

H. J. Crocker

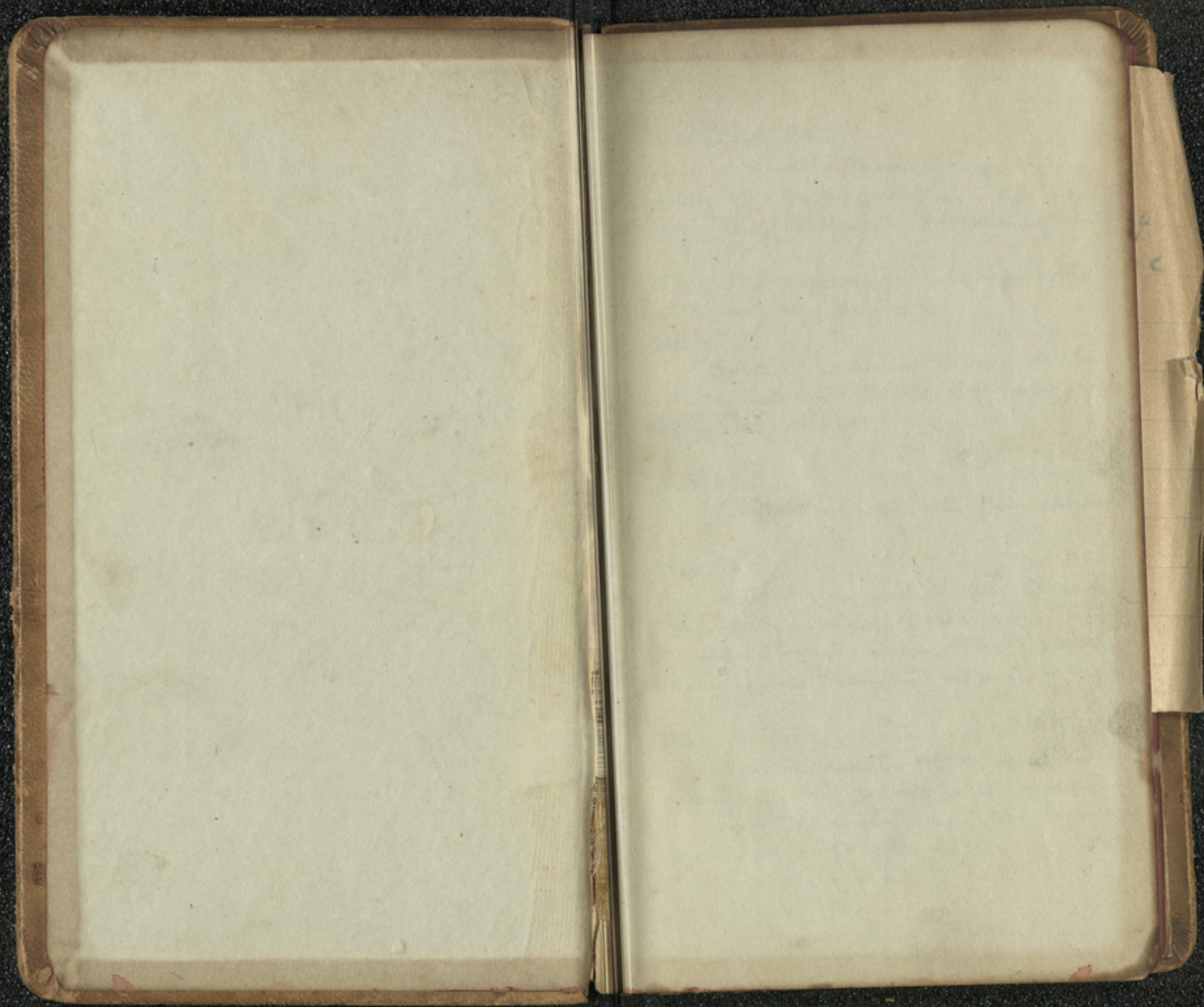
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FIELD NOTE BOOK

CROCKER LAND EXPEDITION

1913 - 1915

No. 11



Equipment

From Naval Observatory by
Authority of Hydrographic Office, U.S.
Navy Department - Washington.

In 21 boxes unpacked as follows:
(List among my papers)

Box 1.

Oct. 1913.

Books. wet on Barge Roehn
and on deck at Battle Harbor Spudgy,
but in fair shape.

Box 2.

Oct. 1913.

Excellent shape, all items check.

Box 3.

Oct. 1913.

Sextants in good shape. Alidade,
old, badly in need of cleaning, and
of adjustment more than could
have been brought about by trip up.

Box 4.

Oct. 1913.

Instrument boxes wet but
everything in good shape except
the lines of sight in the binoculars
which are not parallel.

Box 5.

Hand lead line not opened first year.

Box 6.

Hemp seizing, not opened first yr.

Box 7.

Coasting lead lines. Not open first yr.

Box 8.

Boat sounding machine. Not open 1st yr.

Box 9.

Boat sound. machine. Not open 1st yr.

Box 10.

Leads. Broken open at Bury Rocks. none lost.

?

Box 11.

Leads. Box broken open at Bury Rocks, none lost.

Box 12.

Tide gage paper, Mercury, Artificial horizons. Opened Nov 12 - B.R.

Box 13.

Box - tide gage paper, Manila paper. Not opened first winter.

Box 14.

Trijods, rubber blankets etc -
all O.K. found Nov. - 1913.

Box 15.

all O.K. Opened in September.

Box 16.

Tide gage. opened in Nov. O.K.

Box 17.

Sounding machine wire. cause
broken open. wire O.K. opened out.
1.

Box 18.

sounding machine wire.
Box broken open handling at Etah.
all O.K.

Box 19.

draining boards, triangles &
paper.

Box 20.

Telegraph instruments very rusty.
all other items O.K. Opened Sept. 28.

Box. 21

Nautical Almanac. opened Sept.

23. O.K.

Oct. 3-4-1913.

Unpacked, cleaned and oiled
syringes

10 Coats of Lacquer.	⊗	409	O.K. -	yellowish
" "	⊗	410	O.K.	green.
	⊗	411	O.K.	
	⊗	412	O.K.	

Unpacked, cleaned and oiled
stadia (alidades)

Data for Getting Height of Tides
from Ordinates on Curve:

The first measurements were for a wheel which proved to be useless.

Those below are the heights of line on paper for corresponding lengths of wire passed.

<u>Feet.</u>	<u>Paper</u>	<u>Wire</u>
1	1.02"	14.0
2	1.02"	13.75
3	1.02"	(13.20) $\pi \times 4.20$
4	1.00"	(13.05) $\pi \times 4.15$
5	1.01"	(13.45) $\pi \times 4.30$
6	1.00	13.65
7	1.00	13.45
8	1.00	13.55
9	1.00	(13.40) $\pi \times 4.32$
10	1.00	(13.43) $\pi \times 4.30$

Means: 1.007" 13.501"

$$13.507 \div 1.007"$$

$$= 13.04 = \text{Factor \#}$$

To find height of tide multi. ply ordinate of curve by Factor

Data for finding
Thickness of Ice
from
Height of Oil
in
Kerosene Pipes.

}

Data for finding the thickness
of the ice from height
of oil in kerosene
pipes.

Nov. 26-1913.



$$\text{Sp. G. Sea water} = 1.025$$

$$\text{Sp. G. Kerosene} = .76$$

x = h. of column of sea water.

$$\frac{x}{43.7} = \frac{.76}{1.025}$$

$$x = 32.3$$

$$\frac{46.0}{2.3} = 20.0$$

$$\frac{78.4}{2} = 46 - 10.4 - 32.3 = 3.9$$

$$T = 8 \times 3.9 = 31.2" \#$$

$$\frac{x}{48.7} = \frac{.76}{1.025}$$

$$x = 50.1$$

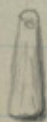
$$\frac{73.4}{5.2} = 14.1$$

$$\frac{78.4}{2} = 73.4 - 19.5 - 50.1 = 3.8$$

$$T = 8 \times 3.8 = 30.4" \#$$

Computation of ice
slide note

Thickness by staff: 31.5",
increase due to crust on top, not really
ice but snow and frozen slush.



{ Temp. of Sea Water
 { Thickness of Sea Ice.

	Temp	Th.
Oct. 1	+33.5 F	00.0
Oct. 20	—	16.3 in.
Oct. 27	—	18.0 in.
Nov. 3	—	23.5 in.
Nov. 10	—	27.5 in.
Nov. 17	—	30.5 in.
Nov. 24	+28.5°	32.5 in.
Nov. 30	+29.0°	34.0 in.
Dec. 18	+29.0°	40.8 in.

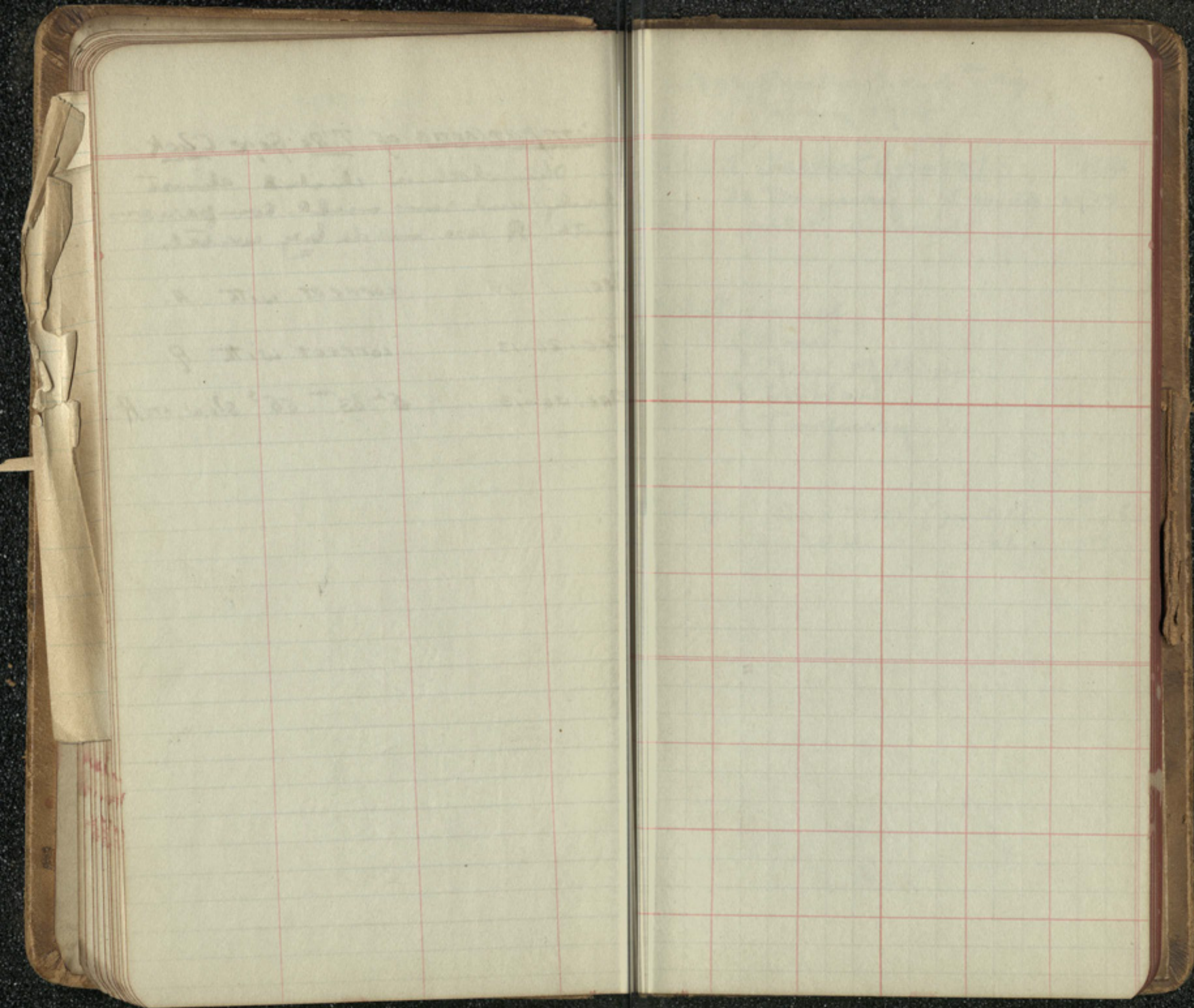
Comparisons of Tide Gage Clock

This clock is checked almost daily and runs well. Comparisons with A are made by watch.

Dec. 1-13 correct with A.

Dec. 20-13 correct with A.

Dec. 30-13 5^h 03^m 56^s slow on A



-For Crocker Island Trip
Spring 1914

E & S Sextant (pocket) #16
Do Tanquary - Jan. 23 - 1914
Also pocket aneroid
.....

Pocket aneroid to
{ Hunt
 Mac Millan
 Ekblaw
 Tanquary.

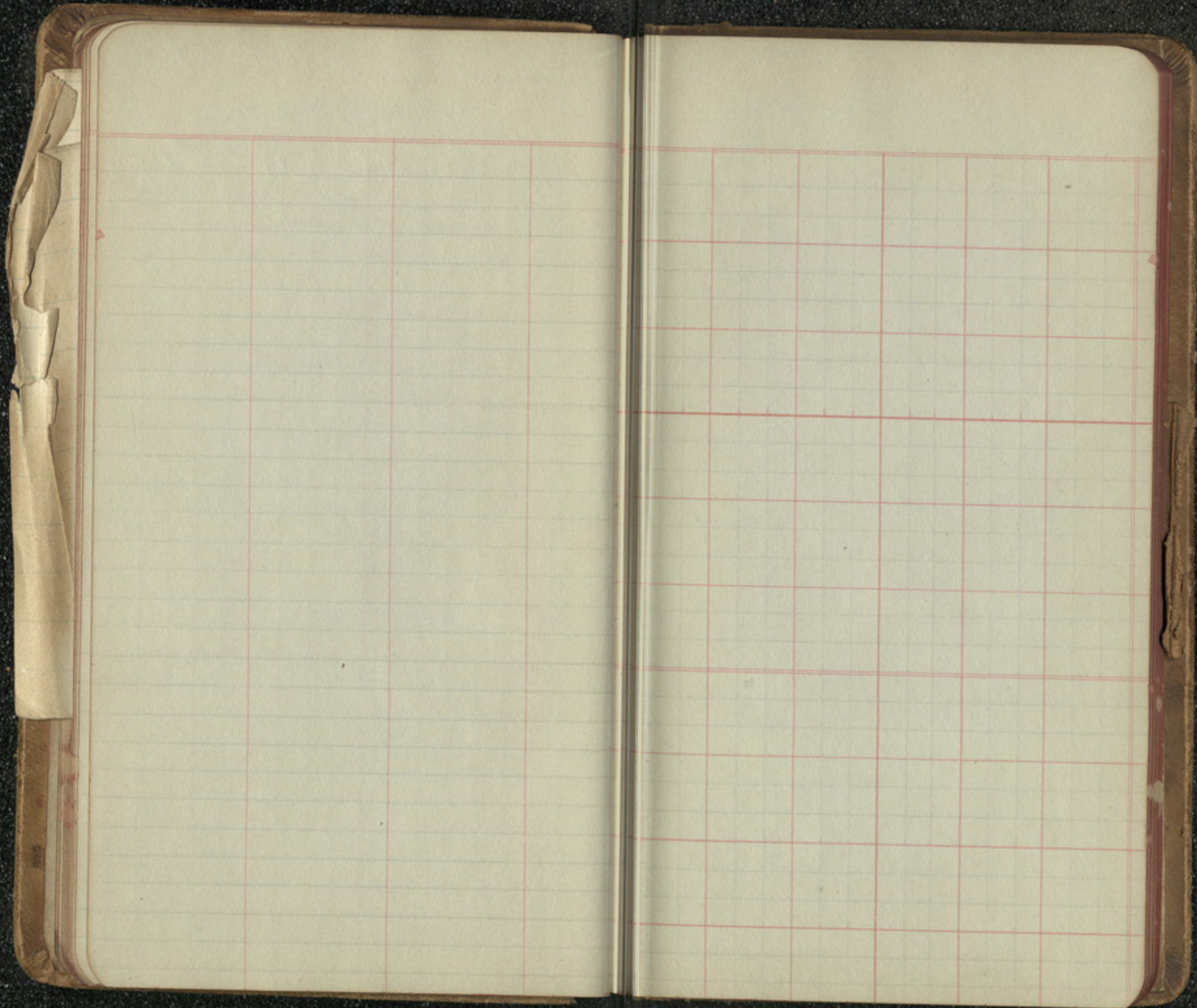
E & S Sextant (pocket) #17
Do Ekblaw - Feb. 6 - 1914

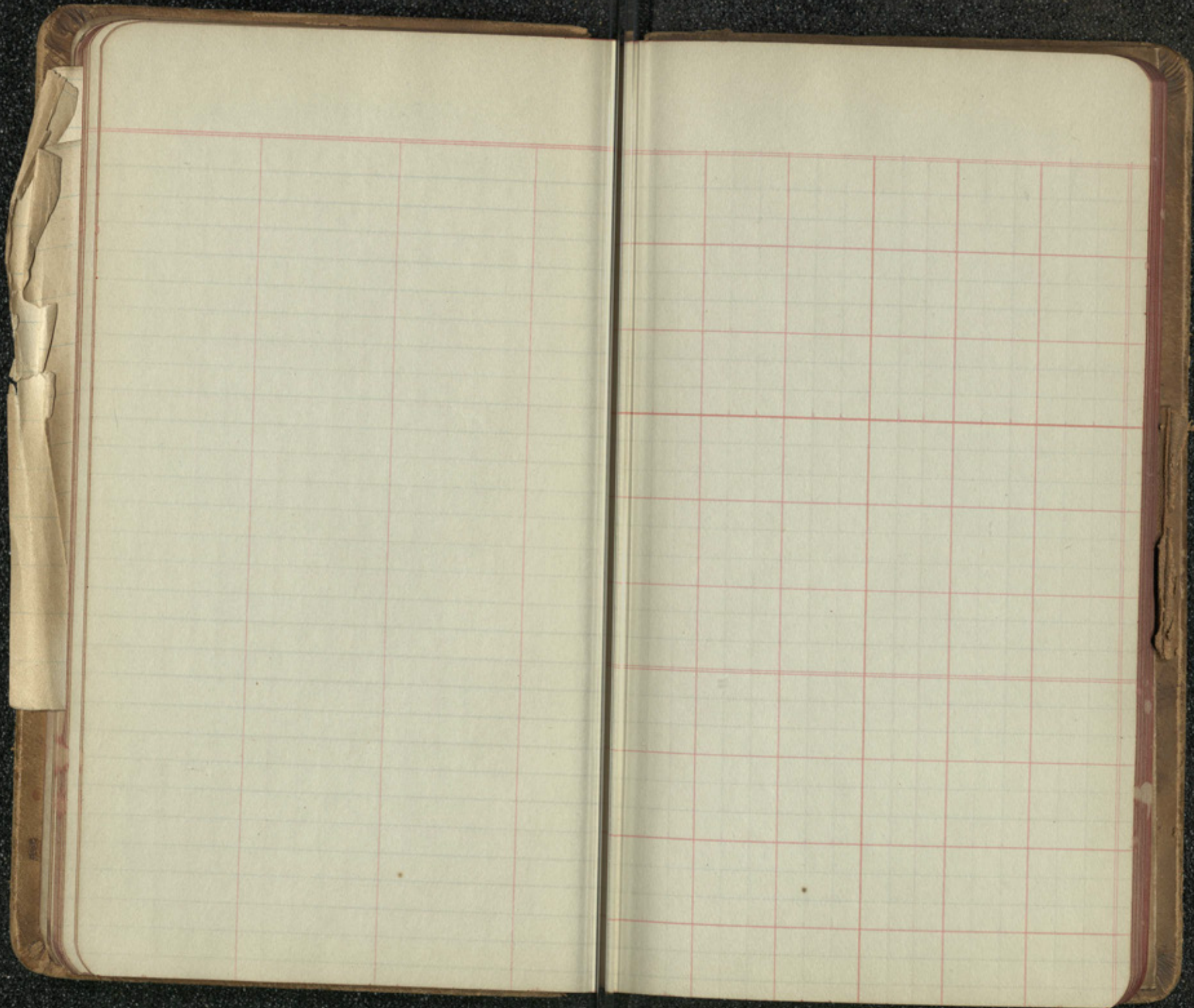
for Cocker and Top
Sept 1902

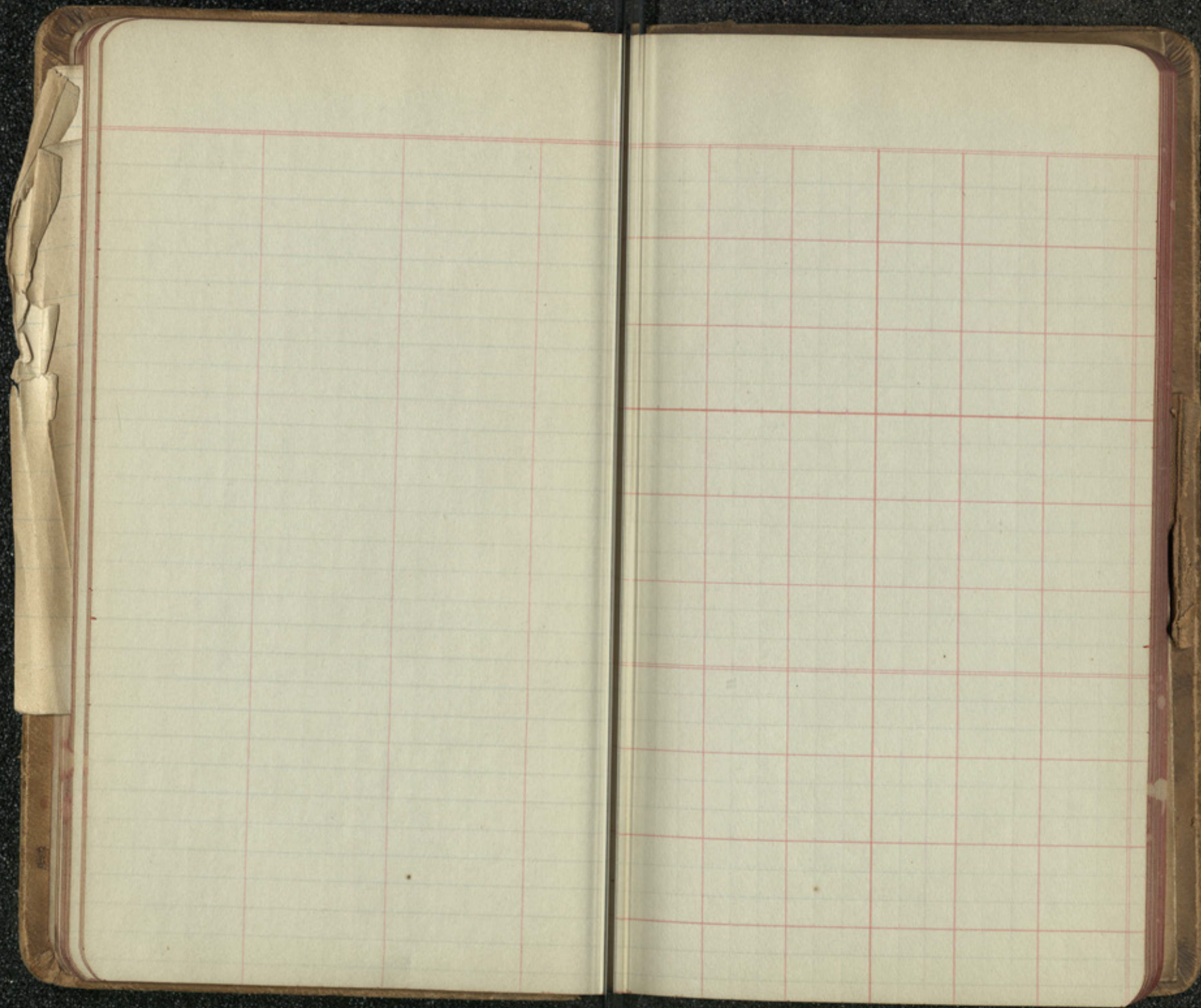
Sept 2 (Friday) 1902
Sept 3 (Saturday) 1902
Sept 4 (Sunday) 1902
Sept 5 (Monday) 1902
Sept 6 (Tuesday) 1902
Sept 7 (Wednesday) 1902
Sept 8 (Thursday) 1902

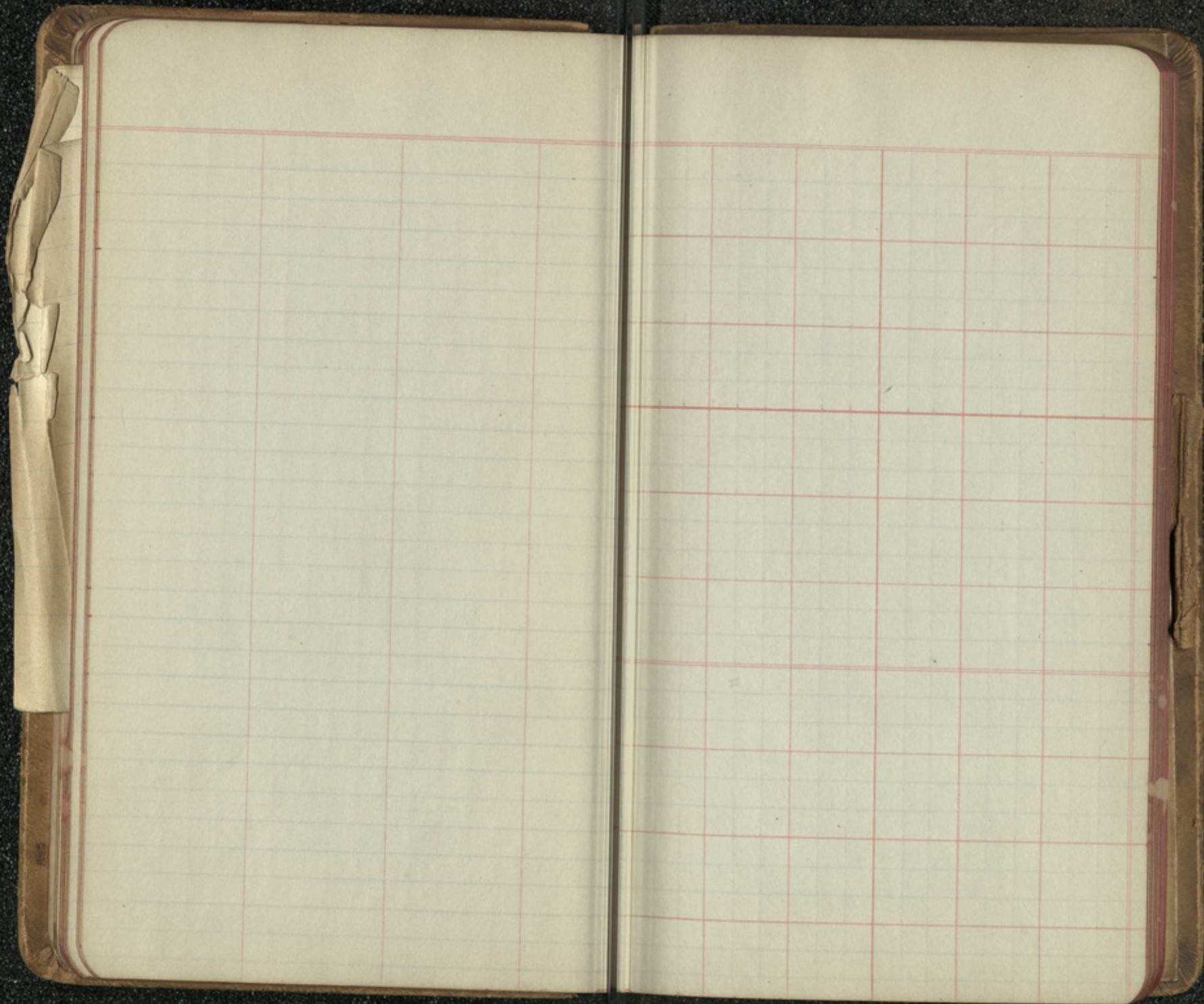
Sept 9 (Friday) 1902
Sept 10 (Saturday) 1902
Sept 11 (Sunday) 1902
Sept 12 (Monday) 1902
Sept 13 (Tuesday) 1902
Sept 14 (Wednesday) 1902
Sept 15 (Thursday) 1902
Sept 16 (Friday) 1902
Sept 17 (Saturday) 1902
Sept 18 (Sunday) 1902
Sept 19 (Monday) 1902
Sept 20 (Tuesday) 1902
Sept 21 (Wednesday) 1902
Sept 22 (Thursday) 1902
Sept 23 (Friday) 1902
Sept 24 (Saturday) 1902
Sept 25 (Sunday) 1902
Sept 26 (Monday) 1902
Sept 27 (Tuesday) 1902
Sept 28 (Wednesday) 1902
Sept 29 (Thursday) 1902
Sept 30 (Friday) 1902

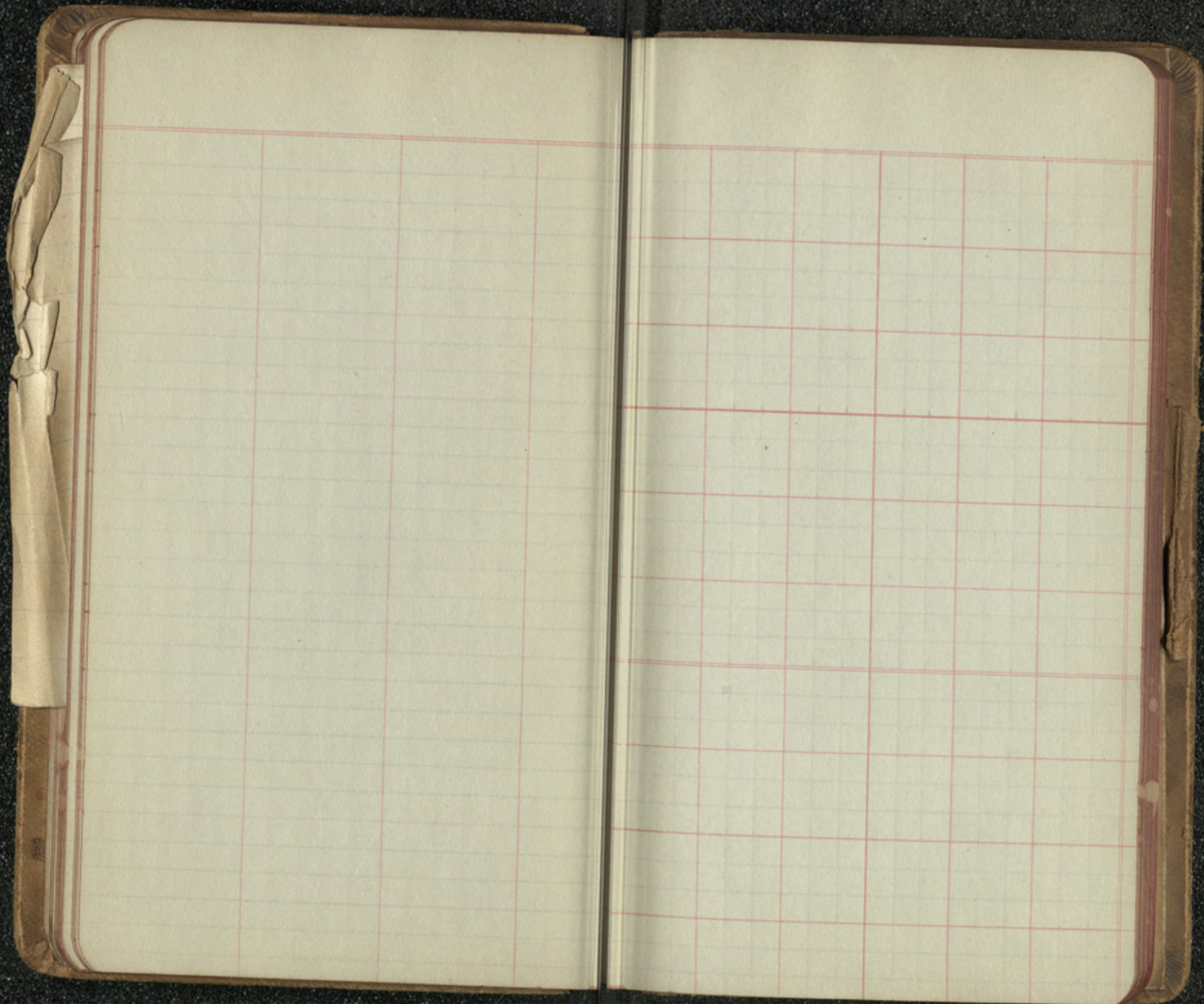
Sept 31 (Saturday) 1902
Sept 32 (Sunday) 1902
Sept 33 (Monday) 1902
Sept 34 (Tuesday) 1902
Sept 35 (Wednesday) 1902
Sept 36 (Thursday) 1902
Sept 37 (Friday) 1902
Sept 38 (Saturday) 1902
Sept 39 (Sunday) 1902
Sept 40 (Monday) 1902
Sept 41 (Tuesday) 1902
Sept 42 (Wednesday) 1902
Sept 43 (Thursday) 1902
Sept 44 (Friday) 1902
Sept 45 (Saturday) 1902
Sept 46 (Sunday) 1902
Sept 47 (Monday) 1902
Sept 48 (Tuesday) 1902
Sept 49 (Wednesday) 1902
Sept 50 (Thursday) 1902
Sept 51 (Friday) 1902
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Sept 75 (Monday) 1902
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Sept 85 (Thursday) 1902
Sept 86 (Friday) 1902
Sept 87 (Saturday) 1902
Sept 88 (Sunday) 1902
Sept 89 (Monday) 1902
Sept 90 (Tuesday) 1902
Sept 91 (Wednesday) 1902
Sept 92 (Thursday) 1902
Sept 93 (Friday) 1902
Sept 94 (Saturday) 1902
Sept 95 (Sunday) 1902
Sept 96 (Monday) 1902
Sept 97 (Tuesday) 1902
Sept 98 (Wednesday) 1902
Sept 99 (Thursday) 1902
Sept 100 (Friday) 1902

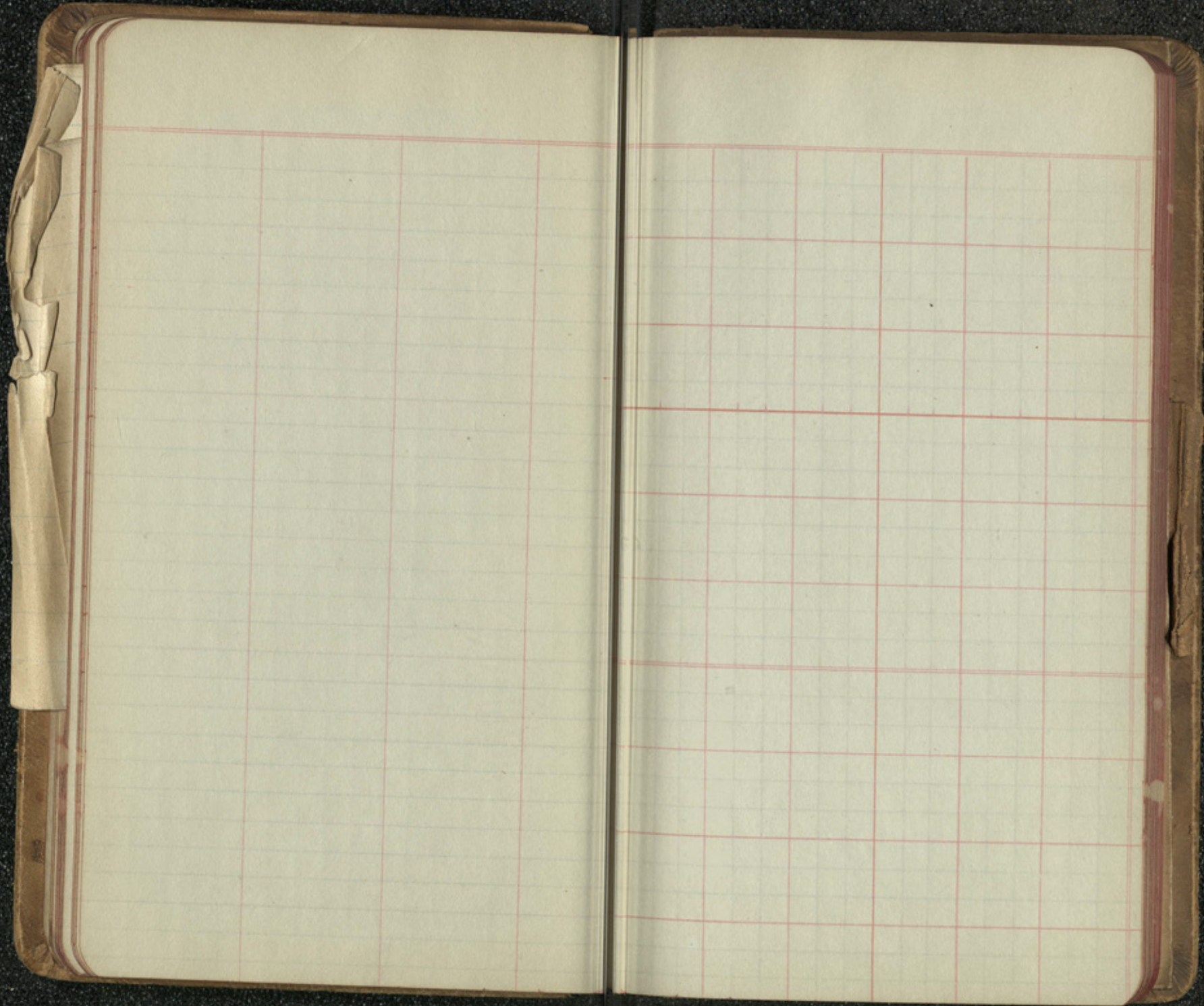


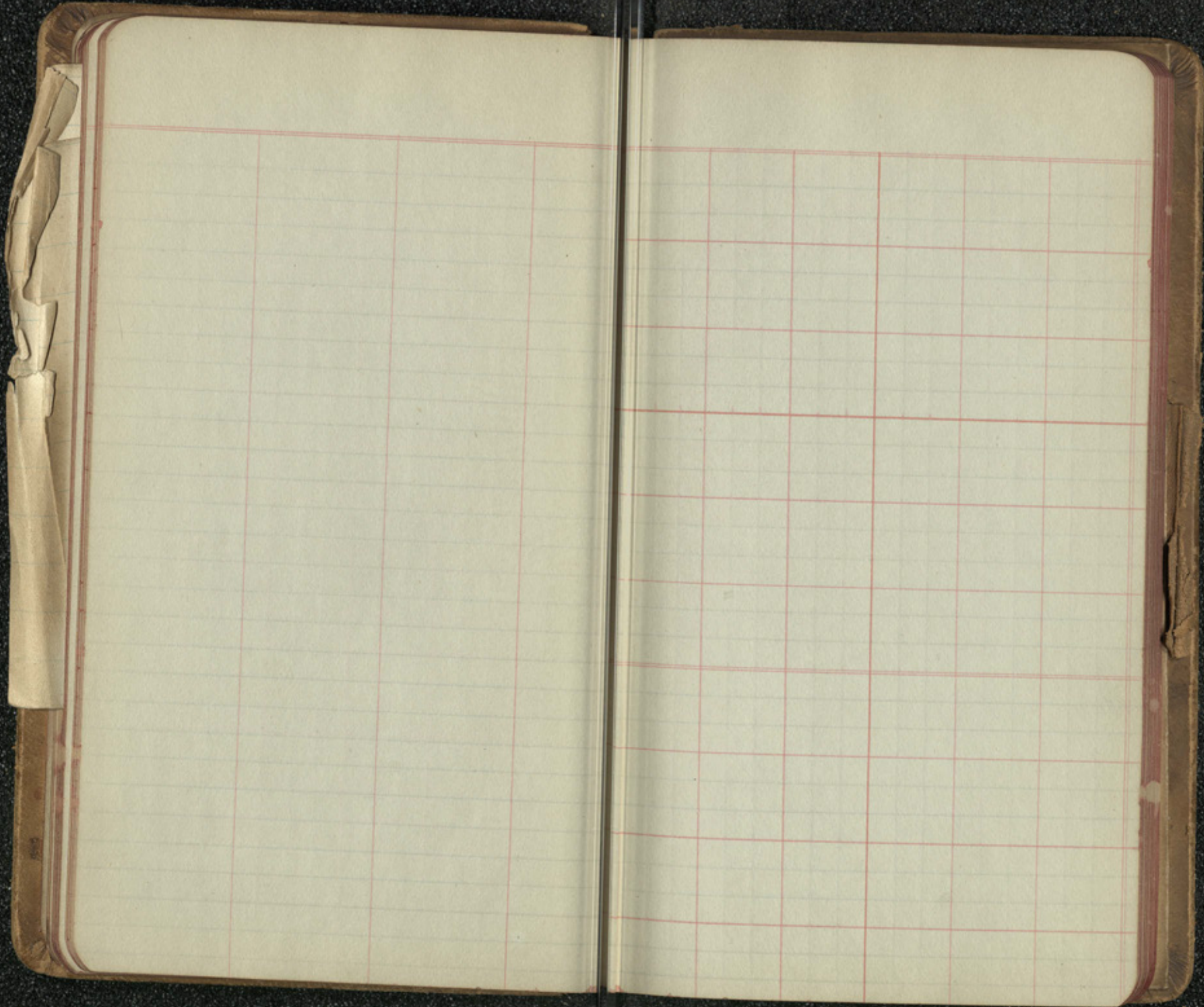


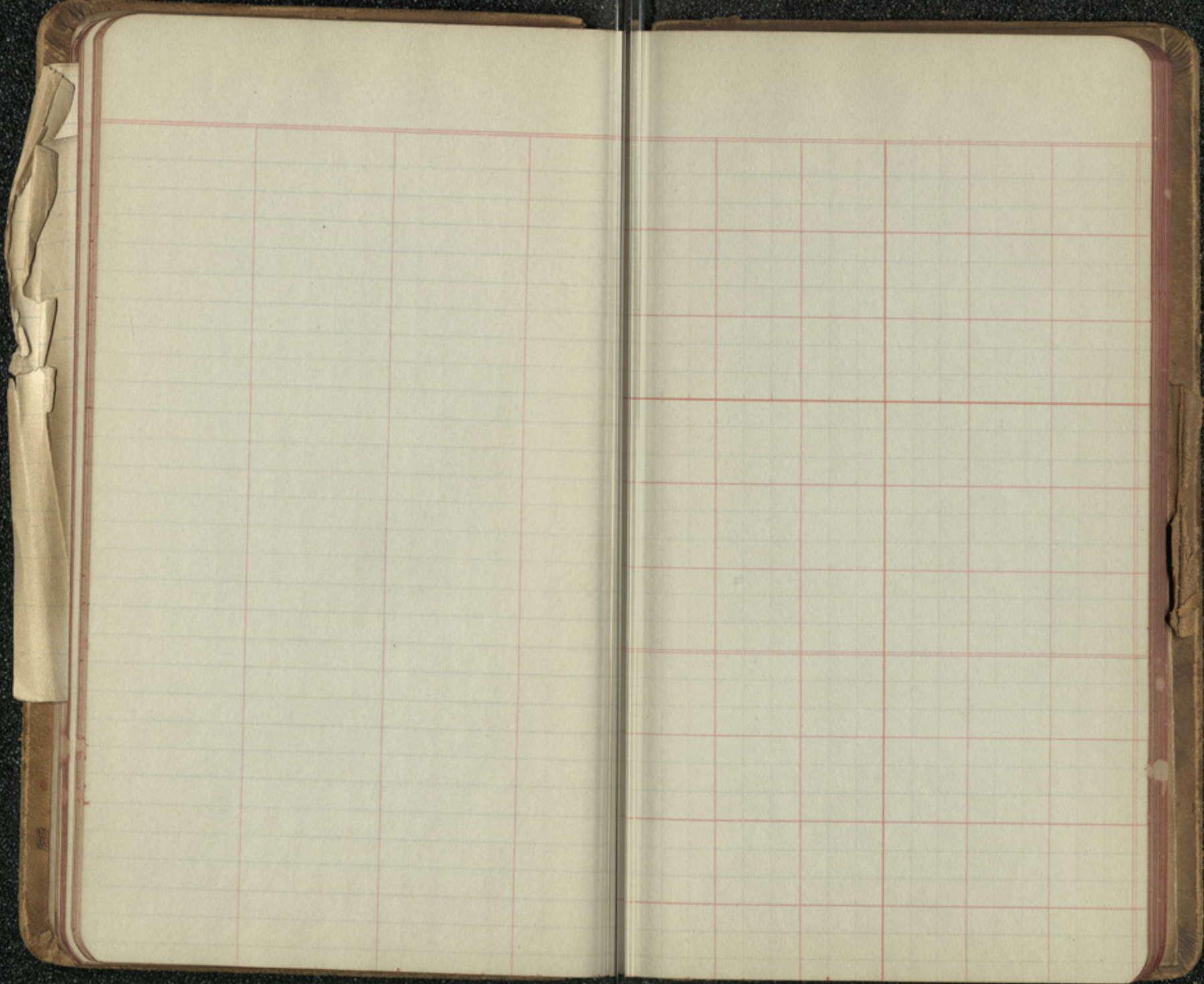


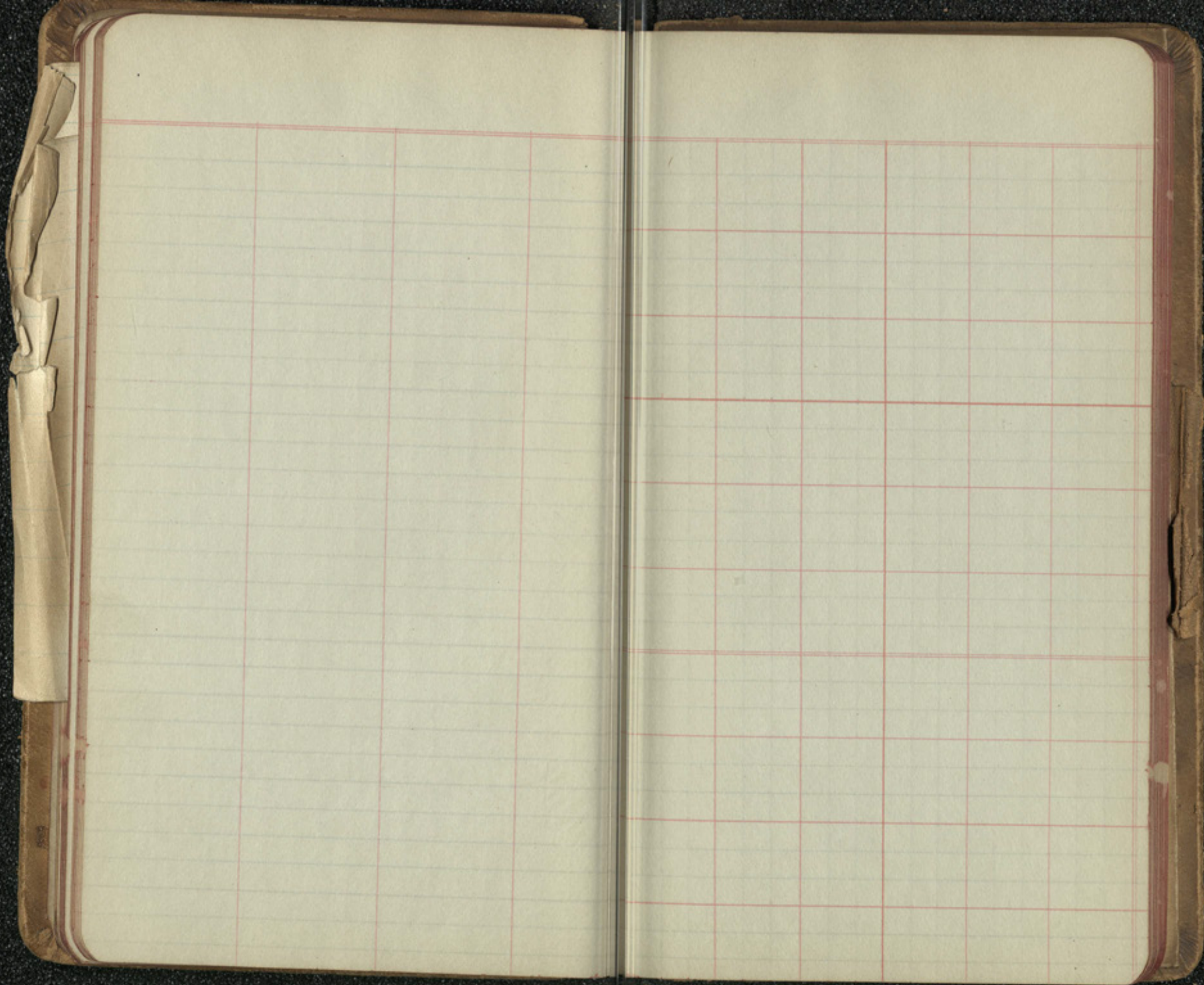


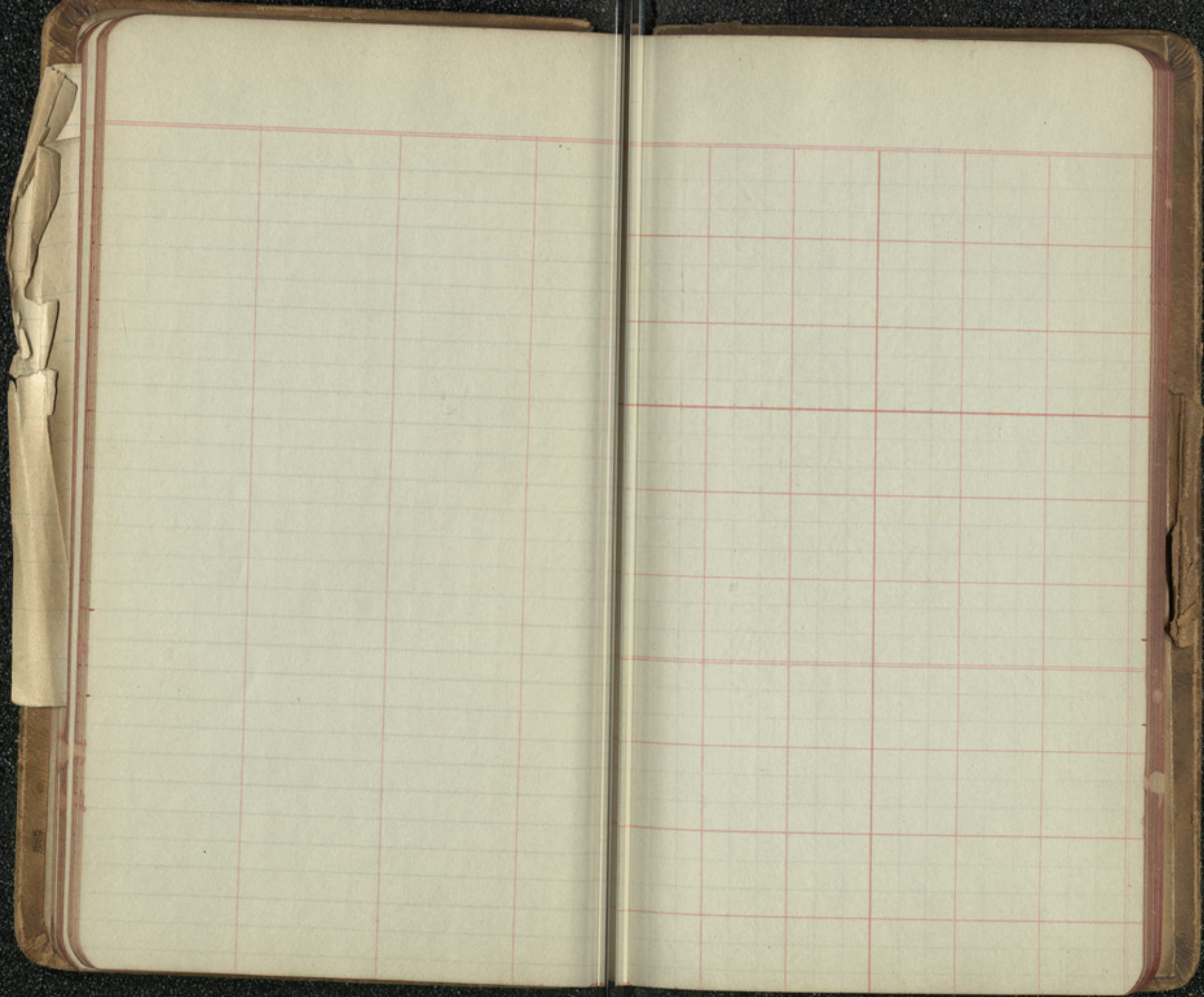


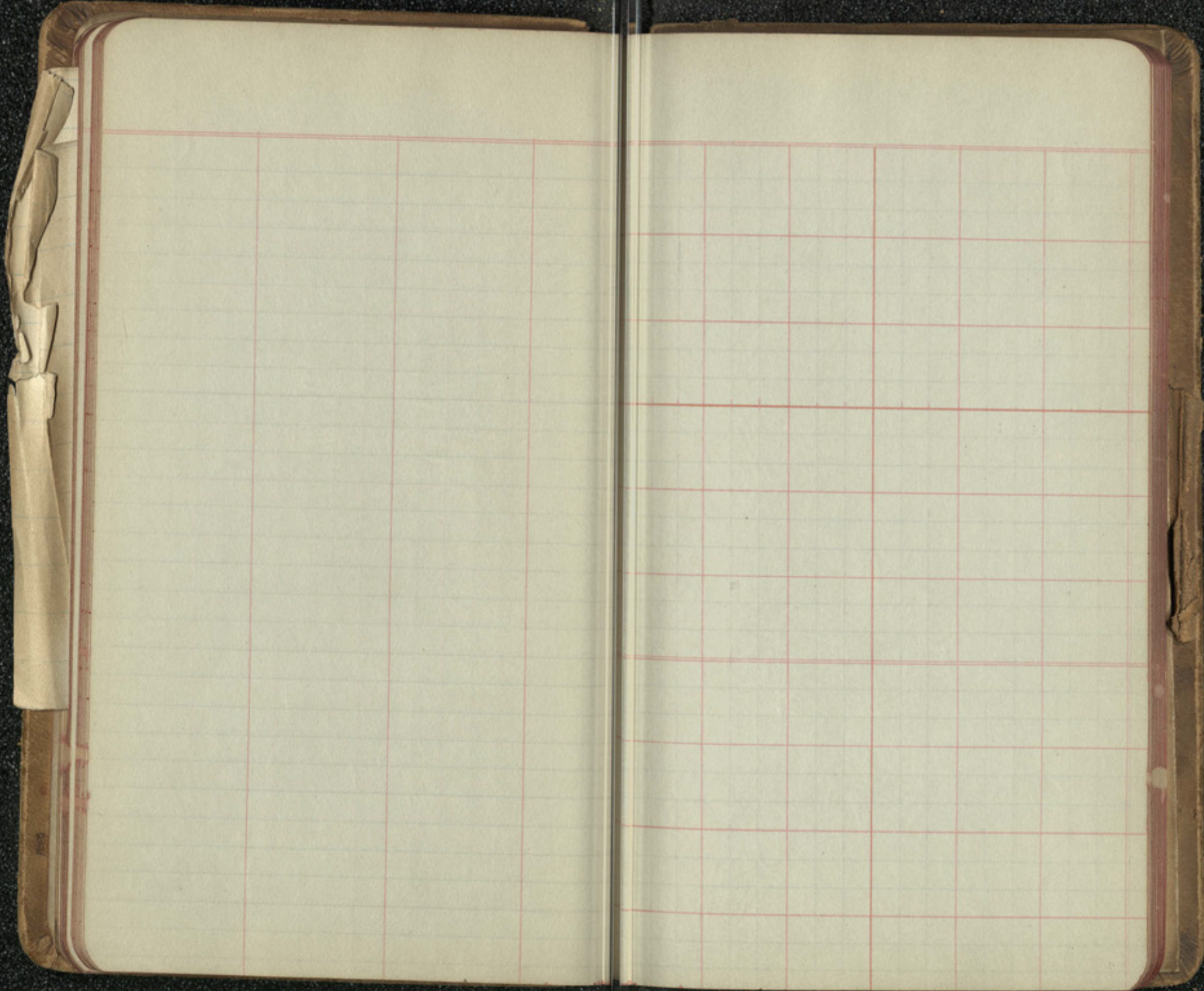


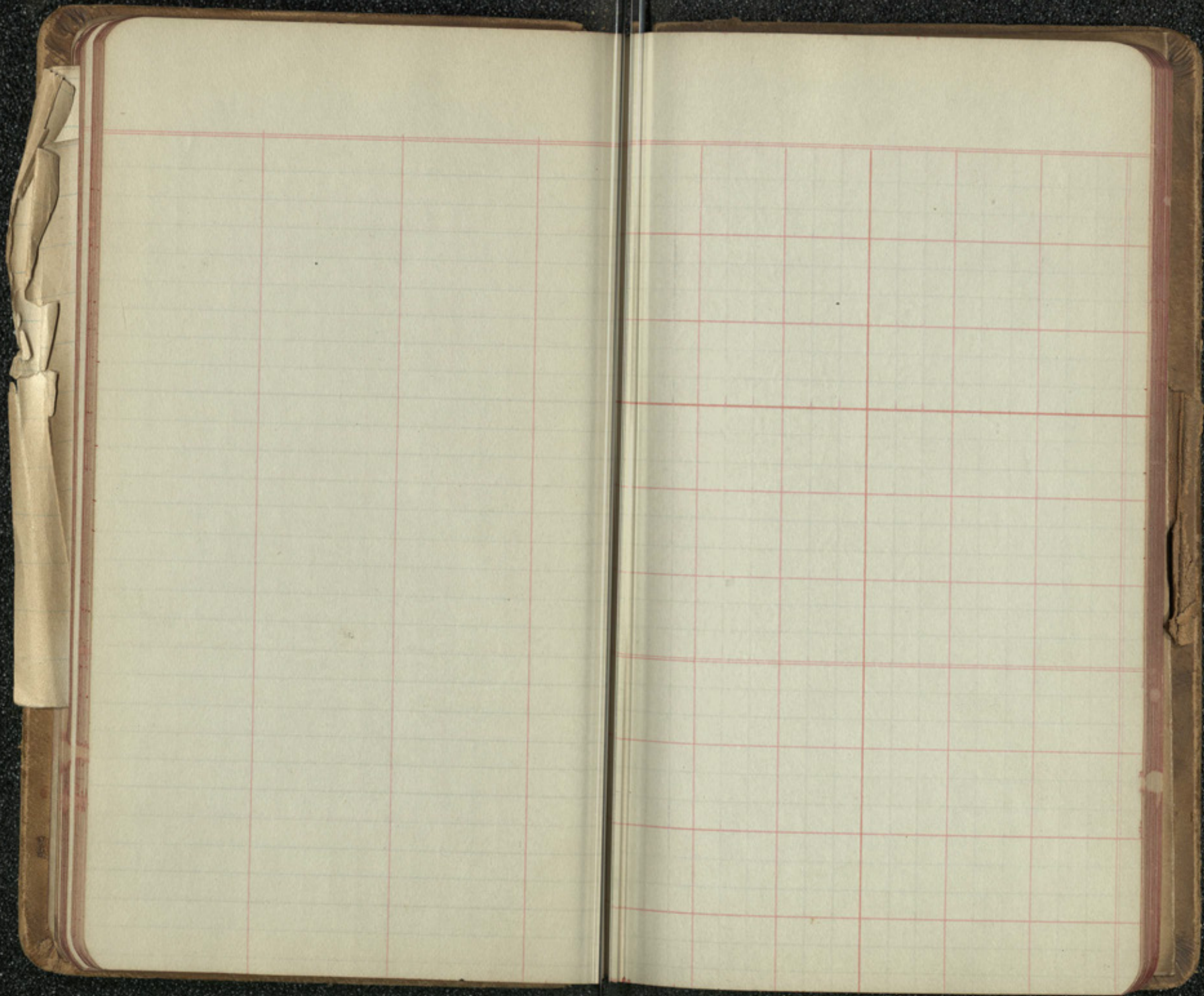


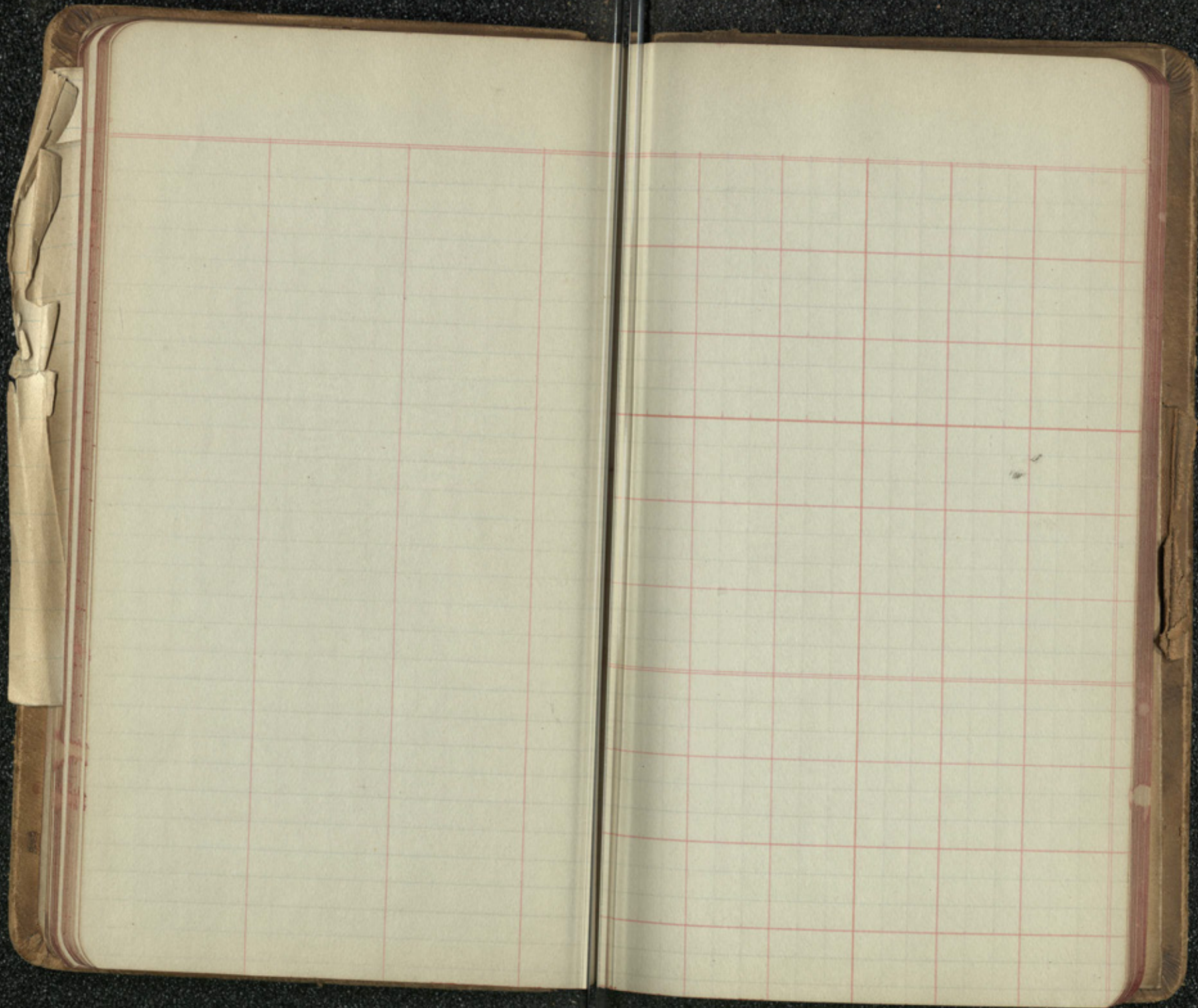


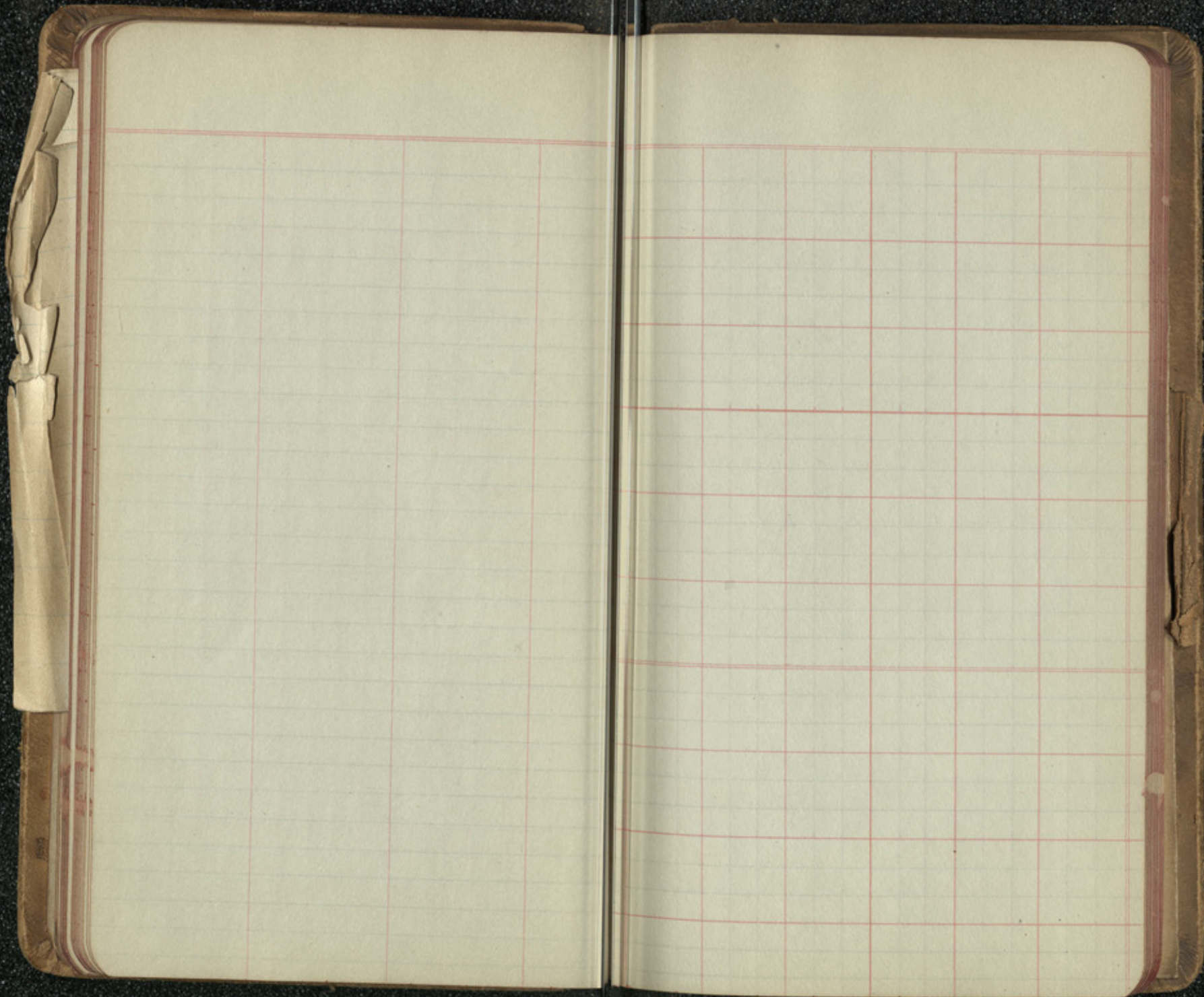












Friday Oct. 17-13.

A 12 28 00

B 7 44 06

B 4 43 54 slow on A.

* Altair alt-az.

Mark 192 34.0
192 34.5

t 9 53 50

Z 180 21 00

a 17 20 00

I.C. + 5'

t 9 30 12

Z 190 04.5

a 16 02.5

IC + 4'

t 9 48 05

Z 194 17.5

a 15 14.5

I.C. + 6'

Mark 192 34.0
192 34.0

Friday, Oct. 17 - 1913.

* Vega alt. az.

t	10	16	27
Z	226	54.0	
a	39	30.0	

t	10	27	15	i.c. +1
Z	229	30.5		
a	38	58.5		

t	10	49	51
Z	235	13.0	
a	37	55.0	

M	192	36.0
M	192	35.0

H	6	36	00
B'	1	52	08
B'	4	43	52

How on H

H	6	37	00
B'	1	53	08
B'	4	43	52

Temp. -3° F

Bright & overcast

Wind NE 3-4.

Barometer 29.64.

Chronometer Corrections

Occultations:

Dec. 11th '13 17-Tauri (3.8)

Star too faint. Drifting snow.

η Tauri (3.0)

Star too faint for telescope used.

Dec. 15th '13

Mars (-1.0)

On trip to Ellersmere Island. Sleeping
at time of occultation.

- Jan. 7th

η Tauri (3.0)

Drifting snow.

- Jan. 10th

Mars (-1.0)

75 th mep. T	0'	20	40.3
C.T.	0'	25	35.8
C.C.		5	04.5

(not absolutely reliable. Regular
rate maintained.)

February 6-1914

Spars (-25)

W. S. T. 0' 19 20.2

C. T. 0' 24 27.3

C. 2. 2.9

High cirrus cloud clearing
Probably unreliable. Cold water main
Tained -

