

447
Penworth
SERIES
REG. U. S. PAT. OFF.



WATERMARKED PAPER TO
INSURE UNIFORM QUALITY

Note Book

NAME _____

No. 3581

Bill Burnson
Lake Hattie 139-29

Nali: This Book
belongs to John W. Cuen
Walker

If lost finder please
return for reward

Jack Cuen
June 1972

Time P 7 50

②

Index

See Page 5

Time Sheet Page 56.

June 23-1943.

Pick up Doris Hagican

@ 45° on hour also

Verb Newlin @ 30° on hour

Lv Jenkins 9 AM.

Dike Lt Sue 30-139-29

Re-set R.R. spike for $\frac{1}{4}$

Cor bet 29-30-139-29

Use Old book 424 and

others Look for Hut

2954.4 Pg - Book 424

Holland Survey

Spike graded ^{out} & we set

New R.R. spike from old

BTS Book 224 -

Sta 1. is $\frac{1}{4}$ Cor

Sta 2. " Hut 2954.4

Set Red flag Halfonail

on line line sections

6

From Sta 2 check chain
North 313.1 To $\frac{1}{4}$ Cor O.K

From Sta 2 From North
on line in and run

N $54^{\circ}55'W$ @ 300-600 fm
 $+98.10 = 698.10$ To Sta 4

Chain back 153.23 To 544.77

To Sta 3 - $\begin{array}{r} 153.23 \\ 698.00 \end{array}$

Sta 3 - RR spike in & Road

544.77 West from $\frac{1}{4}$ Cor

East line assumed
as line north and south

$54^{\circ}55'$

Line 818317X

Cor 574767X

Tang $1.423736 \times 313.1 = 445.77$

Lat $702377 \times 445.77 = 313.10$

8.

9/10 3 Run
N 54° 55' W - 153.23 To Sta 4

Sine 818317 X 153.23 = 125.39 W

~~Cor 574767 X 125.39 = 72.07 N~~

Tang

Cor

35° 05'

Sine 573567 X 153.23 = 87.89 N

Cor ~~819152~~^{Cor} 818317 X 153.23 = 125.39

Tang 702377 X 125.39 = 72.

$$\begin{array}{r} 153.23 \\ 544.77 \\ \hline 698.10 \end{array}$$

$$\begin{array}{r} 3505 \\ 5455 \\ \hline 8960 \end{array}$$

$$\begin{array}{r} 544.77 \\ 153.33 \\ \hline 698.10 \end{array}$$

$$\begin{array}{r} 153.23 \\ 544.77 \\ \hline 0 \end{array}$$

OK Sta 4

$$\begin{array}{r} 445.77 \\ 125.47 \\ \hline 571.24 \end{array}$$

$$\begin{array}{r} 401.24 \\ 313.10 \\ \hline 88.14 \end{array}$$

TRY

9

35°05'

~~Sin 573567 x 153.33~~~~Cor 8191~~

TRY

~~Cor 818317 x 153.33 =~~

35°05'

Sin 574767 x 153.33 = 88.13 N

Cor 818317 x 153.33 = 125.47

35°05'

Sin 574767 x 698.10 = 401.24 N^{OK}

Cor 818317 x 698.10 = 571.27 W

$$\begin{array}{r} 445.77 \\ \hline 125.50 \end{array}$$
~~445~~

35°05'

Sin 574767 x 544.77 = 313.12

Cor 818317 x 544.77 = 445.79 W

10

818317

54477

445.79+

3/12 - 15 - 1914 N
S/16 3 is 445.77 W 1 + 00 N

4-15 698.10
544.77

818317

153.33
~~544.77~~
698.10

12

571.27
 445 77
125'50

153.33
 544 77
698.10
 401.24
 88.13
489.37
 40124
31310
 88.14

6°

1° 1.75
 2 3.50
 3 10.50
 4 7.00
 5 8.75
 6 10.47 + -

104.29
 88.13
16.16

90 108

OK - Try once more $\frac{1}{2}$

$$N 54^{\circ}55'W =$$

$$35^{\circ}05'$$

$$\text{Sine } 574767 \times 544.77 = 445.79 \checkmark$$

$$\text{Cor } 818317 \times 544.77 = 445.79 \checkmark$$

$$\text{Sine } 574767 \times 544.77 = 313.12 \text{ NG.}$$

$$\text{Cor } 818317 \times 544.77 = 445.79$$

$$\text{OK Tang } 702377 \times 445.77 = 313.10$$

$$\text{Cat } 1.423736 \times 313.1 = 445.77$$

$$\text{Sine } 574767 \times 153.33 = 88.13 \text{ N}^{\text{OK}}$$

$$\text{Cor } 818317 \times 153.33 = 125.47 \text{ W}^{\text{OK}}$$

$$\text{Tang } 702377 \times 125.47 = 88.13 \text{ N}^{\text{OK}}$$

Cat

$$445.77 \text{ W} +$$

$$125.47 \text{ W}$$

$$\hline 571.24$$

$$35^{\circ}05'$$

$$\checkmark \text{ Sine } 574767 \times 698.10 = 401.24 - 313.10$$

$$\text{Cor } 818317 \times 698.10 = 401.24 - 571.27 \text{ W}$$

- 3 Times checked

14

Sta 4 Run

~~S 88° 34' W 930.80 to Sta 5~~

S 88° 34' W 930.80 to Sta 5

= 6° 26'

104.295

Sine 112° 47' X 930.8 = ~~10.438~~

Cor 993703 X 930.8 = 924.94

Tang 112° 57' X 924.94 = 104.29015

cal

104.295
88 13 N

16.16

544.77
153.37

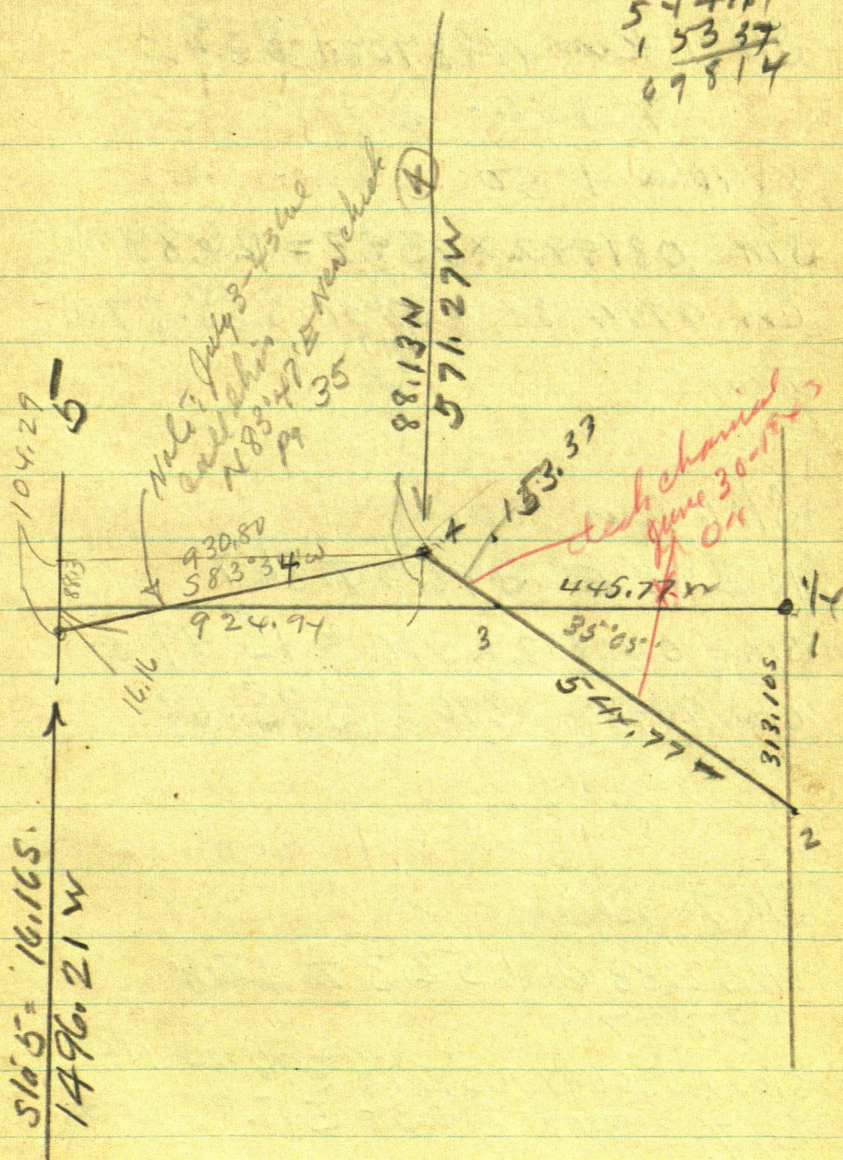
698.14

Sta 4 Run

104.29
88.13
16.16

15

544.77
153.37
698.14



16

~~Stat = 1/2 Cor B~~
~~Scout~~

Sto 5 Run N 88°10' W 839.3

To Sto 6 -

$$88°10' = 1°50'$$

$$\text{Sine } 031992 \times 839.3 = 26.85 \text{ N}$$

$$\text{Cor } 999488 \times 839.3 = 838.87 \text{ W}$$

Tang

Sto 6 Run

N 2°18' E 396.0 To Sto 7.

$$\text{Sine } 040132 \times 396.0 = 15.89 \text{ E}$$

$$\text{Cor } 999194 \times 396.0 = 395.68$$

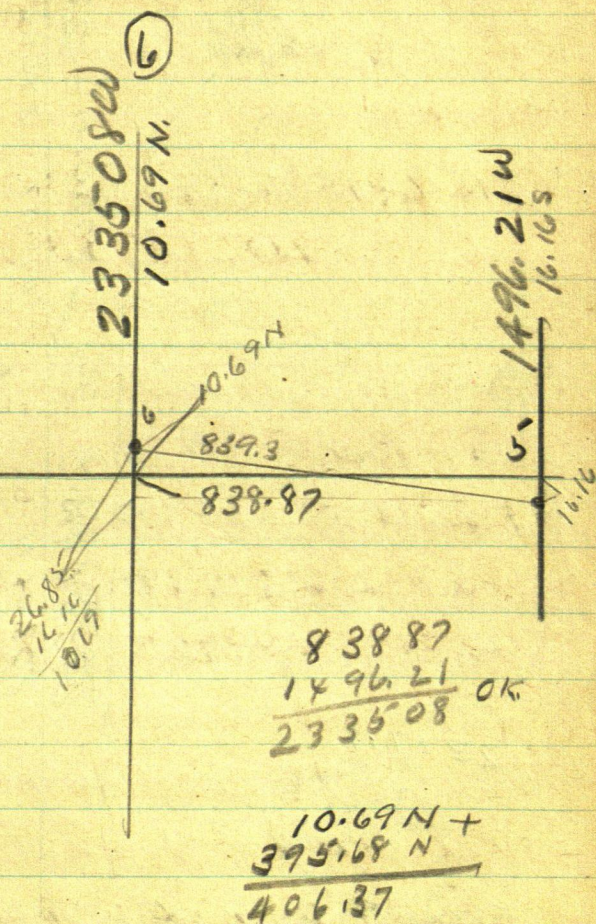
Sto 7 - Run

N 52°33' W 652.3 To Sto 8

$$= 37°27'$$

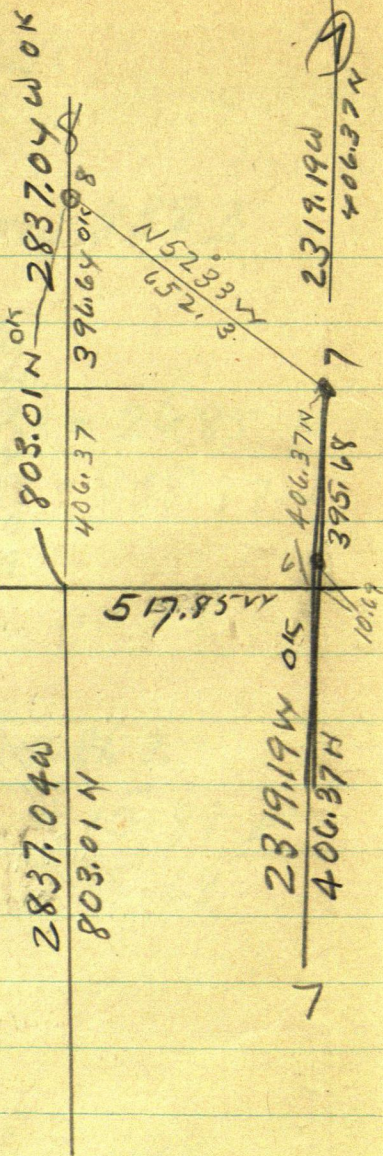
$$\text{Sine } 1608069 \times 652.3 = 396.64 \text{ N OK}$$

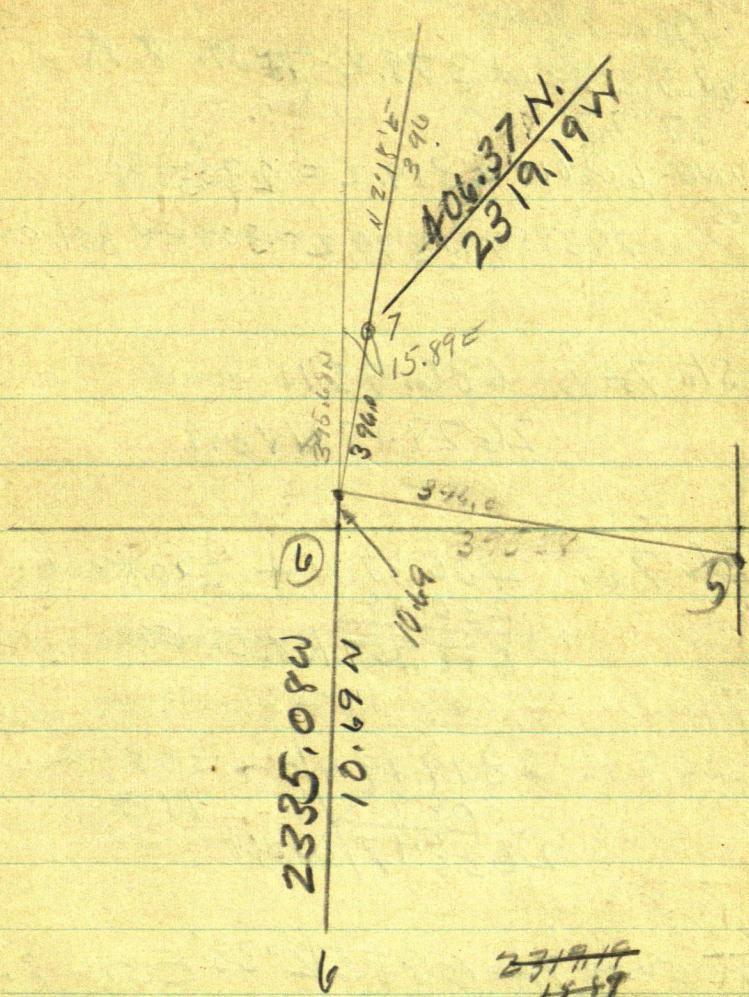
$$\text{Cor } 793884 \times 652.3 = 517.85 \text{ W OK}$$



18

2319.19





~~2319.19~~
~~15.89~~
~~2335.08W~~

 396.69
 406.37

 803.01

20.

Sta 7 Run

N $52^{\circ}33'W$ 379.2 To Sta 7. A
= $37^{\circ}27'$

SINE $608069 \times 379.2 = 230.58 N$

COS $793884 \times 379.2 = 308.98$ 301.04

Sta 7A is 636.95 N and
2628.17 West

Sta 7 is $406.37 N + 230.58$
 $\frac{230.58}{636.95}$ North OK

Sta 7 is $2319.19 W + 308.98$
 $\frac{308.98}{2628.17}$ West

Town (7A) BS-S $52^{\circ}33'E$ on 7.

Ties WP10 S $15^{\circ}10'15'E$ 21.70

Paplar 9-S $77^{\circ}20'W$ 22.60

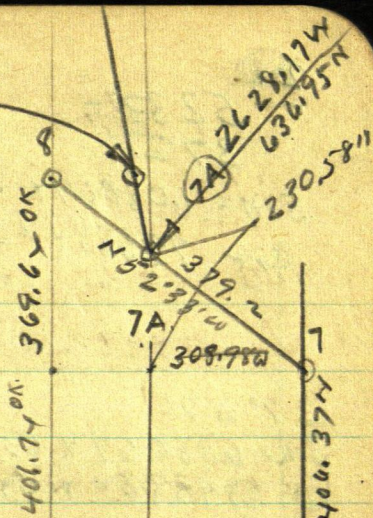
Sta 7-B bears N $11^{\circ}35'W$ 156.40

Sta 7-B. on top of hill bears

N $11^{\circ}35'W$ 156.40

Nix ?

(21)

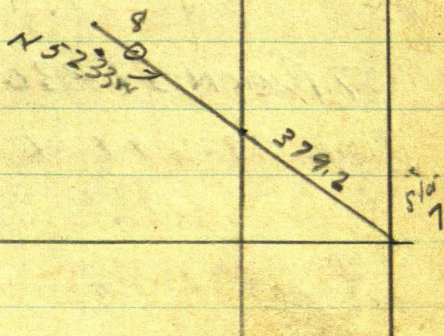


37'27"

$$\sin 1 - 608069 \times 379.2 = 230.58 N$$

$$\cos 793884 \times 379.2 = 301.04$$

2319.19 W
406.37 N



22

52°33' =

37°27'

Sine 608069 x 379.2 = 230.58

Cor 793884 x 379.2 = 301.04

37°27'

Sine 608069 x 652.3 =

Cor 793884 x 652.3 =

$$\begin{array}{r}
 2319.19 \\
 1587 \\
 \hline
 2335.08
 \end{array}$$

$$\begin{array}{r}
 2319.19 \\
 301.04 \\
 \hline
 2620.23
 \end{array}$$

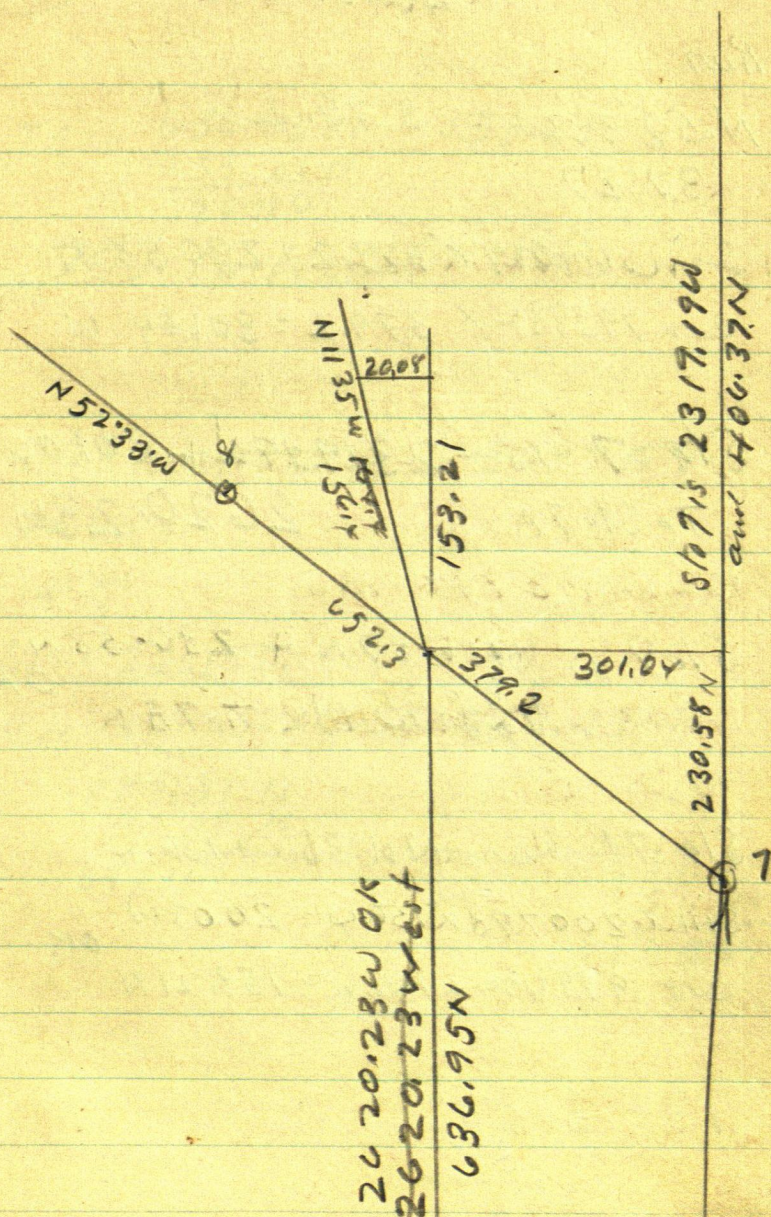
7 Run N 52°33' W 652.3

Sine 6080.69 x 652.3 = 396.64 + 406.37 = 803.01 N

Cor 793884 x 652.3 = 517.85 W

To Sta 8,

7 Run N 52°33' W 379.2



24

Try This

Sta 7 is 2319.19 W
406.37 N

Run

N 52° 33' W = 379.2
37° 27'

Sin 608069 x 379.2 = 230.58 N

cos 793884 x 379.2 = 301.04 W OK

Sta 7 is - 2319.19 W + 301.04 W OK
To Sta 7A 2620.23 W

Sta 7 is 406.37 N + 230.58 N =
636.95 N (7.7A) OK

Sta 7B been N 11° 35' W 156.4

Sin 200793 x 156.4 = 20.08 W OK

cos 979634 x 156.4 = 153.21 N

13 = 3055

54
3001
2650
5651

$$\text{Sta 7A is } 2620.23W + 25$$

$$\begin{array}{r} 20.08 \\ 2640.31 \end{array}$$

$$(7B) = 2640.31 \text{ West}$$

$$7A \text{ is } 636.95N + 153.21$$

$$\begin{array}{r} 153.21N \\ 790.16 \end{array}$$

$$790.16 \text{ North } OK$$

$$\text{Sta 8 Run } N 75^{\circ} 45' W \quad 368.8709$$

$$75^{\circ} 45' =$$

$$14^{\circ} 15'$$

$$\text{Sine } 246153 \times 368.8 = 90.78N$$

$$\text{on } 969231 \times 368.8 = 357.45W$$

$$803.01N$$

$$90.78N$$

$$\begin{array}{r} 803.01 \\ 90.78 \\ \hline 893.79 \end{array} \quad N \text{ Sta 7}$$

$$2837.04W$$

$$357.45$$

$$\begin{array}{r} 2837.04 \\ 357.45 \\ \hline 3194.49 \end{array}$$

26

$$9 = 3194.49 W \times 893.79 N$$

$$\text{Run } S 78^{\circ}08' W 299.2$$

$$= 11^{\circ}52'$$

$$\text{Sine } 205635 \times 299.2 = 61.53 S$$

$$\text{Cor } 978629 \times 299.2 = 292.81 W$$

$$\text{Sto } 9 = 3194.49 W + 61.53$$

$$\begin{array}{r} 61.53 \\ 3194.49 \\ \hline 3256.02 \end{array}$$

$$\begin{array}{r} 3194.49 W \\ 292.81 W \\ \hline 3487.30 = 56.10 \end{array}$$

$$9 \text{ N. } 893.79 N - 61.53 S =$$

$$\begin{array}{r} 61.53 \\ 893.79 \\ \hline 832.26 N \end{array}$$

$$\text{Sto } 10 = 3478.30 W$$

$$832.26 N$$

$$10 \text{ Run } S 37^{\circ}02' W 381.8 \pi 11$$

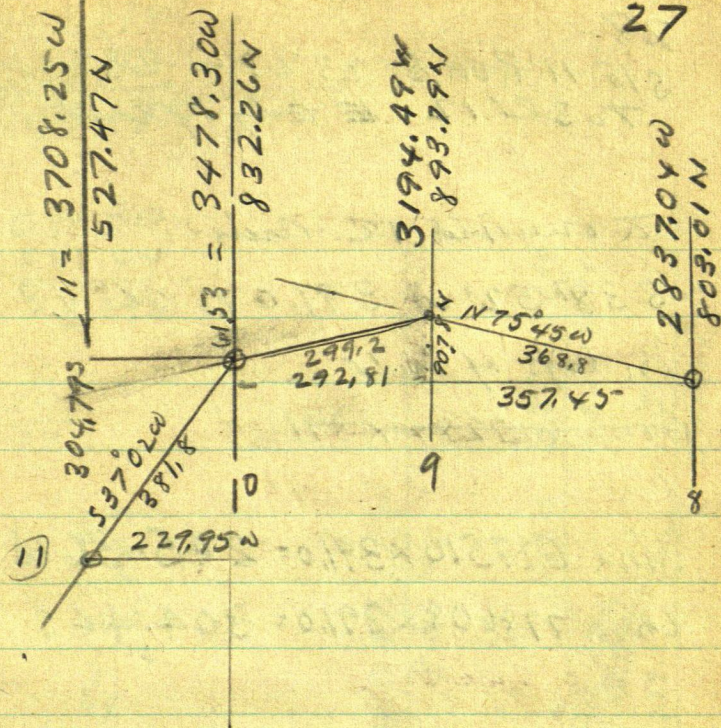
$$\text{Sine } 602280 \times 381.8 = 229.95 W$$

$$\text{Cor } 798285 \times 381.8 = 304.79 S$$

$$11. \text{ Run } S 23^{\circ}07' W 238.3 \pi 12$$

$$\text{Sine } 392605 \times 238.3 = 93.56 W$$

$$\text{Cor } 919707 \times 238.3 = 219.17 S$$



$$\begin{array}{r} \text{Sta 10 is } 3478.30W + 227.95 \\ \hline 3708.25W \end{array}$$

$$\begin{array}{r} 832.26N \\ 304.795 \\ \hline 527.47 \end{array}$$

$$\text{Sta 11} = 3708.25W \\ 527.47N$$

$$\begin{array}{r} 3708.25W \\ 93.56W \\ \hline 3801.81W \end{array} \quad (12)$$

$$\begin{array}{r} 527.47 \\ 219.17 \\ \hline 308.30 \end{array} \quad N \quad (12)$$

28

Sta 11 Run S $23^{\circ}07'W$ 238.370.12
To Sta 12, E Edge of road

Run over Sta 12 Run

S $38^{\circ}52'W$ 391.0 To Sta 13
on top of hill

~~Sin 627510 x 391~~

~~Cor~~

Sin $627510 \times 391.0 = 245.36 W$

Co $778608 \times 391.0 = 304.44 S$

From 13 Run S $88^{\circ}38'W$ 1371.2

To 14 $= \frac{1022}{89.00}$

Sin $023851 \times 1371.2 = 32.70 S$

Co $999716 \times 1371.2 = 1370.81 W$

From 14 Run N $88^{\circ}45'W$ 219.2 To 15

$= 1015'$

Sin $021815 \times 219.2 = 4.78 N$

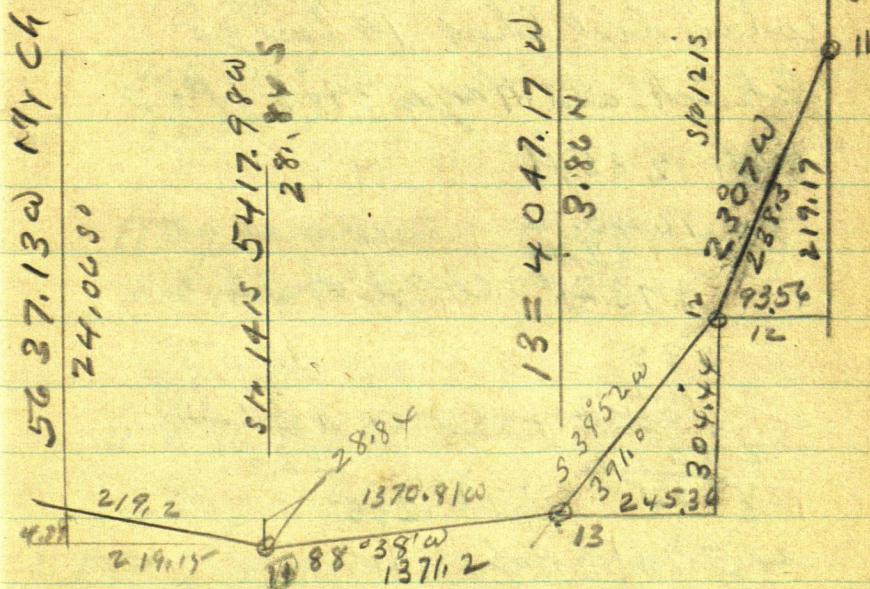
Co $999762 \times 219.2 = 219.15 W$

$$\begin{array}{r} 3801.81W \\ 245.36W \\ \hline 4047.17W \end{array}$$

$$\begin{array}{r} 4047.17W \\ 1370.81W \\ \hline 5417.98W = (14) \end{array} \quad 29$$

$$\begin{array}{r} 3081.30 \\ 304.44 \\ \hline 3.86 \end{array}$$

$$\begin{array}{r} 32,70- \\ 3.86 \\ \hline 28184 \end{array}$$



$$\begin{array}{r} \text{Sta 14 is } 28.84 S - 4.78 \\ 4.78 \\ \hline 24106 S \end{array} \quad \begin{array}{r} 5417.98W \\ 219.15W \\ \hline 5637.13 \end{array}$$

30

June 26-1943.

Figuring

I made a total of 5637.13

the 4 per 30 = 30 - 139 - 29

Hayes and I made 5651.0

5651.00

5637

14.

where did that 14 feet go

Check old Hayes book Pg 7

Ch 235 ft

7 = 1645. +

87.4

old total

1732.4

Ch = 7" Buck

235

13

705

235

3055

3055

191.3

3246.3

19

235

4571 P.P.

4930.7 = 6" Elm

21 = 4935.5

716

5651

Old Hayes Survey Rough 31
235 ft

$$St. 18 = 4230 \text{ ft}$$

$$19 = 4465$$

$$20 = 4700$$

$$21 = 4935$$

$$\begin{array}{r} 716 \\ \hline 5651 \end{array}$$

$$4700$$

$$951$$

$$5651$$

$$1079.3$$

$$4571.0$$

$$\hline 5650.3$$

$$\text{Hayes Ch} = 5651$$

$$\text{My Fig today } 5637^{13}$$

was the hell ?

$$\hline 14 \text{ diff}$$

Did Hayes hold top?

1 Did Hayes hold Chain ok?

2 Did I figure wrong 14 ft?

I will check the book

See Sta 7-B, Pg 25 This A4

32

Nat'l we should check
56 2 to 4. = 698.10

$$4 \text{ to } 5 = 930.80$$

$$5 \text{ to } 6 = 839.3$$

$$7 \text{ to } 8 = 653.3$$

$$8 \text{ to } 9 = 368.8$$

$$7 \text{ to } 7A = 379.2$$

$$1 \text{ to } 3 = 445.77$$

$$54^{\circ}55' = 35^{\circ}05'$$

$$\sin 57^{\circ}47'67'' \times 544.77 = 313.12$$

$$\cos 81^{\circ}83'17'' \times 544.77 = 445.77$$

$$\cot 1.423736 \times 313.1$$

$$\begin{array}{r} 401.24 \\ 313.10 \\ \hline 88.14 \end{array}$$

$$\begin{array}{r} 2685 \\ 1616 \\ \hline 10169 \end{array}$$

$$\begin{array}{r} 10429 \\ 8813 \\ \hline 16160 \end{array}$$

$$\begin{array}{r} 2335.00w \\ 13 \end{array}$$

Machine check ch
whale down line

33

570 = 88.14 OK
2 T. 4 = $35^{\circ}05'$
Sine $574767 \times 698.10 = 401.24 - 313.3$
CR 818317×698.10

4 T. 5 S $8334W = 6^{\circ}26'$ - 9030.80
Sine $112047 \times 930.8 = 104.29 - 88.13 = 16.16 S$
CR $993703 \times 930.8 = 924940$

5 T. 6 - 148870 W $839.3 = 1^{\circ}50'$
Sine $031992 \times 839.3 = 26.85 - 16.16 = 10.69 N$
CR $999488 \times 839.3 = 838.87$ OK W

6 T. 7 - N $2^{\circ}18'E$ 396
Sine $2040132 \times 396 = 15.89 E$
CR $999194 \times 396 = 395.68 N$

7 T. 8 N $52^{\circ}33'W$ 653.3 = $37^{\circ}27'$
Sine $608069 \times 652.3 = 396.64 N$
CR $793884 \times 652.3 = 517.85 W$

8 T. 9 N $75^{\circ}45'W - \overset{368.8}{368.8} = 14^{\circ}15'$
Sine $246153 \times 368.8 = 90.78 N$
CR $969231 \times 368.8 = 357.45 W$

9 T. 10 S $78^{\circ}08'W$ 299.2 = $11^{\circ}52'$
Sine
CR

June 27-1943

34

June 30 '1943

For

S

Take course to the

SP 105 81°58'W

Out 75 23°50'E

Run N 54°51'W

WEDNESDAY - JUNE 30 - 1943 -

LV 1 PM Out 9 PM - 8 hours

Doris & Jack Curo checking
angles & chain

(35)

π over station 2 focus North
on true line run $N 54^{\circ} 51' W$
to station 4

π over station 4 backsite $S 54^{\circ} 51'$
E and run $S 83^{\circ} 47' W$ to
station (5)

π over sta (5) backsite $N 83^{\circ} 47' E$
and run $NW 87^{\circ} 55' W$ to
station 6

π over station (6) backsite SE
 $87^{\circ} 55'$ and run $N 20^{\circ} 35' E$ to
station (7)

π over station (7) backsite $SW 20^{\circ} 35'$
and run $N 52^{\circ} 15' W$ to station 7A and
8

π over station (8) backsite $SE 52^{\circ} 15'$
and run $N 75^{\circ} 24' W$ to station 9

π over station (9) backsite $S 75^{\circ} 24' E$
and run $S 78^{\circ} 29' W$ and to station 10

T over station 10 backside NE
 $78^{\circ}29'$ and run S $37^{\circ}22'$ W
 to station (11)

T over station (11) backside NE $37^{\circ}22'$
 and run S $23^{\circ}26'$ W to station (12)

T over station (12) backside NE $23^{\circ}26'$
 and run S $39^{\circ}14'$ W to station
 (13) on top of hill.

T over (13) backside NE $39^{\circ}14'$
 and run S $89^{\circ}01'$ W to (14)

T over (14) backside N $89^{\circ}01'$ E and
 run N $88^{\circ}22'$ W to 15 = $1/4$ W side $5 \approx 30$

T over sta 7A - 7B bears N
 $11^{\circ}20'$ W. Note:— (Sta A appears
 to be $1/10$ too far North)

156.3

Doris & Hume 459
 83.60

JACK PICKETT

Piggot - 80 ACRES

N $\frac{1}{2}$ NE $\frac{1}{4}$ - 30-139-29-

Deep Lake

Hanksville

Deep Lake

- Pickled Sun Fish -

1 cup salt

1 qt. water

2 qts vinegar

pickling spices

1/2 box of spices

Boil 2 hours - put spices in a bag. Let fish come to a boil - skin remove from fish - Put fish in a crock & let it yell - Cut a few onions in it.

July 1-1943
Machine figuring
Sto 2 N 54° 51' W 698.10

39

N 54° 51' W 698.10

89.60
54.51
35.09

Sine 575719 x 698.10

Cor 817648 x 698.10

54.51

Sine 575719 x 544.77 = 4

Cor 817648 x 544.77 = 445.43

Tang 445.43 x 704.16 = 313.65

Cot 1.420220 = 444.67

54° 51' = 35° 09'

Cot = 1.420220 x 313.1 = 444.67 OK

Sine 575719 x 698.10 = 401.91

Cor 817648 x 698.10 = 570.08

Tang

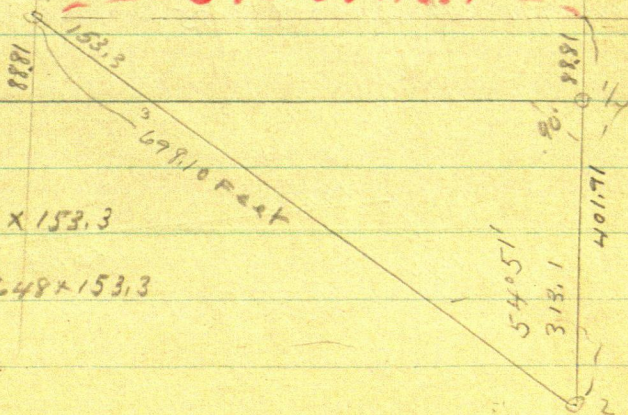
570.08
401.91
115.17
4

401.91
313.10
88.81

570.08 West

575719 x 153.3

Cor 817648 x 153.3



40 July 1-43 checking
4 to 5 583°47'W 930.8 to 5

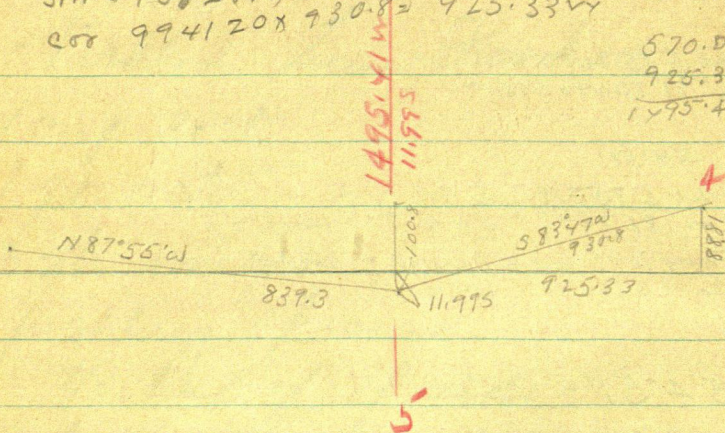
$$83^{\circ}47' = 6^{\circ}13'$$

$$\sin \angle 108289 \times 930.8 = 100.80 \quad 11.99$$

$$\cos 994120 \times 930.8 = 925.33 \text{ W}$$

$$\begin{array}{r} 100.80 \\ 88.81 \\ \hline 11.99 \end{array}$$

$$\begin{array}{r} 570.08 \\ 925.33 \\ \hline 1495.41 \end{array}$$



~~8 to 5 Run N 75°55'W 839.3 to 5 6 =~~
~~14°05'~~

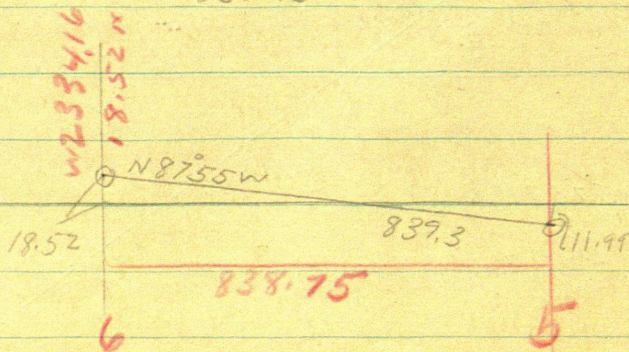
~~Sine 243333 x 839.3 = 204.23~~

~~cos 969943 x 839.3 =~~

5 Run N 87°55'W = 2°05'

$\sin \angle 036353 \times 839.3 = 30.51 - 11.99 = 18.52 \text{ N}$

$\cos 999339 \times 839.3 = 838.75 \text{ W } 838.75 \text{ W}$



$$\begin{array}{r} 105.10 \\ 88.18 \\ \hline 395.6 \\ 1852 \\ \hline 414.12 \end{array}$$

$$\begin{array}{r} 104.29 \\ 30.51 \\ 11.99 \\ \hline 18.52 \end{array}$$

$$\begin{array}{r} 428 \\ 22 \\ \hline 1495.41 \\ 1785 \\ \hline 1477.56 \end{array}$$

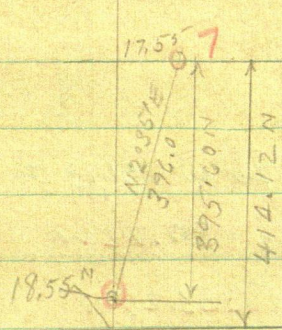
41

From Sta 6. Run N 23° 35' E 396.0 to 7.

$\sin 4 \ 0.45072 \times 396.0 = 17.85 E = 14$

$\cos 99.8984 \times 396.0 =$

$\cos 99.8984 \times 396.0 = 395.60 N + 18.52 =$
414.12 N



$$\begin{array}{r} 2334.16 W \\ - 17.55 E \\ \hline 2316.61 \end{array}$$

2334.16 W

$$\begin{array}{r} 2334.16 \\ 3944 \\ \hline 2358.60 \\ 2373.60 \end{array}$$

N 87° 55' W

41 July 1-43 Figuring

Mining Calculator

~~3216.61 W~~
~~515.93 W~~

~~3732.54~~

2316.61
515.93

2832.54

414.12

399.47

813.59

2316.61 W
299.83

2616.48 05

414.12
232.15

646.27

Sta 7A Run N 11° 20' W 156.3 To 7B

Pin - $196517 \times 156.3 = 30.72 W$

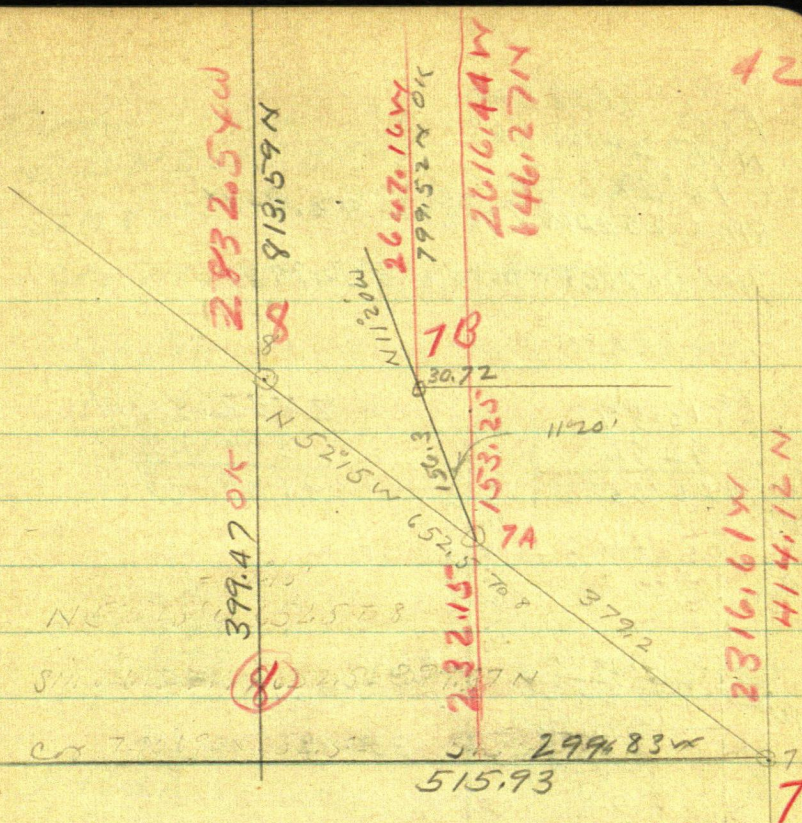
Cor $980500 \times 156.3 = 153.25 N$

S/O 7B is 2616.44 W
30.72 W

2647.16

7A is 646.27 N
153.25

799.52



$$N 52^{\circ}15' W 652.5' \text{ to } 8 = 37^{\circ}45'$$

$$\text{Sine } 612217 \times 652.5 = 399.47N$$

$$\text{Cos } 790690 \times 652.5 = 515.93 W OK$$

$$N 52^{\circ}15' W 379.2 = 37^{\circ}45'$$

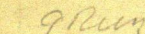
$$\text{Sine } 612217 \times 379.2 = 232.15N OK$$

$$\text{Cos } 790690 \times 379.2 = 299.83W$$

From Sta 8 Run
N 75° 24' W 368.8 To 9
= 14° 36'

$$\sin 252069 \times 368.8 = 92.9614$$

$$\text{Cor } 967709 \times 368.8 = 356.89 \text{ W}$$



$$587^{\circ}29'W/299, z = 2^{\circ}31'$$

$$\sin 0.43910 \times 299.2 = 13.1418$$

$$C00\ 999/035 \times 299.2 = 298.91$$

$$78^{\circ} 29' W = 11^{\circ} 31' - 299.2$$

Since $199653 \times 299.2 = 59,745$

$$\text{Ans } 979867 \times 299.2 = 293.18 =$$

$$\begin{array}{r} 906.55 \\ - 59.74 \\ \hline 846.81 \end{array}$$

July 1 - 43

'20"

44

From 10 Run

S 37° 22' W 381.8

$\sin 606914 \times 381.8 = 231.72 \text{ W}$

$\cos 794768 \times 381.8 = \cancel{211.24} 303.44$

846.81

303.44

303.44

543.37

3482.61 W
846.81 N

3714.33

94.77

3809.10

(12)
3809.10 W
324.72 N

543.37

218.65

324.72

3714.33 W
543.37 N

S 37° 22' W
381.8

303.44 S

231.72 W

(12)

523° 26' W
238.3
218.65 S
94.77

(11)

S 23° 26' W 238.3 to 56.12

$\sin 397682 \times 238.3 = 94.77$

$\cos 917523 \times 238.3 = 218.65$

45

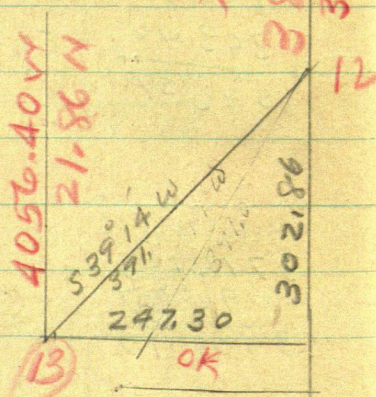
From Sta 12 Run
S $39^{\circ}14'W$ 391.0

Sine $632480 \times 391 = 247.3 W$ OK

Cor $774577 \times 391 = 302.86 S$ OK

$$\begin{array}{r} 3809.10 W \\ 247.3 \\ \hline 4056.40 \end{array}$$

$$\begin{array}{r} 324.72 N \\ 302.86 S \\ \hline 21.86 \end{array}$$



13 Run $S89^{\circ}01'W$ 1371.2 to 14
 $= 0^{\circ}59'$

Sine $017162 \times 1371.2 = 23.53 S$

Cor $999853 \times 1371.2 = 1371.0 W$

2

From 14 Run $NH88^{\circ}22'W$ 219.2 = $1^{\circ}38'$

Sine $028503 \times 219.2 = 6.25$

Cor $999594 \times 219.2 = 219.11$

$$\begin{array}{r} 6.25 \\ 1.67 \\ \hline 4.58 \end{array}$$

47

$$\begin{array}{r} 5646.51 \text{ my ch} \\ 5629.14 \text{ us ch} \\ \hline 17.37 \text{ Long} \end{array}$$

$$5629.14) 17.37 (.3085729 \text{ Long}$$

$$1320 + 4.07 = 1324.07$$

$$2640 + 8.15 = 2648.15$$

$$3960 + 12.22 = 3972.22$$

$$1669.14 + 5.15 = 1674.29$$

$$5629.14 + 17.37 = 5646.51 \text{ my ch}$$

correcting

$$5646.51) 4.58 = .08111205$$

Correctio = ^{Long} .08111205 ^N so for
each foot west $1324.07 = 1.07$

$$\text{Sta 4} = 570.08 \text{ W gads}$$

$$~~588.91 + 0.46 = 89.27~~$$

Correcting

48

Sta

$$\begin{array}{r} 1495.41 \\ 1328.07 \\ \hline 171.34 \end{array}$$

$$\begin{array}{r} 11.99 \\ 1.21 \\ \hline 10.78 \end{array}$$

3 = 445.5' ^N 203 - 0.36

88.35

4 = 570.08 W. goes ^N 0.46 + 88.81 = 89.27

5 = 1495.41 W " N 11.99 To Random

Then S 1.21 or North 10.78 To

True Line

$$\begin{array}{r} 88.81 \\ 46 \\ \hline 88.35 \end{array}$$

$$\begin{array}{r} 5 = 1495.41 W \\ 1324.07 \\ \hline 171.34 \end{array}$$

5 goes East 171.34 To 1324.07 W

Over Sta 5 BS N 83°

To Correct Line

Over Sta 5 BS N 83° 47' E and run

North 10.78 Put hub on True Line

2334.16 W

Over Sta 6 BS S 87° 55' E on 5

Run South 18.52 To Random Then

So 1.89 To $\frac{1.89}{20.41}$ So

49

Correction
of Random

= .0008111205 North for
Each foot West

Sta 3 gaur 0.36

4 gaur 88.81 To Random Then North 46
or South 88.35 To Trol Lin

11.77
1.21

13.20

 $83^{\circ}47' = 6^{\circ}13'$

172.35

Sine 108289

or 994120

Figuring Sta 4 to 4A = $\frac{1}{16}$ Lin

or $83^{\circ}47' W$ 758.45 ^{via line} To $\frac{1}{16}$ Lin = $6^{\circ}13'$

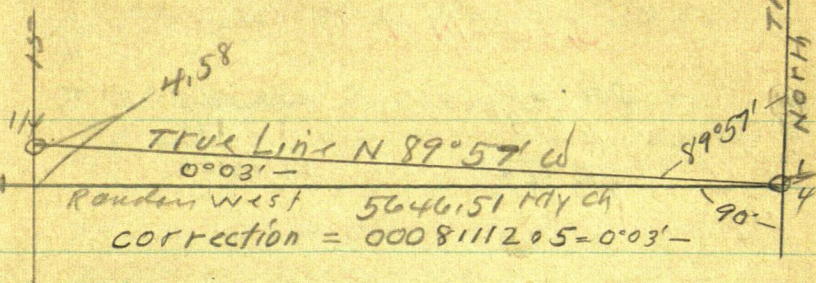
Sine 108289 \times 758.45 =or 994120 \times 758.45 = 762.94

Sta 4A is 1324.07 W and 6.37
N of Random

4.58
2.29
1.15

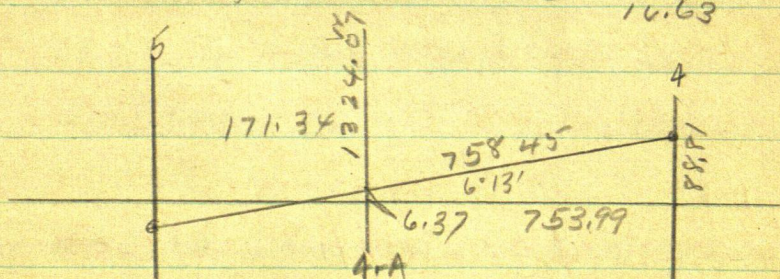
$$\begin{array}{r} 753.99 \\ 171.34 \\ \hline 925.33 \end{array} \quad \text{OK}$$

50



Sta⁴ = 570.08 W Random goes N 0.46'
 +
 .5 = 1495.41 W goes N 1.21' to Random
 + 11.99 = 13.20' to TRUE LINE

6 = 2334.16 W goes S 18.52' to Random
 Then North 1.89' to TRUE LINE 18.52'
 or 180° 16.63' TRUE LINE 18.52'
 16.63'



Try S 83° 47' W 758.45' = 6° 13'

Sine 108.289 x 758.45 = 82.133

cos 994120 x 758.45 =

51

A 4 is 6.37 N of Random + 1.07

1.07

5.30 N of True Line

89° 60'

6° 13'

83° 47'

1320.65

530

1315.35

To put in SE Cor Lot

Sec 30-139-29

From Sta 5 Run N $83^{\circ}47'E$ 172.35
To Sta (4A) Then Run S 5.30 To
True $\frac{1}{16}$ Cor

Still @ 4A Turn NE Angle

$83^{\circ}47'$ and run North 1320.65

1315.35 To 1320.65 North

① To bring you exactly N $89^{\circ}57'W$
from N $\frac{1}{16}$ Cor on E side of
Sec 30-139-29

This will Run

Parallel to East line

and
Parallel to E-W line

② At Sta 5 Ch N $11.99 + 1.20 = 13.19$

13.19 Set Hub $\frac{1.20}{13.19}$

On True E-W line

③ At Sta 6 Chain S 18.52 To Random

Then North 1.89 or $\frac{1.89}{16.63}$ To True

E-W line Sec 30-139-29

④ The line should then pass

Thru all point 1-2 & 3 Try it

53 To put in N-S & Sec 30
139-29 2648.15
1st See Page 47 2647.16
0.99

(1st) at Sta (7B) from on 7A

S 11° 20' E and run North

7-B is 799.52 North of Random
and 2797.37 North of True

EW & Sec 30-139-29

Chain North 523.28 1320.65
797.37
To 1320.65 - a point 523.28

Exactly West (N 89° 57' W)

of A 1/16 Cor bet 29-30 - 139-29

Then Run S 89° 57' E 1324.07

② I may set this N & S & 0.99
of a foot West to make it 2648.15
as shown on Page 47

1332

Another Method

54

See Book 424 Hauland SVY

Page 76

Notes & say:

1350 So RR Spike Hub Not on Line
Ties 1075 about $80^{\circ}W$ 21.00

1010S about $25^{\circ}E$ 33.30

Rake This spike in on true
line.

② Then chain N 29.35 to 1320, 63's

set RR spike for N $\frac{1}{16}$ corner take

Ties viz

Now $\frac{1}{16}$ corner is on true line

then NW angle $89^{\circ}57'W$ and on

West on true $\frac{1}{16}$ line to

intersection with lines

coming from the 20

In this way all the chaining

I would have to do would be

to claim North 523.28 feet.

Hub 7-B,

2-10 AM July 2-1943

Jack Curo

55

June

Time

Harwood

18.70
 5.10
 8.10
 31.90 paid
 June 2/13

At St. L. - Zm S 40° 30' W

16.63 = 1" Rod

Drum deep Ring in left
 15 inches above ground

5 ft to R of path lead
 NW to Jan 3 ft 11 inch

3.9 North of out line

E W line

10.20
 8.50
 11.70
 5.10
 35.00
 70.50

50.00
 43.30
 6.70

1943

Time Sheet

Name	July							SUN	4	5	6	7
	28	24	25	26	30	11	2					
Harwood Cyphus Co		16	17	18								
				5:40	4:50							10.20
C. Sholt				4:30	4:00							8.50
Doris Gagnon @ 45												11.70
Nord Newlon @ 30												5.10
Jack Curcio												13.50
Car												70.50
EXP												
Fred Emmons ax												
Robert Harris												92.50

31.90

68

July 3 - 1943

26413
1320.65

58

North $\frac{1}{16}$ Cor Bet 29-30 - 139-29

Book 424 Page 69-71

@ 1330 So R.R. spike - nail on line

see ties

Raken in this line Bet Hat 220. and.

2286 - and @ 1320.65 So set

20' nail in E.N.S. Road

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

13500
1320.65
29.35

{ Pop 8N $61^{\circ}30'E$ - 25.85

{ NP 9S $37^{\circ}20'W$ - 34.55

{ JP 10S $12^{\circ}40'E$ - 60.08

{ Old Hat 1350 So set 29.35 So
and }

$\frac{1}{16}$ is 10 ft N of SE Cor Cloney
field Run

West @ 90° @ 200 ft 12'S

@ 300 ft field ex lands 20' S

@ 600 ft in in fields

Field ex lands 679.10

Hat St 40' spike Lr field

60 ft N of SW Cor

59

Winton 12 1/2 Lins

su 30-139-30

~~C 675~~ 685 ent small

paper thick

July 3-1943 Sat 60
Pick up Doris Cuno Gagnier
to help chain and keep in
transit

up at 6:30 am - Drive to New
ho eat breakfast - Take lunch

LT @ 8:30 Try to get E.C.

Wilson to help - Take Mary this
with Doris and I to Pin River
leave her there

Drive one mile west pick
up Robert Harris (brother ^{504 Horn}
to Glenn Harris)

Mary gives Doris \$1. for gas

I buy 1x2-6 at Pin River Lbr
yard 40¢ - Gas 85¢

At Hattie Lake 10 AM my time
= War line at 9 AM by Harris time

Fred Emmons who cuts
lumber for Bill
helps us (Bill
will pay him.

61.

π over St 7B. = RR. spike on lap
of hill. Page 42 this book

BS S $11^{\circ}20'E$ on 7A Cut line
North - at about 500 ft on my line
cuts 0.60 west of old RR spike
set by Frank Hays

Cut line also 20 to Lake

All drive 80 rods E

~~π over St 5 Page~~

π @ 7B - Focus North 500 ft on old
RR spike St 7A bears S $11^{\circ}25'E$
0.7 0'05' off some place

Note! I may change my line
and run it North on old Hayes Line
Will see later

All drive 80 rods E π over

St 5 Focus NE on Sta 4
N $83^{\circ}47'E$ and run 172.35 HW 4A
Page 52. π over # 4A. Focus
on plan 4 on N $83^{\circ}47'E$ and run
North on E $\frac{1}{16}$ line Sec 30-139-29

62
Cat line 500 ft N. From 4 A. ch
South 5.30 P 52 and set
long iron rod for Temp $\frac{1}{16}$ Cor

End of Half sec 30

Call work 10 to 12 work line

Fred walks 80 rods home to
dinner - Doris Bat and I eat our
lunch on road side

P.M.

Fred returns 1 P.M. He and
Bat start to Cat line N
on E $\frac{1}{16}$ line 30-139-29

Bill

Comes along - Call Fred back
to give him his pup's check I
guess

Mrs. [unclear] Comes along
and rides west with Bat
Doris and I drive west

63

Turn Plot 6 Focus on 5

8 on plot 5 and run
South 16.63 feet set R.R. spike
on line E & W 24 30 Sep 52

This should be the line E & W

Mrs Upton has some boats out
boat landing 50 ft N of line E & W &
near plot 6 -

T slid at plot 6 -

July 4-1943-

up 8 am - Drive to Doris for
breakfast with Martha Ann &
Max Slocum

~~Drive to Pine River~~

Buy Milk & butter also bread at
Lousoun Drive alone to
Pine River Gas 8 gal

Drive 1 mi west of
Bob Harris L & PR 11-20 drive
to Lake Hattie - Arr 12 noon

Drive 80 rods or up old brushy
road to E-W - 16 Line Sec 30
139-29- Arr 12-15 pm

Work Buff & in line with
2 lat stakes 1500 ft E

From stake 1320 west on
line line 90° to E Line
Ch West

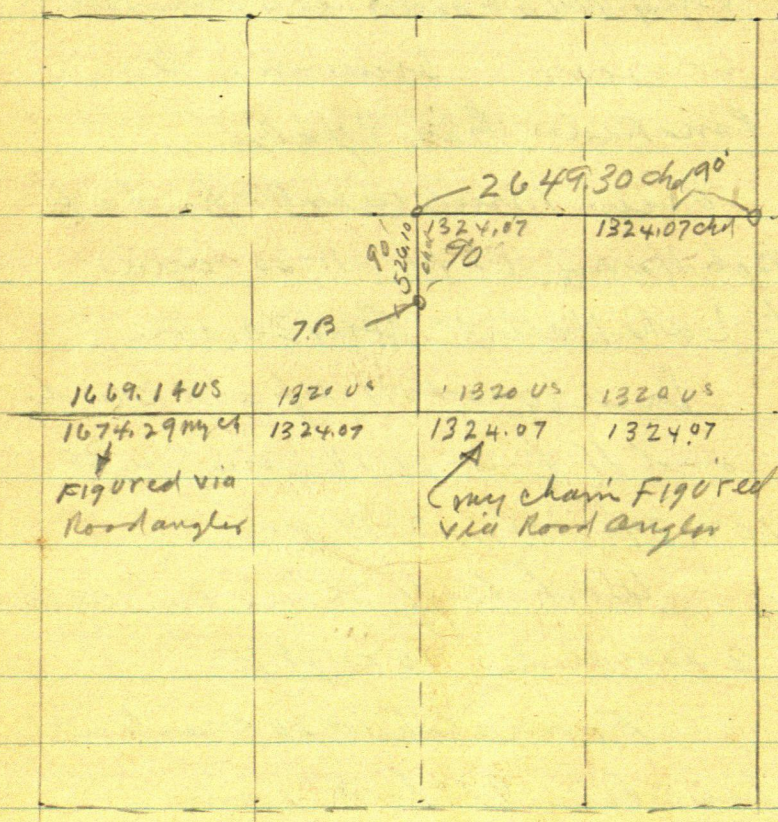
65 20-139-29

July 4 - 1943 Sunday

See Correction Page 47 This Book

0.008111205 N for each foot wall

1324



132 7'

57
564

7324.07

$$\begin{array}{r} 264815 \\ 115 \\ \hline 276365 \end{array}$$

at stake 1320 west chain west
4.07 to 1324.07 Rake in Hole R441

Nat: This should be the line $\frac{1}{16}$
in center of NE $\frac{1}{4}$ 30-139-29
1.15 PM Fred

arriver and we talk him
into culling line

West 1324.07 W set 10 of
spike. True $\frac{1}{16}$ cor ?
1500 stake in East
wheel track of old
road NW SE

~~151~~ 1510 Hub

$$1800 + 186.7 = 1986.7$$

Hub under T 20° nail

WB 61450W

12" crooked R Oak 5 75" E

$$2100 \text{ alt} + 182 = 2282$$

E old Rd NE SW 75 E

67

West 2400 Stake on line
for Hub - Half a lot

A 1.5 NW of 2 wire fence
NE SW

2648.15 Hk

Fred went home. about

4.10 PM - 1.15 - 2.15 - 3.15 - 4.15 3 Hours

~~264~~ 2648.15 W

CH W 1.15 T

$$\begin{array}{r} 2648.15 \\ 1.15 \\ \hline 2649.30 \end{array}$$

1324.07 per W

226.10
70.7

2649.30
1.324.65

2648.15

68

~~1.15~~
1.15

2649.30^N Nail for line 1/16

cen 1.50 Hay sec 30

139-29

Ties

UP 15 N 30° 30' E 50.25

Red Oak 5 N 8° 28' W 20.10

NP 7 S 16° 08' W 19.40

Crooked Red Oak 8
S 45° 07' E 24.85

Hut 7 B no 220.10

So Old RR spike

set so 70.70 + w 0.25

Old Fence set so 38.4

Lines

RR spike for Trm C

6-30 am Back to auto

Car still - 8:15 AM

3 Hours for Fred

8 " " Bob

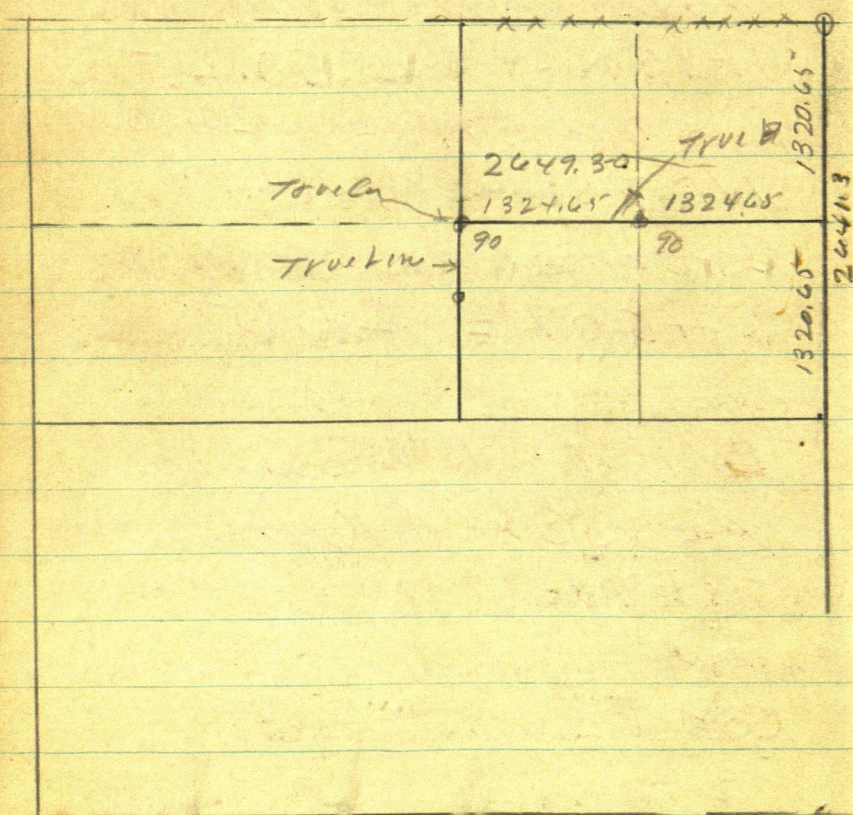
69

1324.07

.58

63

1324.65



July 4-1943- Sunday Continued
 Town 2648.15 W $8\frac{1}{2}$ TR mile bear
 526.10 South and 1.15 west

Ch went 1.15 to 2649.30 west set RR spike
 True $\frac{1}{16}$ Cor in center of ^{North} South
 half Sec 30-139-29 See ties Pg 68
 Town 2649.30 from East on line
 line Run

South $90^\circ \pm @ 38.4$ Corn and EW
 fence @ 70.70 so my old RR spike
 set in the Hayes survey bears
 West 0.25 at $300 + 226.10 =$
 526.10 intersect RR spike at
 Sta 7.13, all on line Run

N. glori pull up old spike
 70.70 and put it in for True
 $\frac{1}{16}$ Cor Lose my glasses

Get stuck on road shoulder
 8.15 PM on main road for line
 L. But at RR. at junction meet
 Max plowman and Martha coming
 to town No supper Jack.

July 5-1948- Monday
 up early- ready to go back
 Doris comes on bicycle- wants
 time marked for Allie Zice

Use my tire rubbers in wet grass
 Allie and I mark line close
 by eye. Doris has bicycle for
 home- I follow in car

Find Max and Martha
 cooking fish- I eat 2.

To Jenkins- At Bat Harris in
 9-30 White males till 10- am

Bat & I to PR at 11-00 am
 via Clouse field

Pack & 600 ft west

Ch W 0.58 to 1324.65

set 2x12" pipe true
 1/16 Cor in center & NE 1/4
 Jan 30-139-29

Ties

H 12" JPN 57°10' E 48.50

15" JPN 45°15' W 13.40

To spot on West roof

7" NP 56°35' W 39.3

14" JPN 56°35' E 32.15

All to spot at base

lined from line E W line

300.0

287.1

12.9
5

13.40

300.0

261.2

38.8

5
39.3

300.00

268.85

31.15

31.65

50

321.15

South

$302 + 82.7 = 382.7$ 174
 60 d spike 4.65 11 E of 12" JP
 $300 + 231.2 = 531.2$ 246

0.25 E of heart 12" JP

 $301 + 237 = 537.5$ nail

0.20 W of 8" JP

590 W wheel fresh alt
 Road NWSE 20° W

20° E 600 ft

277.8 Lot 4

639.75 20 d spike 0.30 W
 of 11" JP green stunt

654.65 nail 20° spike
 E Edge 12" JP stump green

0.50 E of heart

 $600 + 121.6 = 721.6$ Hub RN of

10 ft N of old road NE SW

600 + 200 = 800 state 1xx 2g
on line - 800 + 210 = 1010.00

Hut RR spike

$$\begin{array}{r} 1010.00 + 277.8 = \\ \underline{277.8} \\ 1287.8 \\ .90 \end{array}$$

$$\begin{array}{r} 1010 \\ \underline{277.8} \\ 1287.8 \end{array}$$

1287.8 Hut

RR spike on N Bench

State Road 3 ft from
bank

+ 32.5

$$\begin{array}{r} 1287.8 \\ \underline{32.5} \\ 1320.3 \end{array}$$

5-35 Heavy thunder

big Rain clouds

are good and dry

west to the 6 - wait for

plow to blow out

Drink warm water from gas catch

wind tick

75

July 5-1942 - 5-50 Hail

6 PM heavy rain

7-30 Rain

sleeps

0.355

4.58

140 H

2.39

1.40

108 PM - 8 Hours

on Jenkins lat

Get cream from allie

2 ice and drive him to Peggy

Old Frank Bryant

sleeps with me at school

~~12-30 on (H 306y B. 12-30)~~

X over Hut (rail)

1320. 65 So B S North & to
West

July 6-1943 Tues

Take Bryant home to Roy
Bryant see Frank Hall

Shake last night

Max Slocum - Mary Hill
Mattie walks to junkies
and helps us move Frank
I take her home and
eat then Doris gets
May Hill '22"

I drive to Row Row
one mi west pick up
Bob Harris

On Lake Mattie

12.30 my line (= 11-30 am Bob
Harris line

Town Nail 1320.65 S

Focus Nor line line and my

owe

West on random ⁴ 90° 1/- East line
 set back shot 300 ft E in low ground
 run west about 200 ft set Hub on
 Hill. Continue

West on random & Sec 30-139-29
 Set Hub 2 ft N of lemp line at
 Slo ~~6~~ 6.

Slo 6 is 2334.16 West Hub

11
 2345.00 Iron rod

From road ~~11~~ set 11 W 2' N

At 2345. West iron rod set 2 ft N

Over line hit 4" crooked Willow

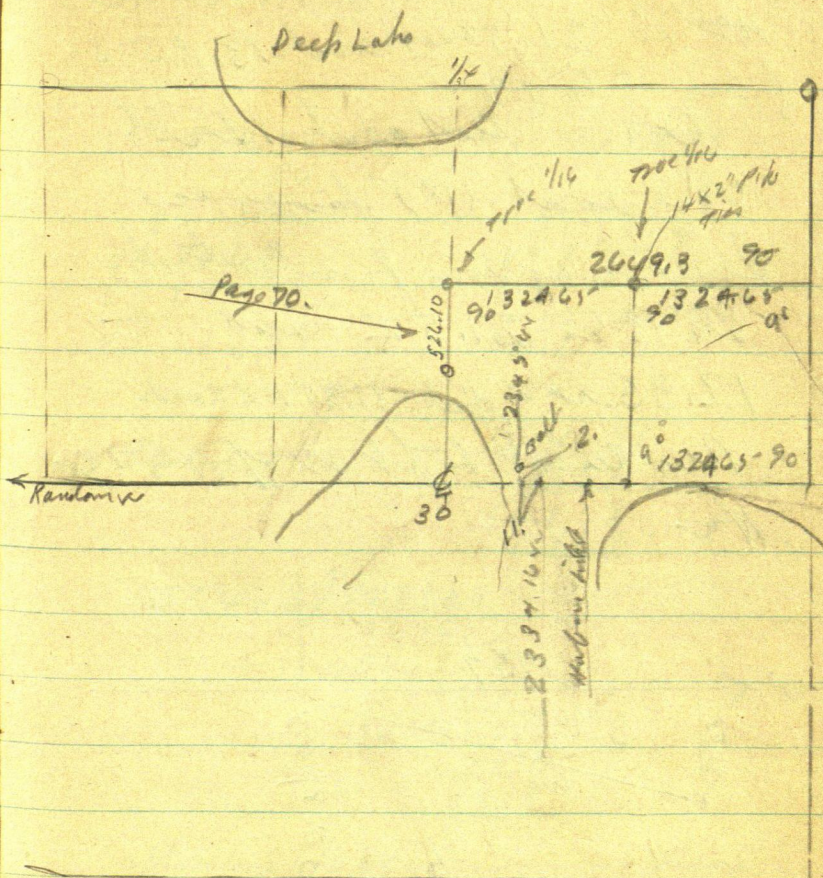
I go get Mrs Opton who says to
 "Cut the dam willow"

Eat lunch PM

West Over Lake set Hub
 then West up hill 1 ft off set
 to Hub on hill

30-137-29

78



79

Huron hill is on offset

AA is 21.5 W and 13.35 S.
from Sta 13

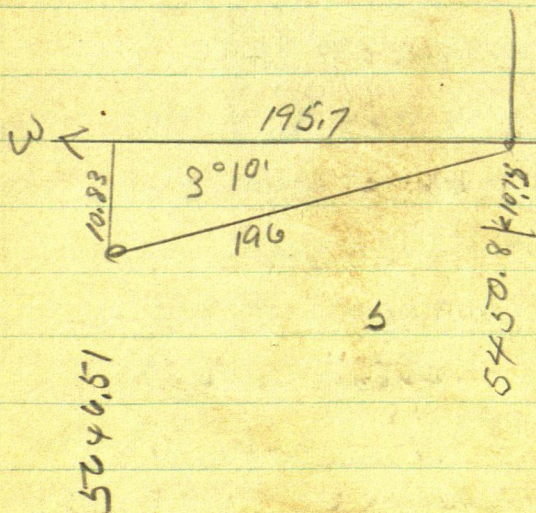
Set chub North

One foot (1") from as
line random from which

Sta 13 is 21.5 E and

12.35 N of offset = 11.35 N of Random

Run west to ft N of Sta 14
Hub



20101

Line 055241 x 196

err 998473 x 196

5646.51

195.71

5450.80

80

55241

196

331446

4971.69

55.241

10.827236

998473

196

5990838

8986257

998473

195.700708

Seitz 50

5646.51

1957

54508

118

5646.5) 10.830.0.

56465

518.350

56465

4618.850

1720

1918

5646.5) 10.8300

56465

518.350

508185

1016.50

56465

431.85

457720

1300

56465

1819

508185

56465

451720

56465

402689835

81

(1918) OK

$$\begin{array}{r}
 56465 \overline{) 10,830.0} \\
 \underline{56465} \\
 51835 \\
 \underline{50818} \\
 10165 \\
 \underline{56465} \\
 45185 \\
 \underline{45172} \\
 130
 \end{array}$$

$$\begin{array}{r}
 56465 \\
 \underline{1918} \\
 451720 \\
 56465 \\
 508185 \\
 \underline{56465} \\
 10.829987
 \end{array}$$

OK 1918 Tony

11.11.11

$$\begin{array}{r}
 5450.8 \\
 \underline{1918} \\
 436064 \\
 54508 \\
 490572 \\
 \underline{51508} \\
 10.1546344
 \end{array}$$

Sun 8 PM 7 Hours @ 50° Bul

Miss Bob home Oliver Nelson
 showing his land
 sheep at Shrookwo suff
 John W. Cro

83.

Going East on random
Sto 3 - near & road sets 14 inches
North . at a point 3 ft in from
so point of so shoulder of road
drive 60° spike 2" deep

At a point about 70 ft west
of & road drive a 60° spike
8 1/2 inches so of small spat
on so side of 5" JH

At a point about 70 ft East
of & road drive a 60° spike
2 inches North of a small spat
on N side of Twin Red Oak
12" at base 6" each for two trunks
all driven deep at

1/4 cor on line bet. 4 inches
so of RR spike 1/4 cor

Notes These points set
to mark over Random just a
peck hole this like timber

Trees on line - only place
we can get the Random

going \equiv at random 82
to mark Peak hole thro
rees we set 60 d spikes

Continue: page 82

60 d spikes about 300
feet west of Road

E Im 5 N about 20'

E or N 6.45

Turn back ^{10 and 10'} pm. N. 10
line S about 80 \equiv 16.80

All spikes driven

down about 300 ft west
of Co Road

About 400 E of 1/2 and on our
random drive 60 d spikes

3 Poplar trees East of

N about 45° W 15.25 to top
at base

14° SP N about 85° E 21.70

86

Correcting
E W 2 30-139-29

002

5646.5

10.83

12

5646.5

35
11.18

11,2930

132465

5646.5) 11,18000
112930

1324

2
2,64930

198+

132465

56405) 11,18000

2
2,64930

56465

553350

508183

451650

451720

At $\frac{1}{16}$ & E Half 30-139-29. Chann

North. 35 Then to 2.65 or 2.30 So to

True $\frac{1}{16}$ in So shoulder of E W Road

- SEC or Gov Lat 5-30-139-29

2x24" Pipe in built up shoulder

Tw 15' JPS 143392 E 45.50 N

10 JPS 74005 W 61.25

8 JPS 2035 W 19.52.

60 ft spik on E W Road

2.30 North buried deep

At 60° spike Hub on LEW 86
 Random 15.20 South of
 Sta 5 The Iron Belt sec
 11. ft West and 3 ft N
 chain west 39.5 to

2334.16
~~3944~~
 73.60

2334.16
 39.44
 2373.60
 2
 4747.20

Correction
 - 2.

4.75

At Hat 2373.6 West on 1 ft
 offset 5 - point for me sec
 North 0.35 then South 4.75
 = 4.40 - 1 ft offset = $\frac{35}{40}$
 3.40 so ft for me

Over 8.55 - 9 Hours

8.55 - 9 Hours

Time in 1750

87

July 7 - 1943 continued
~~the~~ cur set 2 x 30" pipe
 on lake shore So of road about
 200 feet south of SLO 713.

Drive to Pine River and out to Bill
 Burnson res. Bill gives ch
 Robert Harris 5 days \$20.

Jack Cur ch 70.50
 bath in full

check No 781

Wm A Burnson
 Lumber - Forest Products
 Pine River Minn July 7 - 1943

Jack Cur 70.50
 Pine River SLO 134 Wm A Burnson
 Pine River Minn

Nali: out of this ch I owe
 Doris Cur Leagun \$11.70
 Norbert Newton \$5.10

Home 10 PM no supper Sleep at
 shack Time sheet pg 56

John W Cur

July 8-1943
 Norbert Newton wakes me at the
 shack and I gincho in my ch 851⁰
 on Peugeot tank in fuel.

Eat pancakes with Martha at
 10-30 am. Din w Lippke next
 Su Ma also

Glenn Waldron & wife

Dine @ 11⁰⁰ Bathing Lake

checking Ties

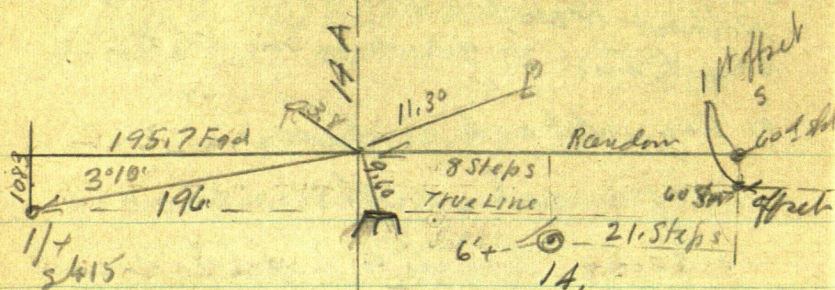
21 slips^E of Slo 14 set 60⁰
 spike on N brink of Noaa
 shoulder on 1 ft offset and
 another 60⁰ spike 1 ft N on
 Tine Random

8 slips west and about
 15 feet north from Slo 14
 set 60⁰ spike on line

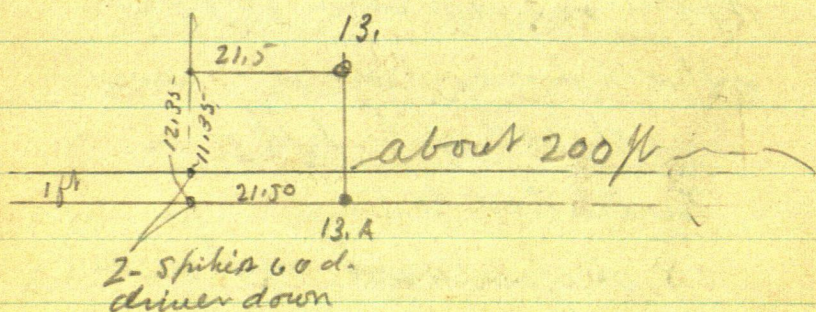
Random 2 Sts 14 A

Tier 1: 14. A Juddimp 14" South 9.60
 5" Red Oak N about 70° E 11.30
 Heavy 12" JTP N " 70 W 3.80
 2 ft on W side No red rag
 spikes driven down

89



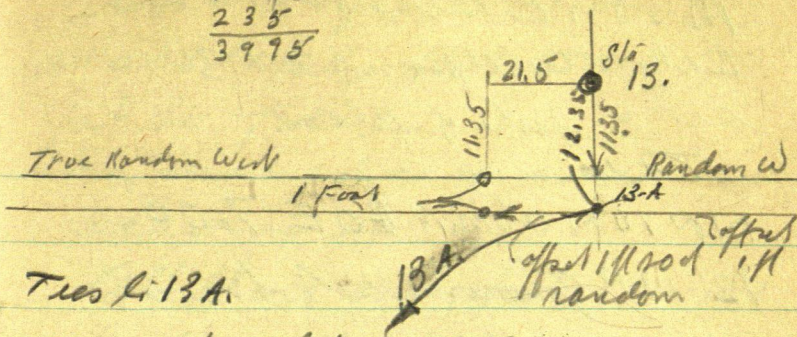
The corrected line would come
5 or 6 W north of alt 14



Nali: You will have to dig for
these 60 d spikes 27.4" down
Working alone July 8-1943
67.7 pm.

Jack Cu

235
 17
 16 235
 235
 3975



Trees Li 13A.

3" W Oak Sabot 5'E 6.90

4" R Oak N " 75'E 7.00 spot it bare

13.A is 60 d spike driven down

1 ft 20 d of line Random

all driven down
 60 d spike
 60 d spike
 6.50

13.B
 WB 8 N 70° E 3.70
 WB 10 N 30° W 1.40
 WB 95 50° E 3.45
 all spot mkt 874 E?
 17? E See Blue Book
 Hagerman
 True west Random
 offset 1 ft

13.B is 60 d spike 6 ft west of water on
 line random West

16.7 7.0

MC on E side of Hattie's
Lake - well point 2 x 36 + -
set in pile of stone
Trees

NP 10 N about 80° E 7.00

12" NP growing out of roots
of 24" white pine tree
S about 45° E 16.7

Small spot about
40 ft East of water

60 ft spike on Tree west
Random is 2 ft N of RR
spike set in the first
Calculation of Sta 6

about 15 ft so of Sta 6

† Iron bolt is 2 ft N
and about 10 ft W of
Our Random at Sta 6

Well point Paces 28 ft
from Iron Bolt †

about 14 ft East of Slo 6
is a 60 d spike set down (13
ft so of our line runs
in west edge of road
leading to

All these 60 d spikes can be
checked in from slo 6. and
dug up Slo 6 Has ties
elsewhere in this book

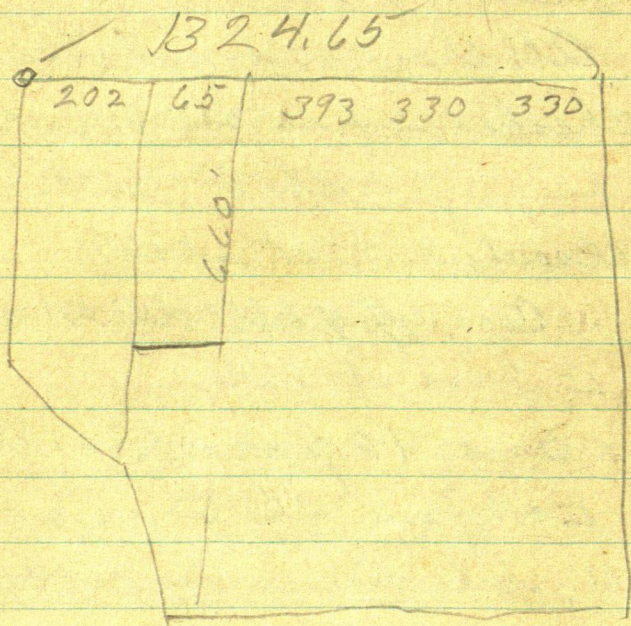
On top of hill West of
E line of Lot

and 70 paces (30) ft
East from Slo 5 is a 60
d spike driven exactly
in E of Co Road

8-30 PM July 18. 1943
Jack Curo
working alone
Drive to Jenkins

Lake Hattie

July 26th 1940



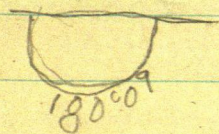
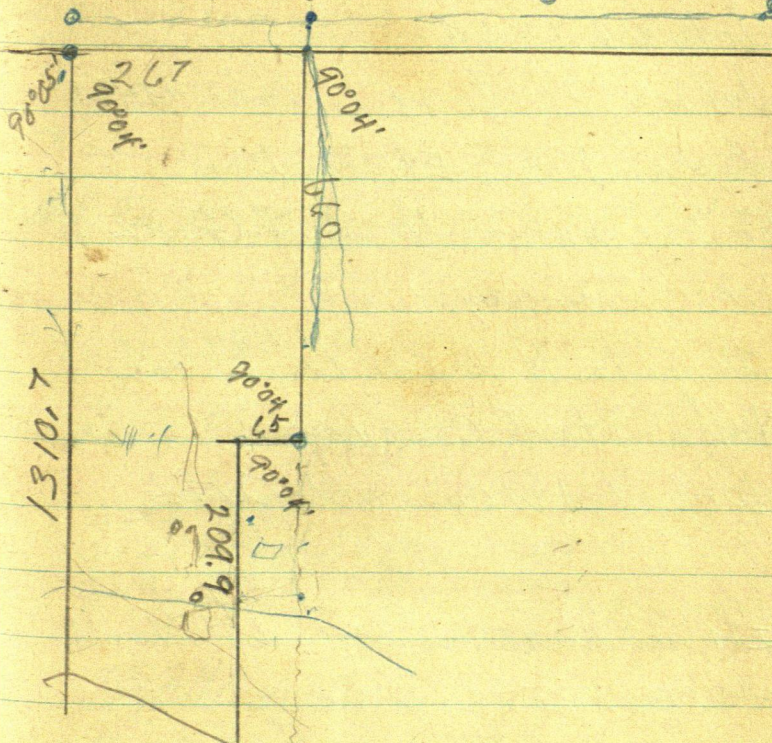
202
65
393

660
660

1320

1324.55 1320.
1324.65

John Stark Survey
Feb 1960



Lake Hattie
Gov't Lot 5 Sec. 30 139-29

July 26, 1960

John & I drive to Lake Hattie
stop at Kirk Ellis place
he has hired Howard Ganz to
help on survey

We go to N W cor lot 5 where
John Stark (surveyor)

We find S W Corner old Tris

from which we chain and find his
I.M. under leaves about 6 ft North
of Stark's I.M. we go on and try

and find NE cor lot 5 but cannot
back at NW cor lot 5 S.W.C.'s I.M.

Site S $7^{\circ}16'$ on old BT and run

S $89^{\circ}57'E$ at 267 hub $+ 300$ pm
 $+ 86.9 =$ 653.9 hub

Then 653.9 old I.M. bears $L 11^{\circ}03'$
(NE) 11.6 - continue our line E

$653.9 + 80 + 84.4 = 818.3$ hub

$$\begin{array}{r} 6539 \\ 280 \\ 844 \\ \hline 818.3 \end{array}$$

$$\begin{array}{r} 1118.3 \\ 176.8 \\ \hline 1295.1 \\ 29.4 \\ \hline 1324.5 \end{array}$$

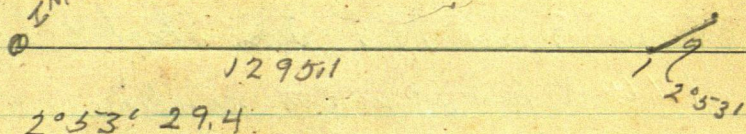
$$818.3 + 300 = 1118.3 \text{ pm } 176.8 =$$

1295.1 hub

Turn 1295.1 BS W IM N $\frac{1}{2}$ L Cor Center
NE $\frac{1}{4}$ Sec 30 bears (NE) L 2° 53' 29.40

another IM 1" pipe bears $\frac{1}{4}$ 8° 21' - 33.5'

IM Center N $\frac{1}{2}$



$$\sin = 050302 \times 29.4 = 1.48$$

$$\cos = 998734 \times 29.4 = 29.36$$

$$\begin{array}{r} 1324.5 \\ \hline 1.4800 \end{array} \quad \begin{array}{r} 0011174027 \\ \hline \end{array}$$

hub 267 E goes N 0.30

July 27th 1960

John + I to Lake Hattie

Marshall sent for John Stark
who comes over
from our true point 267 E of
NW cor Gov't lot 5 sec. 30-139-29
chain S. at 13.5 John Stark's IM
at 660 S but pt for IM continues
line S to Lake Hattie

Travel 660 S turn 90° + run West
65 ft set pt for I.M. Travel 65 turn
90° + run S parallel to W line Lot 5
set hubs one on lake shore one
opposite Stark's IM which sets E
about 1 foot

Ellis does not like it as his house is
on Mitchell's land. We go to Stark's
Stake on W side Lot 5 mile N along
Stark's W line and run S 53° 41' E

along S side of road.

S $53^{\circ}41'E$ 202 ft

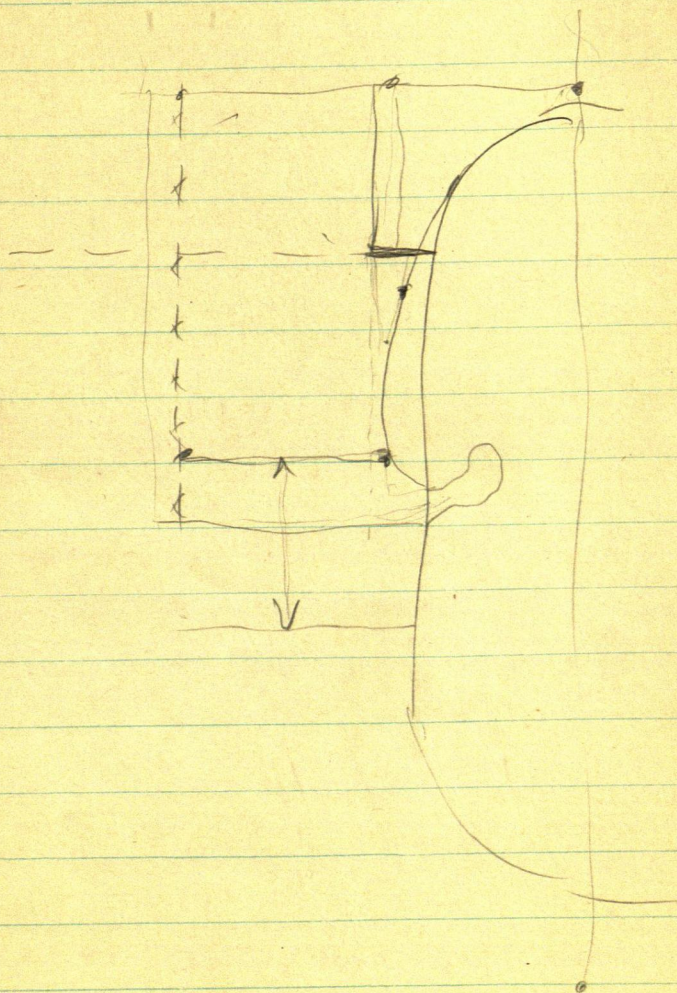
sin 8057.36 into 202 = 250.7 to pt 202

Cosine

E of W line Ellis gives me check for
\$150. I send \$100 to Donald at
Col. Springs, Colo.

July 28, 1960

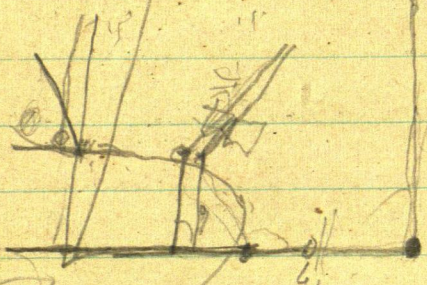
Ellis comes to walker calls me I
make a rough sketch he is going to
go see Nolon Attorney at Brainard
as Rogers told him to go to him.



E-S-W line

Dec 35 - 137-28

John Stark Crosby



200

450