go to town. Lemard has to
take his dad to town. Elsworth
+ I drive to walker

Harold Curo

1292.16
258432
387648
5168.64

1000
5 sec

129216

x 5168.66 - small book 454 pg. 59
3867.48

1000
5 sec

6

192

254.4
0.26
254.39

3867.48

Brookman-Berg ⑦ Sec 8-140-27. 89
Woodley Christerson + Killmer
Jan 3-1949

Elsworth Miller + I + Walker drive
to Longville then out to Lake Woodleys
Jake says Lemard Berg has gone
ahead and that he will follow
as soon as he finishes his chores
Elsworth + I drive to the NE
cor Sec 8-140-27. Berg left
his truck here and walked
S to his 40 Acres. NE of SE
Elsworth + I dig up the I.M.
at this the NE Cor Sec 8 and
set tall stake with red flag
on top of same. Then we drive
1 mile South to SE Cor of 8 pass
Berg but do not stop he walk
on south to meet us. as the
S end of the road turns East
we start Berg cutting line
on the west side of road about
 $\frac{1}{4}$ mile N. of SE Cor. He cuts
line until - 12-30 Then goes
to dinner Jake comes and
helps him. Elsworth + I take
ax + 300 foot Chicago steel tape
and walk $\frac{3}{4}$ of a mile W to
Harold Curo

90 Sec 8-140-27 ⑧ Woodley-Berg
Christerson Brookman
Killmer

Jan-3-1949 continued

W. $\frac{1}{16}$ Cor bet sec 8-17-140-27
beg @ W $\frac{1}{16}$ Cor Chair East
East on south side Sec. 8
see small book 454

@ 143. E. $\frac{1}{2}$ old winter road
NE SW

@ about 160 E enter round meadow

@ 300 stake in meadow

@ 530 Lv same

@ 597.80 E 1" Wood Hub

(This hub is the corrected Hub
from sta ⑤) see small book
454 page 61)

@ 600 E stake

@ 684 E $\frac{1}{2}$ main road NWSE

@ 760 E enter Tarr swp

@ 900 stake

@ 920 hit small raise in swp

@ 940 Top " " " "

@ 980 Lv " " " "

Note this raise is really point of
main land from the south

@ 1200 stake in swp

@ 1300 hit point of high land
from the south

Harold Curo

Woodley - Berg-

Christerson - Brookman

(9) Sec 8-140-27

91

Killmer

Jan 3-1949 continued

@ 1358.40 E Wood Hub on E slope

12 ft E of top about pt extends 60' N

@ 1400 enter swp

@ 1500 E stake

@ 1774.60 E spike hub in swp

@ 1800 stake @ 2100 stake

@ 2400.2 spike hub @ 2700 stake

@ 2838.2 spike Hub @ 3000 stake

@ 3300 stake @ 3600 stake

@ 3627.2 spike in @ main road
NE-SW

@ 3881.6 corner sets N 1.92

Elsworth + I take outfit
and walk N $\frac{1}{4}$ mile

I work π on line bet
flags at NE + SE corners
of Sec. 8-140-27.

beg at NE cor sec. 8 chain
South on true line bet sec
8-9-140-27

@ 300-600-900-1200 pins

@ 1320.-60' spike @ 1500-1800

2100-2400 pins @ 2640-60' spike

Line runs about in W wheel
Tract all the way

Harold Curo

92 Christerson ⑩ Sec. 8-140-27
Woodley - Berg.
Brookman - Killmer
Jan 3 - 1949 Corit.

@ 2700 - 3000 - 3300 - 3600 - 3900
pins @ 3960 spike 60' about 3 ft
W of road @ 4200 - 4500 - 4800
5100 pins @ 5284 IM SECOR
Sec. 8-140-27

Home late.

West bet 5 + 8 see page
72 this Book 243
says, bet 5-8

West True line

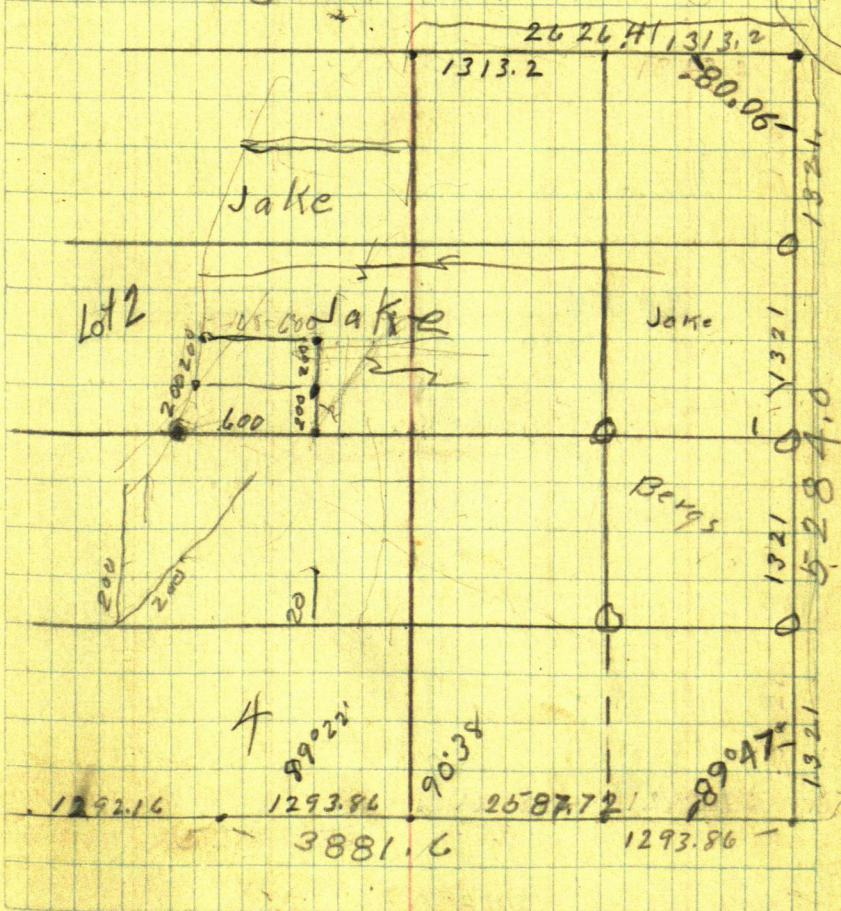
223 pin Then over marsh 300 -
 $523 + 58.2 = 581.2$ RR spike Hub
 $+ 300 = 881.2$ pin $+ 237.5 = 1118.7$ Hub
 $+ 50 + 154.7 = 1323.4$ Wood Hub Edge
old road $+ 241.3 = 1564.7 + 300 = 1864.7$
 $+ 143.5 = 2008.2 + 43.3 = 2051.5$ Hub
 $+ 300$ over top. $= 2351.5 + 193.3 = 2544.8$
Hub on top $+ 200 = 2744.8 + 287.0 = 3031.8$
Hub $+ 35.2 = 3067.0$ old 12x12 pop D up
sets N 3 ft. $3031.8 + 54.2 = 3086 \pm$
3' seawall - 3 ft E of water (WC)
Harold Curo

Sec 8-140-27 (11) christersson
 Woodley - Berg 93
 Brookman & Killmer

Jan 4-1949

snow last night sleet and
 rain this morning work in
 office on this
 Commissioners Meet.
 To-day.

sec 8-140-27



94
1/4

E 1/2 of 8

2626.41

12

1313.2

E 1/4

1313.2

NE
Cor

38.69

19.34

90°08'

$$38.69 \div 5284 =$$

$$007322104 =$$

$$0^{\circ}25' +$$

$$19.34 \div 5284 =$$

$$.0036601 =$$

$$0^{\circ}13' -$$

E + W

N + S

Sec line 5284.0
E side Sec 8 - 140-27

90°25'

0°13'

9922

9038

2587.72

7026

89°47'

1/4 1293.86

① 1/4 1293.86

SE 1/4
Cor

West $\frac{1}{2}$ of Sec 8 - 140-27

(13)

95

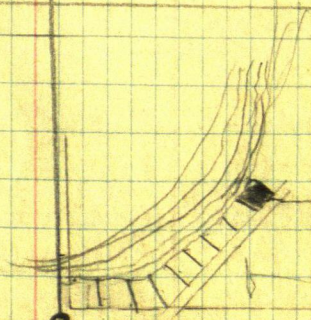
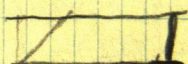
1313.2

1313.2

1 M. 9.

405.4

55.



1293.86

1321

96 Sec 8-140-27 (14) Christerson
Woodley - Brookman
Killmer + Berg.

Jan 4-1949

Fig. Corrections for the
South Line Sec 8-140.27

See Top of Page 91 this book 243

$$1.92 \div 3881.6 = .0004946413 =$$

0°02'

Hub 597.8 E goes N 0.30

" 1358.4 E goes N 0.67

" 1774.6 E " N 0.88

" 2400.2 E " N 1.19

" 2838.2 E " N 1.40

" 3627.2 E " N 1.79

3881.6 E " N 1.92

Hub 1358.4^E chain West
64.54 to 1293.86 E then
North 0.64 to True V₄ Cor
bet Sec 8-17-X40-27.

Sec 8-140-27 (15) christerson
Brookmann - Killmer 97
Woodley - Berg

Jan 5-1949

Elsworth + I drive to Longville
then out to Jakes Mrs Woodley
say Jake is stuck with his
Truck on the road N side of
sec 8-140-27 and that

Lenard Berg is stuck with
his Truck near his place

Elsworth + I drive to the
NE Cor of 8 Lu car and
go West $\frac{1}{4}$ Mile set Flag
in I.M. E $\frac{1}{16}$ bet 5-8 then
help Jake get his Truck out
Jake goes home to dinner

I work T on line bet
the NE Cor + E $\frac{1}{16}$ of sec
8. We set a hub 60' apike
West on N line Sec 8 on edge
of cut bank S side of road.

Jake comes on snow shoes
We three walk 1 Mile south
to SE Cor of 8. correct
hub 3627.2 E on S line of 8

T over SE Cor Sec 8-140-27
Site N on True line Turn
L to correct hub 3627.2 corrected

98

Sec 8-140-27 16 Christerson
Woodley - Berg
Killmer Brookmeyer

Jan 5-1948

= NW angle @ SE Cor
reads $89^{\circ}47'$

Pack out fit N 1 mile
Tower NE cor sec 8
site son true line
Turn R to True N Line
sec 8 SW angle reads

$90^{\circ}08'$

Still at N E Cor Sec 8-140-27

@ 1320 S we chain 5 ft.

@ 1321 set 60 d spike for

True N $\frac{1}{16}$ Cor bet sec 8-9

@ 2640 S we chain 5 ft

to 2642 and set 60 d spike

for True $\frac{1}{4}$ Cor bet sec
8-9-140-27

Drive to Walker.

1308 37
874 2 1
218 4 3

1321
1320.05

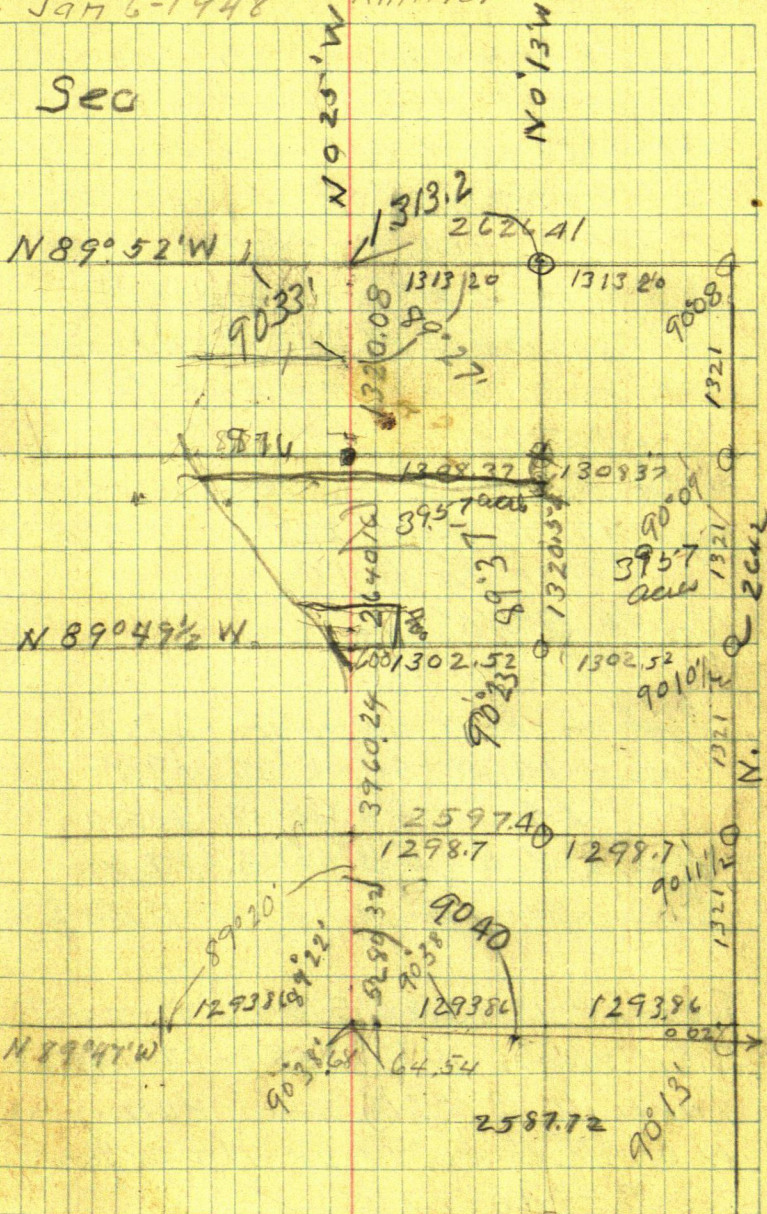
895-2
5949 $\frac{1}{2}$
101 $\frac{1}{2}$

Sec 8-140-27 (17) Christerson 99
Woodley - Berg
Jan 6-1948 Killmer Brookman

99

Killmer Brookman

Sea



100 Sec 8-140-27 (18) Christerson
Brookman Killmer
Woodley Berg

Jan 8 - 1949

Elsworth & I drive to Jake
Woodleys have egg sam.
Elsworth Jake & I drive to
NE Cor Sec 8 Then West
 $\frac{1}{2}$ mile Lu Car Walk to
Jakes new House Then out
on ice walk on ice to
Brookmans cabins Then
to $\frac{1}{4}$ S end of 8. See Corrections
Page 96 this Book 243.

Over $\frac{1}{4}$ Run

North $0^{\circ}40' W$.

Tries to $\frac{1}{4}$

Baken 8 N $65^{\circ}10' E$ 22.7

Ceder 14 N $61^{\circ}25' W$ 57.8

" 14 S $84^{\circ}30' W$ 38.10

Brick 8 S $58^{\circ}05' E$ 27.8

Turn from S line as Bare E & W

Over 1293.86 E on Paradox
B.S. W. on $W\frac{1}{4}$ bet 8-17-140.27

Turn R $89^{\circ}20'$ and Run

N $0^{\circ}40' W$ on True N & S @

Sec 8-140-27

Harold Curo

Sec 8-140-27 (19) Christerson
Brookman Killmer 101
Woodley Berg

Jan 8-1949 continued
@ 300 hub 60' spike chained
from 60' spike $\frac{1}{4}$ cor '64 N
of Random hub 1293.86 E
Hub 300 N is at edge of Brush
enter open bog. @ 600 stake
@ about 750 hit West bank of
creek in bend. @ 900 stake
@ 1150 enter creek @ 1200 stake
in $\frac{1}{2}$ creek @ 1240 LV Same
@ 1300 enter creek @ 1350 LV
Same @ 1450 stake Too dark
to see We walk Back to
car

Storming - Hard walking
Have bad time getting
car back out to Highway
at NE cor sec 8-140-27
We had to put on chain to
get in.

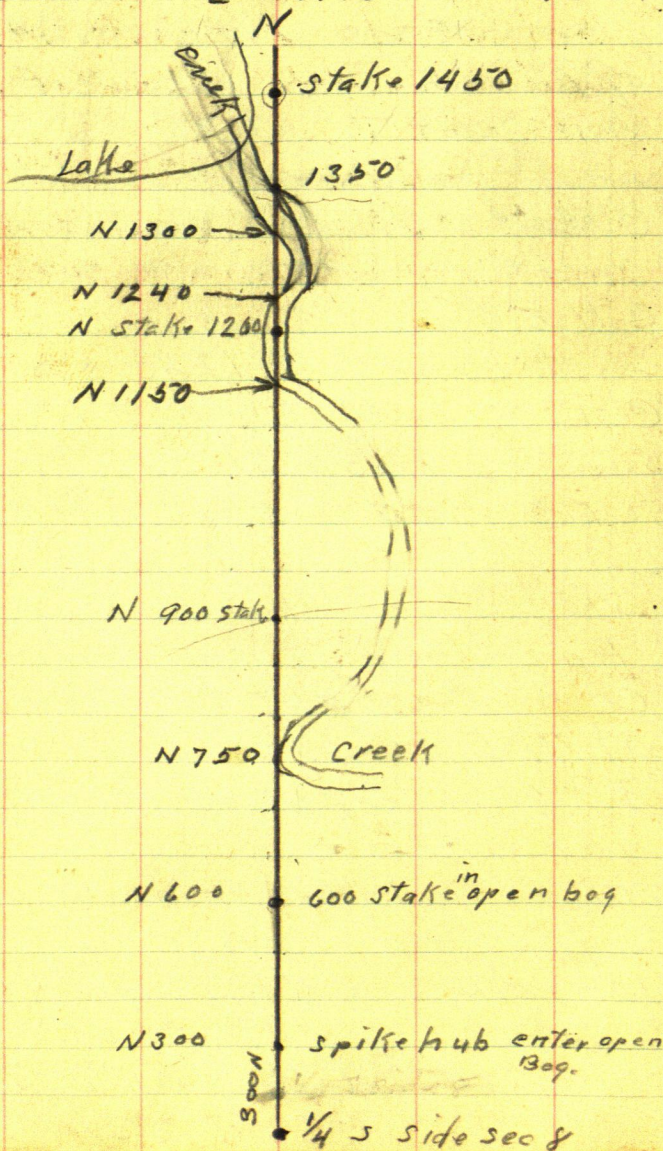
Drive to Lakes road slippery
leave chains on drive to
Longville cold to hard work
to get chains off so leave them
on drive to Walker arrive 7 P.M.

102

Sec 8-140-27 (20)

Brookman-Berg,
Woodley Killmer
Christerson

Jan 8-1949 continued

This is about the way
the N & S E hits the creek

Brookman-Berg 21 Sec 8-140-27

103

Woodley Christerson

Killmer

Jan 9-1949 Sunday

Cold,

Put 2qt alk in car. 80¢

Get in Mail 2 cards Minn
dept of Health Report of X ray

one JWCuro

" H.Curo

both satisfactory

That makes the 5 X-Ray cards

Don - Lungs appears satisfactory

Ed. - " " "

Herb - " " "

JWC - " " "

HC - " " "

Not bad

Harold Curo

104

22 140-27

Jan 10 - 1949

Cold in Court House
all day.

Sec. 8-140-27 (23) Christerson
Woodley-Berg 105-
Killmer-Brookman

Jan 11-1949 Tue

Elsworth + I Lr Walker drive to
Longville get rolls 30¢ drive to
Lake Woodleys get Jake + Leonard
Berg drive to NE Cor Sec 8
Lr Car take outfit walk $3\frac{1}{4}$ mile
S @ hub 3960 S chain S 3 ft to
3963 and set 60^d spike for True
S $\frac{1}{16}$ cor bet 8-9-140-27

Helena Tower $\frac{1}{16}$ Cor side S on
SE cor Sec 8 Turn $90^{\circ}10\frac{1}{2}'$ L
and run West on S $\frac{1}{16}$ Line
Ties to $\frac{1}{16}$

NP 20 S $36^{\circ}03'$ W $37.5'$ To spot @ Base
Pepler 9 N $79^{\circ}57'$ E 44

Turn S $\frac{1}{16}$ Cor run N $89^{\circ}49\frac{1}{2}'$ W
on S $\frac{1}{16}$ Line @ 300 stake

@ 600 stake @ 804.40 Hub 60^d spike

@ 900 W stake @ 950 enter Balsam

@ 1200 stake @ 1298.7 W 60^d spike
for Temp $\frac{1}{16}$ center S E $\frac{1}{4}$ Sec 8

Ties To Temp $\frac{1}{16}$

Balsam 9 S about 30° E 7.0

Balsam 10 N " 80 E 11.40

Home after dark.

106 Sec 8-140-27 (24) Christerson - Berg
Woodley - Killmer
Brookmair

Jan 12 1949

Elsworth & I drive to Longville

Elsworth get 1 qt of Milk - 18

I get rolls - 30¢. drive to

NE cor. sec. 8-140-27 Lv car
behind Jakes Truck Walk
 $\frac{3}{4}$ mile S to S $\frac{1}{2}$ Line Then
W $\frac{1}{4}$ mile to T.

From stake 1200 W continue
west on $\frac{1}{16}$ line

@ 1311.4 hub 60¢ spike on
E bank of County ditch

@ 1325 W E of County ditch

10ft wide runs NE-SW

1500 stake - @ 1800 stake

@ 1887.70 W 60¢ spike hub

@ 2100 stake @ 2400 stake

@ 2572 W - enter creek

@ 2597.40 W ^{on ice} 60¢ spike Hub

Temp $\frac{1}{16}$ cor center S $\frac{1}{2}$

Sec 8-140-27 - 9ft E of W
bank of Creek.

$2597.4 + 23.4 = 2620.8$ W 60¢ spike
on brush line @ 2735.6 W 60¢
spike hub on top of seawall
6ft E of water.

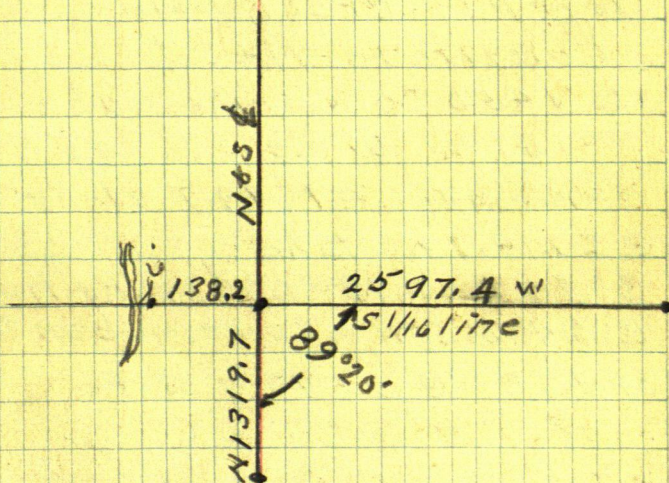
Harold Caro

Sec 8-140-27

(25) Christerson
Berg-Woodley 107
Brookman-Killmer

Jan 12-1949 continued

Over $\frac{1}{16}$ cor center south
half sec 8-14-27 side E
on $\frac{1}{16}$ line Turn R. to N45 E
angle reads $89^{\circ}20'$ SE angle
of N45 E with S $\frac{1}{16}$ line



See page 102 this book 243

Still over $\frac{1}{16}$ on ice in creek
I send Elsworth S to stake
300 N of $\frac{1}{4}$ on S side of sec 8-140-27
B S on $\frac{1}{4}$ and set 60° spike on
True N45 E 300 ft N of $\frac{1}{4}$
@ 600 N stake @ 900 N stake
@ 1030.80 N Set 60° spike Hub
@ point of Brush.

Harold Curo

108 Sec 8-140-27 (26) Christerson
Woodley - Berg
Brookman - Killmer

Jan 12-1949

@ 1200 stake on creek

@ 1292.90 N set 60' spike on

N edge of cedar post (set for cor
by someone)

@ 1319.7 Temp $\frac{1}{16}$ on ice -
10ft N of creek bank.

Continue N & S @

@ 1450.20 N spike hub

@ 1619.7 stake @ 1688.5 N 60'
spike hub. @ 1919.7 stake

@ 2219.7 N stake

@ 2243.0 N - 60' spike hub

@ 2495.50 N - spike hub on top
of hill @ 2519.7 stake

quit for night

~~3960.24
3901.8
58.44~~

~~3960.24
3862.4
97.84~~
~~3901.8
3862.4
39.4~~

Harold Curo

Sec 8-140-27 (27) Christerson
Woodley-Berg. 109
Brookman-Killmer
Jan 13 1949

Up early JWC stays in bed.
Stop for Elsworth 8-45 find
him in bed. Have to wait
for him.

get gas - 340
drive to Longville get rolls
33-8 drive to Woodleys
pick up Berg - Jake will come
later. drive to NE cor Sec 8
140-27 Lx cor. Walk $\frac{1}{2}$ mile
W + $\frac{1}{2}$ mile S

Turn over hub 2495.5 N on N+S E
Sec 8-140-27 continue N+S E
North

From stake 2519.7 N chain North
120.46 * set 60" spike Hub

Terrip $\frac{1}{4}$ Center Sec 8-140-27
 $2495.5 + 281.9 = 2777.4$ hub 60" spike
 $+300 = 3077.4$ stake - 17.4 =
3060.0 hub 60" spike.

@ 3377.4 stake + 185.0 = 3562.4
spike 60" hub on top + 300 =
3862.4 hub 60" spike on top
20' N of narrow road NW 1-S

@ 3901.8 hub @ 3960.24 set 60" spike

110 Sec 8-140-27 (28) Christerson
Woodley-Berg
Jan 13-1949 Brookman-Killmer

Tamp McCor Center N $\frac{1}{2}$

Sec. 8 - 140 - 27 side hill

From hub 3901.8 on top

chain 223.4 = 4124.2 N

Stake on top + 300 = 4424.2

stake + 147 = 4571.2 hub

under T + 48.8 spike hub

@ 4871.2 stake + 10.0 =

Sec 8-140-27

(29)

Christerson

Berg- Woodley

III

Jan 14 - 1949

Killmer - Brookman

Elsworth & I drive to Jake.
Woodleys pick up Jake & Leonard
Berg drive to NE cor sec 8-140-27
Walk $\frac{1}{2}$ mile W then S to
Hub 4571.2 N continue N on N+SE
4571.2 + 48.8 hub - 60% spike
4571.2 + 300 = 4871.2 stake +
17.8 = 4889.0 hub 60% spike
+ 300 = 5189.0 stake
@ 5280.32 spike hub
@ 5281.8 intersect N Line sec 8
set spike @ intersection

P.M.

Traverse N $\frac{1}{16}$ bet 8-9-140-27

Ties

J.P. 14 N $70^{\circ}18'$ W 54.0

J.P. 16 S $36^{\circ}05'$ W 55.1

6" Fence cor. post N 89° E 33.45

Traverse still over N $\frac{1}{16}$ 3

Site S on true sec line Turn
R $90^{\circ}09'$ and run W on N $\frac{1}{16}$ line
about 400 ft set 60% spike hub
all go S $\frac{1}{4}$ mile to $\frac{1}{4}$ cor bet sec
8-9-140-27

112 Sec 8-140-27 (30) Christerson
Woodley-Berg,
Brookman-Hillmer

Jan 14-1949

Over $\frac{1}{4}$ Cor bet Sec 8-9
140-27 Take Ties

Turn 10 N $62^{\circ}22'E$ 56.35

" 7 N $66^{\circ}50'W$ 56.9

A still over $\frac{1}{4}$ site south
on True Sec Line Turn
R $90^{\circ}10\frac{1}{2}'$ and run

N $89^{\circ}49\frac{1}{2}'W$ on True

E & W @ sec 8-140-27

300 stake 50% ditch SWNE

600 stake + 175.9 = 775.9

hub 60% spike @ 900 stake

Sec 8 T.140-R27 ③D Christerson
Berg - Woodley 113
Killmer - Brockman

Jan 15 1949 Sat.

Elsworth + I drive to Jake
Woodley - Jake has gone to
Langville will not be back until
noon We pick up Leonard Berg
drive to NE cor sec 8-140-27
Lv. cor walk $\frac{1}{2}$ mile south
Then W on E + W $\frac{1}{2}$ to π
@ hub 775.9 continue W on
E + W $\frac{1}{2}$

P.M.

Jake comes + we continue
West chain W from stake 900
@ 1200 stake @ 1302.52 set 60°
spike hub for Center E $\frac{1}{2}$ sec 8
@ 1493 hub 60° spike @ 1500 stake
@ 1661.9 hub 60° spike
@ 1961.9 stake + 145.6 = 2107.5 hub
60° spike + 3.00 = 2407.5 stake +
264 = 2671.5 hub 60° spike
- 63.8 = 2607.7 inter sec N + S $\frac{1}{2}$
2671.5 + 180.4 = 2851.9 spike on seawall
40 ft to water
1.2 N of Center

Jan 17-1949 Monday

Elsworth + I to Longville

JWC gave Elsworth check for \$5.00

Sunday night he lost it

Monday JWC stopped payment on
said check at the bank. We gave
Elsworth \$5 cash. Lv cor NW cor
sec 8. Walk S $\frac{1}{4}$ mile Jake goes
W on N $\frac{1}{4}$ line + continue cutting
line Elsworth. Leonard + I

Walk S to E + W $\frac{1}{2}$ sec 8 Then
W $\frac{1}{4}$ mile to $\frac{1}{16}$ cor Center
E $\frac{1}{2}$ of 8.

Turn $\frac{1}{16}$ side S on $\frac{1}{4}$ cor E side of
8 Turn R $90^{\circ}23'$ and start line
South set pickets for about 600 ft
Elsworth takes T and goes
 $\frac{1}{4}$ mile E $\frac{1}{4}$ N and about 400 ft
W leaves T at hub. help Jake
cut line. Leonard + I drive
2 x 30' I M @ $\frac{1}{16}$ Center E $\frac{1}{2}$ of 8
Walk S $\frac{1}{4}$ mile set 2 x 30' I M
@ $\frac{1}{16}$ Cor Center SE $\frac{1}{4}$ sec 8
Leonard goes to Longville

Harold Curo T

Sec 8-140-27 (33) Christenson
Woodley - Killmer 115-
Brookman

Jan 17-1949

I go West on N $\frac{1}{4}$ line sec 8-140-27
to where Elsworth and Jake has
a fire going We all eat lunch
1 PM.

We set 60d spikes for hubs
and all three cut line
until dark. do not chain
Elsworth and I to Walker

Lenard Berg makes out
check at Longville to
John W Curo in full for
surveying and stakeing out
the NE $\frac{1}{4}$ of SE $\frac{1}{4}$ sec 8-140-27
gave check to me

Harold Curo T

116

Sec 8-140-27

(34)

Christerson

Woodler - Berg

Brookman - Killmer

Jan 18 1948

Elsworth + I to Longville
 then to Lake Thera to NE cor
 Sec 8 walk $\frac{1}{2}$ mile W $\frac{1}{4}$ South
 + continue N $\frac{1}{16}$ Line West
 to Lake do not chain

E $\frac{1}{2}$ mile beg. @ $\frac{1}{16}$ Cor ^{ant} N $\frac{1}{2}$
 + chain W @ 142.9 Hub on top
 intersection hub is 1.15 N of
 4620 N

Continue W @ 442.9 stake
 742.9 stake + 80.2 = 823.1 up to
 + 53.1 = 876.2 up to top of IR
 15' of water

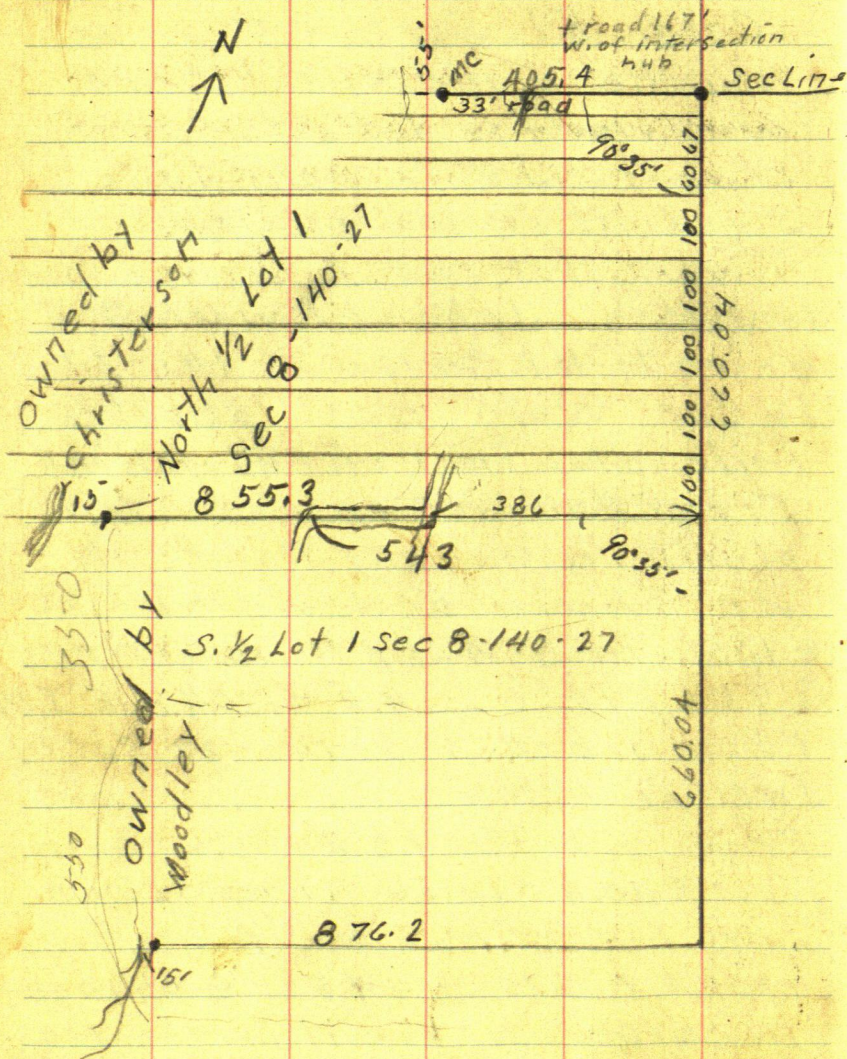
Jan. 28-1949

Cold. Elsworth & I drive to Jake Woodleys where we wait for Jake to finish chores. J.W.C. calls Jake says it is too cold & windy to work for me to come back to work. Jake - Elsworth & I drive to NE Cor sec 8-140-27. Lv Car walk west about $\frac{1}{2}$ mile stop in cut out of wind from Hub 609 spike on top of hill in edge of Road cut we chain E down hill
@ 100 pin @ 400 pin @ 700 pin
@ 950 pin + 254.8 = 1204.8 E I.M.
E $\frac{1}{4}$ cor bet 5-8-140-27 set by J.W.C. in 1942

From hub 1204.8 E of $\frac{1}{16}$ chain West @ 110.8 = 1315.6 inter section spike hub of our N-S $\frac{1}{2}$ sec 8
1204.8 + 277 = 1482 E of road in curve where it lv. the sec line and run S thru out of ① sec 8.-140-27 @ 1504.8 pin + 215.3 = 1720.1 I.M. + 55' rewall.

118

N $\frac{1}{2}$ Lot 1 Sec 8 (36) 140-27
Christerson plat



Jan 31. 1949

Elsworth & I get gas 3.45 Not paid
 drive to Longville get lunch drive
 to Lake 10-15 at Longville
 Jake has to haul hay says he
 will be out later Elsworth & I
 drive to NE Cor Sec 8-140-27 Lv
 car and go west $\frac{1}{2}$ mile with outfit
 T over NE cor Lot 1 read SW angle
 $90^{\circ}35'$ chain 5 @ 33. spike hub @ 100.04
 spike hub @ 160.04 spike hub @ 260.04
 spike hub @ 360.04 spike hub @ 460.04
 spike hub @ 560.04 spike hub @ 660.04
 spike hub pt for I.M. SE cor of
 Christersons N $\frac{1}{2}$ of Lot 1.-sec 8-140.27
 T over 660.04 side S Turn R. $90^{\circ}35'$
 and run True line bet Lake
 Woodley and Christerson.
 @ 386 \pm of road in curve @ road
 bears N & W @ 543 \pm road runs
 SW & East @ 579.4 spike hub
 @ 855.3 spike hub on seawall pt for
 I.M. 15 ft from water
 Jake comes around 2 PM

Turn hub 460.04 site S

Turn R $90^{\circ}35'$ and run

@ 200 pin @ 362 $\frac{1}{2}$ road N & S

@ 500 pin @ 588.4 hub 60 spikes

@ 709.8 spike hub on seawall
point for I.M. 10 ft to water

Move T 200 ft N. to hub

260.04 S. site S Turn R $90^{\circ}35'$

and run @ 190 enter ramp

@ 300 pin in ramp extends S 75 ft

@ 345 L. ramp " S 75 "

@ 358 $\frac{1}{2}$ road, N & S

@ 453 spike hub + 156.2 = 609.2 spike

hub on seawall pt. for I.M.

10 ft to water

Move T N 160 ft to pt 100.04 S

of $\frac{1}{4}$ N side sec 8. 140-27

site S Turn R $90^{\circ}35'$ and run

@ 160 enter ramp @ 207 L. ramp

ramp extends N about 10 ft.

@ 232 $\frac{1}{2}$ road set spike hub
on top of hill to dark to see.

5-30 E/S worth & I to water

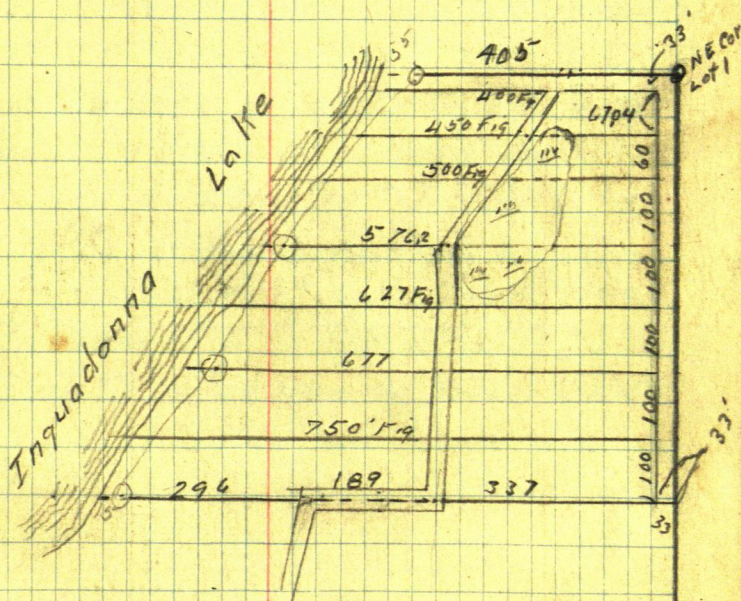
Sec 8-140.27 (39)

$$\begin{array}{r} 296 \\ 189 \\ \hline 485 \end{array}$$

121

Feb 1- 1949

Cold work on plat of
Christians



15

876.2

122

Sec 8 - 140-⁽⁴⁰⁾27

Mar. 29 - 1949

Glen Miller & I Lu Walker
 drive to Lake Woodley
 Lu Woodley 10-30 drive
 to NE Cor Lot-1. Walk
 S to SE Cor Christisons
 N $\frac{1}{2}$ Lot 1. Chain W 33 ft.
 set I.M. @ The NE Cor set I.M.
 go N 100 ft. Turn 60°
 Right Site S + Turn 90° 35'
 and run west bet. lots 6-7 -
 @ 33. set I.M. @ 94 hub
 $+122 = 216$ pin $+142 = 358$ set
 $\frac{3}{4}$ " I.M. + 33 set $\frac{3}{4}$ " I.M.

Christison

(41)

Lot 1-8-140-27

123

March 30-1949

Glen + I drive to Woodleys get
Jake drive to $\frac{1}{4}$ Cor. N side Sec. 8
140-27 where we finish cutting
out Lot lines and setting I.M.s
at Lot corners we finish at 2:30
at the $\frac{1}{4}$ Cor bet. Sec 5 + 8 we
pull up 60# spike and drive in
its place a $2\frac{1}{4} \times 30$ " Iron Pipe
with New B.T. as follows.

Birch 5 S $44^{\circ}10'E$ 53.00 feet

Birch 6 N $29^{\circ}13'E$ 45.40 "

To spots at base of both Trees

Glen + I stop at farm House
on the way home where I get
13 lb. of Navy beans for \$1.00 for my-
self and 7 lb for Glen for 50¢
I get $1\frac{1}{2}$ bu. spuds for \$1.50 for my-
self, but give Glen a sack when we
get home as he is out.

May 7-1949

Allen & I drive to Woodhys
Then to Christison's

Christison wants $S\frac{1}{4}$ Cor
bet Sec. 4-5.

Jake - Allen & I drive to
 $\frac{1}{4}$ bet 4-5 where JWC notes
on page 62 This Book 243

Call for NP 20 N $26^{\circ}40'E$ 82.13 OK

N.P. 16 S $46^{\circ}35'W$ 59.10 gone

N.P. 8 S $87^{\circ}12'E$ 54.50 OK

We chain in from the two tree
still standing green dig down
7 inches & find 2" pipe set by
J.W.C. for True $\frac{1}{4}$ Cor bet Sec 4-5
140-27

Now I M $\frac{1}{4}$ Site son Sec cor
4-5-8-9 and take a New Tie
NP 20 N $57^{\circ}06'W$ 117.4 To spot at
base in Sec 5

We set a red flag @ True $\frac{1}{4}$
and chain S 300 pin @ 600 pin
@ 900 pin 1200 at 60 & spike Not on line
@ 1500 at 40 & spike Not on line

apik 12 + 1500 are to chain from
later

@ 1800 pin @ 2100 pin @ 2400 ft
@ 39.8 = 2639.8 IM Sec, Cor,

From apik 1200 S chain S 119.9
to 1319.9 out apik for S $\frac{1}{16}$ Cor
bet. Sec 4-5

Ties to S $\frac{1}{16}$ =

N.P. 16 N $35^{\circ}47'E$ 70.40 in sec 4
N.P. 12 N $71^{\circ}54'W$ 96.80 in sec 5

Still @ S $\frac{1}{16}$ Cor site S Turn
R $89^{\circ}43\frac{1}{2}'$ and run west
@ 64.1 apik back.

Brookmans
Linden Beach.

June 14-1951

L. Vincent-Routel Backus, Phone 15F111
Backus - New Owner Brookmans
Linden Beach on Inguadonga Lake

Fred & I Lv Walker @ 10-30 about
drive to Longville Fred pays .80
for our lunch drive to Brookmen's
Beach Tower hub 597.8 m.

page 90 this book also pg. 61 book 454
site W of $\frac{1}{4}$ Cor Turn R. 90° run N. 33 ft
set spike N side of prop road

Walk, W. Tower W $\frac{1}{4}$ Cor site E on hub.
597.8 Turn L 90° run North @ 127 ft
set spike pt. for I M @ 1

(Note) 137 ft shown on plat would put
this I M on sand beach.

Tower pt 33 ft E of W $\frac{1}{4}$ run N
@ 33 ft for lot cor. + 104 ft find
our old 60 ft spike lot cor. this is East
side of N4S Street to the Lake

Home @ 6

$$\begin{array}{r} 218.5 \\ 123.5 \\ \hline 342 \end{array}$$

June 15-1951

I drive to Inghadonna Lake
South end. go to N. line of Brookman's
Linden Beach where I find 60"
spike 75 ft from IM on Lake shore
this Spike is in the E of easement
road.

Over SE Cor of Lot 1 site $N 42^{\circ} 52' W$
on NE cor lot 1 and run $S 47^{\circ} 08' W$ along
the NW side of Street thru wet ramp,
~~@ 100 set stake @ 200 set stake @ 300 set stake~~
~~+ 107.5 set stake @ 218.5 stake @ + 125 = 343.5~~
@ 100 stake @ 200 stake + 107.5 spike
+ 111 spike + 125 spike IM set
R. $4^{\circ} 05' / 108.8$

 $4^{\circ} 05'$ Sine $071207 \times 108.8 = 7.75$ Cosine $997462 \times 108.8 = 108.5$ Tang. 071389

Sec 24 - 1/4 - 28

544819W
5492E
539327

5492E
2302.09N

7840
810
7430

76
S 78° 40' W 5556.54

MC 910.14

15137

543272 $\sqrt{375.87.00}$ 107286773 = 4010'

269841
N 1° 03' E 5396.82
230274

76° 50'
5442.72
1918 - AME
T 141 R 28
Sec. 24

brass cap
galvanic cap

N 0° 38' E 2723.16

See page 153

2731.09W
S 75° W 5654.75 - 282738

N 1° 22' E 230274

Sine 023851 X 230274 = 5492 E
Cosine 999716 X 230274 = 2302.09 N

539327W
4945W
544272

S 78° 40' W 5556.54

2497.96
230207
395.87

Sine 980500 X 5556.54 = 5448.19 W
Cosine 196517 X 5556.54 = 1091.95 S

544819
4945
549764

S 1° 03' W

Sine 018325 X 2698.41 = 49.45 W
Cosine 999832 X 2698.41 = 2697.96 S

See Page 153

Fred ^{Nickels?} Don + I + Lu Walker drive
to Vincent's road bet. Hackensack +
Backus Lv descriptions drive to
Ponto Lv description with James Terry
drive to Govt Lot 2 Sec 24-141-38
Mr Sands + I take boat over lake
to I.M. Brass Cap. Marked 1918-AMC

7141-430
Sec 24

have lunch go to $\frac{1}{4}$ Cor E side
Sec. 24 Where we find a Hal. Capped
IM also a Brass capped US IM which
set on N side of Hal. INI as close ^{together} as
caps will let them set. Sands + I
walk N + W but do not find
NE cor Sec 24 or MC on N side
of Sec. 24. Fred + Don cut brush
Sands + I return to $\frac{1}{4}$

Turn Halv IM run N $1^{\circ}22'E$ as
near a I can without anything to
turn angle from. We cut line
until almost 6 - beat it for cor
which we left at Sands Breezy Way
Resort Rain comes before we get to cor
home about 7-40

Aug 19-1952

I pick up Fred & drive to
Breezy Way Resort on Long Lake
in Sec 24-141-28

We continue the Range line,
North bet Rges - 27-28 on E side,
Sec. 24 dinner @ Sands @ 10 o'clock
PM.

Sands goes and continues
line Fred & I go to $\frac{1}{4}$ I M
and chain our line N, beg at
our old Galv. I M which sets 25'
S of US Brass capped I M.

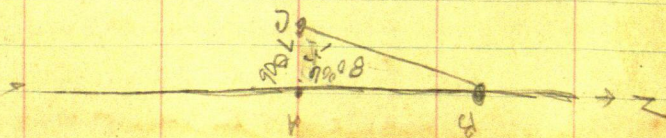
@ 215.1 hub 60' a pit
 $+ 25 = 240 \pm$ enter ramp NE, S.W.

@ 220 pin $+ 300 = 520$ pin LV SWP.
E & W about 40 ft W of NE cor of ramp

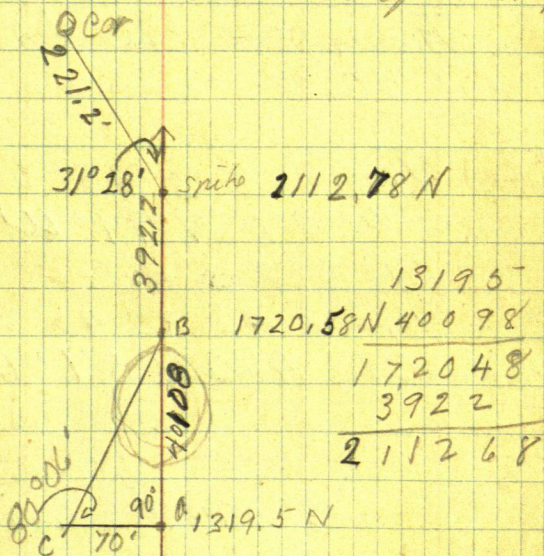
$520 + 211.5 = 731.5$ hub 60' a pit
 $731.5 - 40 = 691$ cross old road.

$731.5 + 300 = 1031.5$ pin $+ 288 =$
 1319.5 hub 60' a pit on top

Turn 1319.5 Turn 90° run W



$\Delta @ 1319.5 = A$ sit. N on Flag B
 Turn 90° L-W 70 ft to C
 Tower C - angle from A to B = $80^\circ 06'$
 From B continue chaining
 Range line N @ 126.00 but 60 ft up
 $+ 266.2 = 392.2$ but 60 ft up at top



$80^\circ 06'$

$$\tan 5.729742 \times 70 = 400.98$$

$90^\circ 54'$

$$\tan 9.174528 = \frac{1}{4} \text{ cot}$$

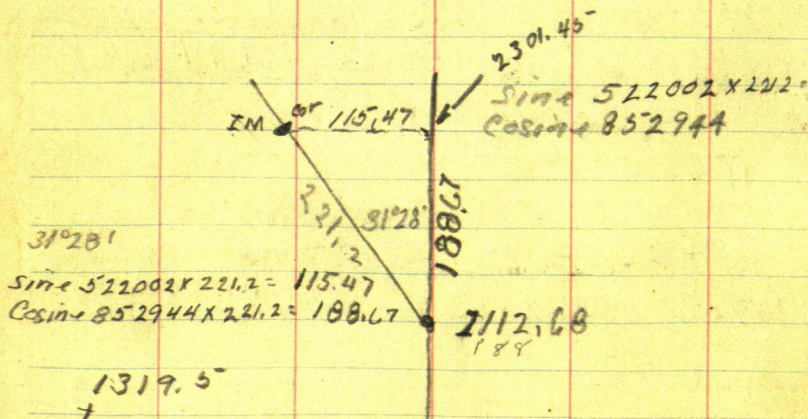
Aug 20 - 1962

Pick up Fred 9-10 drive
to Long Lake Sec. 24-141-28
arrive @ 9:55

Tower 392.2 IM sets L or W
N 31° 28' W 221.2 ft

Tower IM site N 59° 41' E on
old B.T. W.P., 29.85

Ties: S 89° W
W.O.G N 91° W 25.95
R.O. 7 S 41° 25' W 13.40
Birch 45 S 24° 45' E 32.45
Old W.O. 16 S 1° W 15.00



See Page 153

$$2301.46 \div 115.47 = 20.52' +$$

$$22$$

$$374$$

dinner @ sands Breezy Way Resort
I fig where to run E & W of Sec 14
P.M.

Turn $\frac{1}{4}$ Cor E side Sec 24 on Range
line

Ties

Birch 5 N $67^{\circ}50'W$ 19.4 to spot 3 flap.

Birch 6 S $31^{\circ}30'E$ 15.1 spot of base

At $\frac{1}{4}$ site N on random line

Turn L or W $2^{\circ}52'$ to where True Rge
line should be The rge line runs
N $1^{\circ}22'E$ so From Range line

Turn and run S $74^{\circ}30'W$ on random
E & W of Sec 24-141-28 @ 100 stake

+ 258.2 = 358.2 hub 60' spike

@ 360 stake + 300 = 660 stake + 110.7 =

770.7 hub 60' spike + 770 + 300 = 1070

stake + 78.8 = 11488 hub 60' spike

See Page 153

Aug 21 - 1952

Fred + I Lu Walker 9-drive
to Brey Way on long Lake
Sec 24 - 141 - 20

beg at hub 1148.8 continue
E + W & Sec 24 - West.

@ 1170 enter ramp @ 1410 Lu
susp @ 1448.8 pin + 11.7 = 1460.5
hub 60° spike in & trail N + S + 2673
1727.8 hub 60° spike

Note: as I started this E + W & Sec 24
by running S 74° 30' W I find it should
have run S 74° 43' W

@ hub 1460.5 I chain N 5.50 &

set 60° spike on True E + W &

@ hub. 1727.8 I chain N + set 60°
spike 6.5 ft. on True E + W &

Then corrected hub 1727.8

BS on corrected hub @ 1460.5

and continue W. @ 199.8 & road

@ 2021.00 hub 60° spike @ 2027.8
pin + 295.5 = 2323.3 hub offset 1 ft
South to get by 24" N.P. tree @ 2375 &
24" N.P. - at 2327.8 stake + 118.8 =

2446.6 spike on True E + W & Sec 24

1723

20278

137

See Page 153

at for T.M. 15 ft E of Water 10 ft S of Water
of Long Lake.

Tower hub 2021 W Site N 74° 43'
E and run along NW edge of road
N 36° 47' E 134.8 = 60 ft from Road
Sta 1 That Sta 1 BS S 36° 47' W run
N 40° 38' E 167.08 Sta 2 hub 60 ft from Road

Tower Sta (2) BS S 40° 38' W,
Cabin SW cor bears N 74° 08' W
" SE cor " N 40° 09' W
Sta (3) bears. N 19° 34' E 120.0

Tower (3) BS S 19° 34' W
SW cor Cabin bears. S 48° 02' W
SE " " " S 48° 58' W
NE " " " S 57° 50' W

Main building
NW cor N 49° 08' W
SW " N 36° 07' W
SE " N 8° 37' E

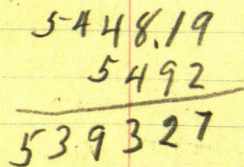
24X42 ±

From Sta (3) run S 72° 20' W 213.7

to Sta 4 on Lake shore 15 ft from Water

Main building NW cor N 55° 28' E
SW cor N 61° E
SE cor N 66° 41' E

See Page 153



✓ 3782 -
14605
18910
224920
15728110
3782111
55236

Building

NW Cor $N 85^{\circ} 45' E$ SW " $S 78^{\circ} 12' E$ SE " $S 73^{\circ} 09' E$

Cabin

SW Cor $S 6^{\circ} 42' W$ 58.8NW Cor $S 15^{\circ} 09' E$ 44.00NE Cor $S 22^{\circ} 47' E$ 61.00

18X24

Aug 22 1952

Fig until 12 PM

1460.5

1904

54.5

See Page 153

141

Aug 23-1952

Up early fig until 10 am pick
up Fred drive to Longville have car
fixed 2.45 drive to Brezy near Resort
Tower Sta 4 BS N $72^{\circ}20'E$ + run
S $45^{\circ}23'W$ 260 ft to Sta 5 - water 15 R

Tower Sta 5 BS N $45^{\circ}23'E$
run S $53^{\circ}02'W$ 270 ft to Sta 6 water 10 R

Tower Sta 6 BS N $53^{\circ}02'E$ run
S $36^{\circ}34'W$ 63 ft to pt for Mc con
E + W 2446.6 W of $\frac{1}{4}$ cor E side Sec 24

Back on Sta 4 BS N $72^{\circ}20'E$
run N $35^{\circ}46'E$ 281.2 to Sta 7¹⁵ W 20
Tower 7 BS S $35^{\circ}46'W$ run N $17^{\circ}56'E$
280 ft to Sta 8 - 25 ft from water

PM

Tower hub 14605 run E on random
line 54.5 Turn 90° run 5.33 and set 60 ft
spike for $\frac{1}{16}$ Center W $\frac{1}{2}$ Sec 24

A @ 1406 on Random BS N $74^{\circ}30'E$
and run N $1^{\circ}01'E$ on true E $\frac{1}{16}$ line
miss cor. 1.6 continue over ramp to
high land set pt. Set hub 1.6 W of pt
Tower hub BS on cor + continue
W $\frac{1}{16}$ line North

See Page 153

from the chain N on E Kulina

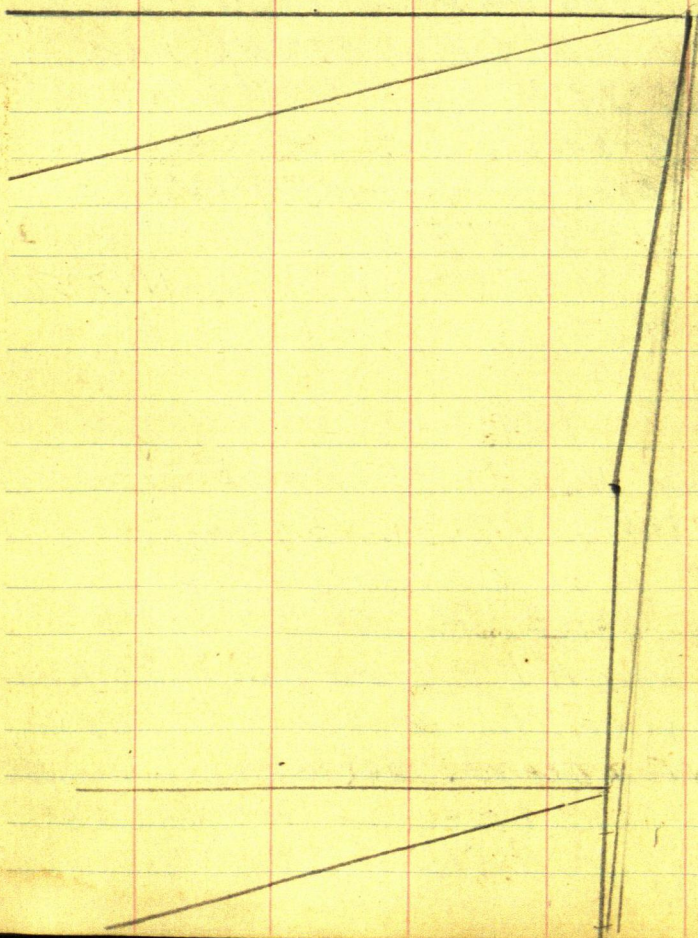
300 pin in bog @

@ 462.8 hub under T + 332.8 =

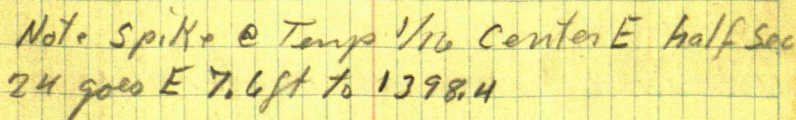
795.6 to flag ^{@ 430 LV bog} over swamp wet.

@ 735 enter wet swamp 795.6 + 117.6 =

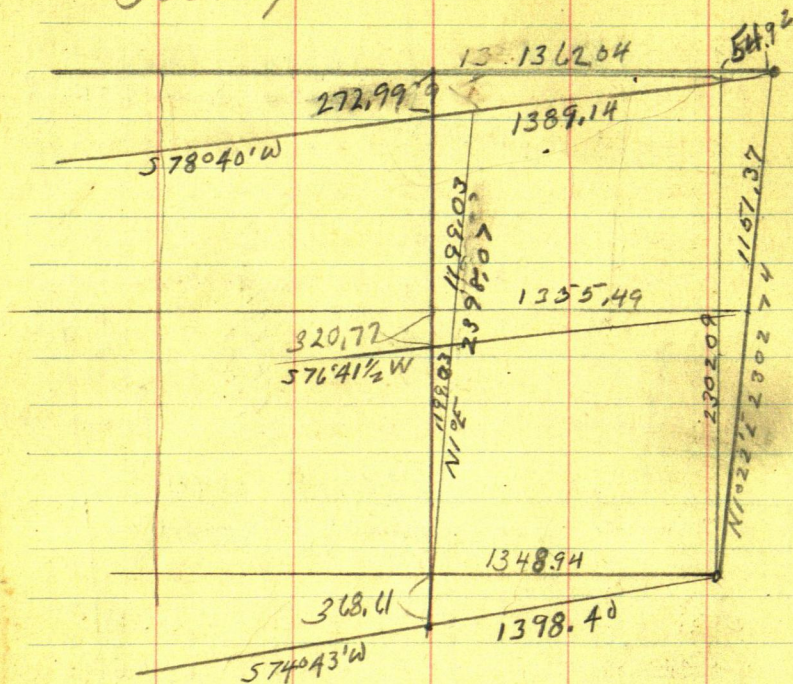
913.2 hub 60' spike



143



See Page 153

Correction $E \frac{1}{16}$ line $N 0^{\circ} 01'$

Sine .000291 x

Cosine 1. x

 $E \frac{1}{16}$ Cor. goes E 7.6 ft

hub 462.8 N goes W.13 to line then 7.6 to True line

" 913.2 N " W.27 to line then 7.6 to True line

"

Note the $E \frac{1}{16}$ line was run $N 1^{\circ} 01' E$
 from spike 7.6 ft too far west and said
 the line should have run $N 1^{\circ} 01' E$ and Not $1^{\circ} 01'$

See Page 153

Aug. 28th 1952 Thu

Fred & I Lu Walker around 11 o'clock
drive to Breezy Way Resort on Long Lake
in Sec 24-141-28 have lunch
walk to E $\frac{1}{4}$ line

Turn hub 913.2 N on E $\frac{1}{4}$ line
Turn 90 and chain E 7.6 - .27 and
set 60' spike on True E $\frac{1}{4}$ line
@ hub 462.8 we chain E 7.6 - .13
set 60' spike on True E $\frac{1}{4}$ line Sec 24
Town corrected hub 913.2 site S
on corrected hub 462.8 + run North
1° E along E $\frac{1}{4}$ line 913.2 + 260.75
= 1173.9 hub. 60' spike in E road
+ 242.8 = 1416.7 hub

from 1173.9 chain N 25.13 to
1199.03 set spike for $\frac{1}{4}$ Cor Center NE $\frac{1}{4}$
Sec 24

from hub 1416.7 chain N + 152.25 -
1568.95 hub + 304.9 = 1873.85 hub
at for I M 10 ft from Water of Long Lake

Turn 1199.03 N site N 1° E and run
S 76° 41½' W

See Page 15-3

Aug 29-1952

Up early Bert goes to work @ 4-30

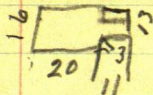
I work on plat until - 9- Pick up

Fred & we drive to Breezy Way Resort
in Sec. 24-14T-28 R. 10.

Tower sta 7 on lake shore - BS

S $35^{\circ}46'$ W on Sta 4 Take cabin

N of Main Cabin

NW Cor S $79^{\circ}44'$ E 69.25-S W Cor S $62^{\circ}58'$ E 67.5-S W Cor S $54^{\circ}12'$ E 71.8

Next Cabin N

S E Cor N $54^{\circ}41'$ ES W Cor N $48^{\circ}44'$ ENW Cor N $43^{\circ}47'$ E.Tower Sta 8 BS S $17^{\circ}56'$ W on 7 run
N $3^{\circ}09'$ W 149.35 to Sta 9 - Water 20 LTower Sta 9 BS S $3^{\circ}09'$ E run
N $24^{\circ}35'$ W 95.2 to Sta 10 Water 15 L

Low land starts about

Tower Sta 10 BS S $24^{\circ}35'$ E on 9 & run
N $40^{\circ}06'$ W 145.6 to Sta 11 Lake 20 L
water 15 R + 25 Low land wet

19.9

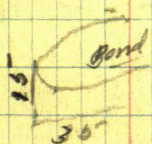
147

2523

See Page 153

$$\begin{array}{r} 23 \\ 84 \end{array}$$

Town Hall BS S 40° 06' E on 10 + run
 N 75° 31' W to spike on N line Lot 2?
 @ 110 highland L 15' Lake 40 R water
 @ 252.3 spike on N line Lot Lake 15' E
 75 ft A. water @ 65 ft pond extends N
 35 ft



See Page 153
Fig.

Sta 00 = SE Cor lot 2 - Sec 24-141-28

Sta 0 - 164.115
600.58 W run N36°47' E 134.8 Sine 598791
Cosine 800906Sta 1 run N40°38' E 167.08 Sine 651216 x 167.08 =
Cosine 758893 x 167.08 =Sta 2 N19°34' E 120 Sine 334903
Cosine 942152Sta 3 S72°20' W 213.7 Sine 303479
Cosine 952828Sta 4 S45°23' W 260. Sine 702360
Cosine 711822Sta 5 S53°02' W 270 Sine
CosineSta 6 S36°34' W 63. Sine
Cosine

NE E & W

Sta 4 = run N35°46' E 281.2 Sine
CosineSta 7 N17°56' E 280. Sine
CosineSta 8 N3°09' W 149.35 Sine
CosineSta 9 N24°35' W 95.2 Sine
CosineSta 10 N40°06' W 145.6 Sine
CosineSta 11 N75°30' W 252.3 Sine
Cosine

Sta 12 = spike on N line Lot 2 at lake.

$$\times 134.8 = 80.72 \text{ E}$$

$$\times 134.8 = 187.96 \text{ N}$$

$$108.81 \text{ E}$$

$$124.79 \text{ N}$$

See Page 153

Tower hub 2021 W site E on Etw &
 Van @ N 74°43'E run. N 44°06'E
 along W side street 274.3 sta (A) A.P. st
 Tower A B.S. S 44°06'W on sta O. run
 N 64°47'E @ 33 in line with highline poles
 36 ± W of end pole @ 65 cross Hiline to
 Mesort 67 & old road @ 174.1 sta B. A.P. st
 run N 5°02'E 193.1 to sta C A.P.
 25 ft W of ramp

see Page 153

157

Sec 24-141-28 Govt Lots 1-2

Sept 3rd. 1952

pick up Fred + Lu Walker @ 9.30
drive to Breezy Way Resort on Long lake
in Sec. 24-141-29 arrive @

Tower hub 187385-N on E Xilin on
shore of Long lake 10 ft from water

Tower hub 1873.85 BS S1°00'W on
random E Xilin line + run shore line of
Govt lot 1 Sec 24-141-28 run

N47°11'E 100 ft to spike 10 ft South of
from water edge point X

Still @ 1873.85-N run S48°54'W
100 ft to Sta @ 10 ft from lake

Tower @ BS N48°54'E + run S60°01'W 110
ft to Sta @ water 10 R.

Tower Sta @ BS N60°01'E run S.54°36'W
130 ft to Sta @ water 15 R.

Tower Sta @ BS N54°36'E run S.67°45'W 135 ft
to Sta @ water 6 ft R.

P.M. Tower Sta @ BS N67°45'E run S49°02'W
170 ft to Sta @ water 6 ft R.

Tower Sta @ BS N49°02'E run S.42°48'W
500 ft to Sta @ 100 water 10 R @ 300 W 10 R
@ 400 water 10 R @ Sta @ water 20 R

See Page 153

$$\begin{array}{r} 110. \\ 49. \\ \hline 105.1 \end{array}$$

Town (F) BS N 42° 48' E run S 62° 39' 155'
ft to Sta (G) on point @ 100 water 6 ft

@ 140 water 6 ft. @ Sta G water 15 ft

6 ahead point NE 20 ft

T still @ (F) run S 29° 11' E 90 ft
to Sta (H) water 15 ft L

Town Sta (H) BS N 29° 11' W run S 80° 32' W
130 ft to Sta on point water 6 ft

Sta G sets NE? 60.7 ft.

T still @ (H) spike on N line of Lot
2 bears S 62° 14' E 105.1 ft.

Town 60° spike on N line BS
N 62° 14' W on Sta (H) - still bears
S 75° 58' E

hub on N line bears N 76° 12' E

From hub on Lake chain E on N $\frac{1}{4}$
line @ 190 over pond @ 200 pin + 201 =
401 but on top + 347.35 = 748.35 hub
60° spike Tamp $\frac{1}{4}$ Center NE $\frac{1}{2}$ Sec 24

Check on Acc.

Walker Minn

First National Bank
of Walker

Sept 3-1962 No 2

Pay to
order

Harold Euro

200 00

for surveying

Mrs Paul Sand

Correction E $\frac{1}{16}$ line

Temp $\frac{1}{16}$ cor center NE $\frac{1}{4}$ @ hub
1199.3 N goes south 51.40 ft
and East 13.86 to true point for $\frac{1}{16}$ Cor

Correction of E $\frac{1}{16}$ line

N $1^{\circ}10\frac{1}{2}'$ E true line - N 1° E Random =
N $0^{\circ}10\frac{1}{2}'$ E 1199.3

Sine $.0030545 \times 1199.3 = 3.66$

Cosine $.9999955 \times 1199.3 = 1199.29$

Tang. $.0030545$

N $0^{\circ}10\frac{1}{2}'$ E 1873.85

Sine $.0030545 \times 1873.85 = 5.72$

Cosine $.9999955 \times 1873.85 = 1873.84$

Sept 16 - 1952

Hub 2446.6 on random E & W $\frac{1}{4}$ at Lake Shore goes South 80.62 and East 24.84 to point on True E & W $\frac{1}{4}$

Spoke on E & W $\frac{1}{4}$ @ 1406.11 goes South 47.27 and East 10.18 to point for true $\frac{1}{4}$ cor center E $\frac{1}{2}$ Sec 24

Spoke hub 1199.03 N Temp $\frac{1}{4}$ Center NE $\frac{1}{2}$ Sec. 24 goes South 46.36 then East 12.99.

Tower 2446.6 site N $36^{\circ}34'E$ on Stab and run South 80.62 Tower 80.62 run East 24.84 to point Tower point run S $72^{\circ}45'W$ 65 to lake at IM 10 ft from Lake Me.

Tower IM on E & W $\frac{1}{4}$ Sec 24 Site S $72^{\circ}45'W$ run N $37^{\circ}22'E$ along road, 56.7 ft to IM AR L & A

Carl O. Peterson
Ingluadonia Lake

Peterson May 28-1955

Ed & I & Walker drive to
Longville see Game warden
on to lot 2 Sec 8-140-27go from S $\frac{1}{2}$ Lot 1 to SW cor
lot 2 by boat across up old
S. line lot 2 old notes say
at 2671.5 hub @ 2851.9 IM

2671.5

1804

We find my old 60" spike hub
@ 2671.5 W. Tower I.M. siteEast at 90° and run N $11^\circ 25' W$
N $11^\circ 25' W$ 200

Sine 197942

Cosine 980214 into 200 = 204.04

from 2671.5 chain rough East
300 to 2371.5 - + 264

264

From old trail

2107.5 chain W

1444

2251.9

600

2851.9

2851.9

2107.5

744.4

180.4

564.0

157

Sec. 8.-140-27

2

Tower 2251.9 W = 600 E of IMME
 Turn 90° and run N @ 200 hub pt
 for IM. @ 400 hub point for IM
 Tower 200 Turn 90° and run W
 set hub in swamp and quit account
 of rain.

May 29th 1955 Sunday

Don + I Lr Walker @ 7.25 arrive
 at Peterson S $\frac{1}{2}$ Lot 1 Sec 8-140-27
 @ 8-20. find Bob Peterson still
 in bed. have to wait for him.

Tower 400 Turn 90° + run W to
 the Lake move T S 200 ft to hub
 in swamp and continue the line
 to the Lake.

Making two tracts of land 200
 ft wide each and 600 ft + long.

Inguadona Lake

Carl O. Peterson

Don & I to Peterson drive to Frances
McKennys then to Land Agents then
back to Peterson. look for old hubs
along old section lines find nothing
at dark find spike set for NW Cor
lot 2. home at 8. find Ed hunt

Aug 15 - 1955 -

Don & I to Inguadona
see 8 - arrive at 9:00 AM
set flag at spike S.W. Cor
flag at S.E. Cor I.M. work π
on line find spike @ 142.9
Kover 142.9 site on flag at 16 kg.
at flag at pt where old hub set
53.9 ft from N.E. spike Look for
spike at 53.9. We find spike 53.9
but not in place as I can not
set the stake marked 500 from either
point and as said stake marked 500
is the point from which the land
to be conveyed starts I set a hub
60 ft spike in E road leading to lake
Kover said hub in road site E on
N line lot 2 Van at 00:00 run

From N^W chain west 300 p^{er} take

$$\begin{array}{r}
 913.2 \\
 291 \\
 \hline
 9132 \\
 8218.8 \\
 18264 \\
 \hline
 2657412
 \end{array}$$

$$\begin{array}{r}
 350 \\
 265 \\
 \hline
 347.35 \\
 000
 \end{array}$$

18.9

3.

110.-110

$$\begin{array}{r}
 638 \\
 11739 \\
 291 \\
 \hline
 11739 \\
 105651 \\
 23478 \\
 \hline
 3416049
 \end{array}$$

$$\begin{array}{r}
 327 \\
 242.8 \\
 291 \\
 \hline
 2428 \\
 21852 \\
 4856 \\
 \hline
 .0706548
 \end{array}$$

134.8

3 2 7
242.8
291

2027.8
2955
23233

1460.5
545
060

332.8 T to F
4628
7956

2428
218.5-2
4856

0706 5-48

260 . 4

14167
291

14167
127.503
28334-97

4122 3 8
11739

291

11 99 03

1173.9

23-13

11739

105651

23478 4

341604

11
9 260

260.7
9132

11739
2428

14167

34
27
07

2 2
3 2428 7
291

2428
218.52
4856
0706 5-48

$$\begin{array}{r} 360 \\ 18 \\ \hline 268.2 \end{array}$$

$$\begin{array}{r} 14167 \\ 15222 \\ \hline 156895 \\ 30419 \\ \hline 1873 \end{array}$$

$$\begin{array}{r} 1.6 \end{array}$$

$$1.41.8$$

$$\begin{array}{r} 12024 \\ 1176 \\ \hline 2956 \\ 132 \\ \hline 14652 \\ 3236 \\ \hline 10473748 \end{array}$$

$$\begin{array}{r} 9132 \\ 291 \\ \hline 9132 \\ 821.88 \\ 18264 \\ \hline 263742 \end{array}$$

$$\begin{array}{r} 220 \\ 49 \\ \hline 2151 \end{array}$$

$$210 + 1031.5$$

$$\begin{array}{r} 288 \\ \hline 1319.5 \end{array}$$

$$\begin{array}{r} 23278 \\ + 120 \\ \hline 2447.8 \\ - 12 \\ \hline 2446.6 \end{array}$$

$$\begin{array}{r} 242.85 \\ 913.2 \\ \hline 1156.05 \end{array}$$

$$\begin{array}{r} 119903 \\ 115605 \\ \hline 43,00 \end{array}$$

248.85

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed—correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9 + (20 - 16) \div 2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 inside of front cover.

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