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Marron Dam Axis #1

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730' Cont. on N.S. to Baldy line

1-4

## 730' Contour Traverse on North

Sta.	Az.	H.L.	Dist	Bear.	Elev.
N-17	329°30		2300		730
N-16	329°12		2200		
N-15	330°15		2140		
N-14	334°36		2000		
N-13	338°33		2040		
N-12	339°22		2060		
N-11	339°30		2000		
N-10	345°15		1920		
N-9	350°00		1925		
N-8	353°27		1960		
N-7	356°17		1900		
N-6	1°15		1890		
N-5	9°20		2000		
N-4	10°40		2040		
N-3	12°53		1910		
N-2	17°44		1790		
N-1	21°35		1720		
to N-0	26°24		1700		730
At A		+4.1 735.1			
to A	272°03		362'		-1 731.0
to #680 <sup>changed</sup>	112°43		62'	367°17 E	+8 727.2
to N side	14°20	732.0	1590		
At B-0					
o → south end of Dam Axis					727.2
					set new point - X in rock

Side of Tia Juana River from Marren Dam site  
downstream to P.I. with Bdry line ①

Aug. 29-30

30

P.O.G.

At B. 368°17 E

used N-Side Elev = 730

Note: using hub #680 set end point - but reading  
on N-0 hubs are 2.7' higher - all others on S-Side 1.3' higher

Sta	Az	H.L.	Dist.	Bear.	EL.
N-32	304°52		2240		
N-31	314°56		2230		
N-30	316°56		2340		
N-29	319°33		2160		
N-28	323°20		2120		
N-27	327°02		2150		
N-26	329°32		2070		
N-25	333°00		2120		
N-24	334°12		2200		
N-23	334°50		2120		
to N-22	335°57		2130		730
Tot D		+45 733.9			
to D	248°10		445'		-46 729.4
Tot C		+4.45 736.0			
to C	252°03		147'		731.56
to Topog Δ	255°12		50'		730.8
Tot B		4.55 735.65			
B	271°04		290'		-4.0 731.1
N-21	319°42		2240		
N-20	324°16		2200		
N-19	327°40		2240		
to N-18	328°36		2220		
Tot A		735.1			731.0

⑤  
Aug. 23-30  
1906.

Sta	Az	H.I.	Dist	Bear.	Elev.
N-55	277°04		2560		
N-54	278°33		2460		
N-53	280°23		2460		
N-52	282°02		2440		
N-51	286°14		2590		
N-50	287°20		2700		
N-49	287°58		2700		
to Rock Monument	288°00		2700		- 68 727.4
N-48	288°16		2740		
N-47	290°00		2600		
N-46	290°26		2520		
N-45	291°10		2440		
N-44	292°20		2400		
N-43	294°12		2300		
N-42	297°26		2400		
N-41	298°24		2420		
N-40	298°40		2400		
N-39	299°50		2460		
N-38	300°25		2510		
N-37	301°30		2400		
N-36	303°04		2400		
N-35	303°40		2360		
N-34	<del>cont. runs N-E 40'</del>				
to N-33	303°50		2400		730
Tot. D		733.9			

Aug. 29-30

Sta. Az H.I. Dist Bear Elev

Levels to check slope elev.

729.4 elev. D'

1.33 730.73

13.55 717.18

0.25 717.43

15.90 701.53

3.83 705.36

T.P. 587

9.60 695.76 = 696.1

See below

to T.P. 573 234°10'

370'

At T.P. 587

to Bustamente point

T.P. 587 352°02.6

V.A. = 1687  
d. = 125' = 115.4'

696.1

Y = ?

to N 56 275°20'

2500

730

= Bdry Fence line set hub T.P. 199

At D'

733.9

Triangulation at Dam site  
With Bustamente tie line

P.O.C. Aug. 29-30

$$163.48 \text{ mts} = 536.38 = \log 2.729473 \checkmark$$

$$\sin 47^{\circ} 25' = \frac{2.596524 \checkmark}{9.867057 \checkmark}$$

$$\sin 22^{\circ} 36' = \frac{2.643981 \checkmark}{9.584361 \checkmark}$$

$$3.012163 = 1028.4 \text{ ft. } \pm 313.44 \text{ mts}$$

$$536.38 = 2.729473$$

$$\sin 56^{\circ} 11' = \frac{2.643981}{9.919508}$$

$$\sin 53^{\circ} 49' = \frac{2.742030}{9.906941}$$

$$2.742030 = 552.1 = 168.22 \text{ mts}$$

by Stadia 1885

1028.4

1580.5 Length of Axis at El. 730

to pipe with cap Sec. 32 / Sec. 33

535

from Bdry line  
1030' Lt

Bustamente "B2" hub

Chained base on Bdry  
line 536.38

in order to determine length of  
Axis at Elev 730 U.S.G.S.

by stadia 1885

Bustamente "B1" hub

730 cont.  
Flag

1028.4  
DAM AXIS

70°00'

U.S.  
Mex.

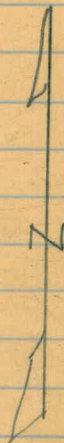
Bdry line

set hub on P.I.

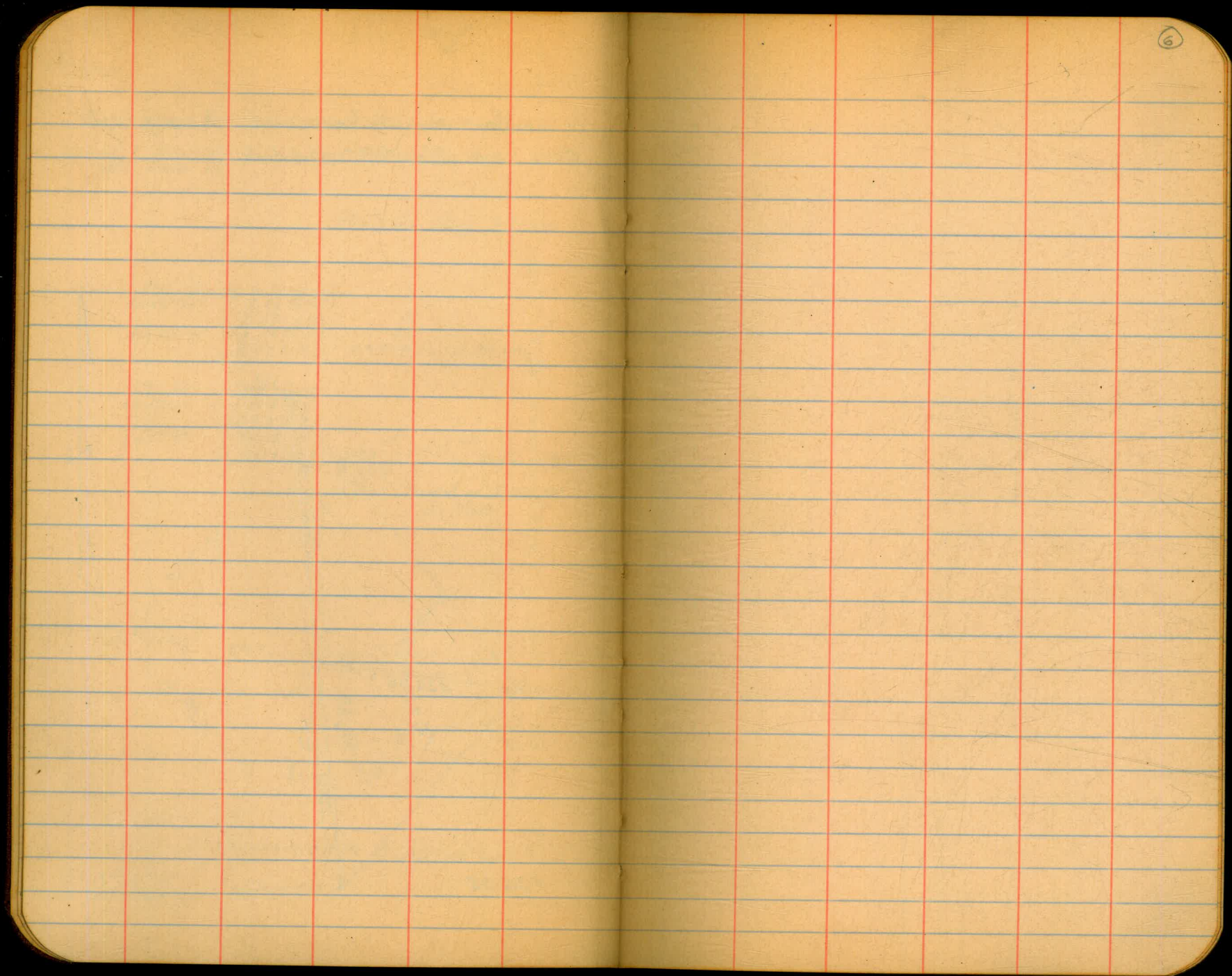
40°30'

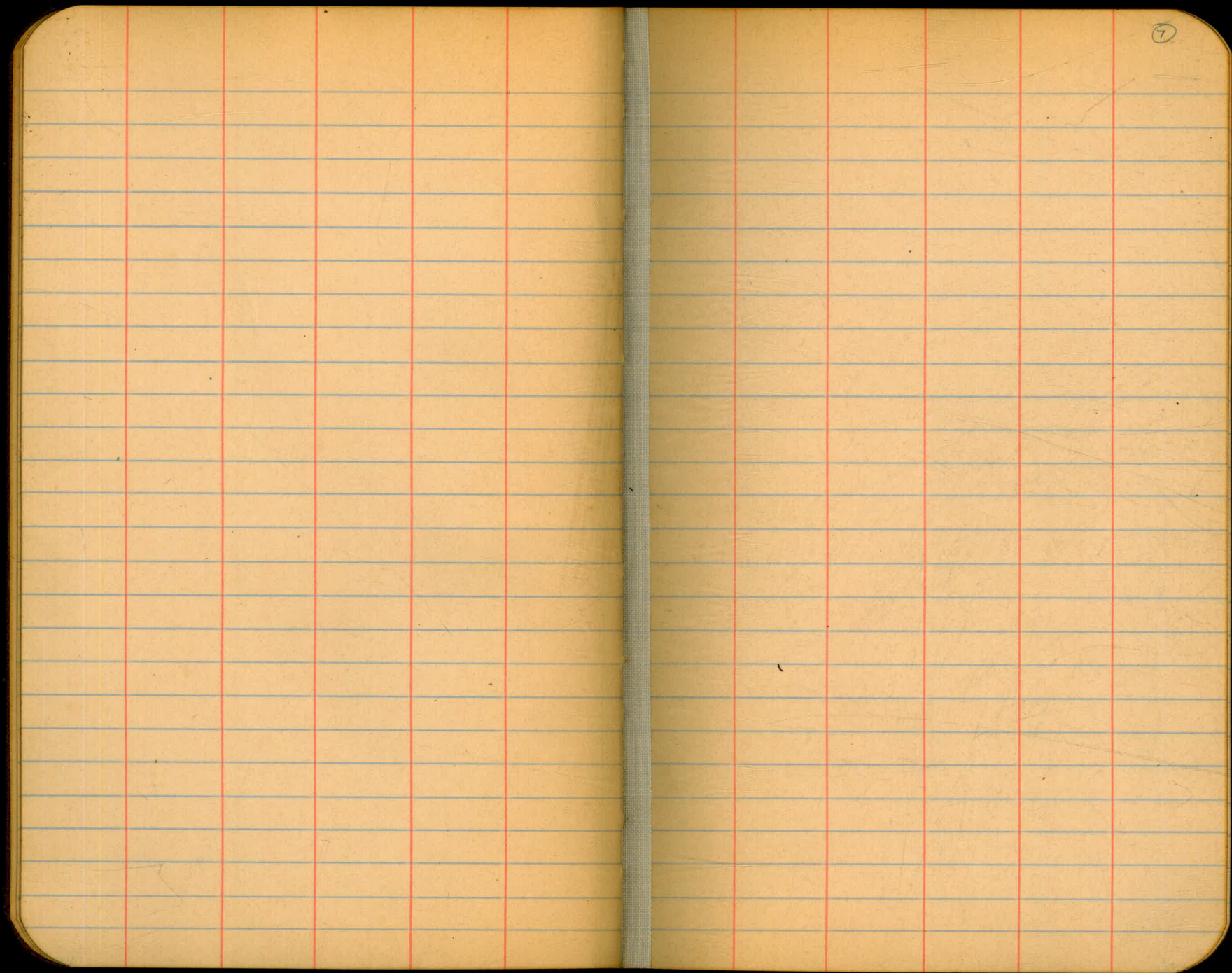
727.2 Flag

to flag on  
s-side 730 cont.

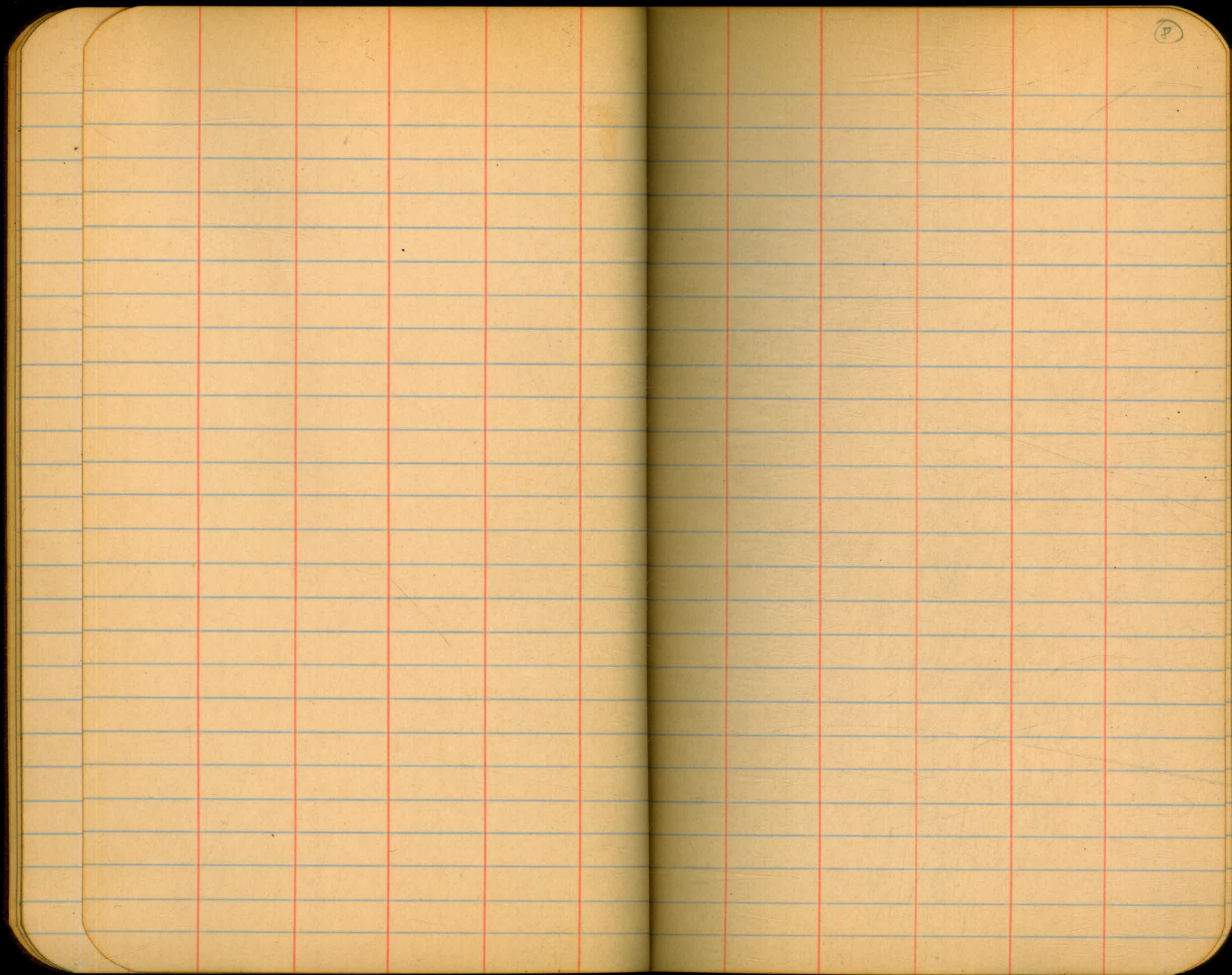


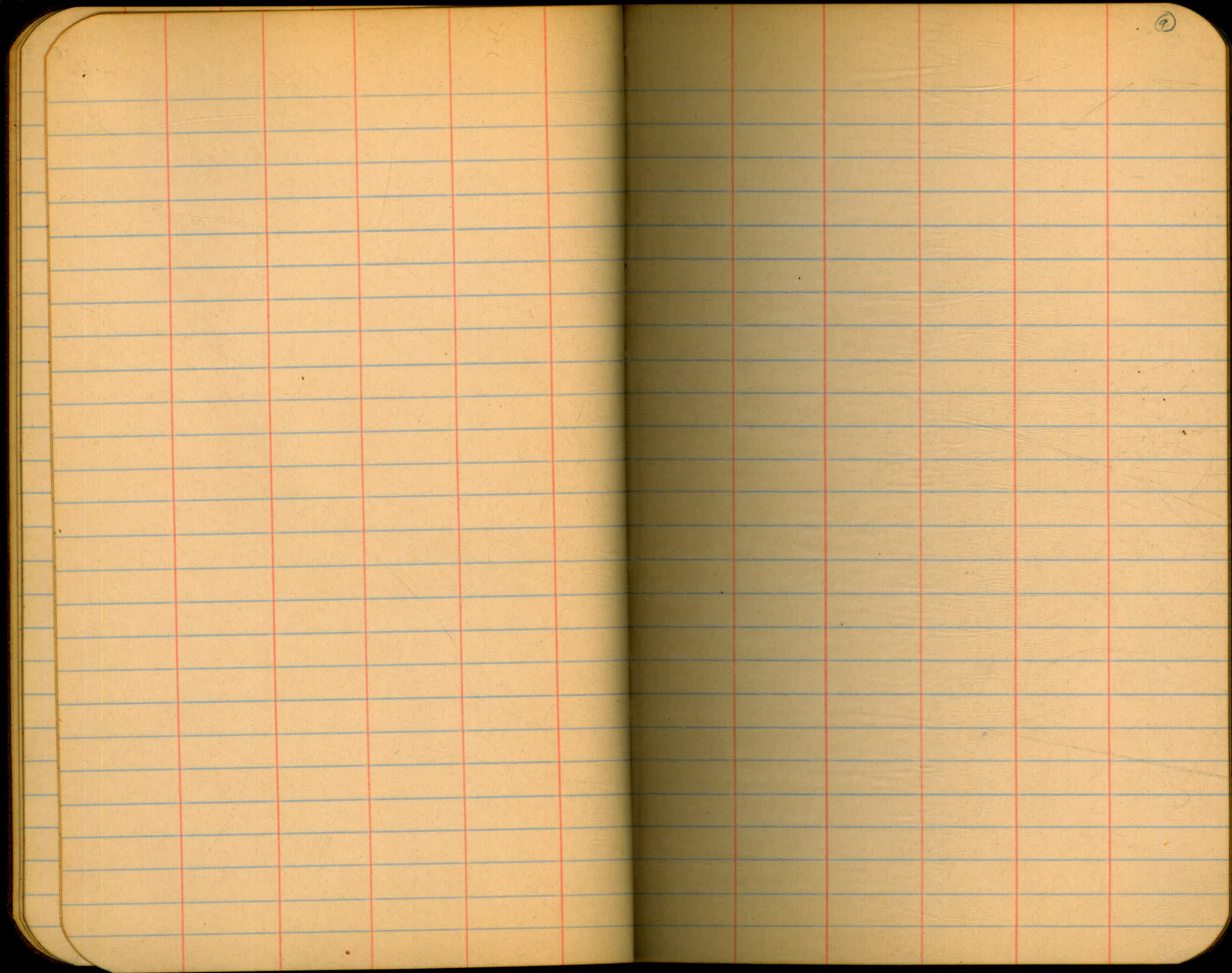




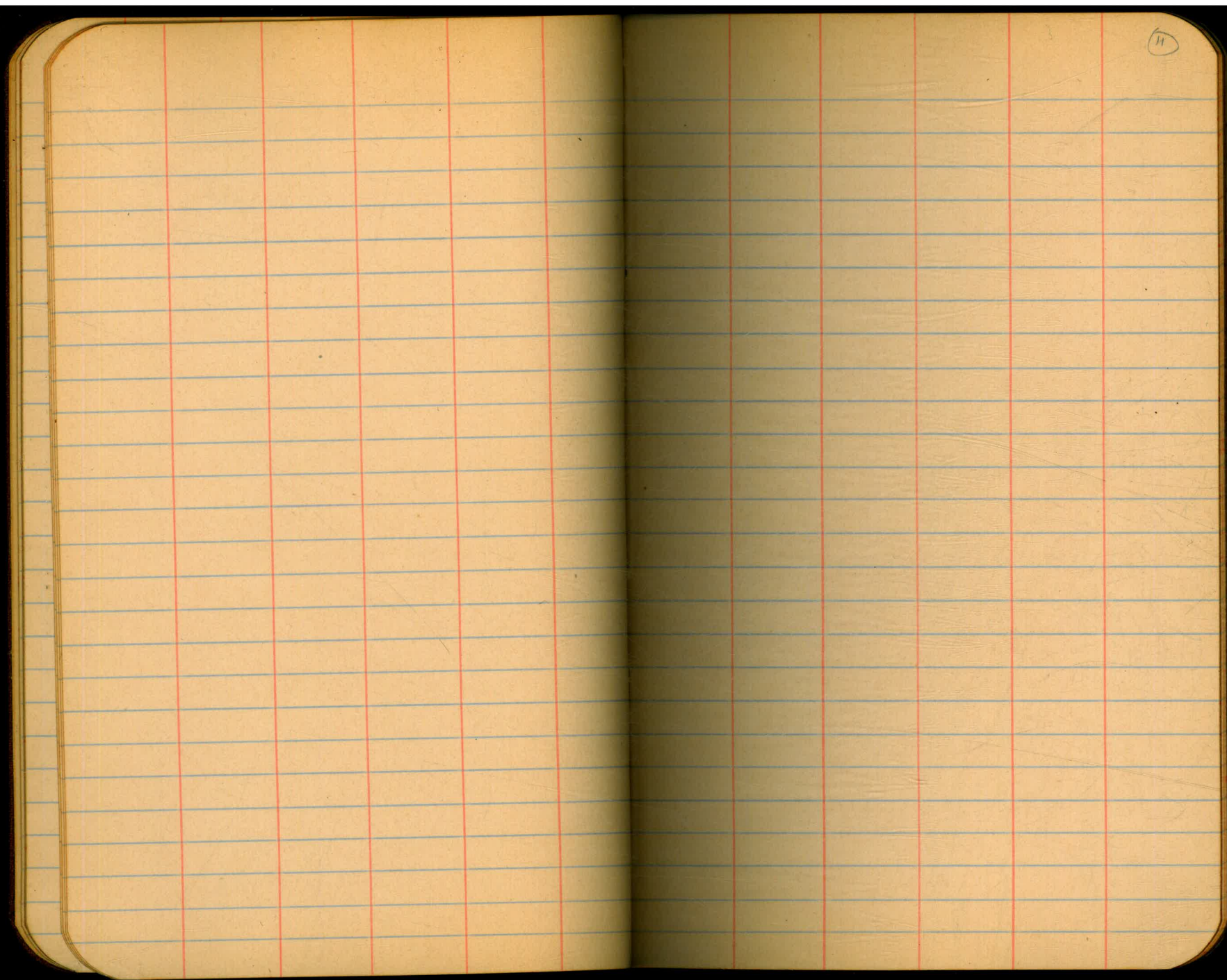


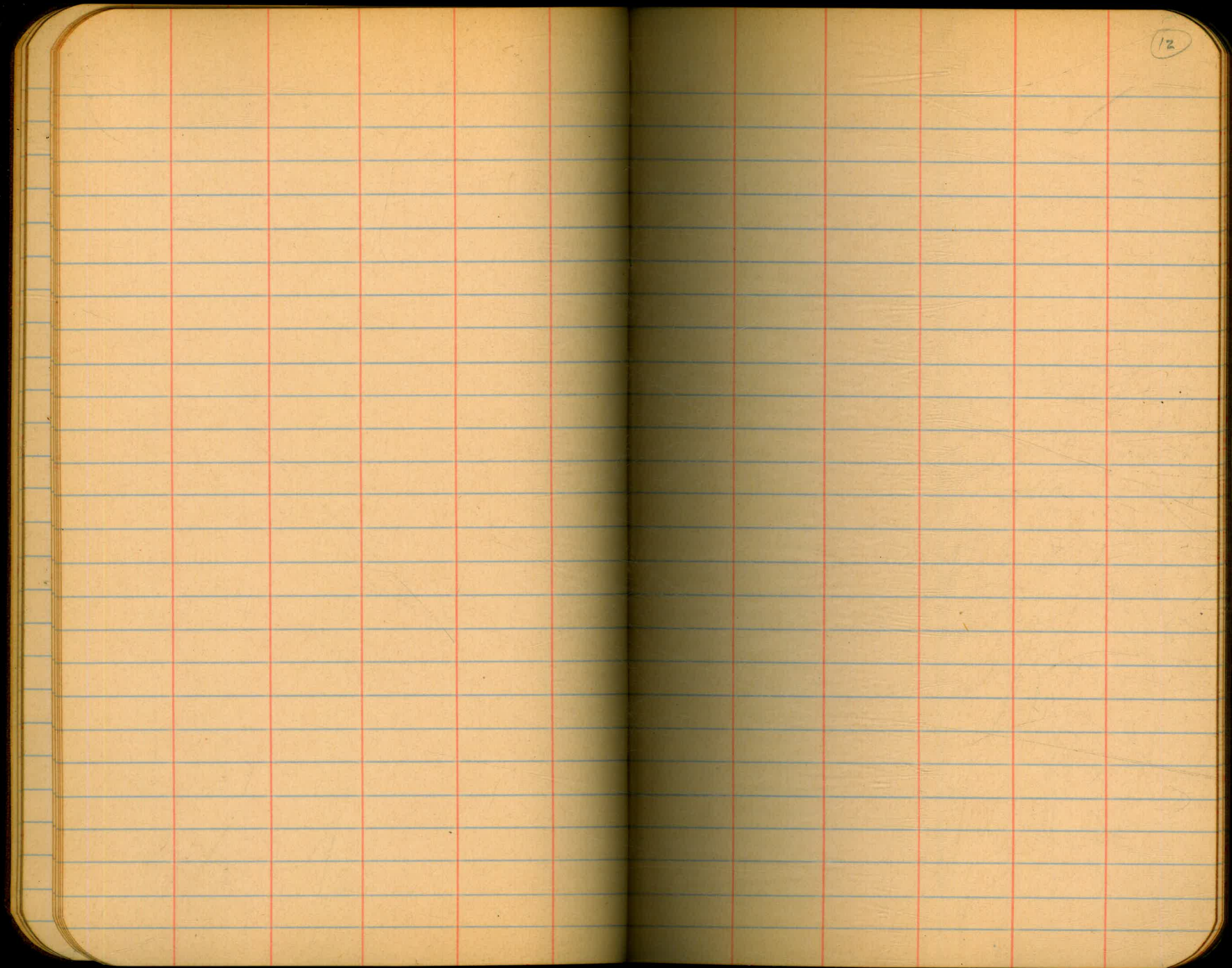
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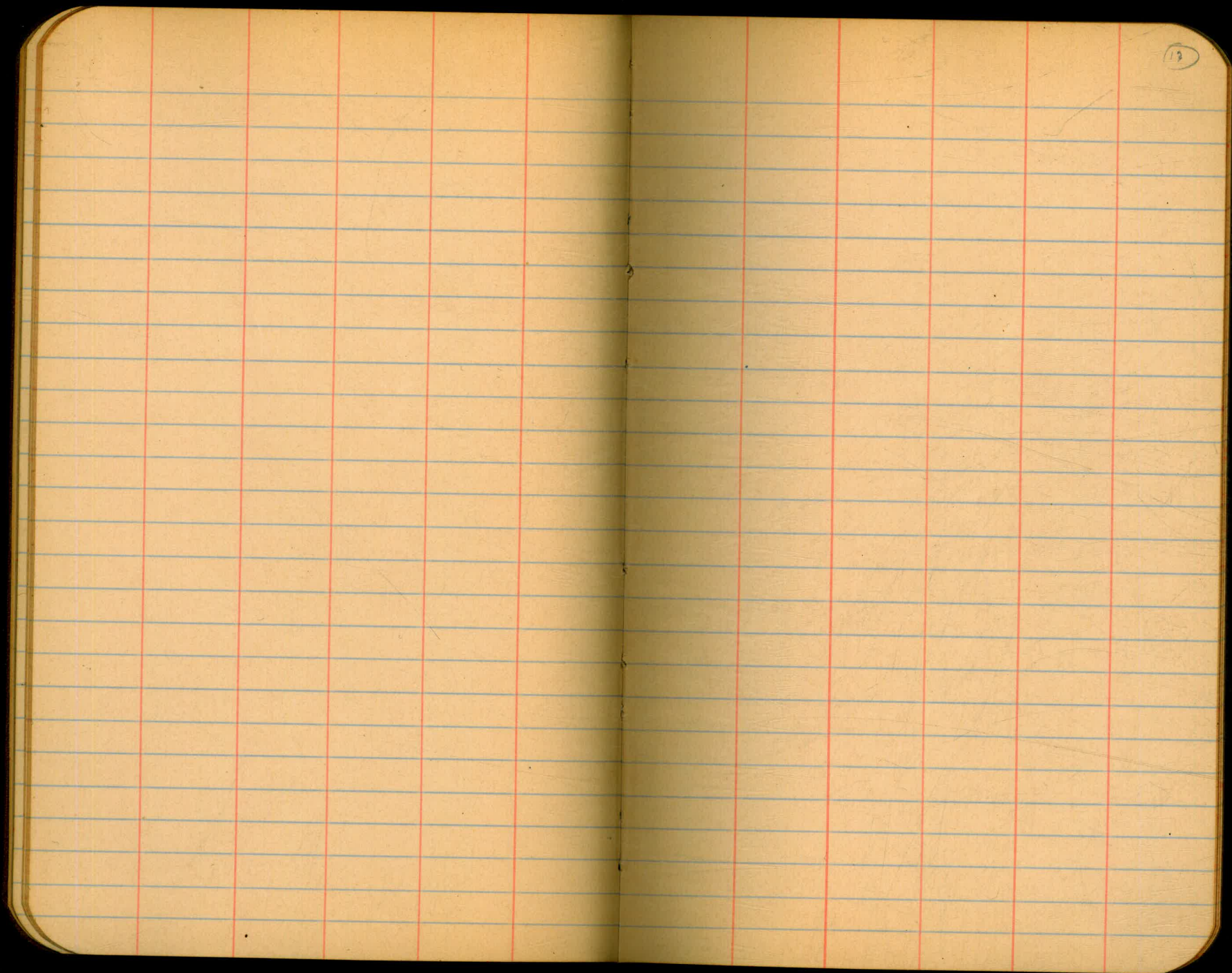




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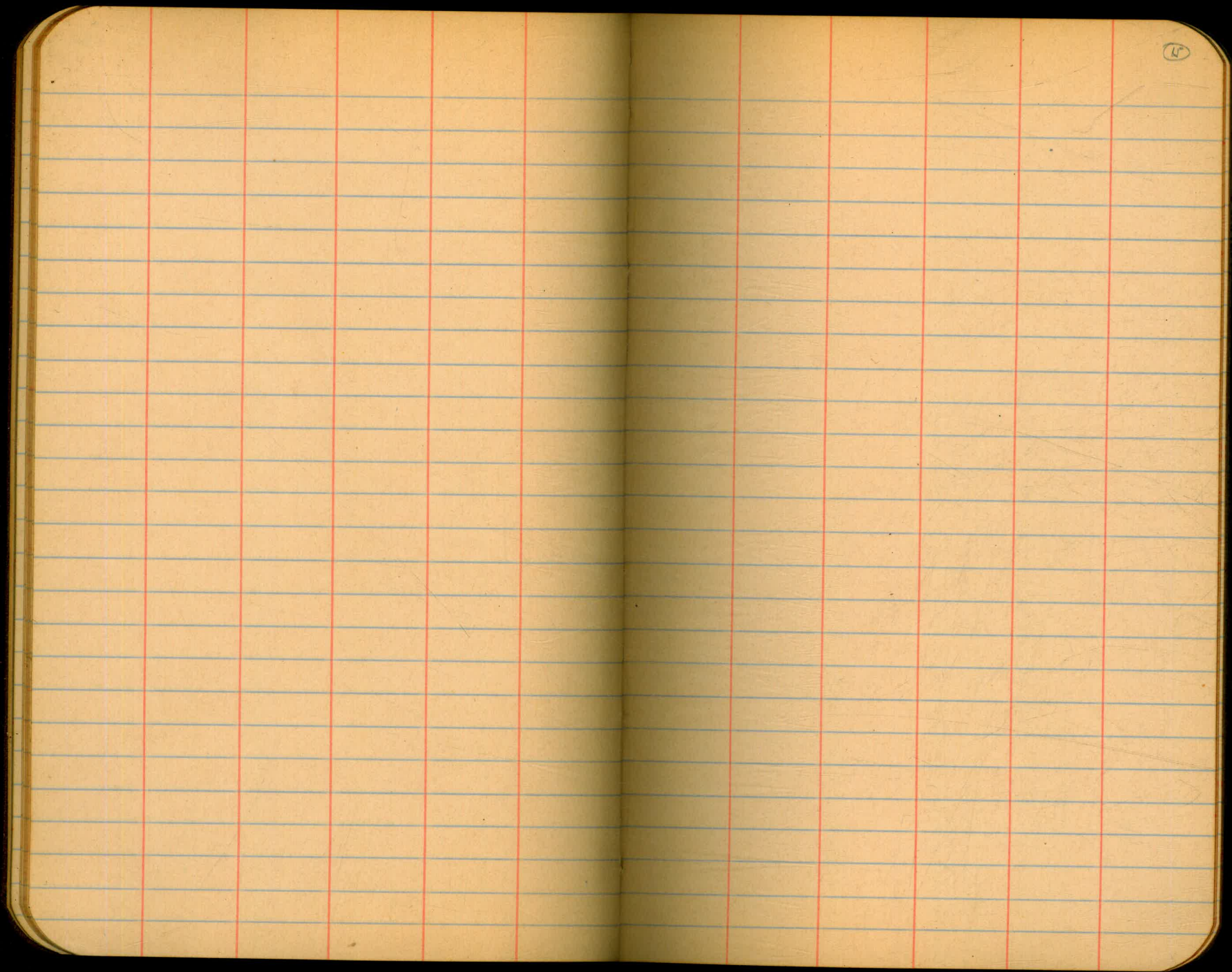


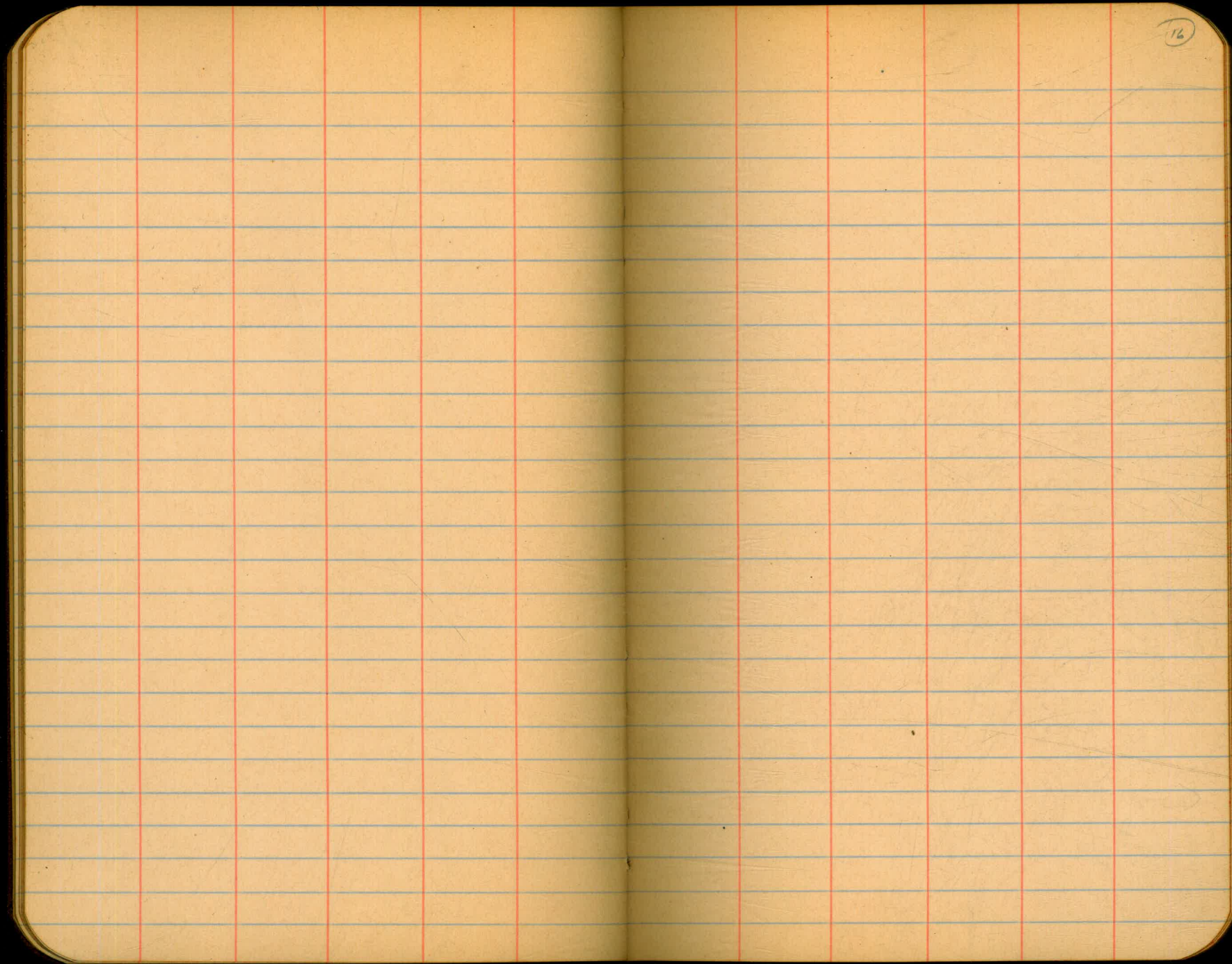


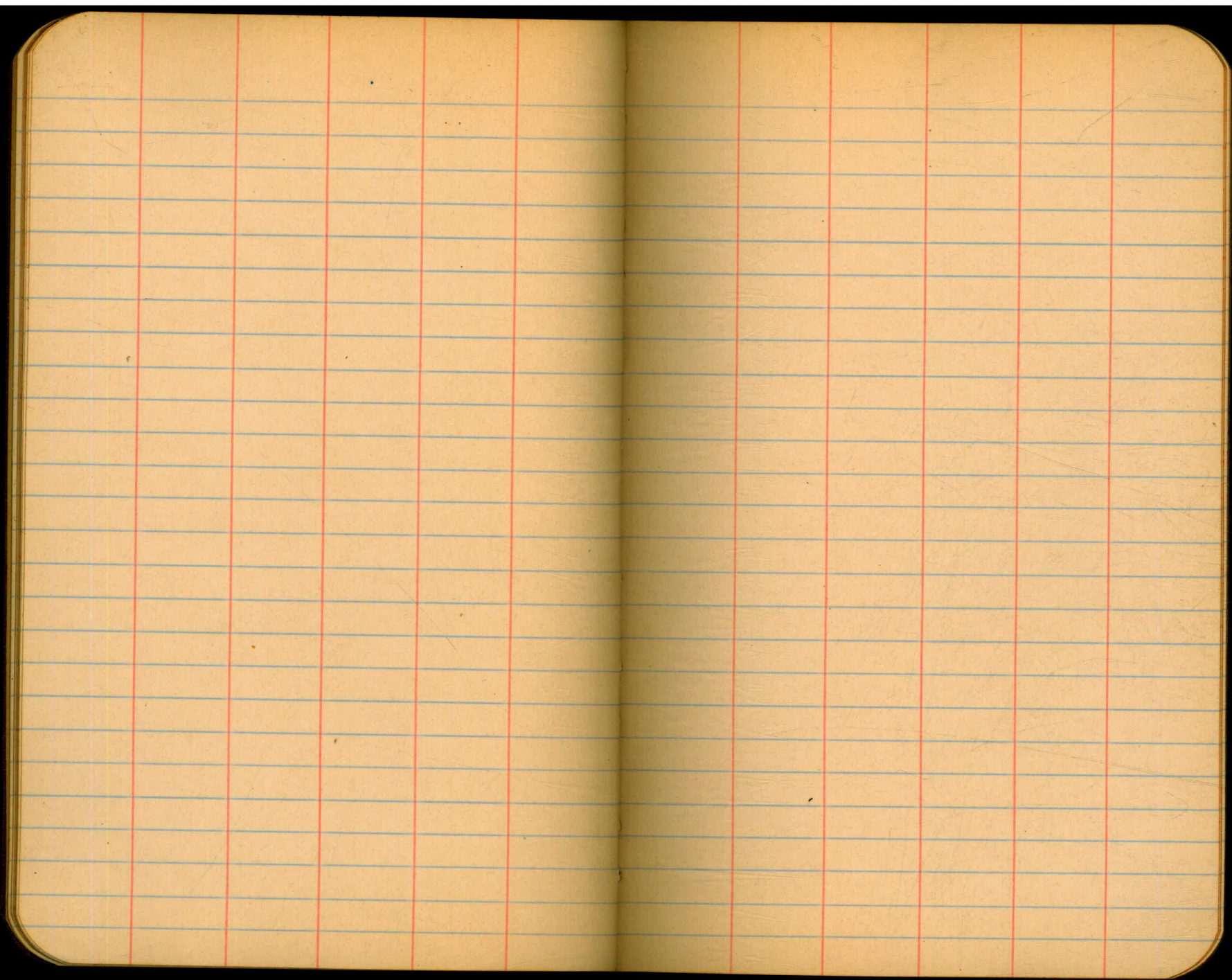




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DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder  
stake for any width roadway, slope 1 1/2 to 1.  
If ground is nearly level, the cut or fill at side  
stake is located by the double entry method in  
left column and top row. The number in body

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**IMPROVED TABLES**  
**AND**  
**INFORMATION**

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TABLE No. 2.

To find Tangent and External for curve of  
any other degree, divide by degree of curve and  
add correction found in column of corrections.  
Degree of curve with a given  $L$  may be found  
by dividing tangent (or external), opposite, by  
given tangent (or external).  
The distance from a point on the tangent to  
the curve is very nearly the square of the tangent  
length divided by twice the radius.

