

L. Street N.S

K
No 6.

9

TRANSIT

na 21st Street

F.B. 680

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

PUBLISHED BY

EDWARD DENNY & CO.
 DRAWING PAPER & MATERIAL, MATHEMATICAL INSTRUMENTS, ETC.,
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 SAN FRANCISCO, CAL.

Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
0		0		0		0	
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

3 Mo street mining West up to

22nd/₁₁

1

South North

2+56 1/2

2+54 1/2

2+82

2+30

2+06

2+04

Flunk Tank
End of Pikeson

1+82

4+99

4+28

1+80

1+58

4+24

1+56

4+06

1+32

4+04

1+30

3+82

1+07

3+80

1+05

3+54

0+81

3+54

0+79

3+32

0+58

3+30

0+56

3+06 1/2

0+34 1/2

3+03 1/2

0+32 1/2

2+81

2+79

Mo street

L St

West of 24th St.

	South	North	South	North
		2+9 1/2		
	2+89 1/2			
		2+66		
2	2+64			
		2+40 1/2		
2	2+38 1/2			
		2+15		
2	2+13			
	1+89		3+92	
1	1+87		3+90	
	1+63		3+65-	
1	1+61		3+63	
	1+40 1/2	Y.S. left was -		
1	1+38 1/2	<hr/>		
	1+14			
1	1+12	4+22	End of Sept.	
	0+90	4+17 1/2		
0	0+88	4+15 1/2		
	0+66	3+39 1/2		
0	0+64	3+37 1/2		
	0+38	3+16		
0	0+36	3+14		

down

0+38 West of 24th St.

K Street West of

24th Street.

3

2
1
2
2
2
1
1
1
0
0
0
0

N

2+95

2+93

2+70

2+68

2+45 $\frac{1}{2}$

2+43 $\frac{1}{2}$

2+19 $\frac{1}{2}$

2+17 $\frac{1}{2}$

1+95 $\frac{1}{2}$

1+93 $\frac{1}{2}$

1+69 $\frac{1}{2}$

1+67 $\frac{1}{2}$

1+45

1+43

1+20 $\frac{1}{2}$

1+18 $\frac{1}{2}$

0+95

0+93

0+64

0+62

0+33

0+31

4+21 $\frac{1}{2}$ End of pipe.

4+17

4+15

3+95 $\frac{1}{2}$

3+93 $\frac{1}{2}$

3+70

3+68

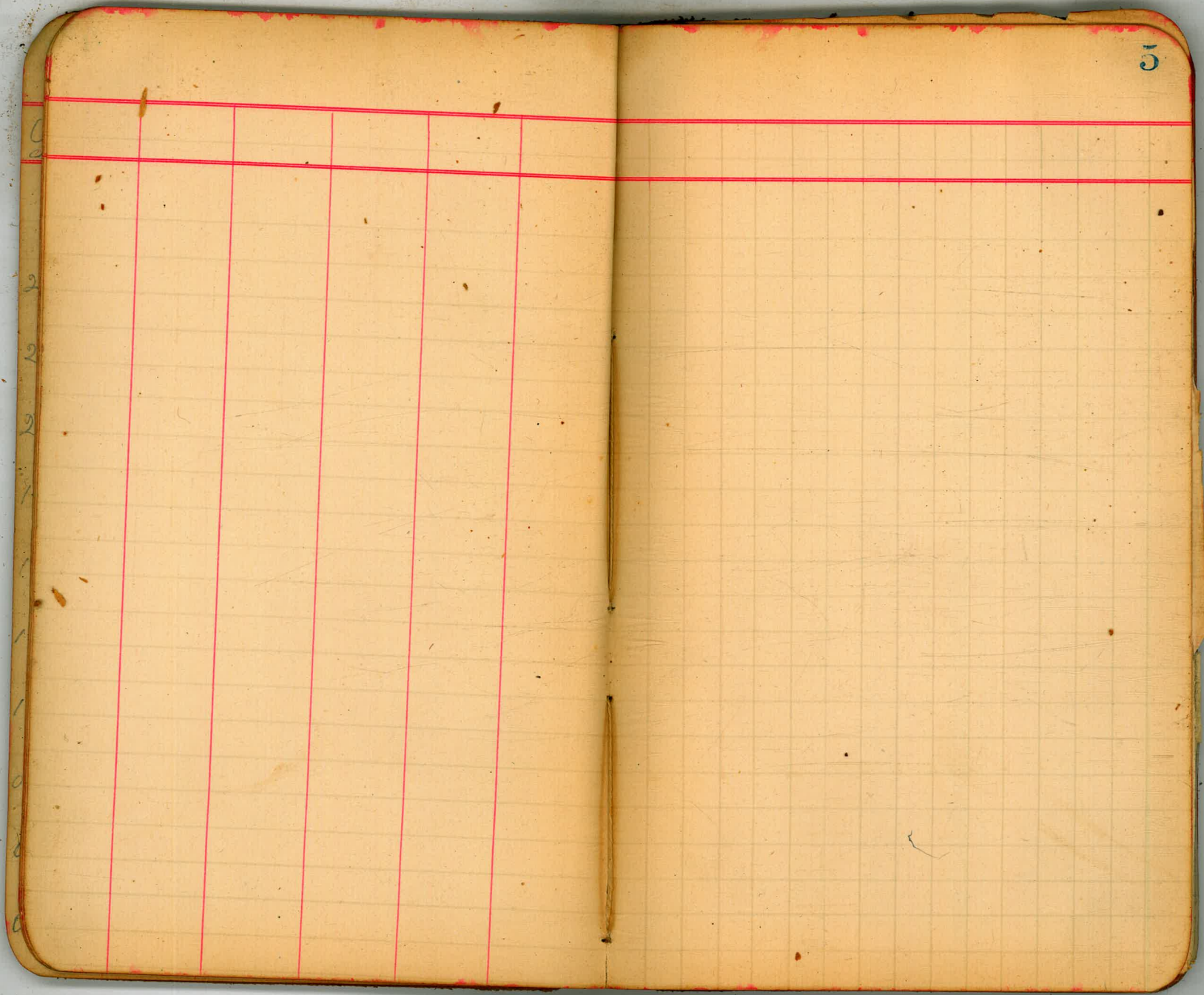
3+48 $\frac{1}{2}$

3+43 $\frac{1}{2}$

3+21 $\frac{1}{2}$

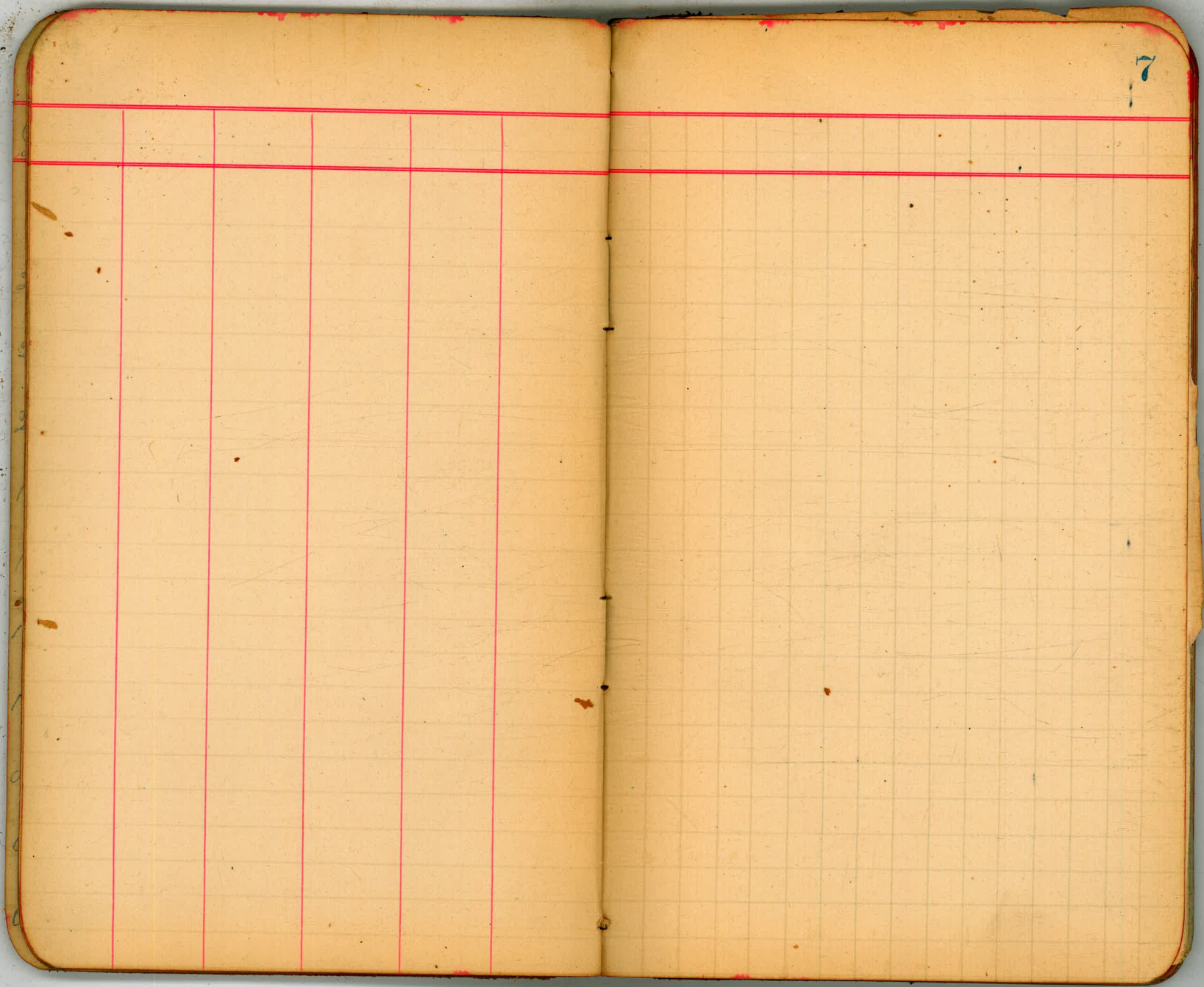
3+19 $\frac{1}{2}$

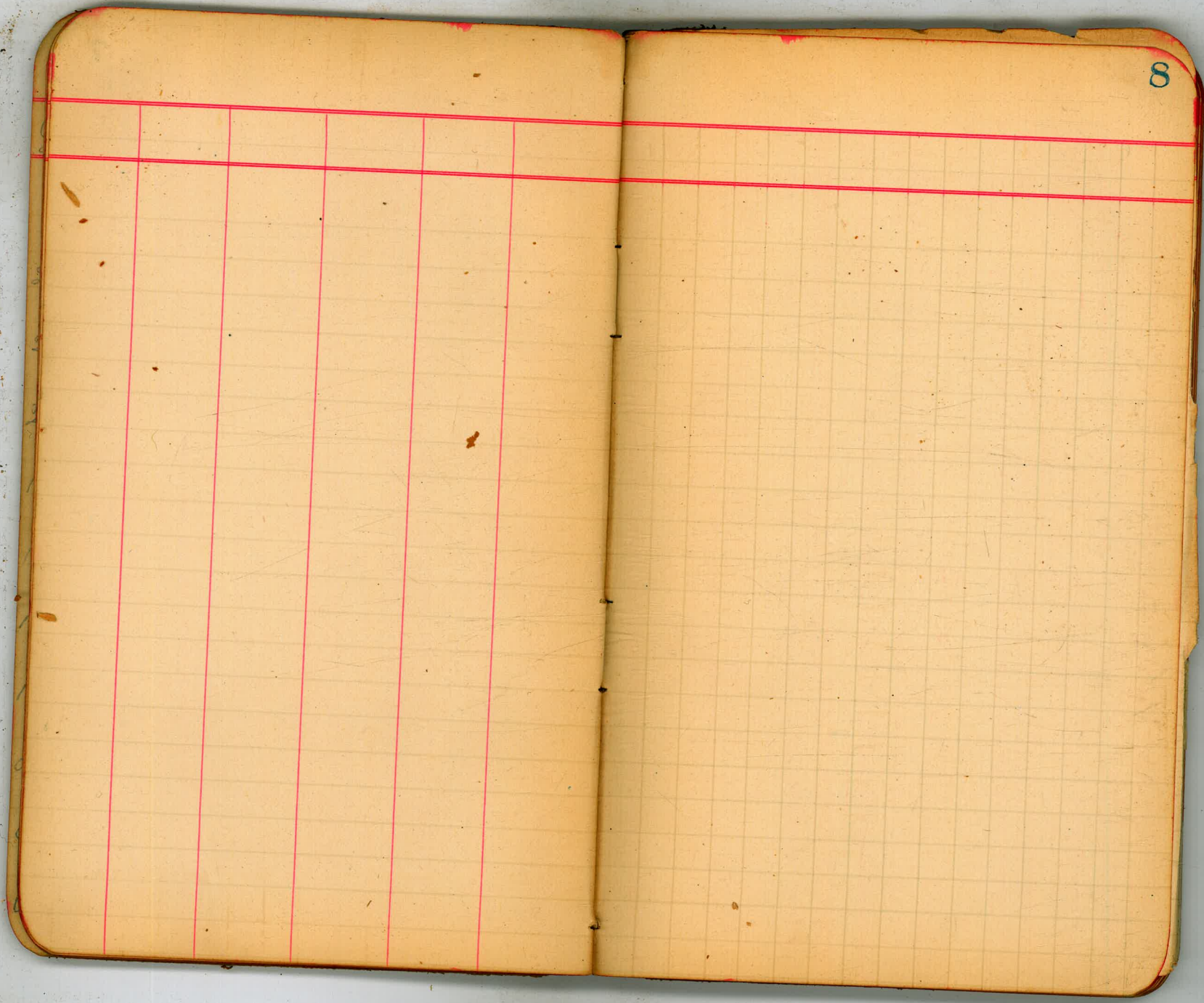
on K street



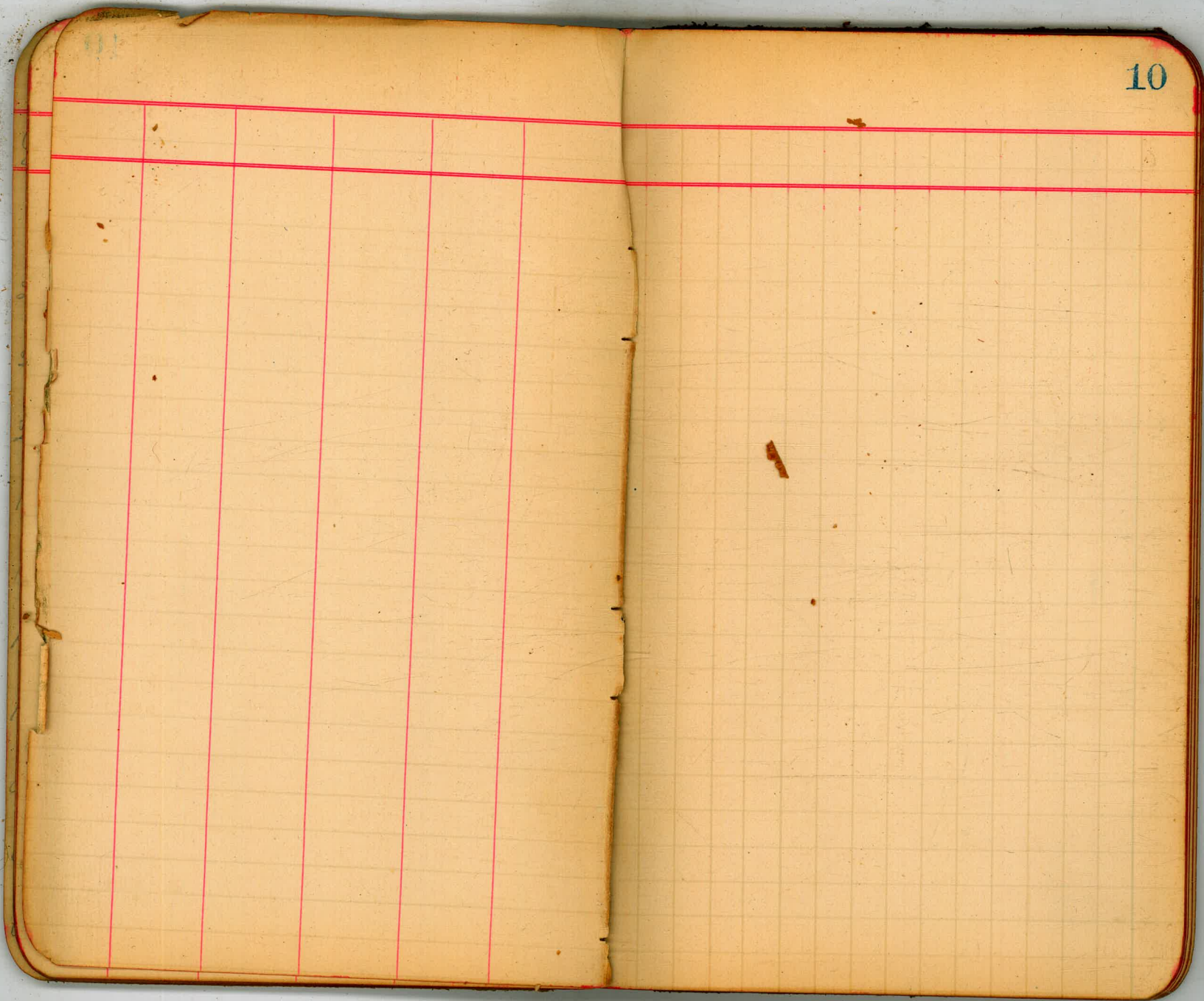
0
2
2
2
1
1
0
0



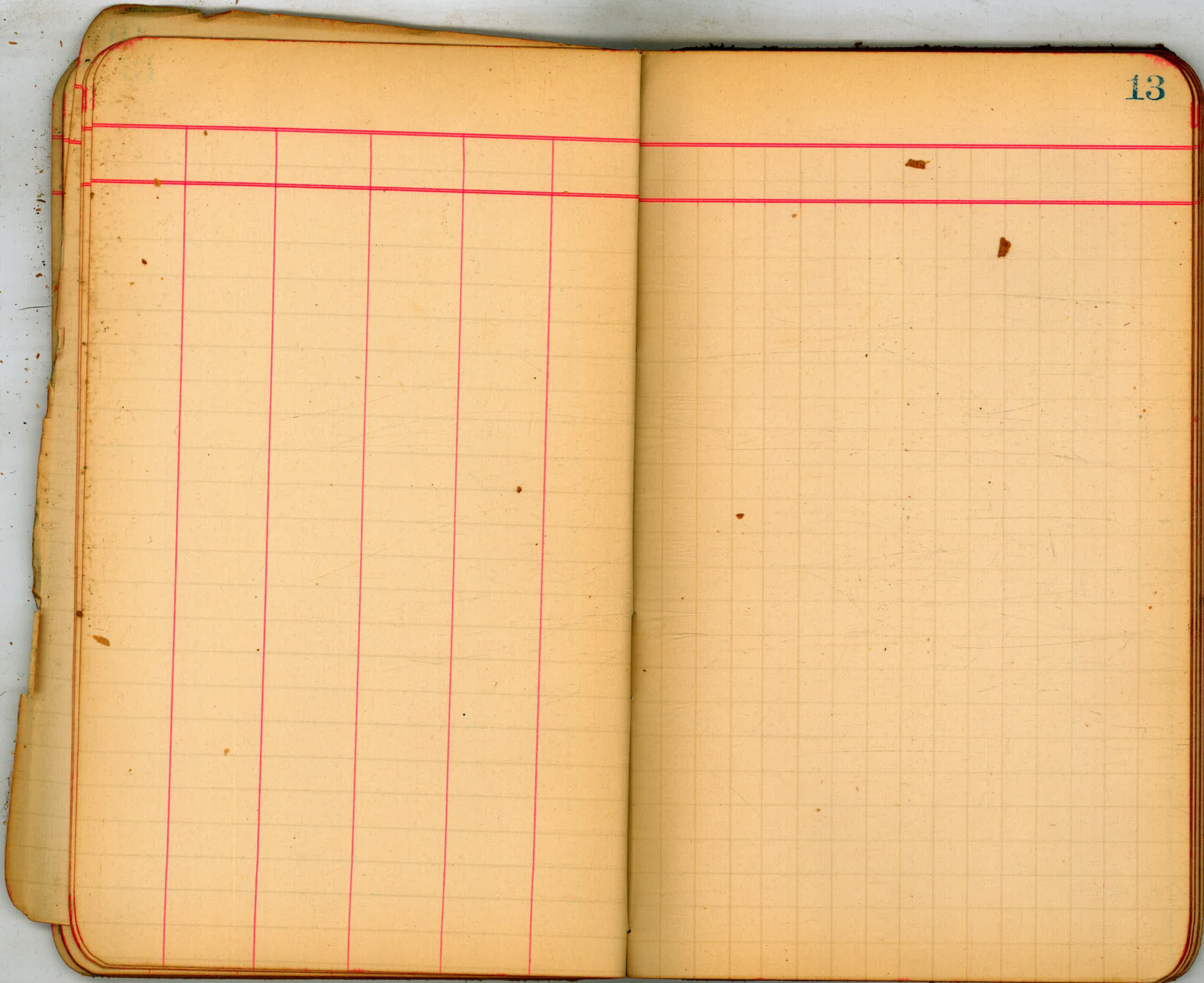




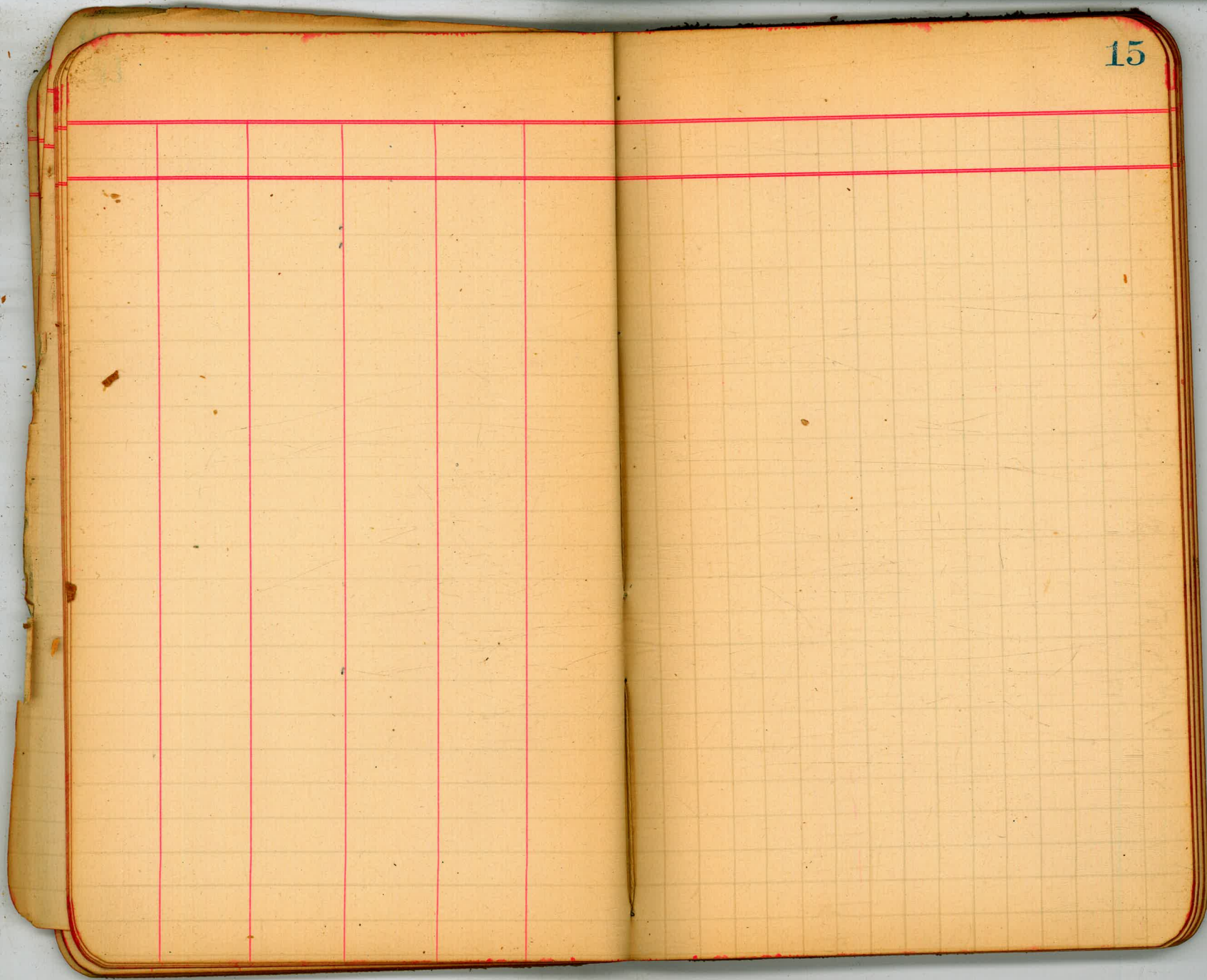
The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a top horizontal line, a second horizontal line below it, and five vertical lines that divide the page into six columns of varying widths. The right page is a standard grid page with a uniform grid of red lines. The notebook is bound in the center, and the pages are a light tan or yellowish color. The number '9' is printed in the top right corner of the right page.

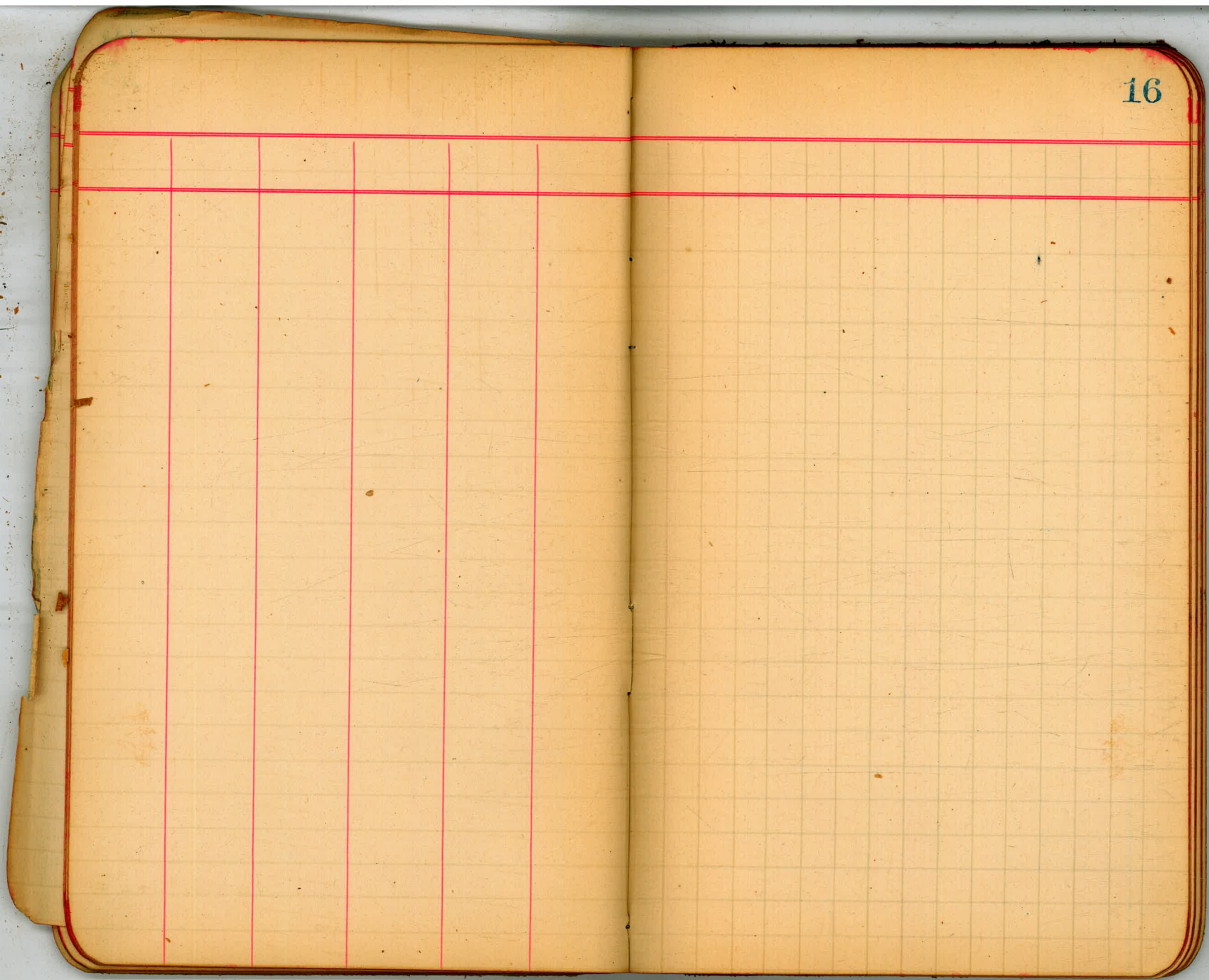


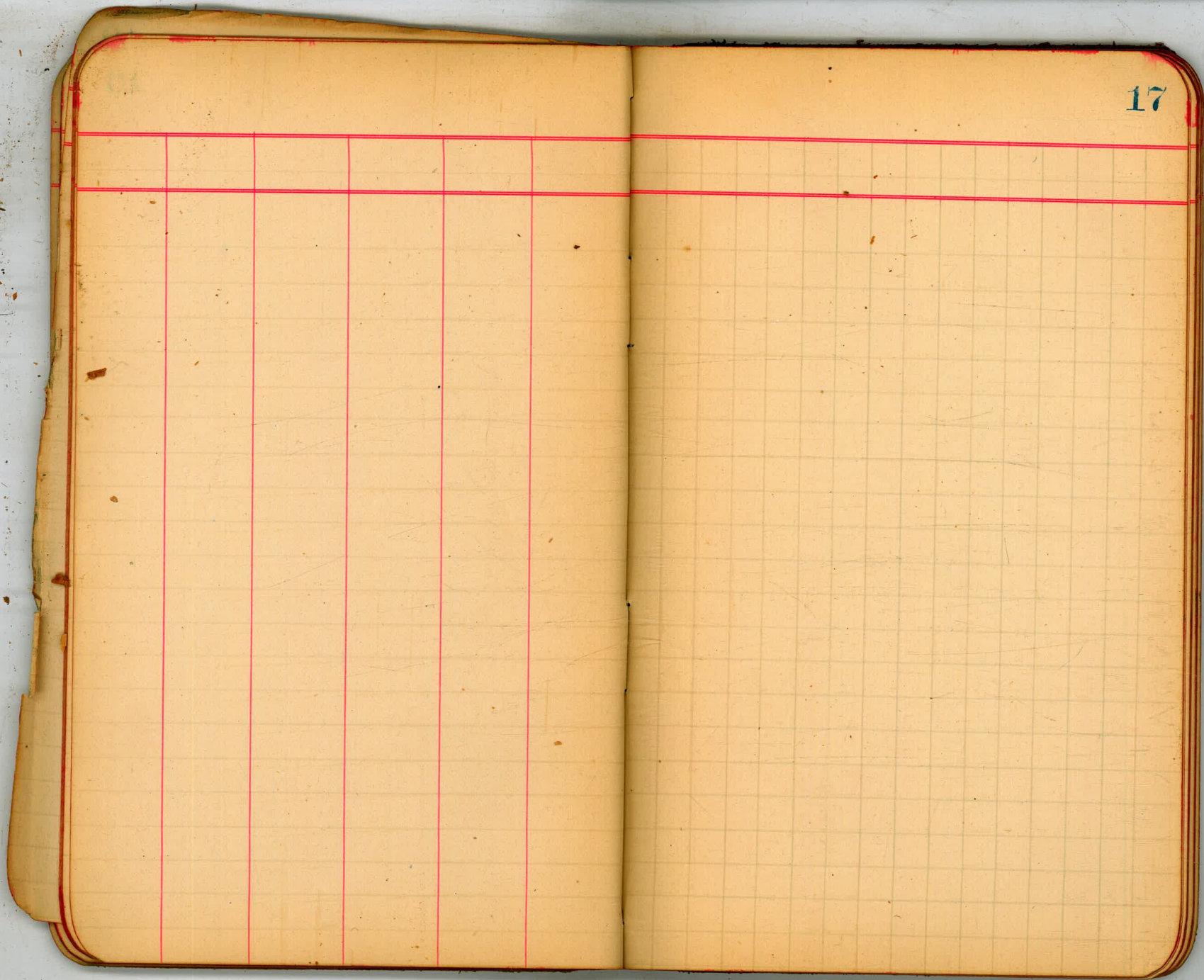
The image shows an open notebook with two pages. The left page is ruled with a grid and has five vertical red lines, creating six columns. The right page is ruled with a grid and has the number '12' in the top right corner. The notebook is placed on a light-colored surface.

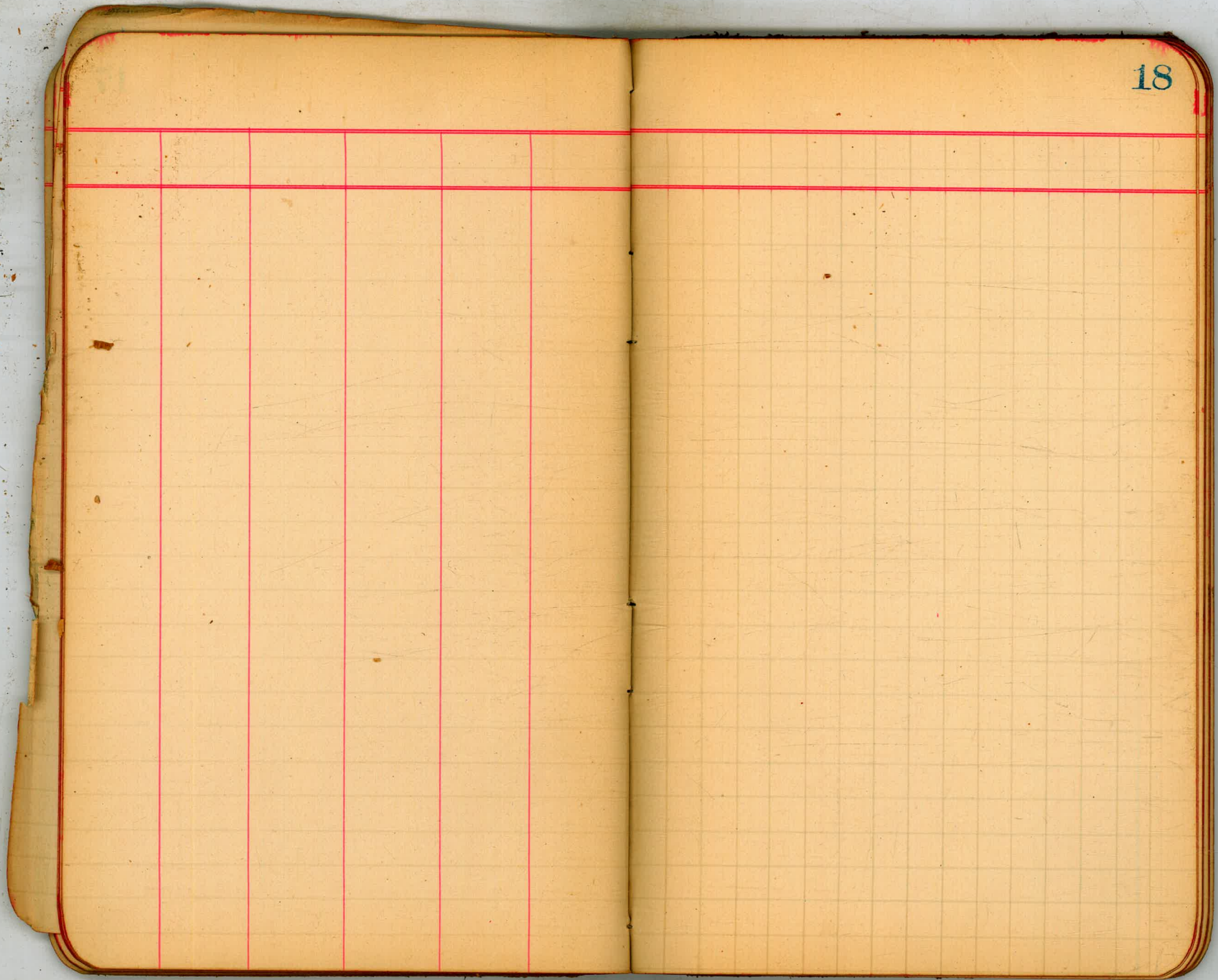


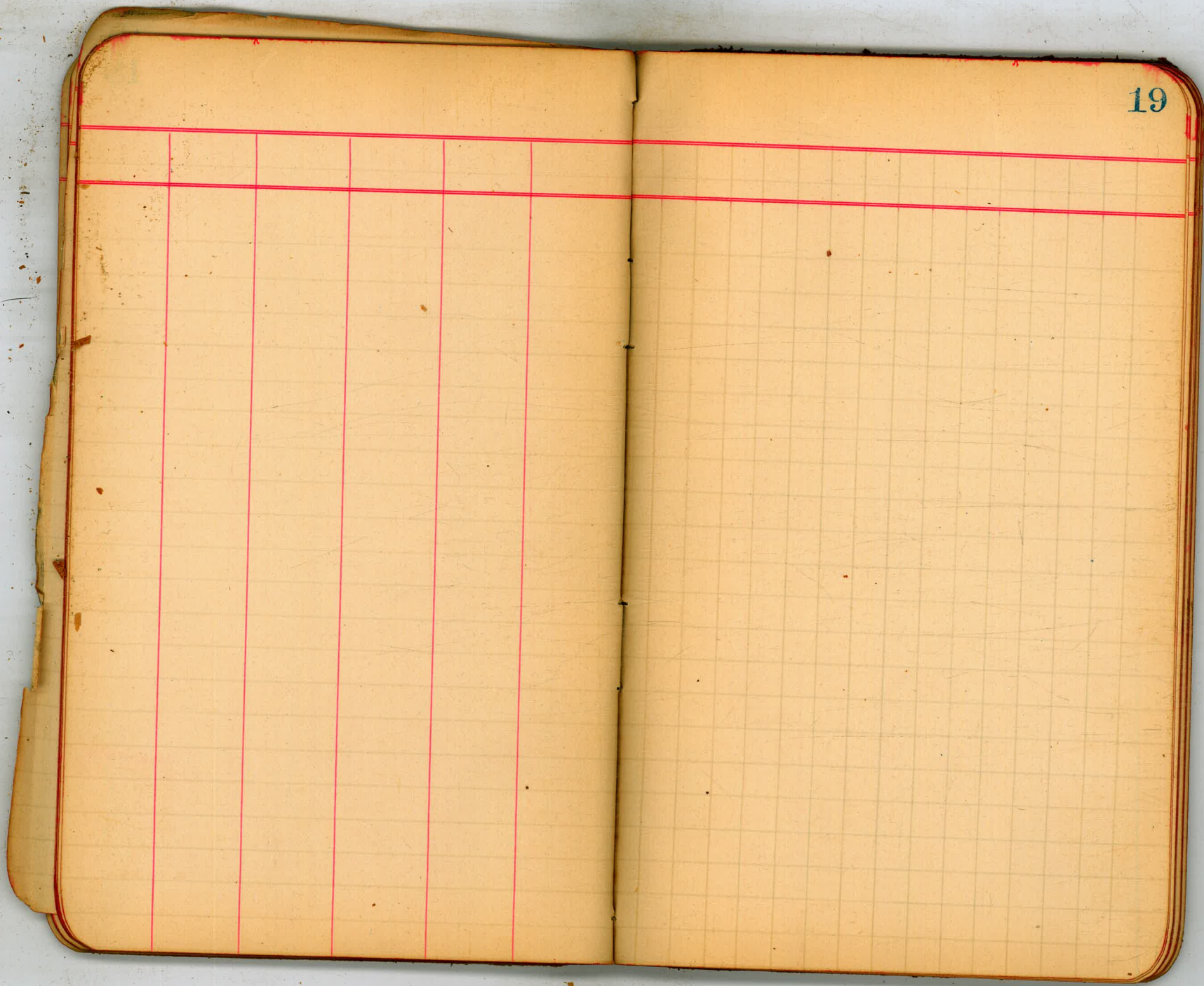
The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a header row at the top, followed by a row with a wide left margin and five narrow columns. Below these are several rows of smaller grid cells. The right page is a standard grid page with a uniform grid of red lines. The number '14' is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.

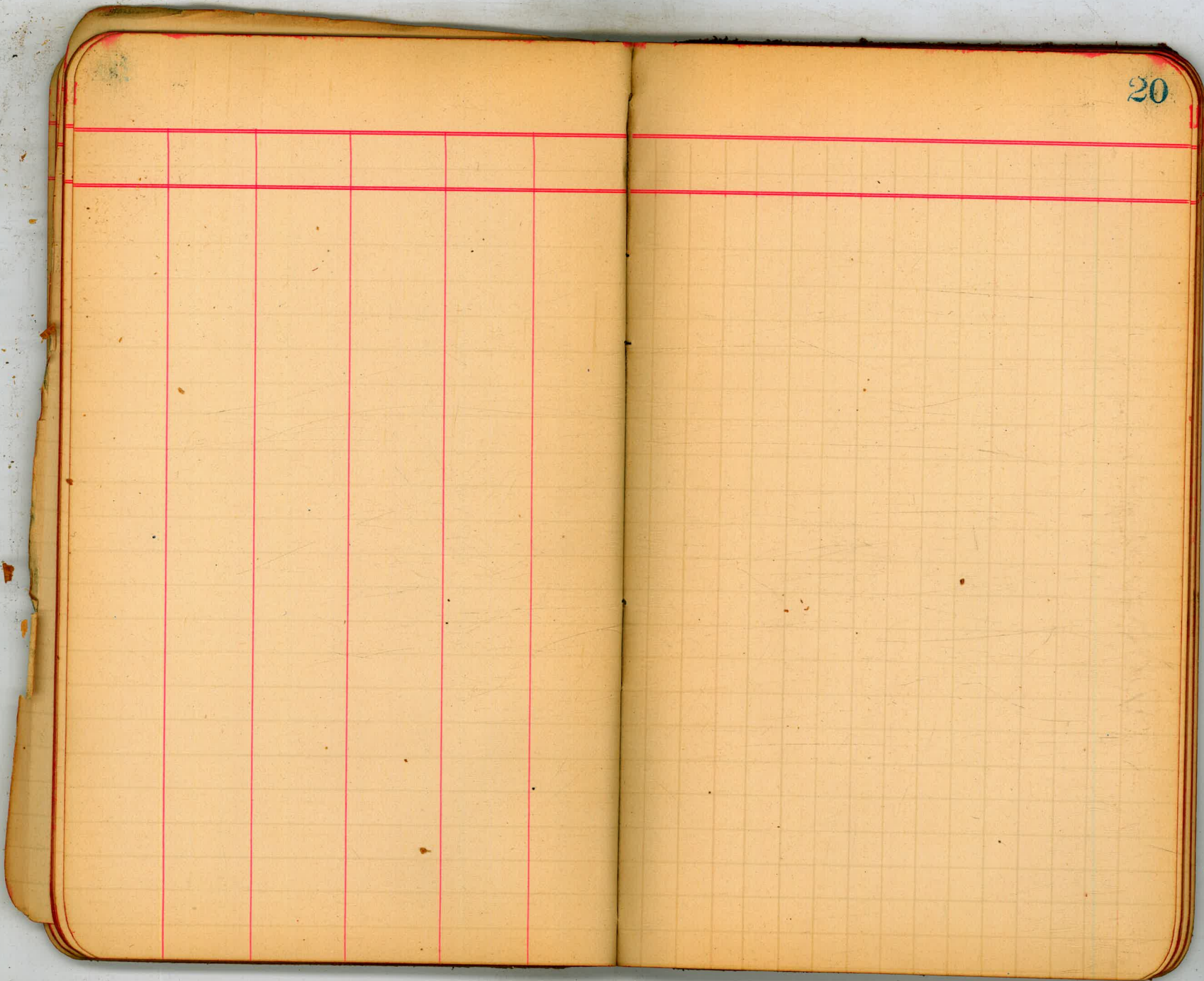


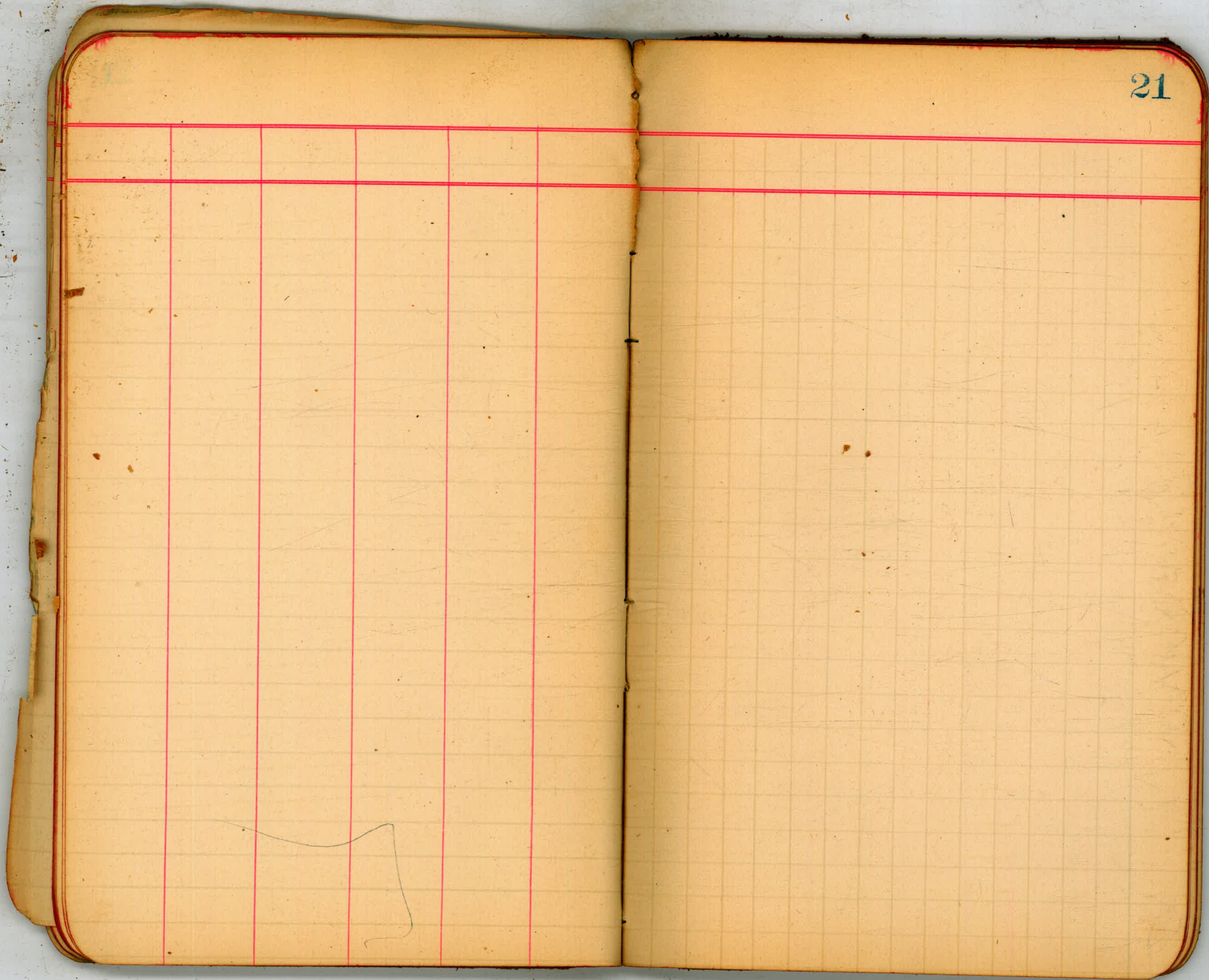


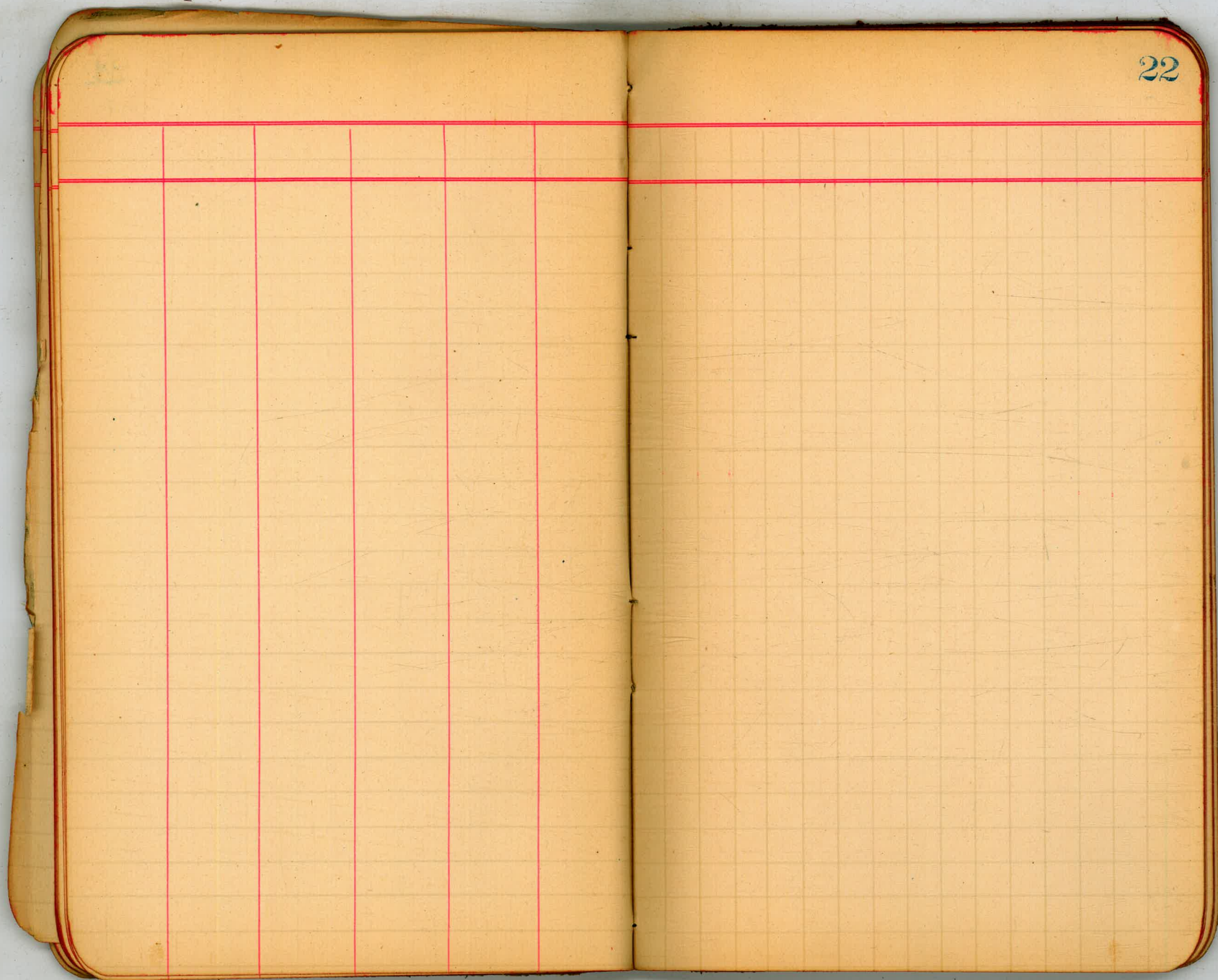


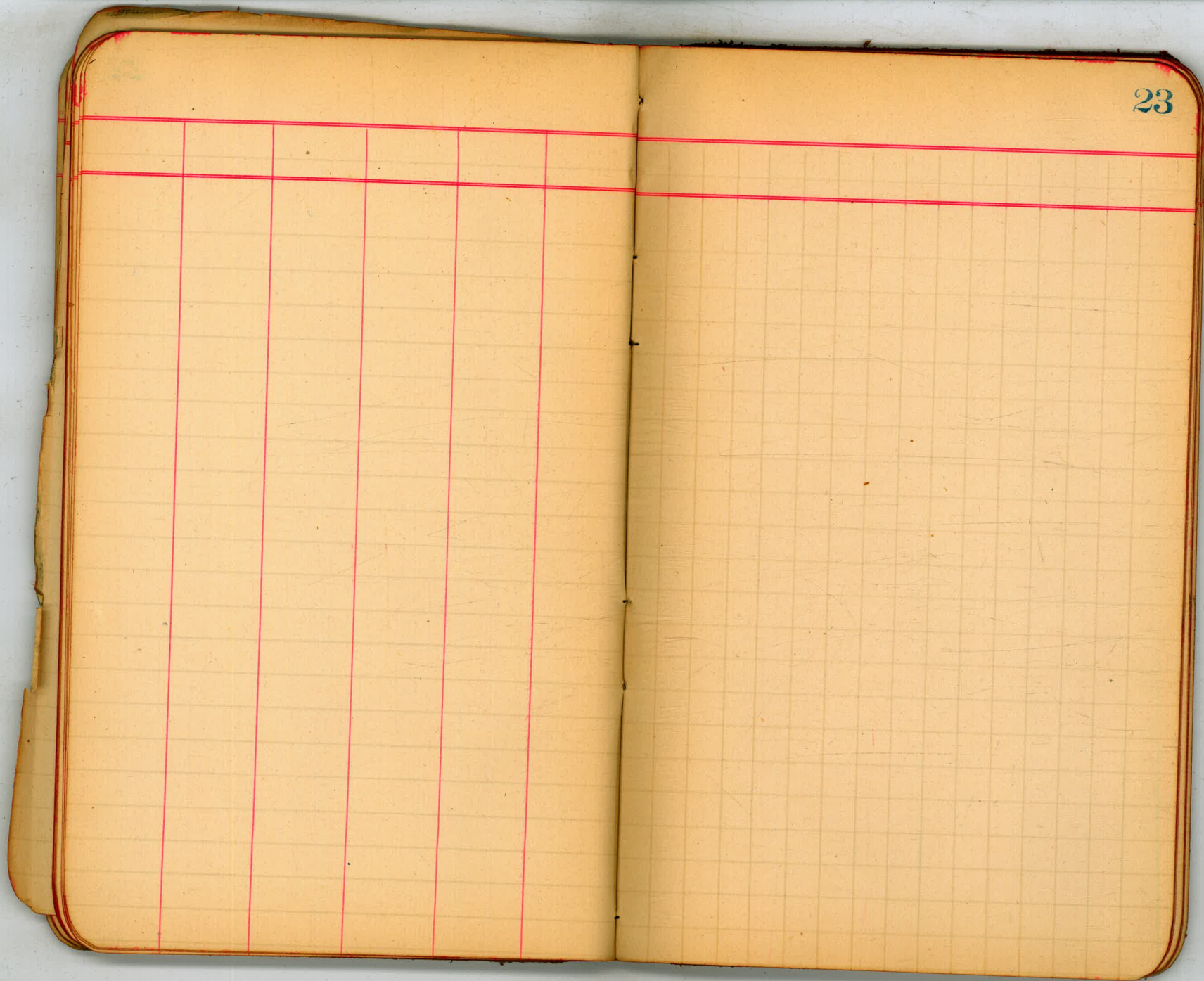






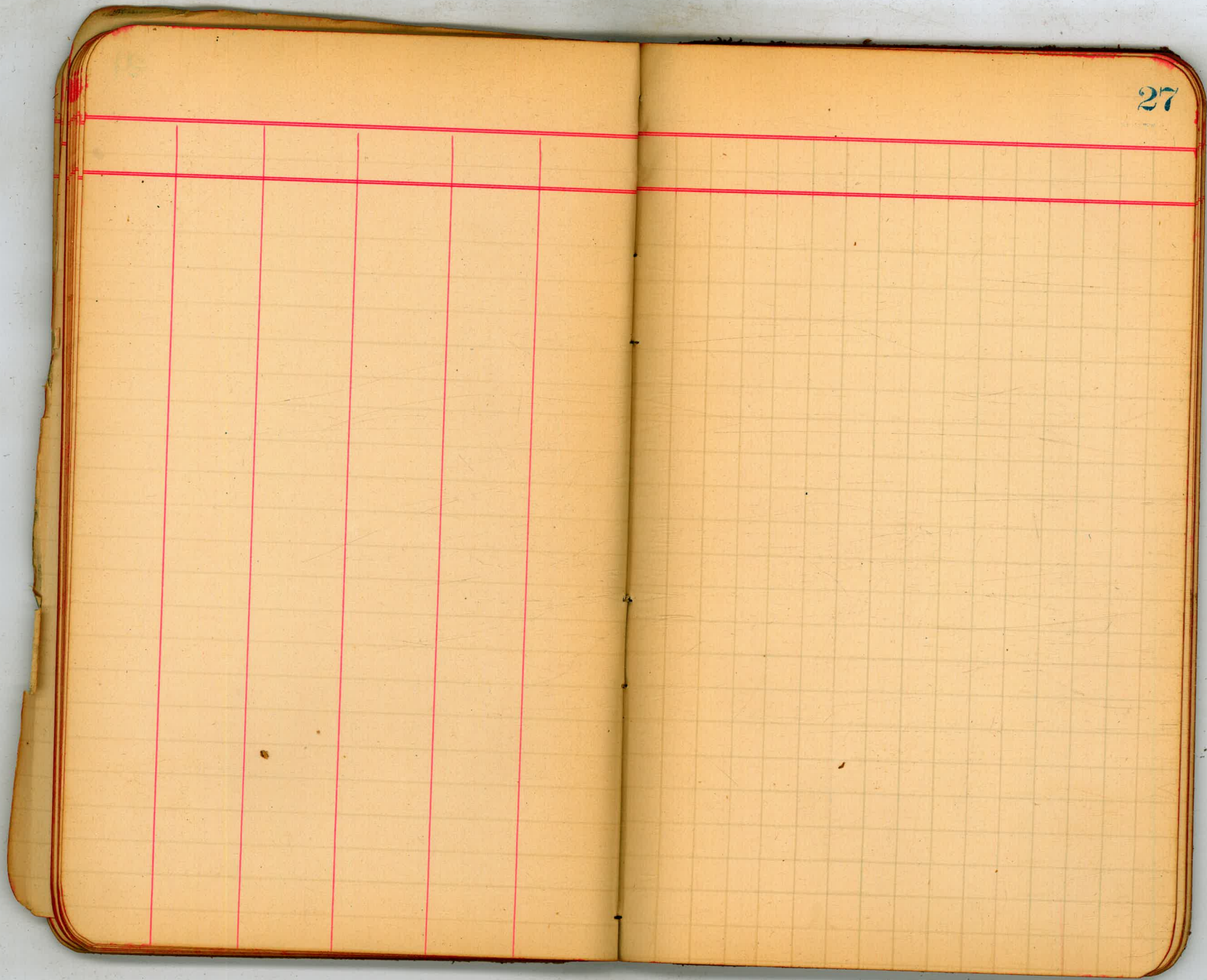


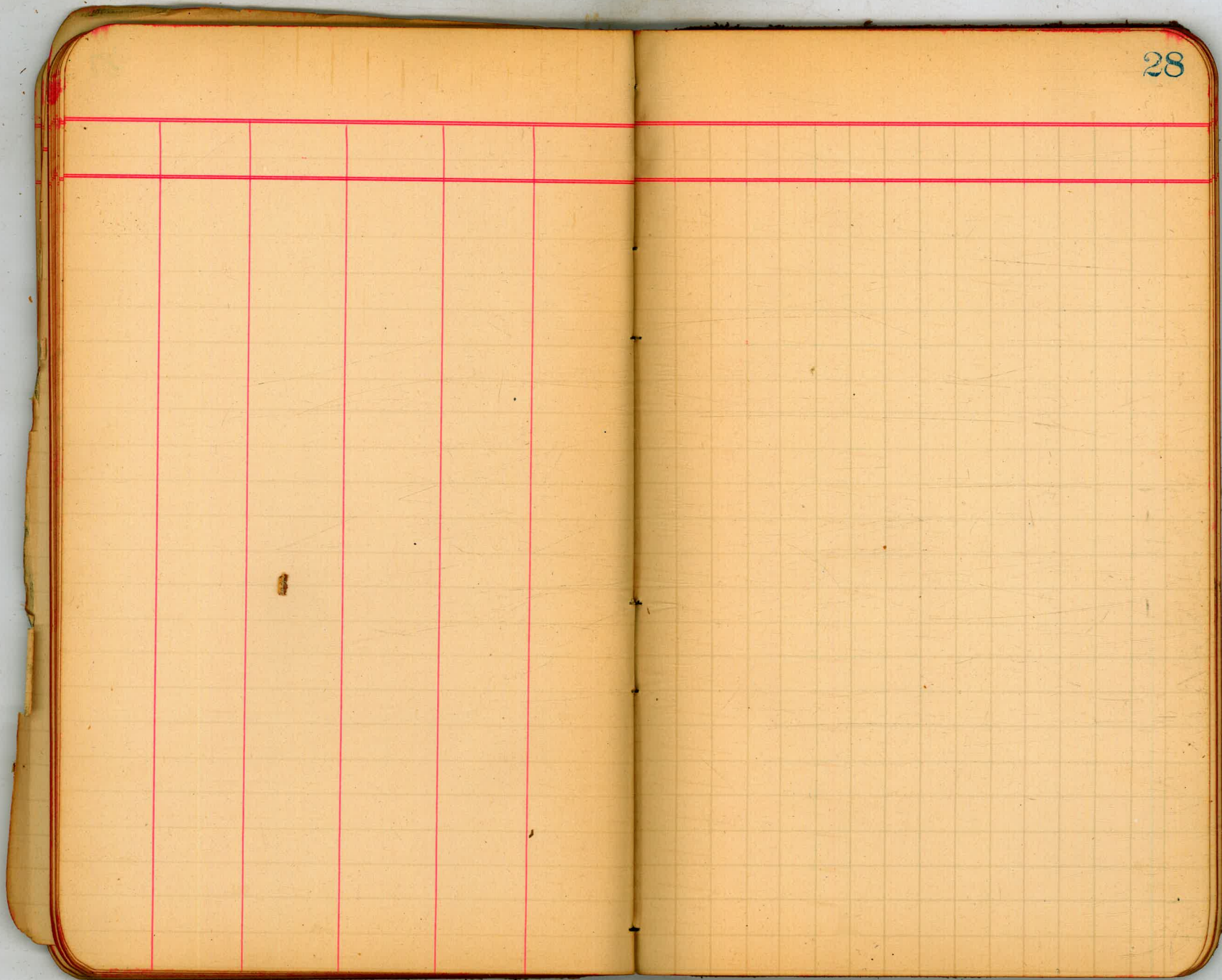


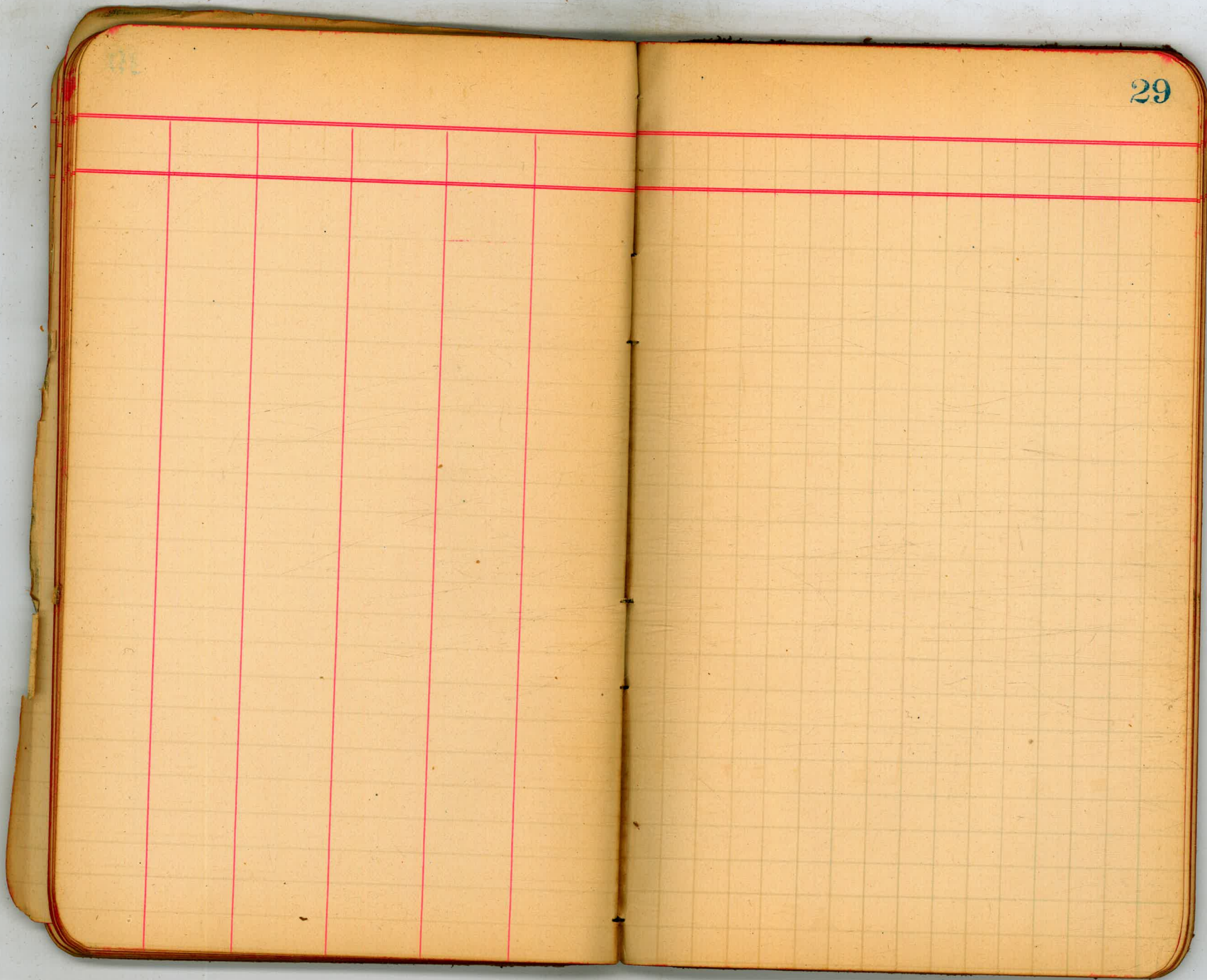


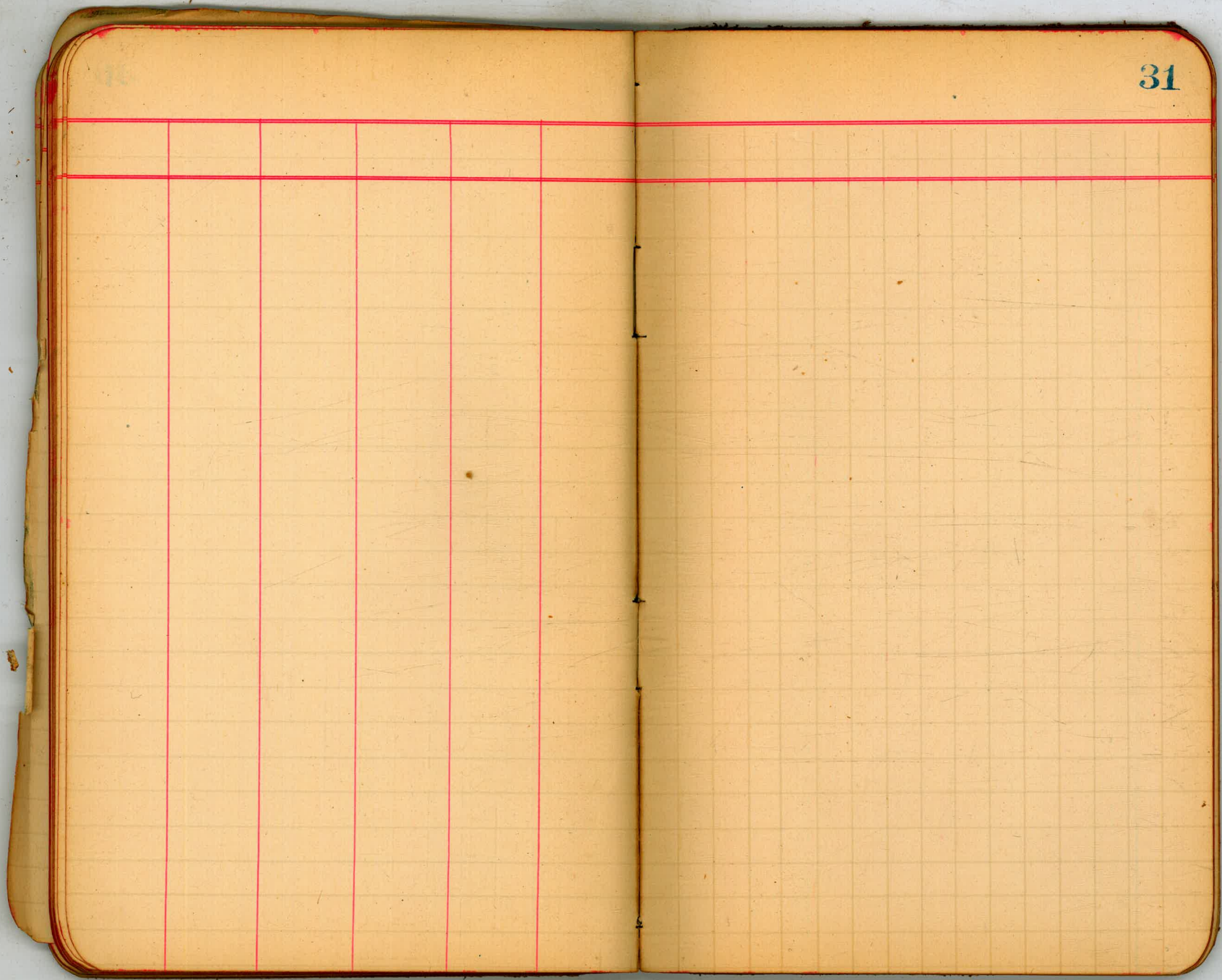


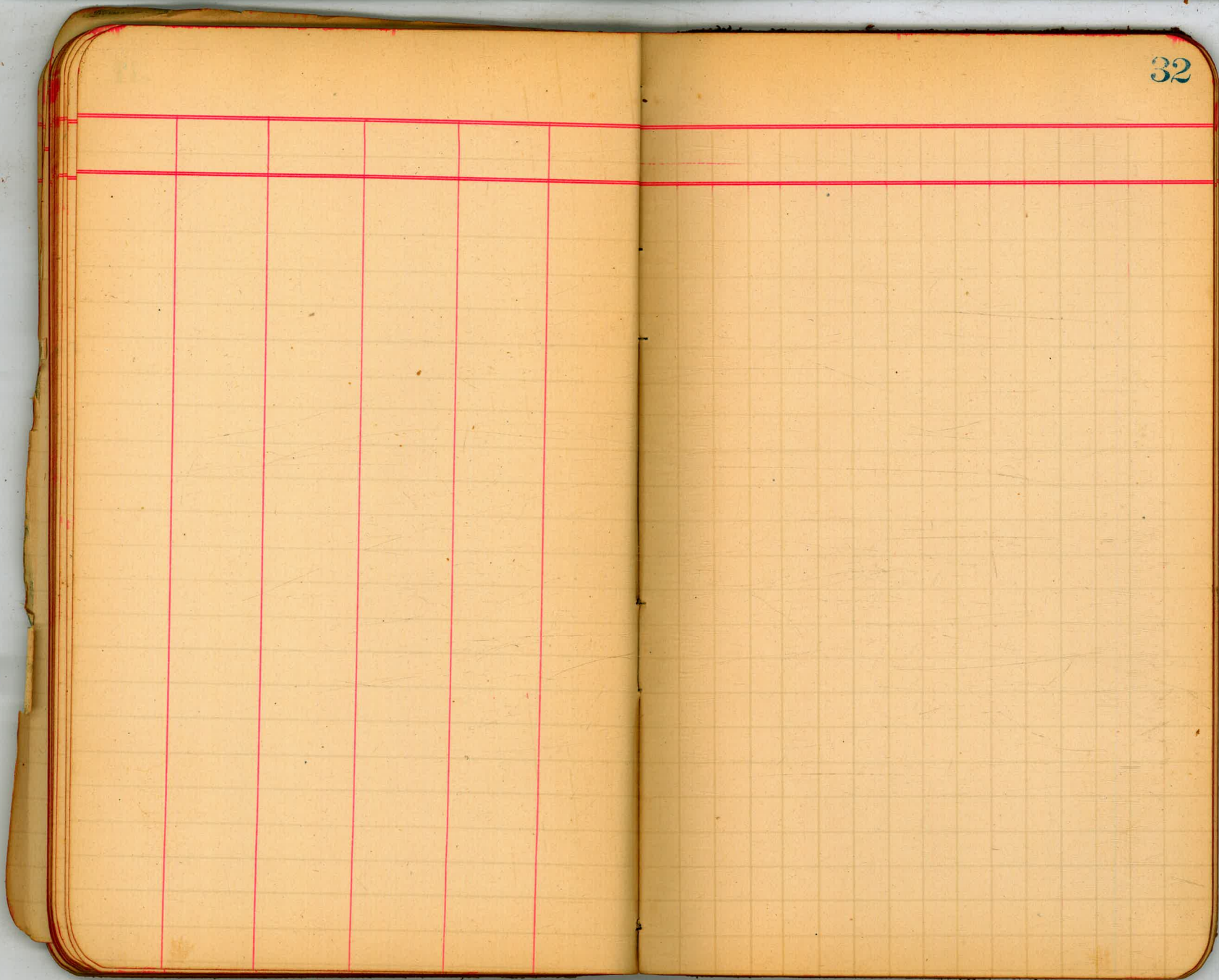


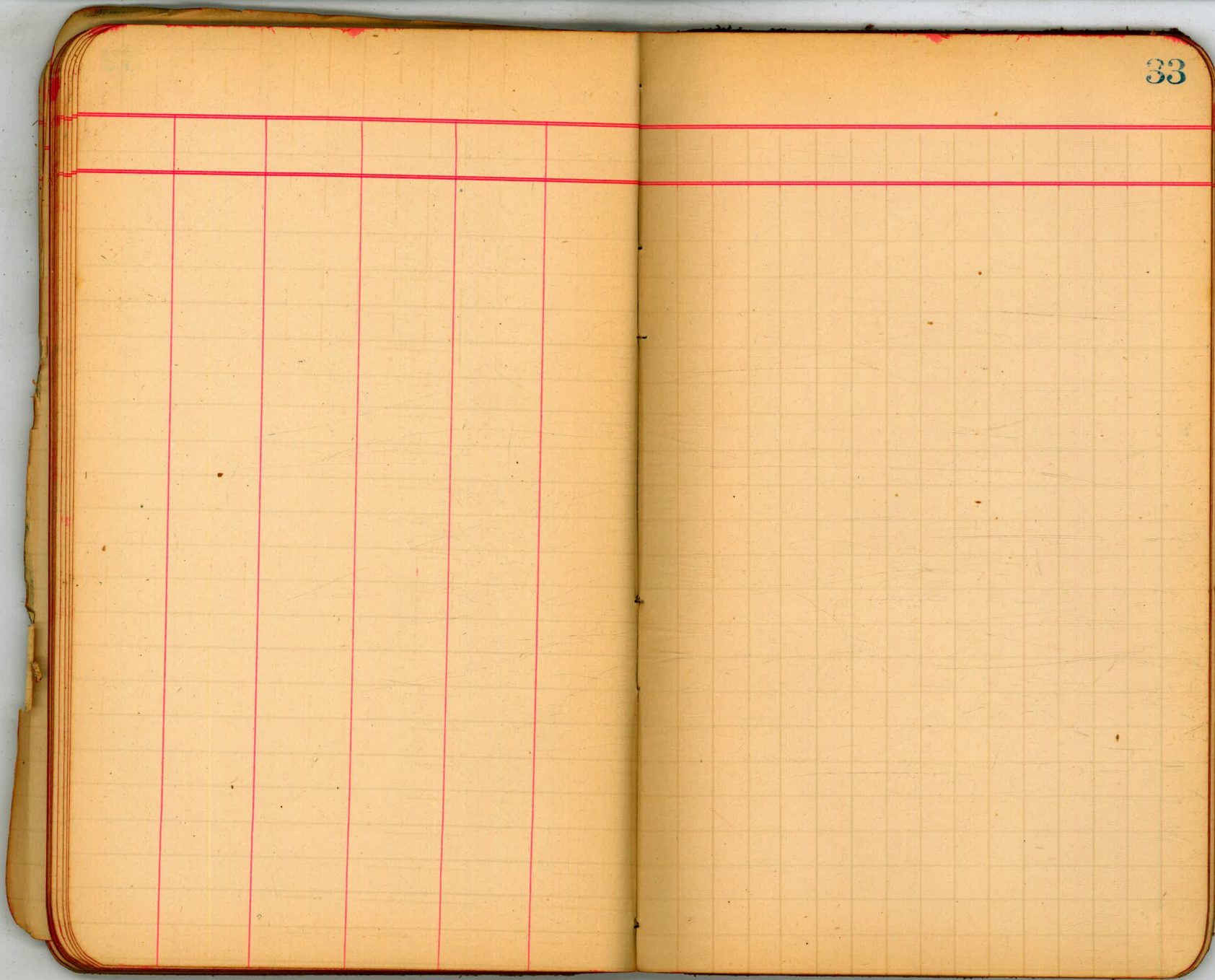


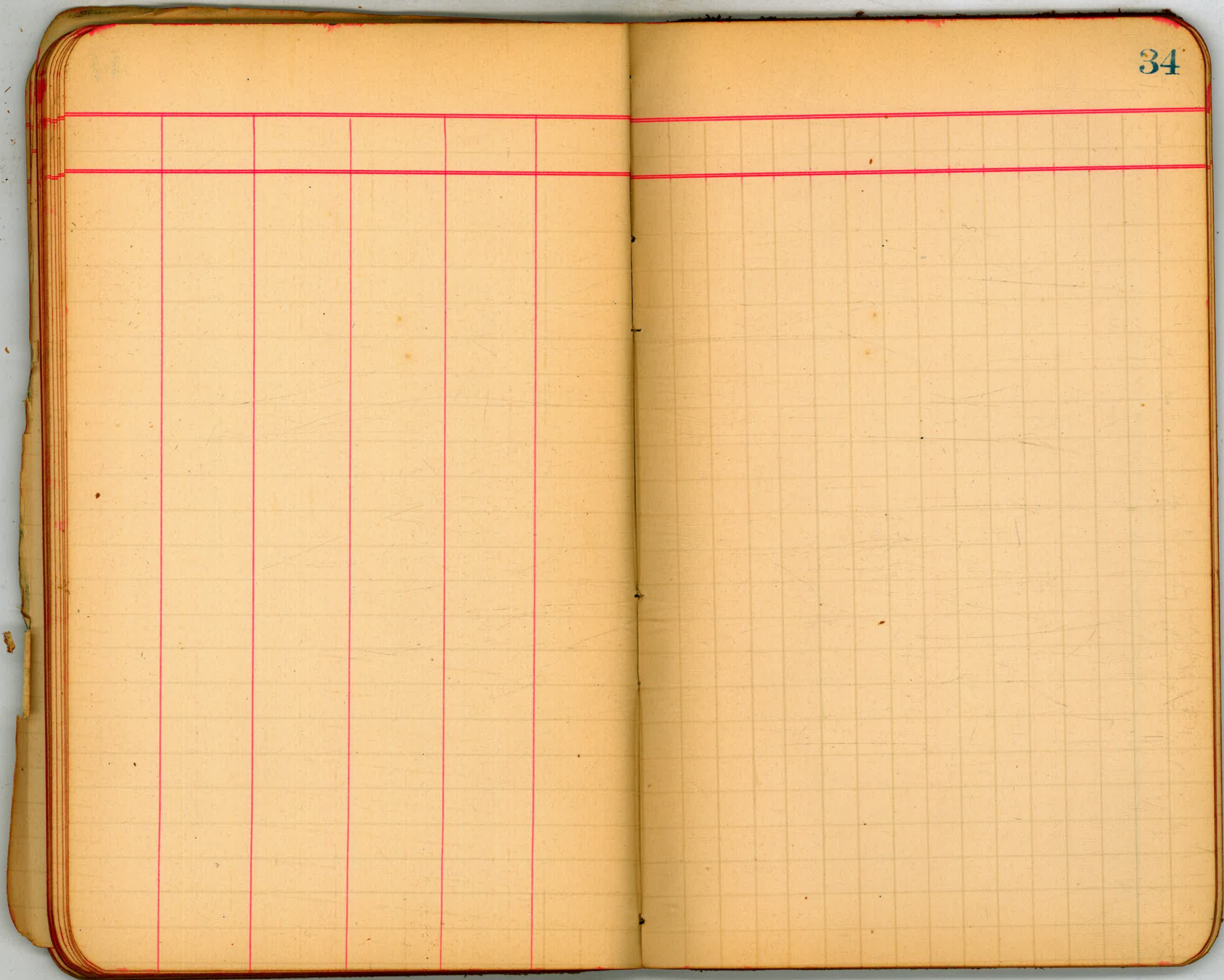




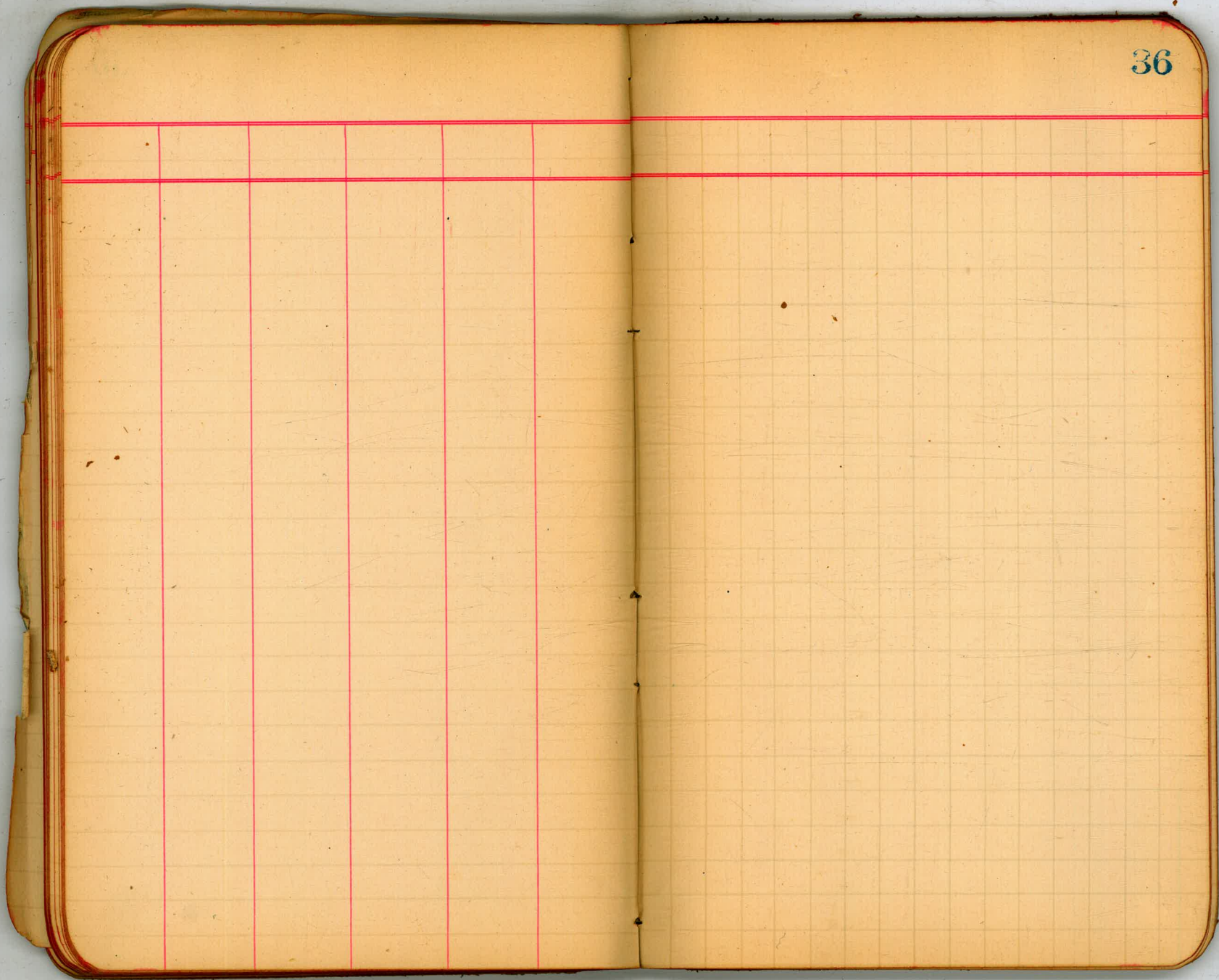


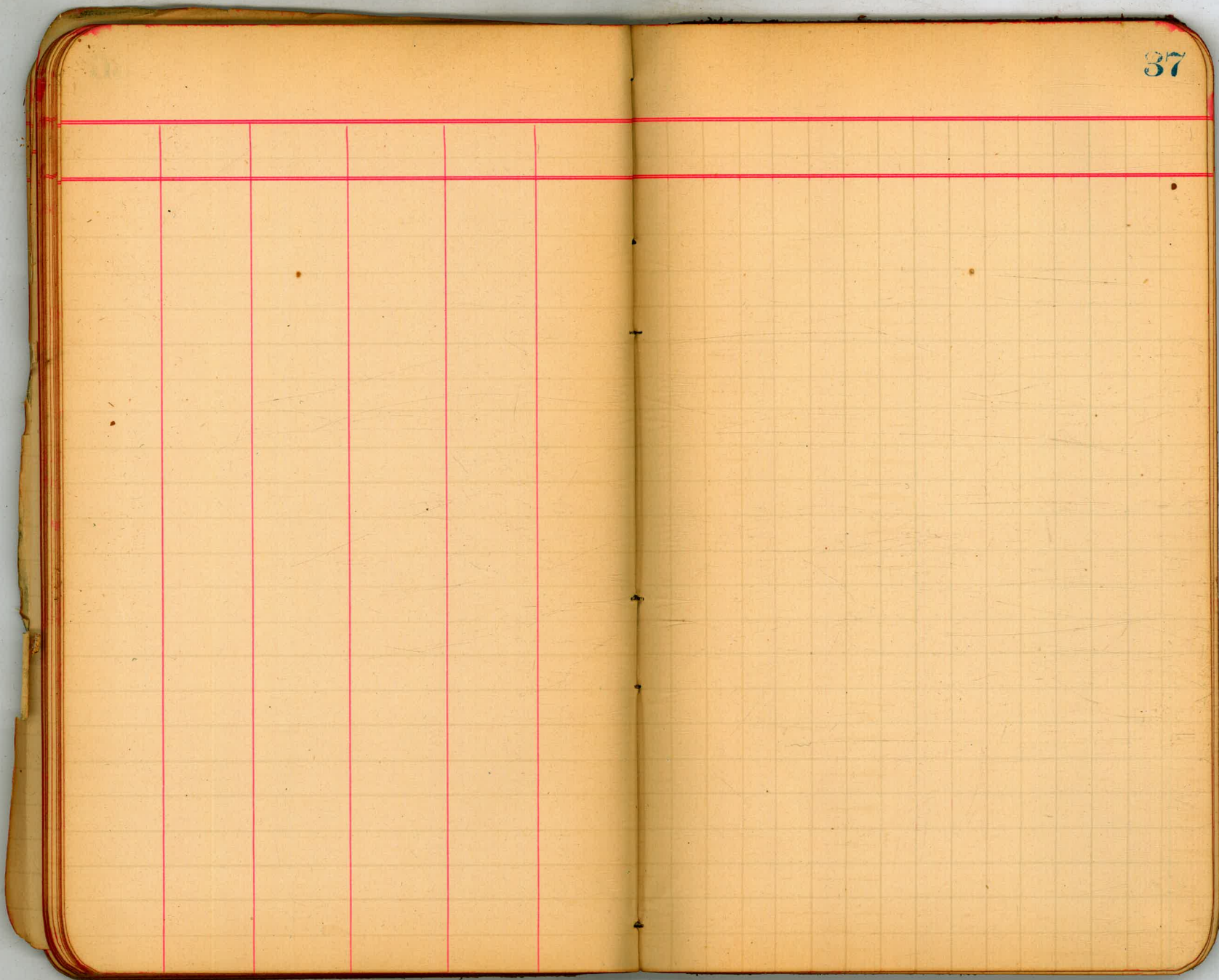


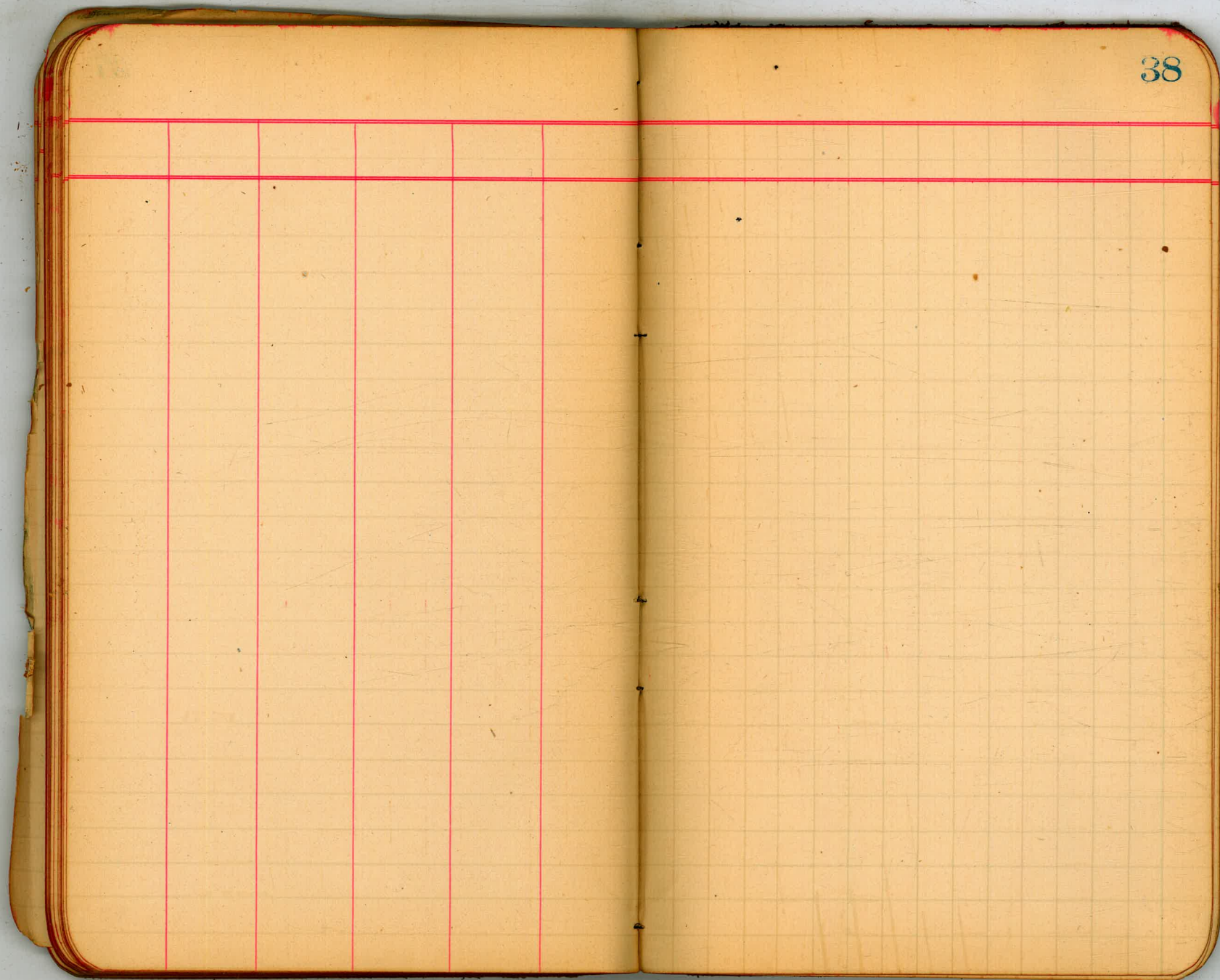




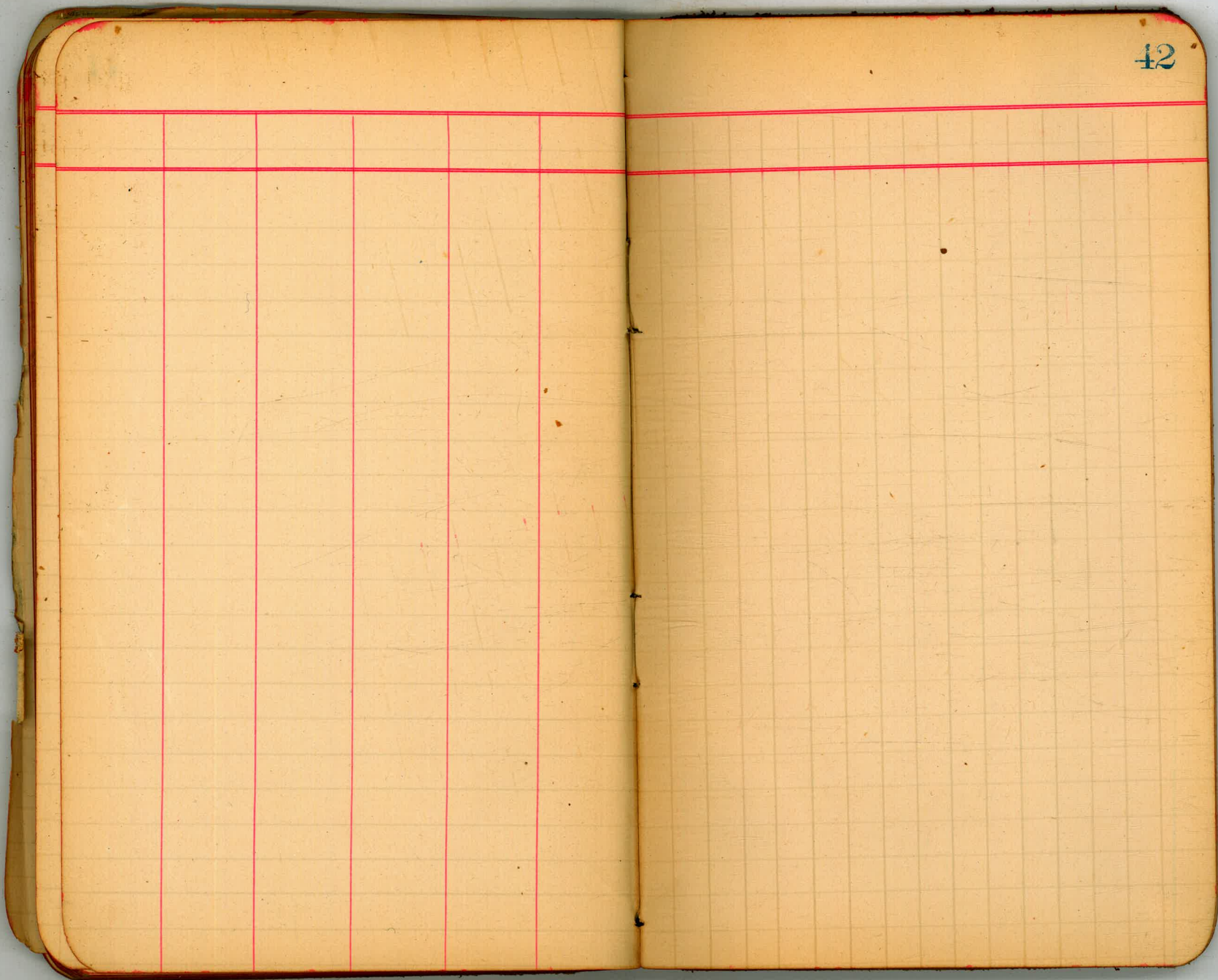
The image shows an open notebook with two pages. The left page is ruled with a grid and has six vertical red lines, creating seven columns. The right page is ruled with a grid and has the number 35 in the top right corner. The notebook is placed on a light-colored surface.





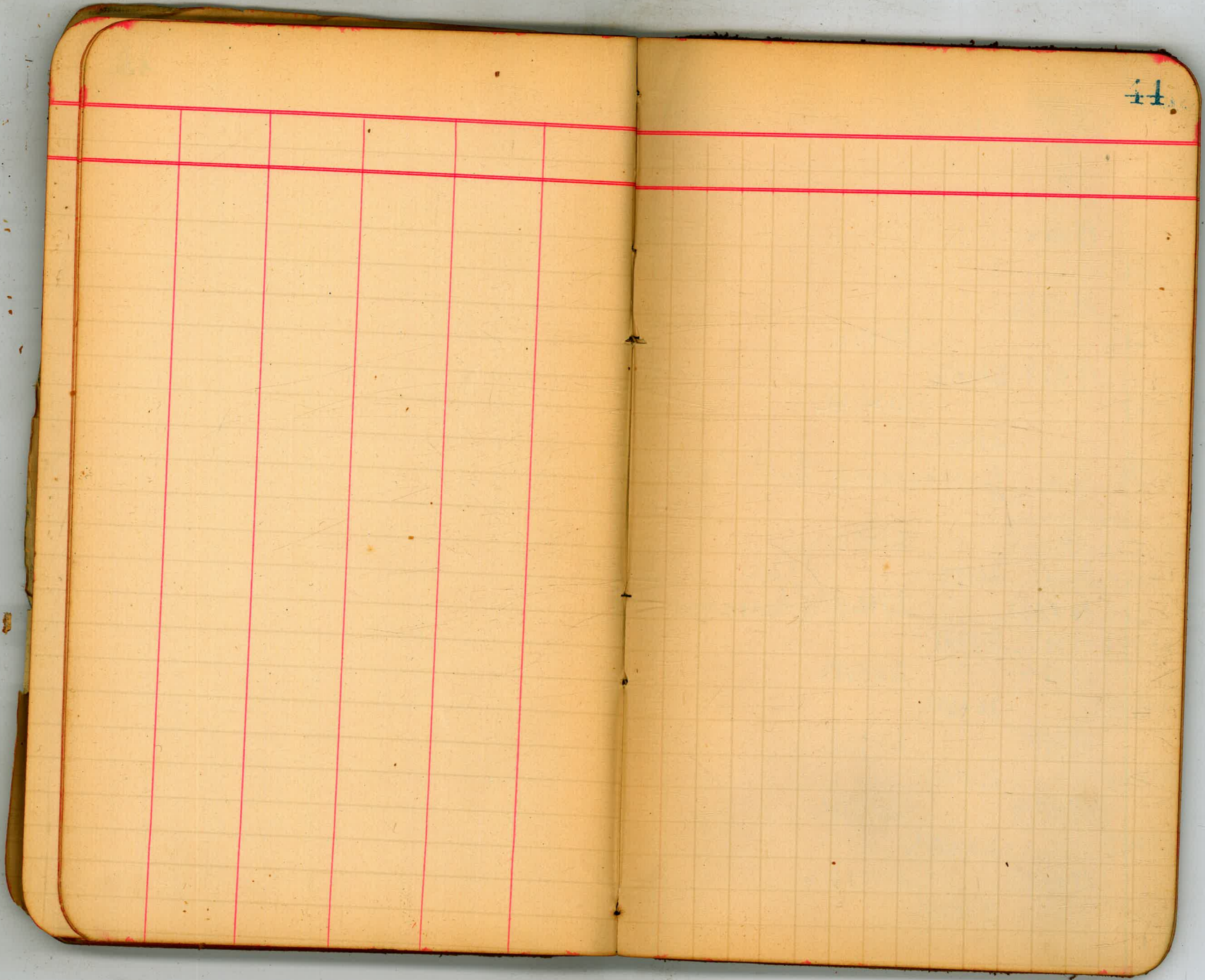


The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a header row at the top, followed by a row with six vertical columns. Below these are several rows of horizontal lines. The right page is a grid page with a header row at the top, followed by a row with two vertical columns. Below these are several rows of horizontal lines. The notebook is bound in the center, and the pages are a light brown color.



The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a header section at the top, followed by a wide column on the left, and five narrower columns on the right. The right page is a standard grid page with a uniform grid of red lines. The number '43' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are a light tan color.

44



22nd street North from N street

W	E		
	19488		
19486			
	19483 1/2		
19481 1/2		21488	
	19439	21486	
19437		21442 1/2	
		21442 1/2	
18498	Cor. of running East for J		
		21439	
18460	18430	21437	
18432 1/2	18434 1/2	21424	Cpt Sherman
18405 1/2	18408 1/2	21411	
	17484	20488 1/2	
17482		20487 1/2	
	17458	20463	
17456		20461	
	17434	20438 1/2	
17432		20436 1/2	
	17408	20414 1/2	
17406		20412 1/2	

22nd street running North of N street

W	E		
		14x30	
		14x28	16x84
South line of st		14x04	16x82
11x00	9m	14x02	16x58
	10x93	13x99 $\frac{1}{2}$	16x56
11x91		13x97 $\frac{1}{2}$	16x33
	10x49 $\frac{1}{2}$	13x54 $\frac{1}{2}$	16x31
10x49 $\frac{1}{2}$		13x52 $\frac{1}{2}$	16x09 $\frac{1}{2}$
	10x23 $\frac{1}{2}$	13x29 $\frac{1}{2}$	16x07 $\frac{1}{2}$
10x21 $\frac{1}{2}$		13x27 $\frac{1}{2}$	15x85
	9x98	13x03	15x83
9x96		13x01	15x59
	9x78	12x78	15x57
9x71		12x77	14x98
	9x49	12x54	6m of running West for J street
9x49		12x52	
	9x23	12x29 $\frac{1}{2}$	South line of st
9x21		12x27 $\frac{1}{2}$	14x80
	8x99 $\frac{1}{2}$	12x03 $\frac{1}{2}$	14x54
8x95 $\frac{1}{2}$		12x01 $\frac{1}{2}$	14x52
	8x78	11x79	North line of N street
8x71		11x77	

22nd street running North from N. street

47

W	E			
			5+68 $\frac{1}{2}$	8+48
	2+68	5+56 $\frac{1}{2}$	8+46	
2+61			5+44	8+24 $\frac{1}{2}$
	2+38	5+42	8+22 $\frac{1}{2}$	
2+36			6+19	7+99
	2+13 $\frac{1}{2}$	5+17	7+99	
2+11 $\frac{1}{2}$			4+93	
	1+87	4+91	7+38	6mi N running West for Sp street
1+85			4+69	
	1+63	4+57	South line Sp st	
1+61			4+43	7+20 9mi
	1+38	4+41		6+93 $\frac{1}{2}$
1+36			4+18 $\frac{1}{2}$	6+91 $\frac{1}{2}$
	1+12	4+11 $\frac{1}{2}$		6+89 $\frac{1}{2}$
1+10			6+87 $\frac{1}{2}$	
	0+88	South line Mt st		6+43 $\frac{1}{2}$
0+86		3+40 9mi	6+41 $\frac{1}{2}$	
	0+64 $\frac{1}{2}$		3+14	6+19 $\frac{1}{2}$
0+62 $\frac{1}{2}$		8+12	6+17 $\frac{1}{2}$	
	0+39		2+87 $\frac{1}{2}$	5+93
0+37		2+85 $\frac{1}{2}$	5+91	

21th sheet running North from N street

W	E	South line N street	W	E
	8+25	11x01 J		14+04 1/2
8+23			10x76	14x02 1/2
	8+00	10x74		13x80
7+98			10x50 1/2	13x78
		10x48 1/2		13x55 1/2
South line S	8+1		10x25	13x53 1/2
7x21	8m	10x24		13x30
		9x95 1/2	10x00	13x28
6x93 1/2		9+98		13+05
		6x69	9x79	13x03
6x67		9+74		12+81
		6x45 1/2	9x51	12+79
6x43 1/2		9+49		12+54
		6x21	9+24 1/2	12+52
6+19		9+22 1/2		12+36
		5+94 1/2	9+00	12+28
5+92 1/2		8+98		12+05
		5+90	8+79	12+03
5+68		8+74		11+99
		5+49	8+51	11+77
5+44		8+49	11+11	

are

14+56 end of pipe on 21st sheet
for flush Tank
14+51

14+49

14+29

14+27

6m y - running East for 16 sheet

21[#] Street running North of Main

WN	E	WN	E	WN	E
	2+65		5+19		
2+63		5+17			
	2+89		4+95		
2+97		4+93			over
	2+14		4+91		
2+12		4+69			
	1+90		4+44		
1+88		4+42			
	1+64		4+20		
1+62		4+18			
	1+40				
1+38		3+59	6 mi of running		East for M Street
	1+14				
1+12					
	0+90	South line M Street			
0+88		3+41	Ins		
	0+64		3+14		
0+62		3+12			
	0+41		2+89		
0+39		2+87			

21

W

246

249

241

148

146

148

141

048

049

049

21st Street running North of

W

E

~~21st~~

914
 289

 262

80

5+75

5+522

5+25

5+60

TRAVERSE TABLE FOR TRANSIT BOOK,
 From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	80
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	81
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	82
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	83
4	99.70	6.98	99.73	7.41	99.69	7.85	99.66	8.28	84
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	85
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	86
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	87
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	88
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	89
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	90
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	71
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	72
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	73
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	74
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	75
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	76
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	77
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	78
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	79
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	80
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	61
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	62
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	63
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	64
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	65
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	66
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	67
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	68
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	69
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	70
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	51
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	52
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	53
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	54
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	55
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	56
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	57
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	58
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	59
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	60
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	41
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	42
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	43
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	44
45	70.71	70.71							45

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21st meet



22nd meet