

C. S. File No.

4/29

Solar Obs.

Date - Oct 19, 1923

Time 3:00 P.M.

Lat = Base line = $45^{\circ}31'$ less 29 Twp

$$29 \times 5.217' = 151,293' = 2^{\circ}31\frac{1}{2}'$$

$$45^{\circ}31' - 2^{\circ}31\frac{1}{2}' = 43^{\circ}00' = \text{Lat}$$

formulae = $\cos Q = \tan \text{Alt} \times \tan \text{Lat} - (\sin \text{Dec} \times \frac{\text{Sec Alt}}{\text{Sec Lat}})$

Dec. Greenwich Noon Oct 19, 1923 =

$$S 9^{\circ}42.5' \text{ less } 11 \text{ hrs} \times \text{H.C. } 54.5'' = 599.5''$$

$$11 \text{ hrs} = \frac{10.0'}{10.0'}$$

$$3 \text{ P.M. } 9^{\circ}52.5' \text{ Ref Corr} = -2'$$

*1 Hort $\Delta = L 50^{\circ}13'$ Alt = $23^{\circ}54'$ Mag $S 50^{\circ}20' W$

$$\tan \text{Alt } 23^{\circ}54' = .4431 \checkmark \quad \text{Sec Alt } 23^{\circ}54' = 1.0938 \checkmark$$

$$\tan \text{Lat } 43^{\circ}00' = .93252 \checkmark \quad \text{Sec Lat } 43^{\circ}00' = 1.3673 \checkmark$$

$$\sin \text{Dec. } 9^{\circ}52\frac{1}{2}' = .17150 \checkmark$$

$$14956$$

$$.4132 \checkmark$$

$$.2565 \checkmark$$

$$1.4956 \checkmark$$

$$\cos Q = .66974 \checkmark = S 47^{\circ}57' W$$

$$\begin{array}{r} 50 \quad 13 \\ + 9 \quad 16 \\ \hline 59 \quad 29 \\ N 81^{\circ}50' W \end{array}$$

*2 Hort $\Delta 49^{\circ}00'$ Alt $23^{\circ}16'$ Mag $S 51^{\circ}30' W$

$$\tan \text{Alt } 23^{\circ}16' = .42998 \checkmark \quad \text{Sec Alt } 23^{\circ}16' = 1.0885 \checkmark$$

$$\tan \text{Lat } 43^{\circ}00' = .93252 \checkmark \quad \text{Sec Lat } 43^{\circ}00' = 1.3673 \checkmark$$

$$.40096 \checkmark$$

$$14883 \checkmark$$

$$\sin \text{Dec } 9^{\circ}32\frac{1}{4}' = .17150 \checkmark$$

$$14883 \checkmark$$

$$.25524 \checkmark$$

$$\cos Q = .65620 = S 48^{\circ}59' W \checkmark$$

$$\begin{array}{r} N 81^{\circ}50' W \\ + 80 \quad 52 \\ \hline 62 \quad 102 \\ N 81^{\circ}56' W \end{array}$$

$$\begin{array}{r} 49 \quad 09 \\ + 120 \\ \hline 98 \quad 08 \\ N 81^{\circ}52' W \end{array}$$

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Thomas Hatfield Survey.
T 295 R 3 W Sec 32.

Began the survey at the
Section cor. common to S
32 & 33 T 295 & S 4 & 5 T 30 S.

I replaced this corner from
the stump of an original
^{which was} B.T. as follows - Fir 24" dia S 8° W
108 links. - This tree had been
cut down ^{and was rotten}, but the B.T. scribe
marks were very plain. All other
evidence had been destroyed
except the memory of Remi Fate
who said his fence corner was
within 5 or 6 ft of the cor.

Replaced the cor with an iron
bolt 5/8" x 30" driven full in ground
and from which an

12" B. Oak	S 60° 15' W	168.9 feet.
10" Ash	S 52° 45' E	178.0 ✓
10" Alder	N 42° 10' E	177 feet
6" Ash	N 7° 50' W	210.7 ✓

N 81° 46' W from section
to black snag

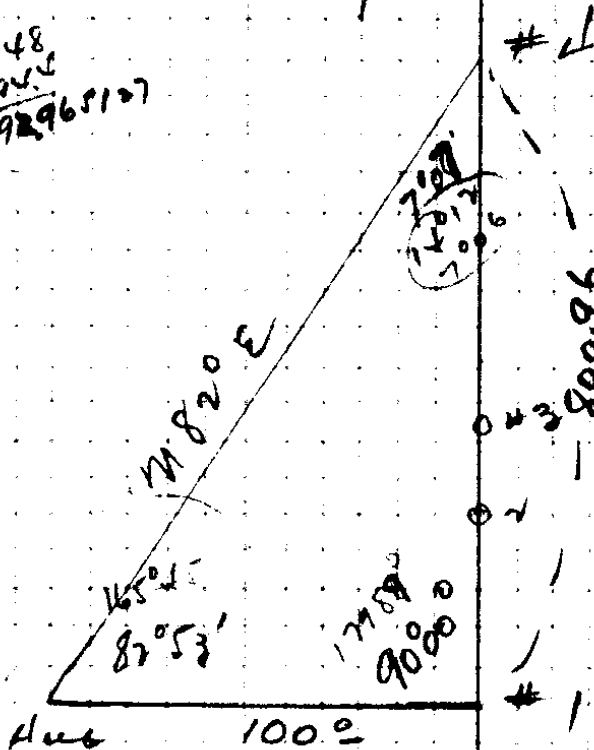
● Turn to line

N 81° 56' W
10° 25'
179 60
192 16 W
887 44 W

Solve for
line

Triangulation

9848
944
92965127



Tan 7° 07' = .12485

$\frac{100}{.12485} =$

Sin 7° 07' : Sin 82° 53' : 100 : x

1.99230
100

99.2300

8.0717

800.95 ✓

● off N 1.00

CO Sec

C. S. File No.

629

Flatfield Survey

		Mag	Level	Angle
#5	180°00' R90°00'	N2°30'E		
#6	175°27' L87°44'	N2°16'W	776	
#7	POT	West N84°30'W	876	+28°50' 100°
#8	POT	West N84°30'W	890	27°11' 100°
			646	26°00' 71.9
#9	POT	West N86°30'W	580	+14°44' 60°
			590	10°27' 60°
#10	POT	West N87°W	90.9	+24°37' 100°
			39.9	
#11	16°05' L8°03'	88 881°57'W	99.5	5°35' 100°
			1.7	
			101.2	

1/2 Sec but 583 v

Oct 20, 1923

Springer

Richardson

Hatfield.

89
 646
 1536
 896
 241.2
 58
 299.6
 2062
 2361.
 9671.00
 58926
 9837.60
 290220

2640
 2362
 275

887 440
 90
 139 60
 177 460
 22160
 2748

899
 719
 8091
 599
 6253
 60235

909
 399
 1308

23618
 54.8
 909
 399
 2581.6
 3
 2554.7
 155
 2553.

At the 'A' Sec Cor bet Sec 32
I found one original
& the stump only remaining
the B.T. & '45 were
facing I called it the
note on the Oak 15" dia
with Mr Fazio fence cor
pin $5/8" \times 24"$, ^{and set a quadrant} ~~clear~~ in ground
follows. A Fir 22" dia
A Fir 24" dia

Note: With compass set on
3° Right from a Solar

Computed true line bet cor

Inst Hut #3 B.M. #2 Course

Put in an iron pipe $3/4" \times 24"$ diam
which a 16" Cedar $\eta 30^{\circ} 15'$ W
46" Fir $\eta 61^{\circ} 15'$ W

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108
66
42
L 15
71.2 E

Solar Obs.

Oct 19, 1923 - 3:20 PM

Inst set at Sec Cor 32-33 - 445

F.S on. Black stick Mag N 80°36' W
Solar N 81°46' W

#1 Hort Δ L 50°13'

Vert Δ 23°56'

Mag. C. to ♂ S 50°20' W

#2 Hort Δ L 49°09'

Vert Δ 23°18'

Mag C to ♂ S 51°30' W

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179 66
92 16
87 44 W

From Black Stick to Sun #1

Turned L 70°40'
10°25'
to line

N 80°51' W Solar
10 25
87 6 W

Hatfield Survey
May

Sec Cor 4-5-32+38 Solor Bearing
S87°44'W West

Level + Angle

100°
100°
100°
99.9
99.8
99.3
98.9
96.4
97.2
98.6
93.0

30 10'
1000
4000'
1000
6°50'
1000
8°30'
1000
15°30'
1000
13°30'
1000
9°30'
1000
10°00'
1000
944

1

✓ N 89°30' W

100°
4.7

2

✓ West 0°10' W

100°
46.7

3

✓

4

✓ N 89° W

88°
87.9

28°20'
1000
28°30'
1000

5

S 87° W
above

2.6
2062.4

note needle is

T 29 S R 3 W Sec 5 T 30 S R 3 W

Oak B.T. Pretty well rotted.
No evidence left of the other B.T.

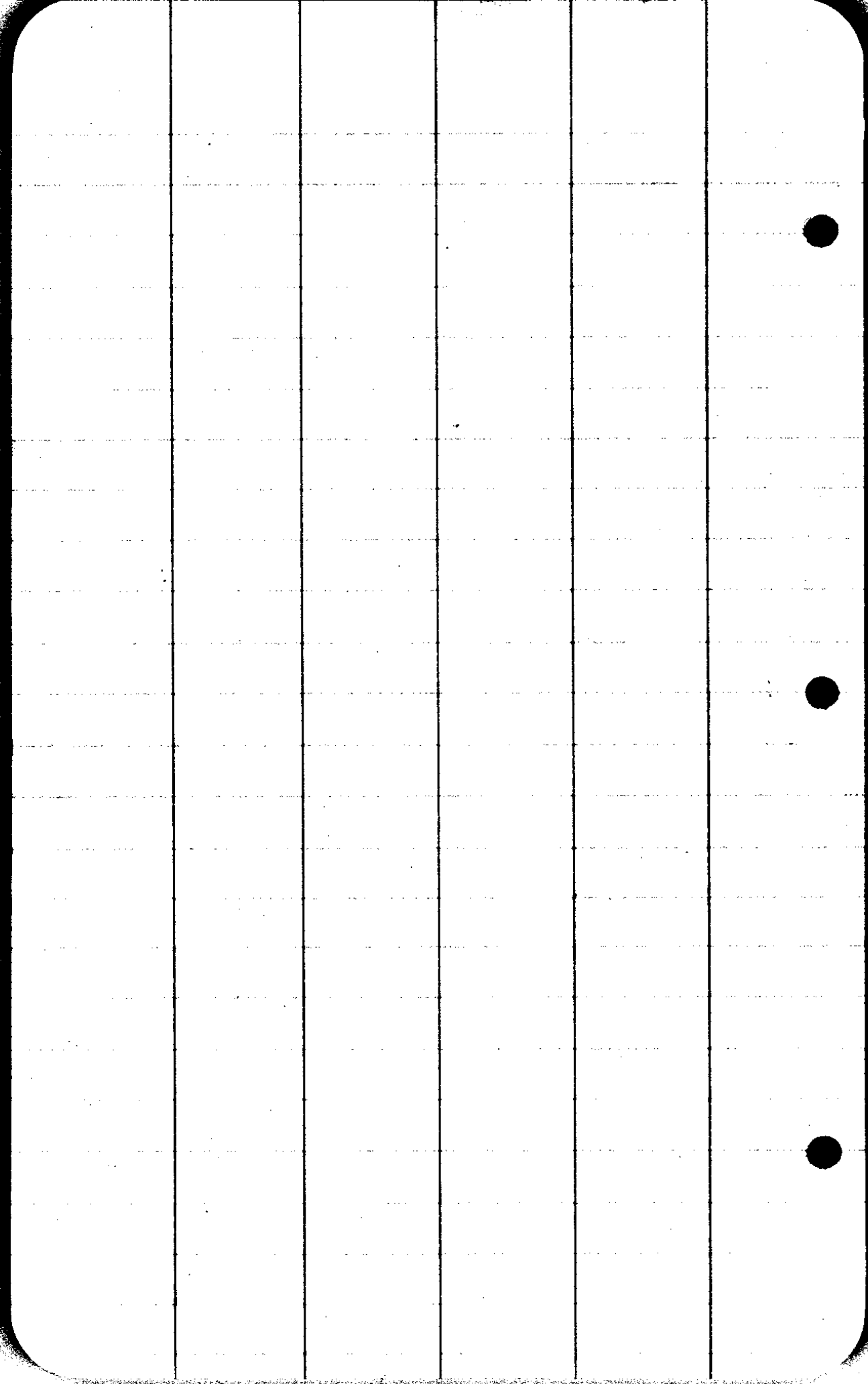
● The scribe marks of both
plainly visible and from the
tree called for in Govt field
N 82° E 270 lbs. This also fine
pretty good. I drove an iron
and marked 2 new B.Ts at
S 45° E 13.7 feet
N 60° 30' E 43.0 feet.

● Van E 21° 45' needle bears
Bearing

× set 1/16 cor from Hus # 3

N 87° 44' E I turned left
85° 23' and went for 4 1/2 ft — see sketch
in ground. ^{and set a opposed stop} for 1/16 cor and from
60.9 ft.

● 117.7 feet



CS FILE FOLDER

CONTAINS

MORE

INFORMATION