

17th Street

and 24th Street

No 4

9

50

TRANSIT

F.B. 684

684

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	47	40	93½	60	140

PUBLISHED BY

EDWARD DENNIS & CO.

DRAWING PAPER & MATERIAL, MATHEMATICAL INSTRUMENTS, ETC.,
STATIONERS AND PRINTERS,
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.
°		°		°		°	
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

H Street curve and up 17th

Street to J Street.

1

East	West	
East	South	6+22½
	3+19	6+20½
3+17		5+98
	2+94	5+96
2+92		5+72
	2+68	5+70
2+66		5+48
	2+44	5+46
2+42		5+23½
	2+19½	5+21½
2+17½		4+99½
	1+93½	4+97½
1+91½		4+73
	1+69½	4+71
1+67½		
	1+44	
1+42		3+79
	1+19	3+69
1+17		3+67
	0+99	3+42½
East		3+40½

South line of I Street.

Injection hole 13ft North of north line of I Street.

South line of H Street.

Y's on 17th Street south of H Street.

East West

7+70 $\frac{1}{2}$
 7+44 $\frac{1}{2}$
 7+22 $\frac{1}{2}$
 7+20 $\frac{1}{2}$
 6+95
 6+71
 6+45 $\frac{1}{2}$

7+46 $\frac{1}{2}$

7+22 $\frac{1}{2}$

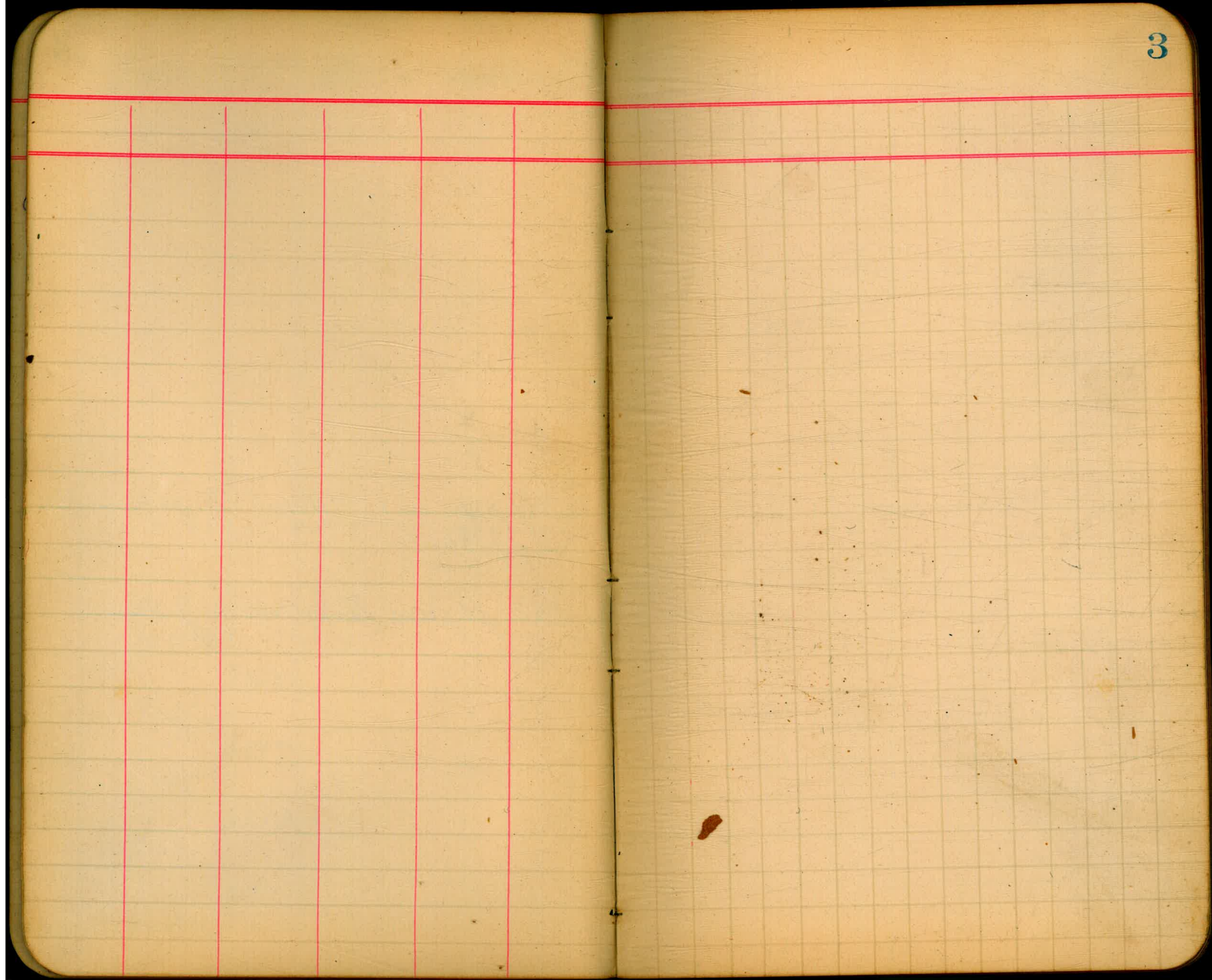
6+97

6+73

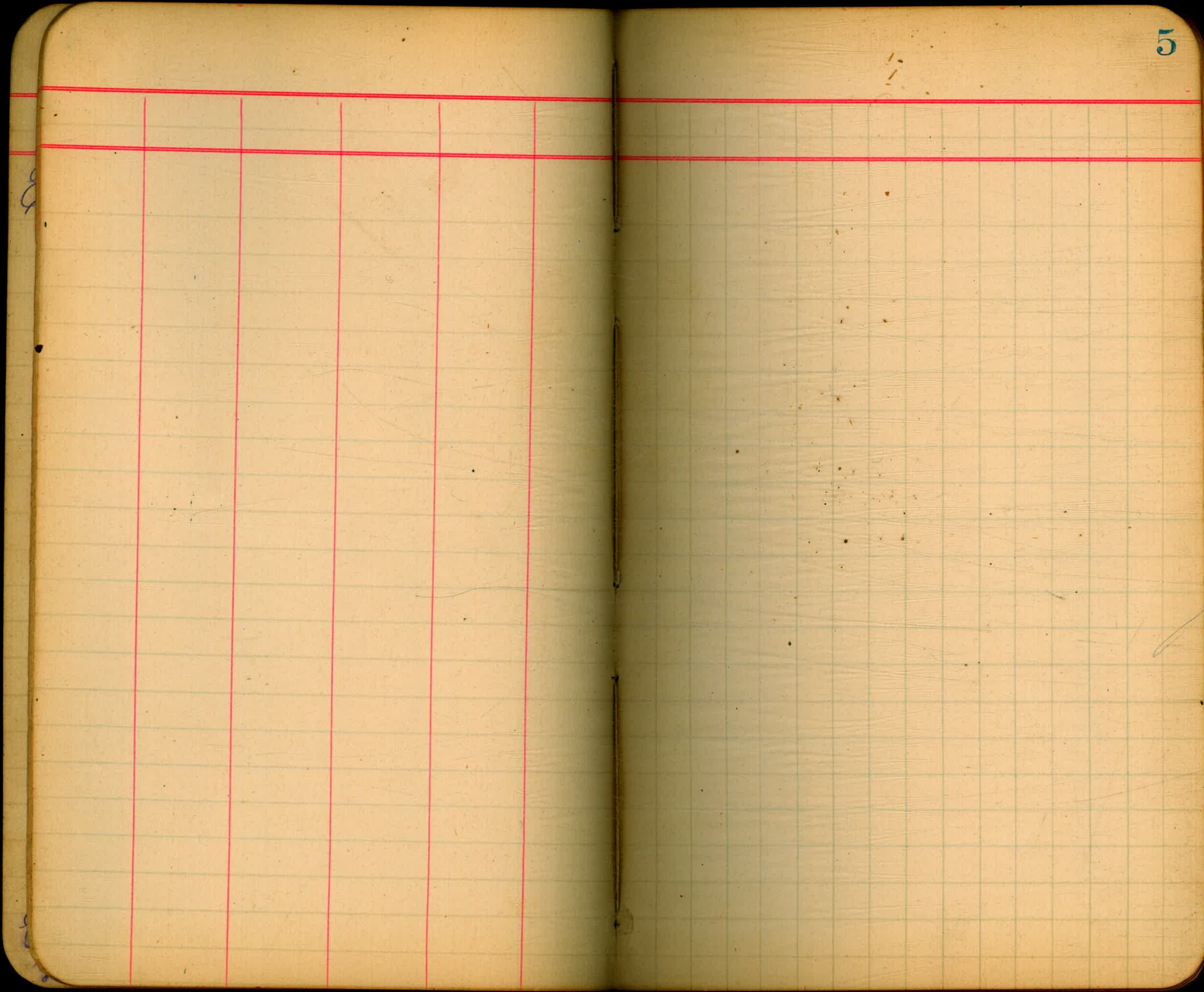
6+47 $\frac{1}{2}$

end of paper on 17th Street 1 $\frac{1}{2}$ ft from North
 line of J Street.

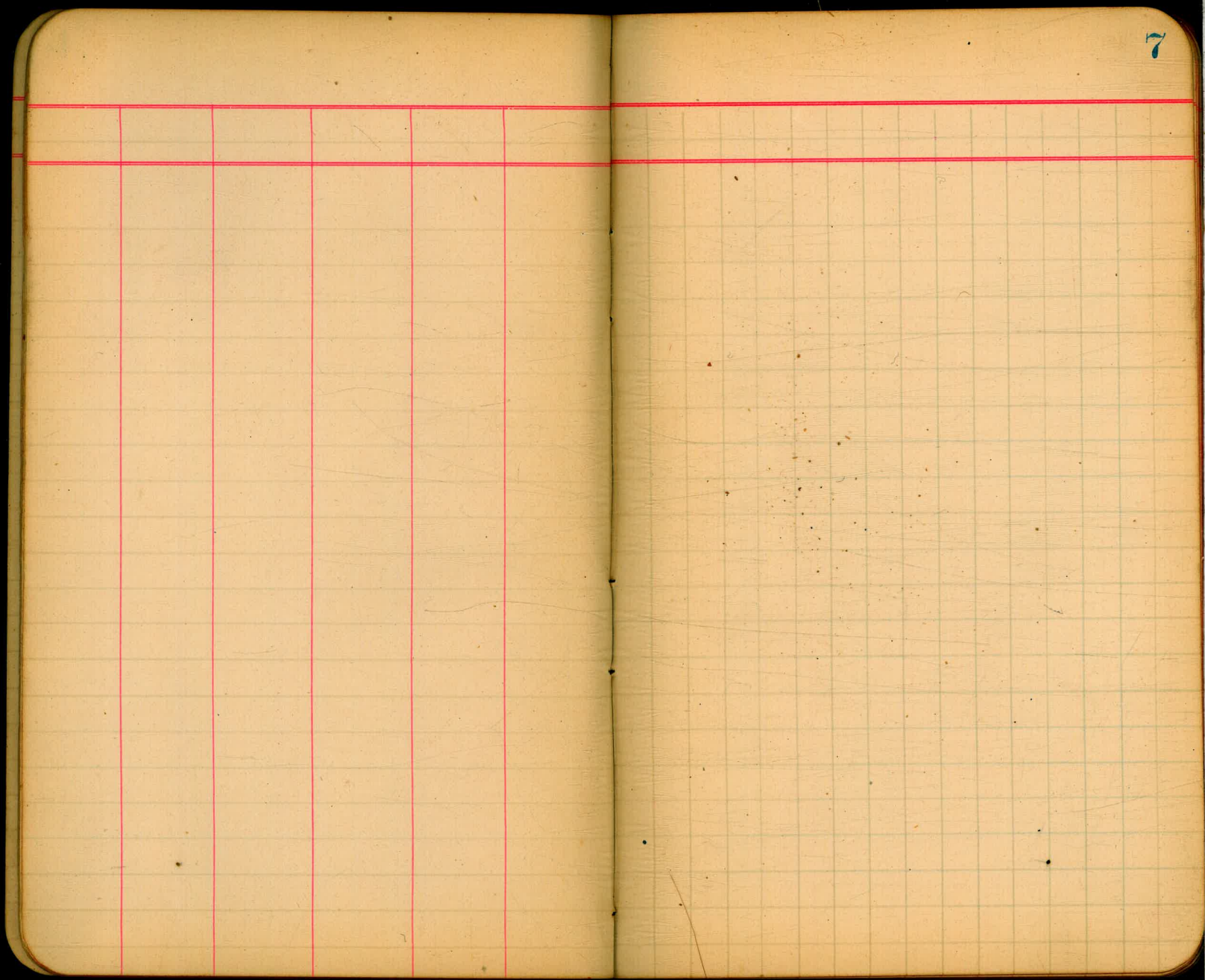
25 $\frac{1}{2}$ ft from North line of J Street.

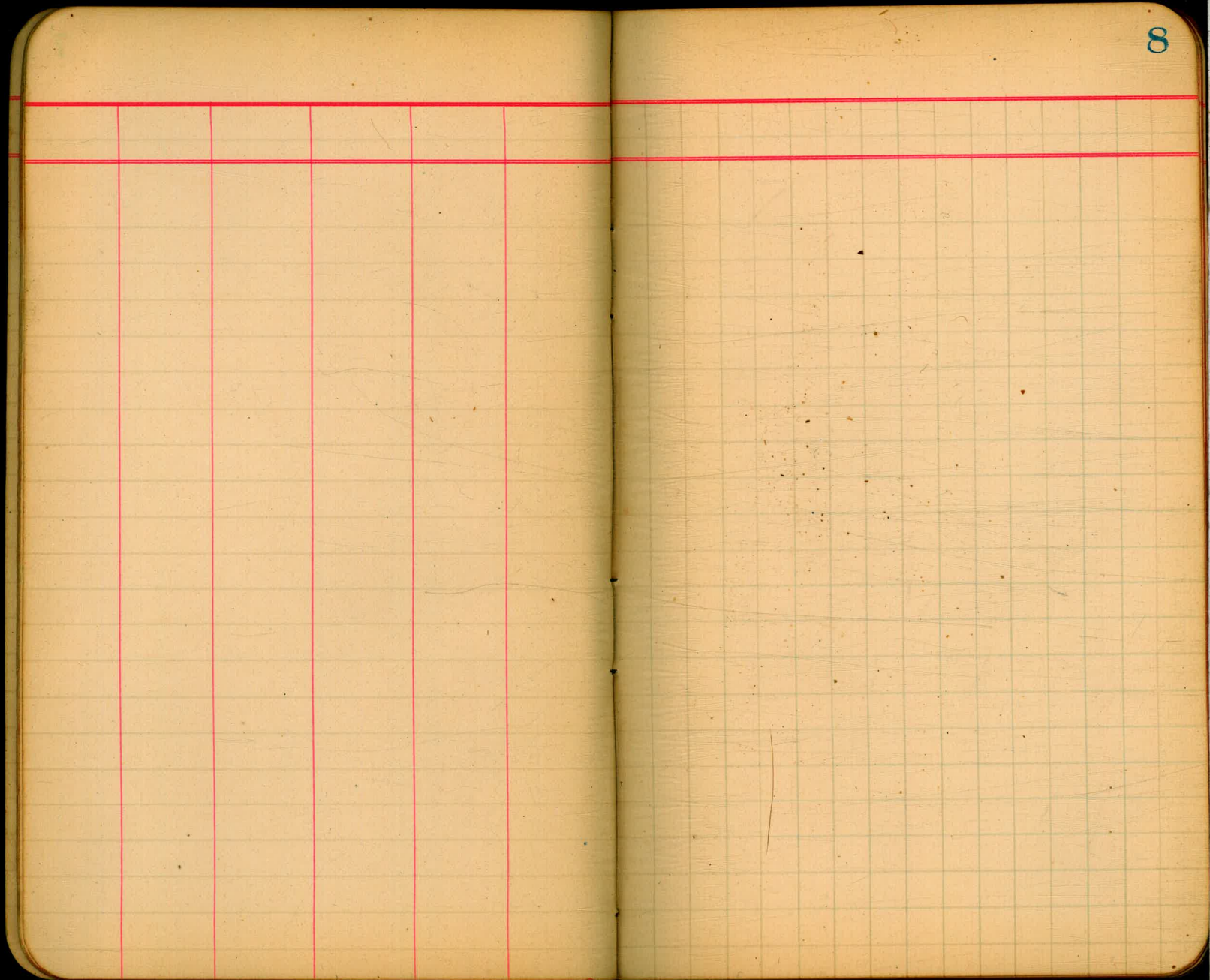


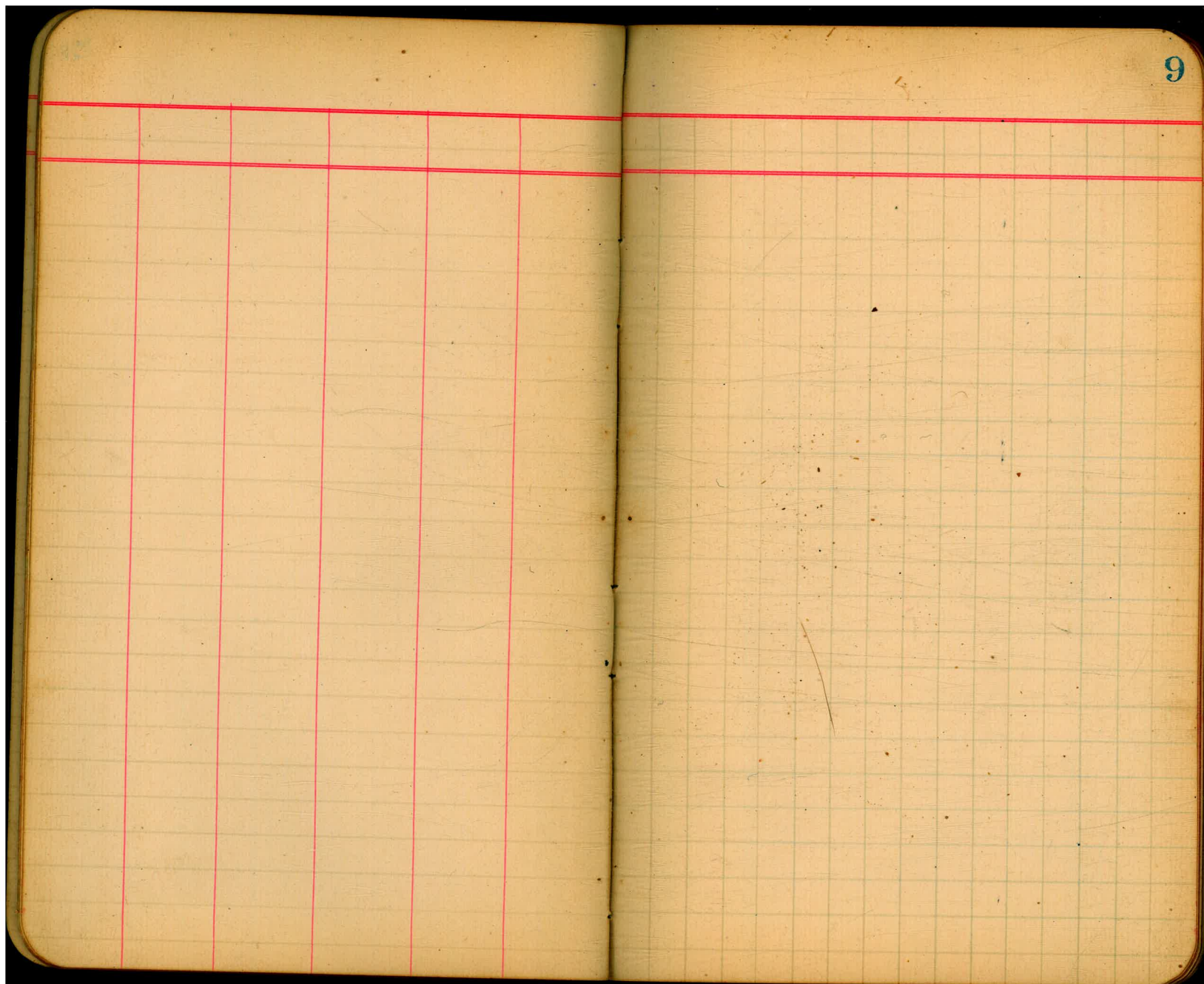
The image shows an open notebook with two pages. The left page is ruled with horizontal lines and features four vertical red lines that create a table with five columns. The right page is also ruled with horizontal lines but lacks vertical lines. Both pages are off-white and show signs of age, including some brownish stains, particularly near the top center of each page. The number '4' is printed in the top right corner of the right page. The notebook is placed on a light-colored, textured surface.

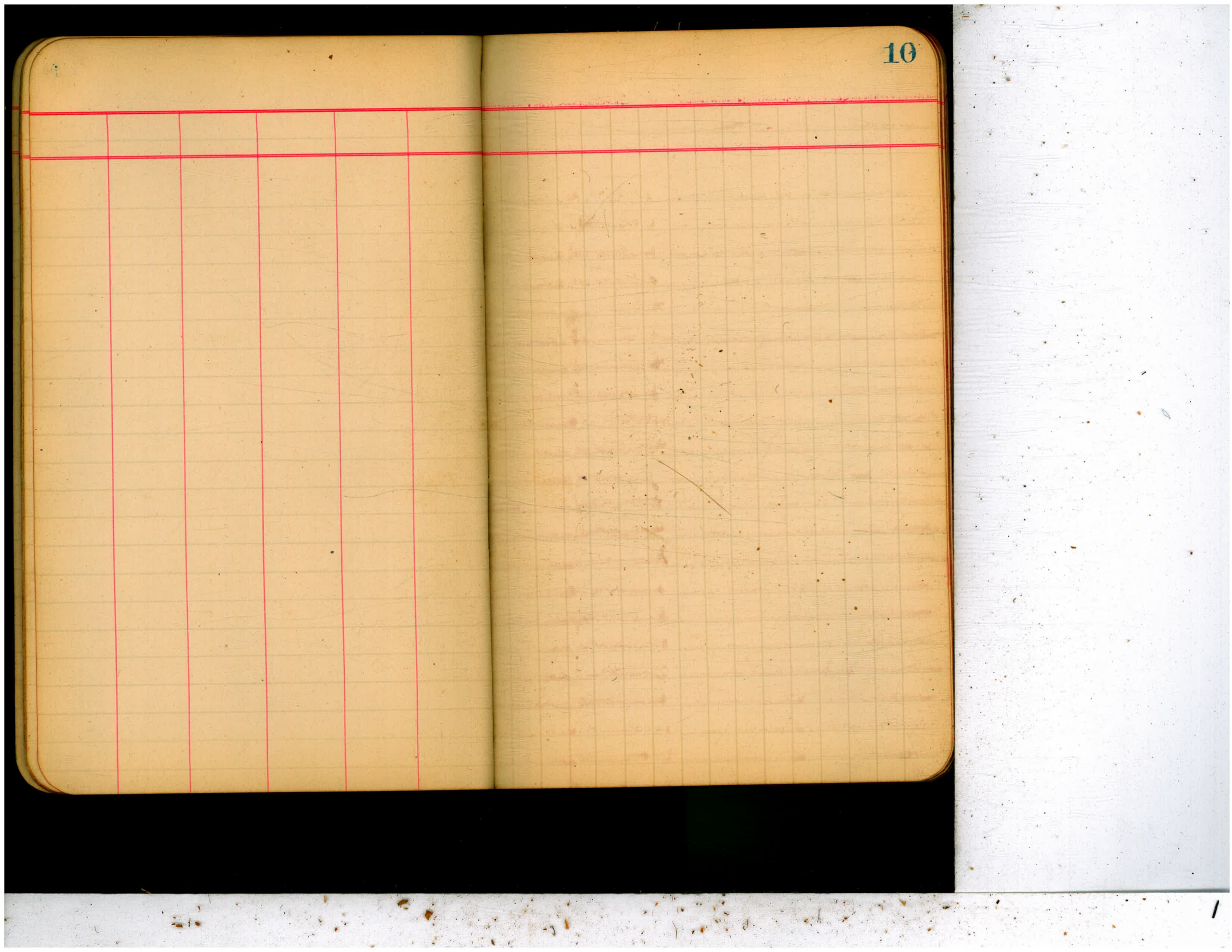


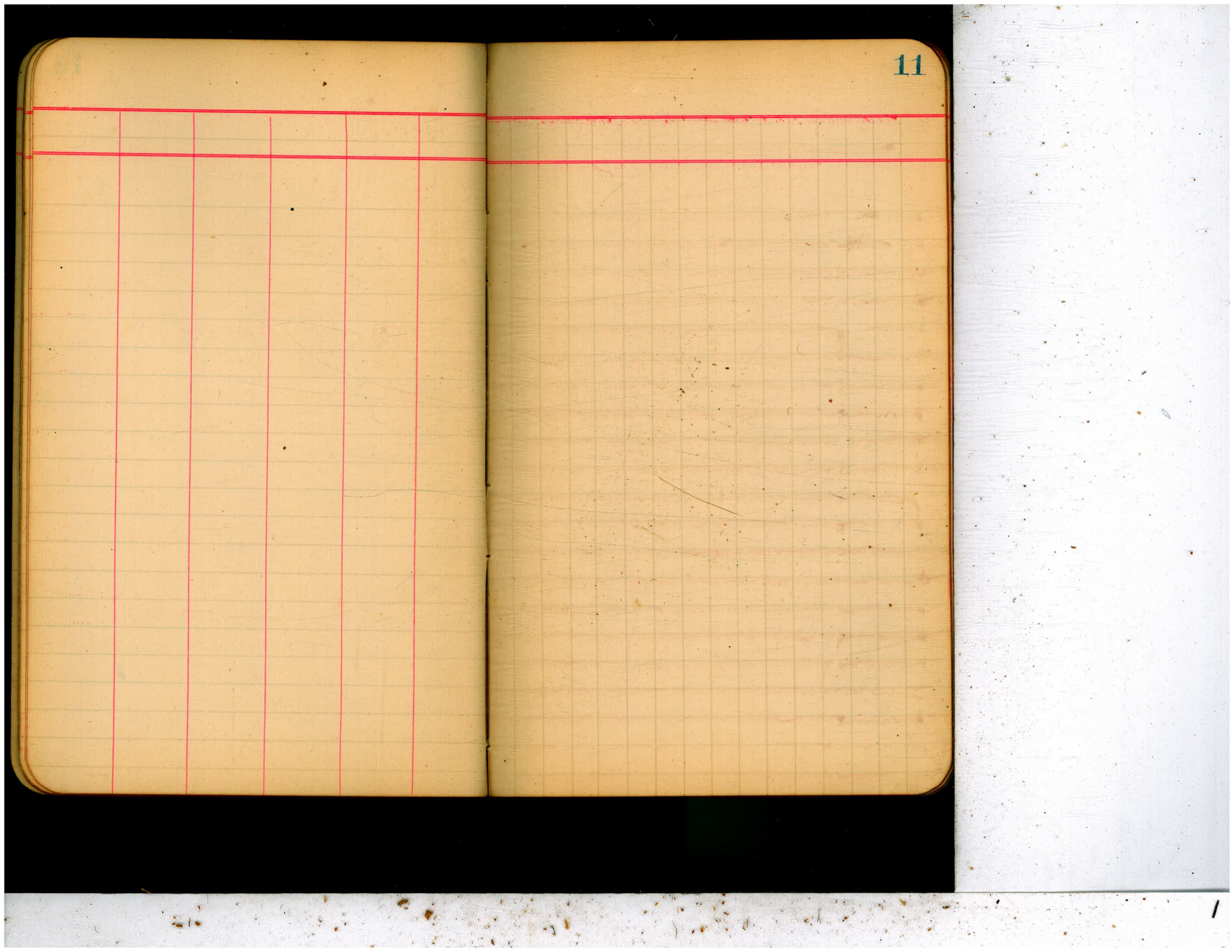
The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these, there are six vertical lines that divide the page into seven columns of varying widths. The right page is a standard grid page with a uniform grid of light blue lines. The notebook is placed on a white surface, and the page number '6' is printed in the top right corner of the right page.



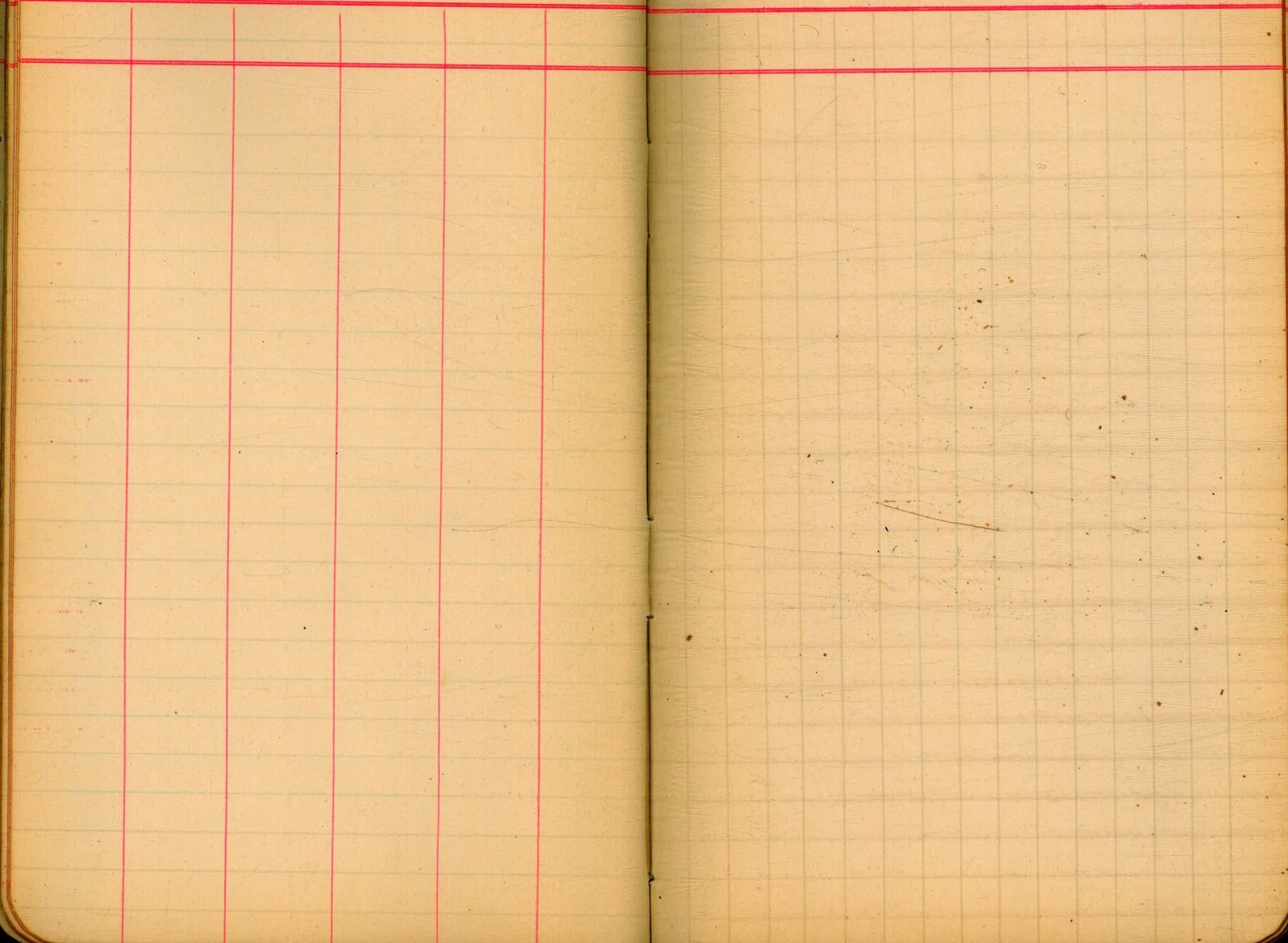




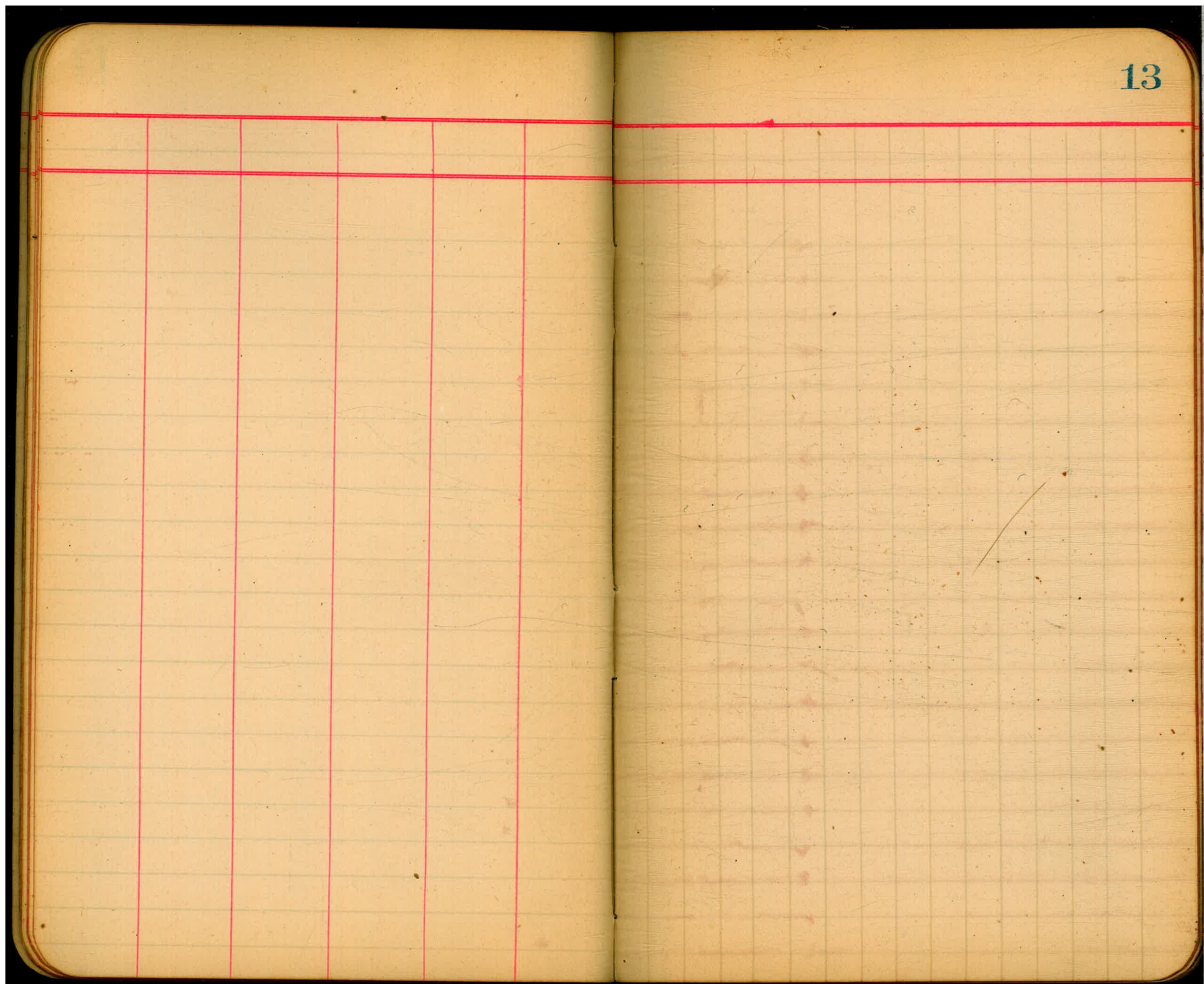


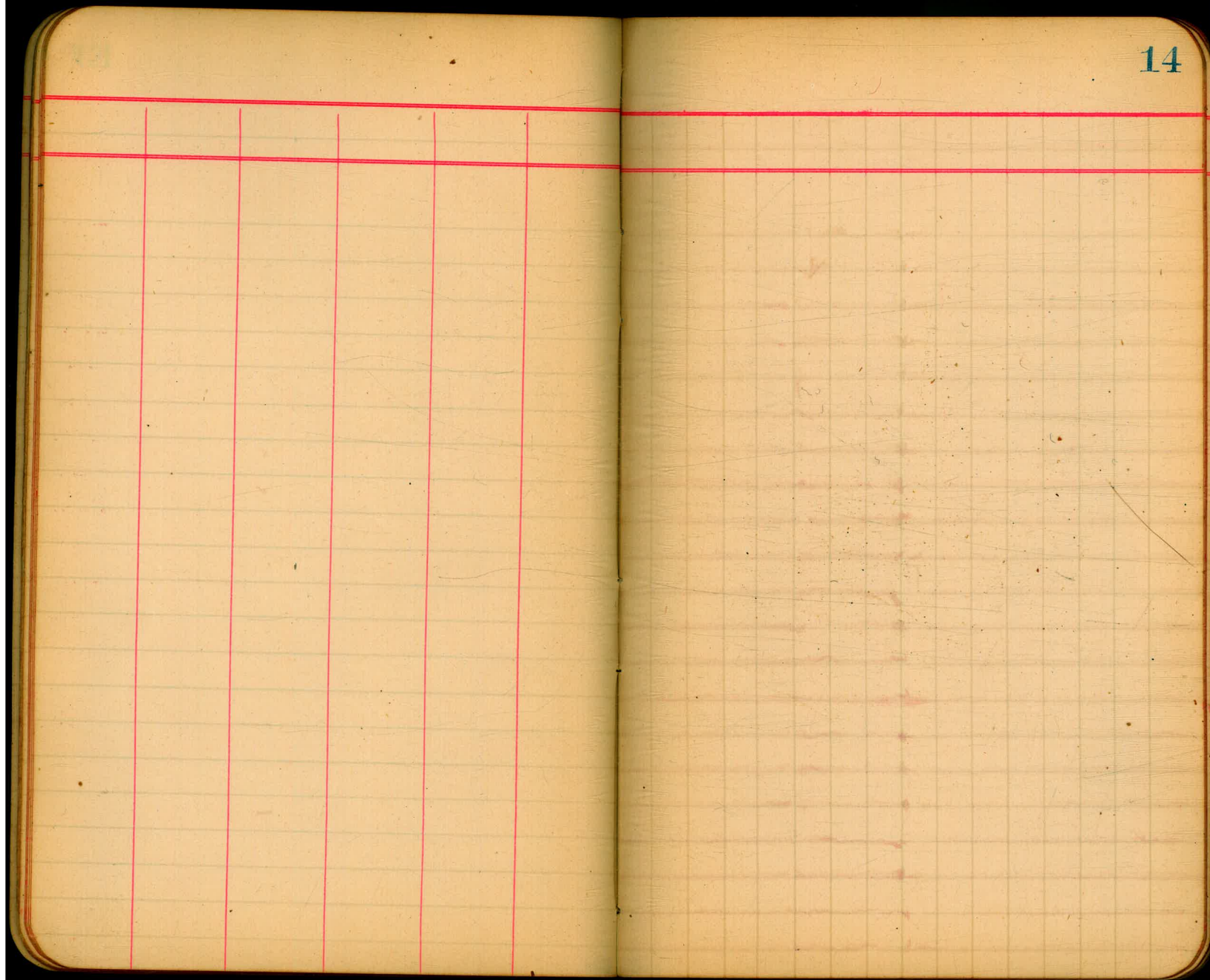


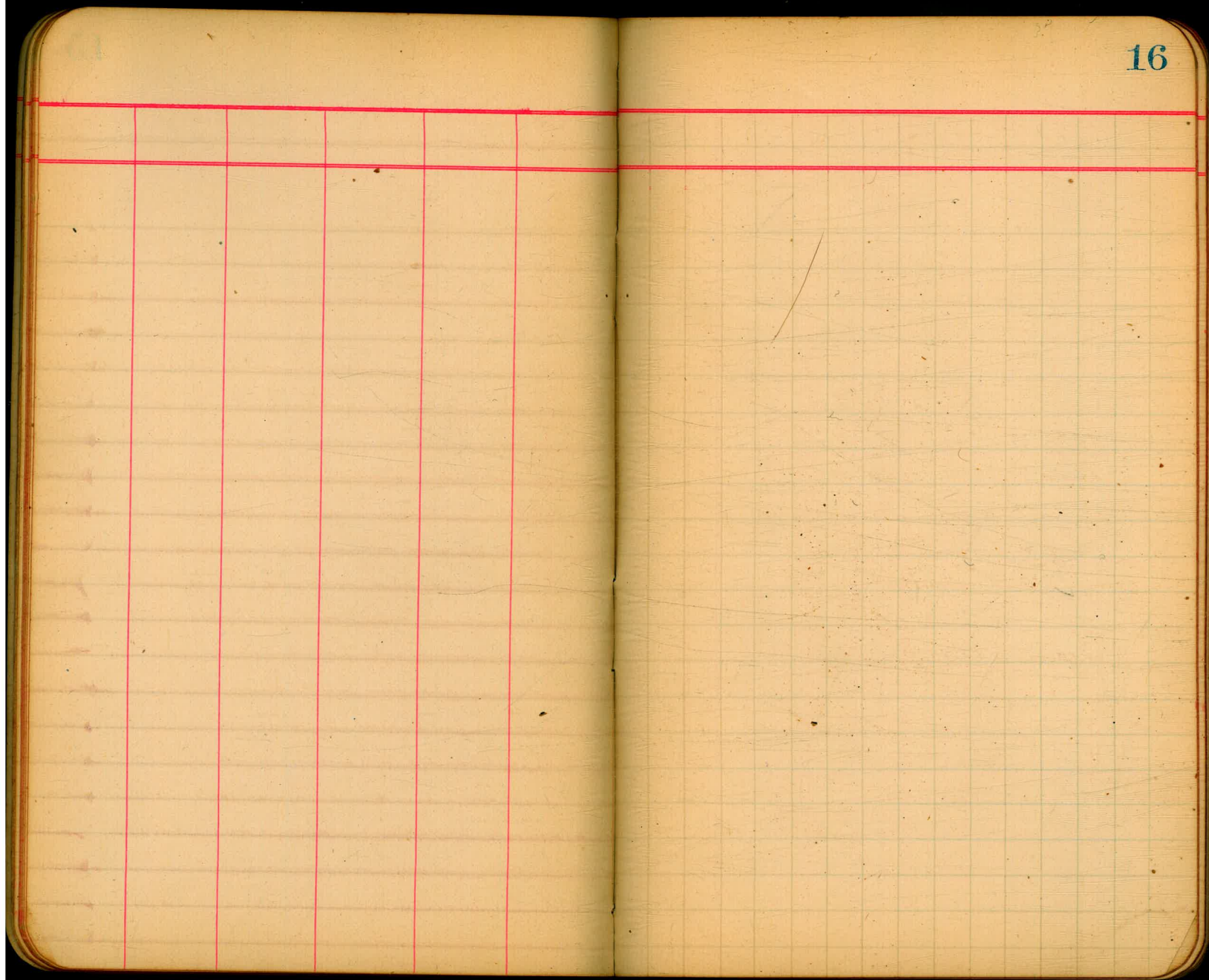
12

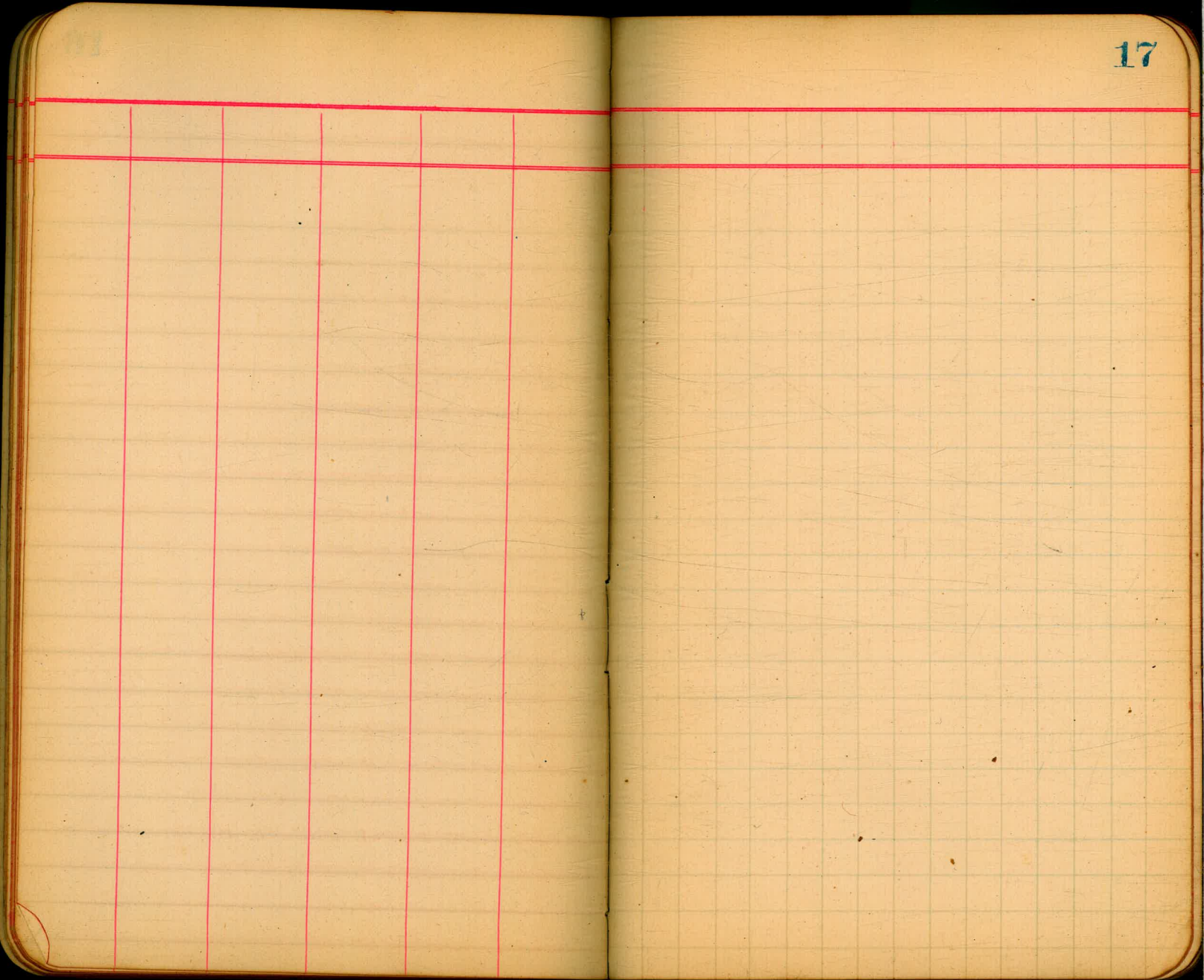


An open notebook is shown, lying flat. The left page is ruled with light blue horizontal lines and features six vertical red lines, creating seven columns. The right page is ruled with light blue horizontal and vertical lines, forming a standard grid. A red horizontal line is drawn across the top of both pages, just below the page number. The page number '12' is printed in blue ink in the top right corner of the right page.

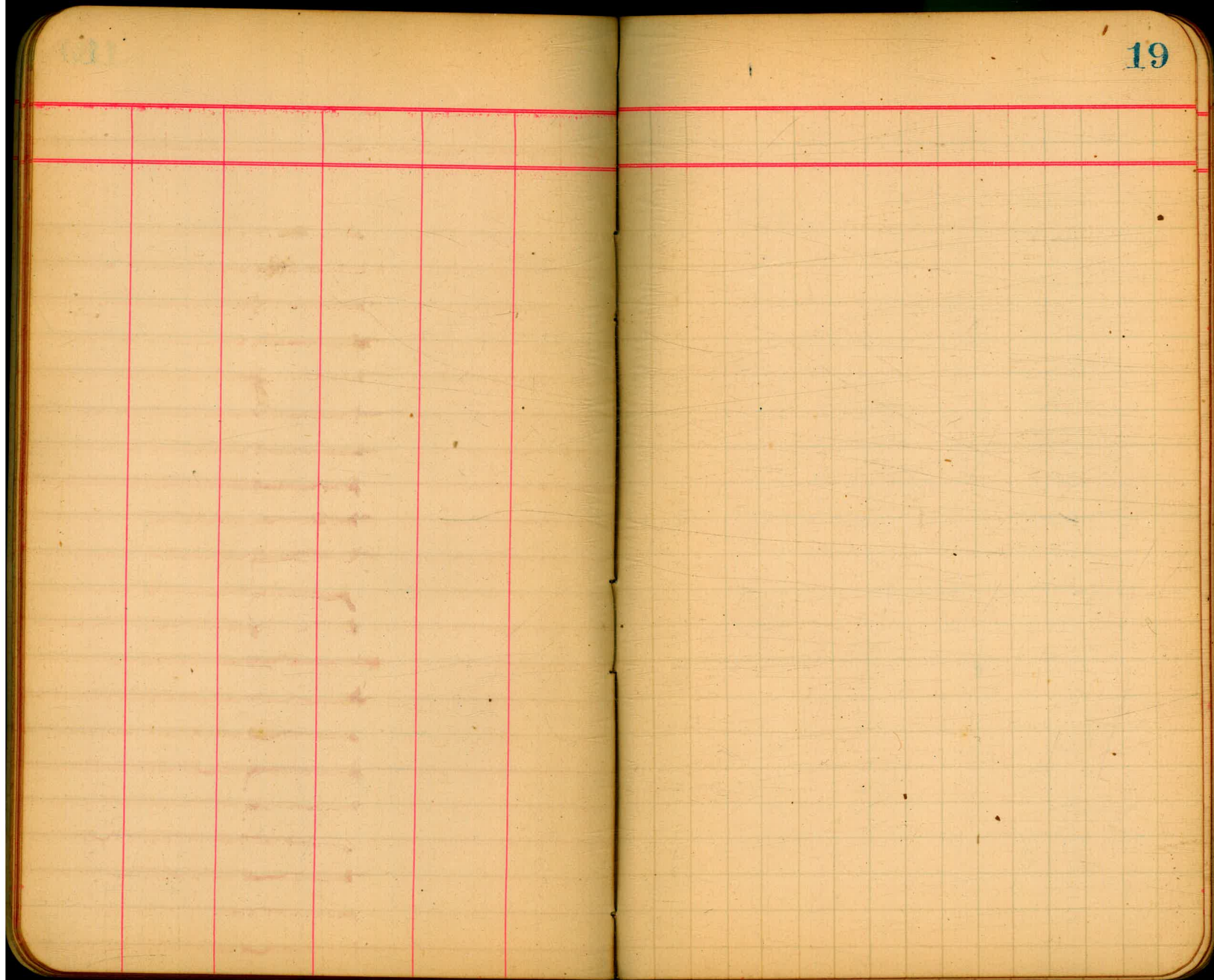




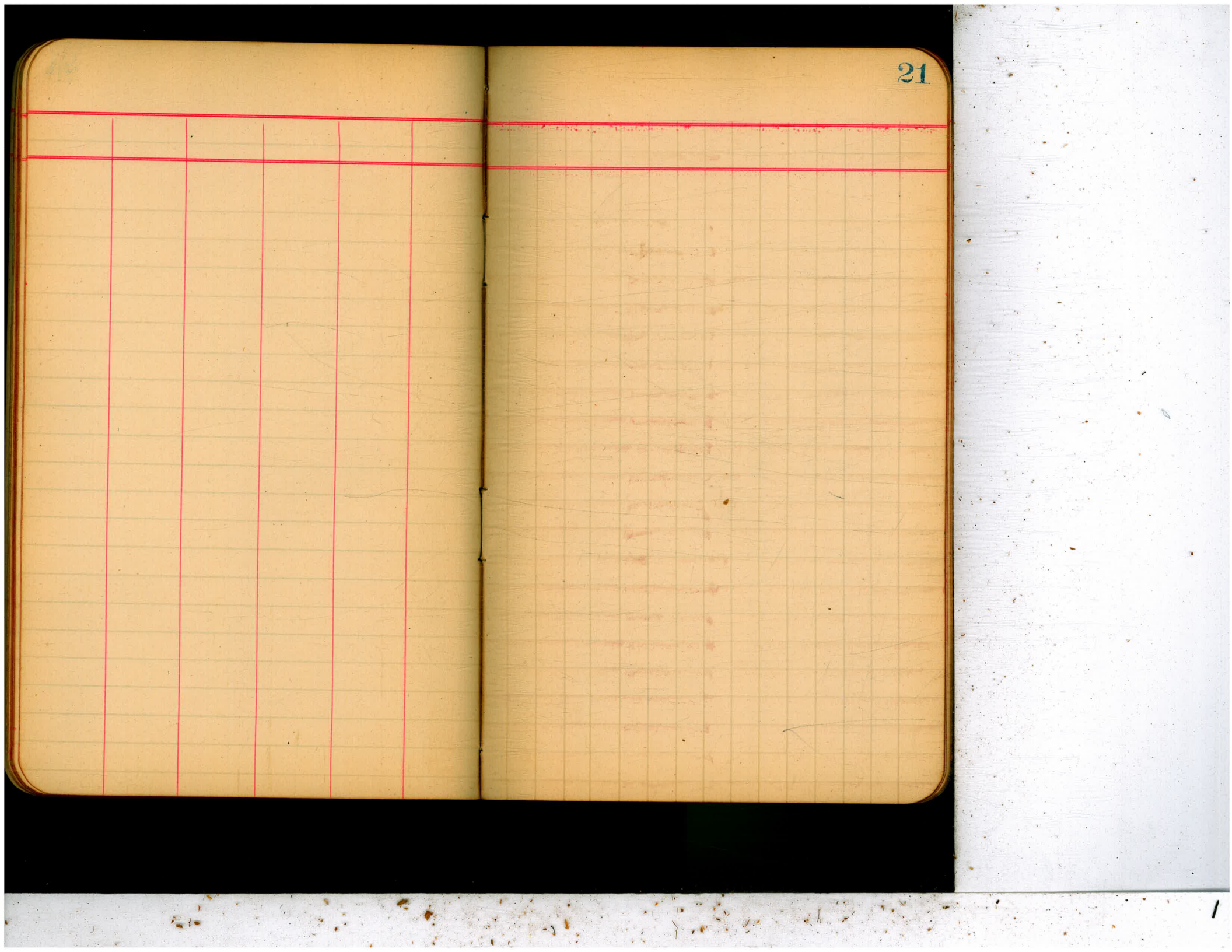


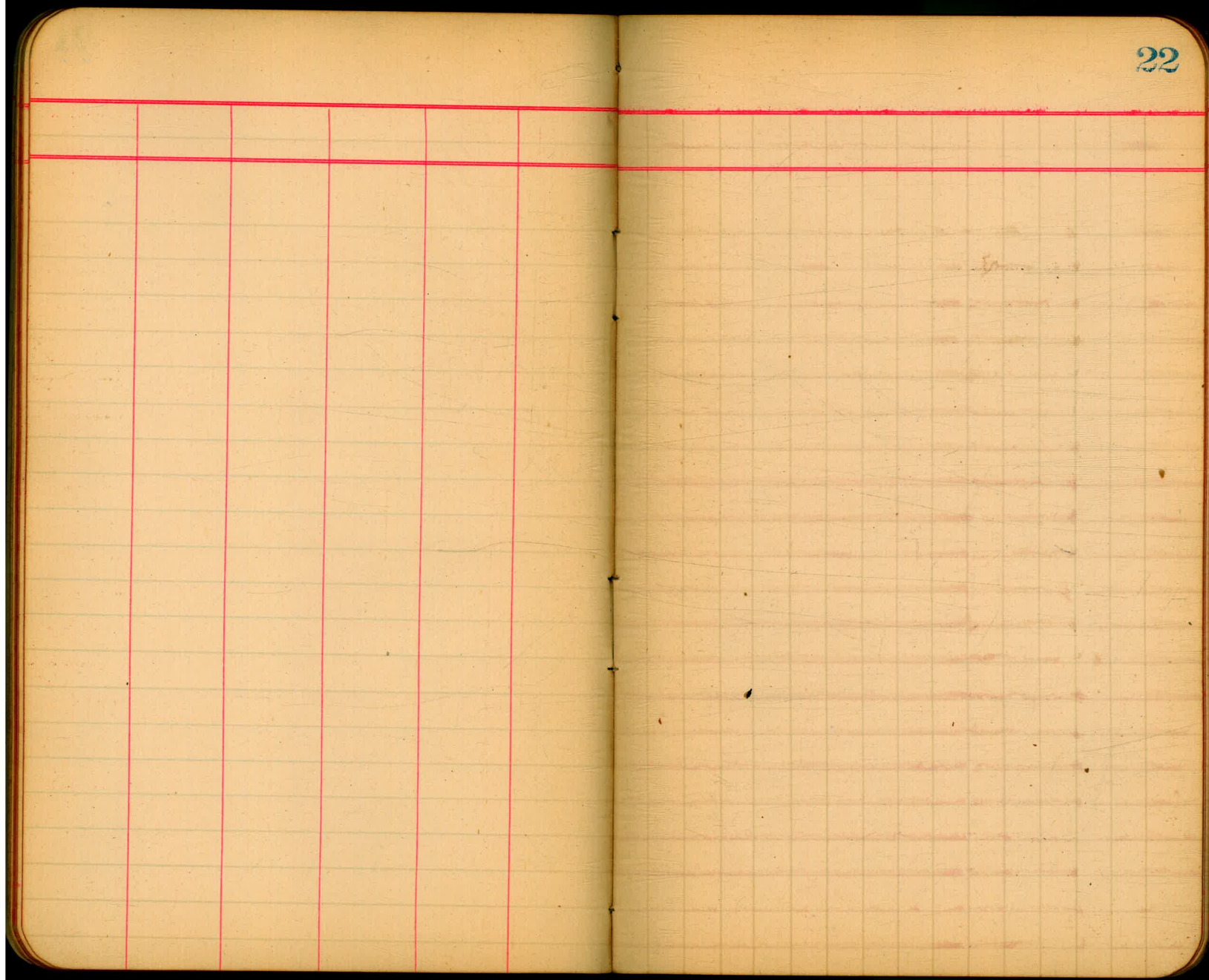


18

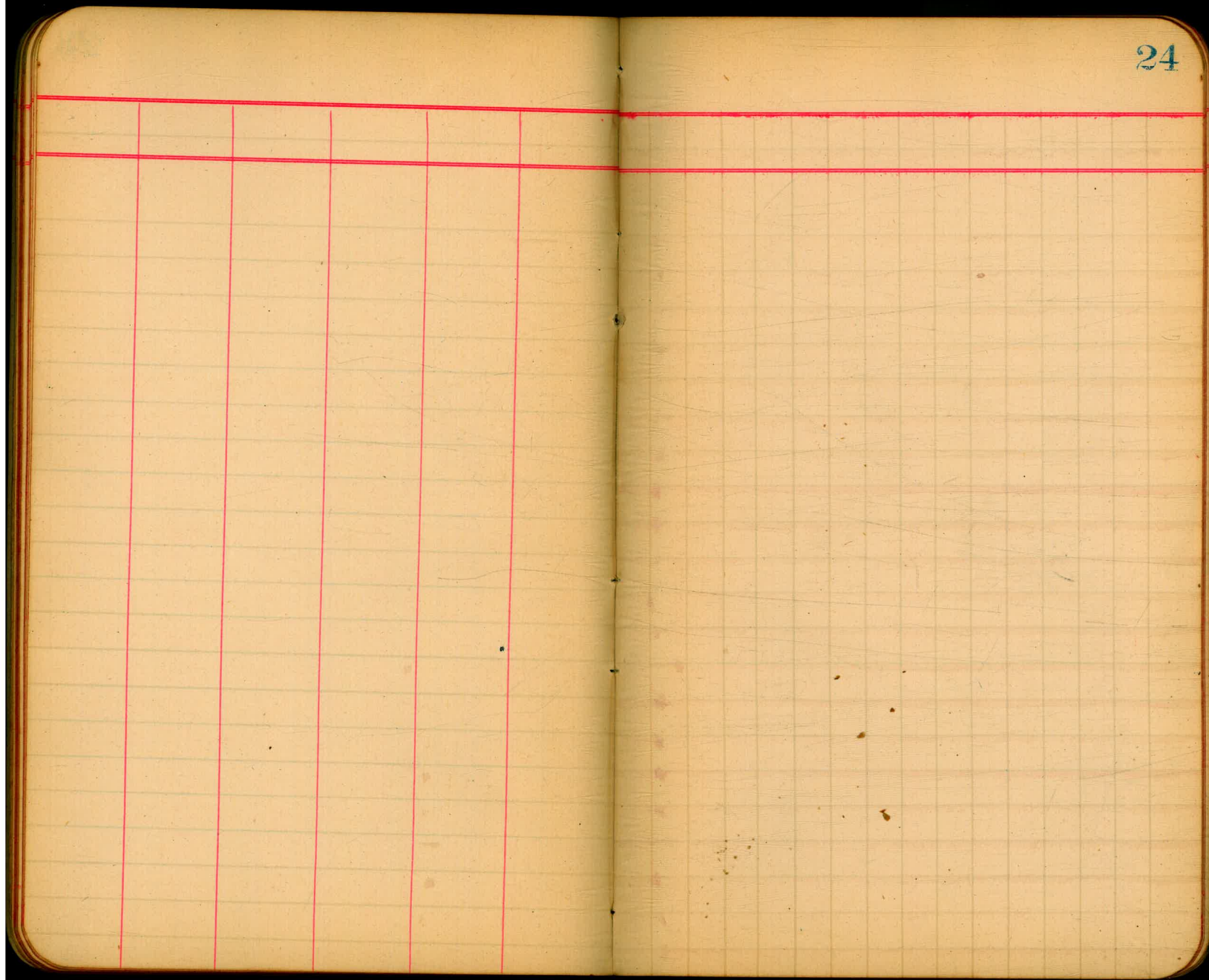


The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has a header row at the top, followed by a wide column on the left and four narrower columns on the right. The right page is a standard grid page with a uniform grid of red lines. The pages are cream-colored and show some signs of wear and discoloration. The notebook is placed on a white surface.

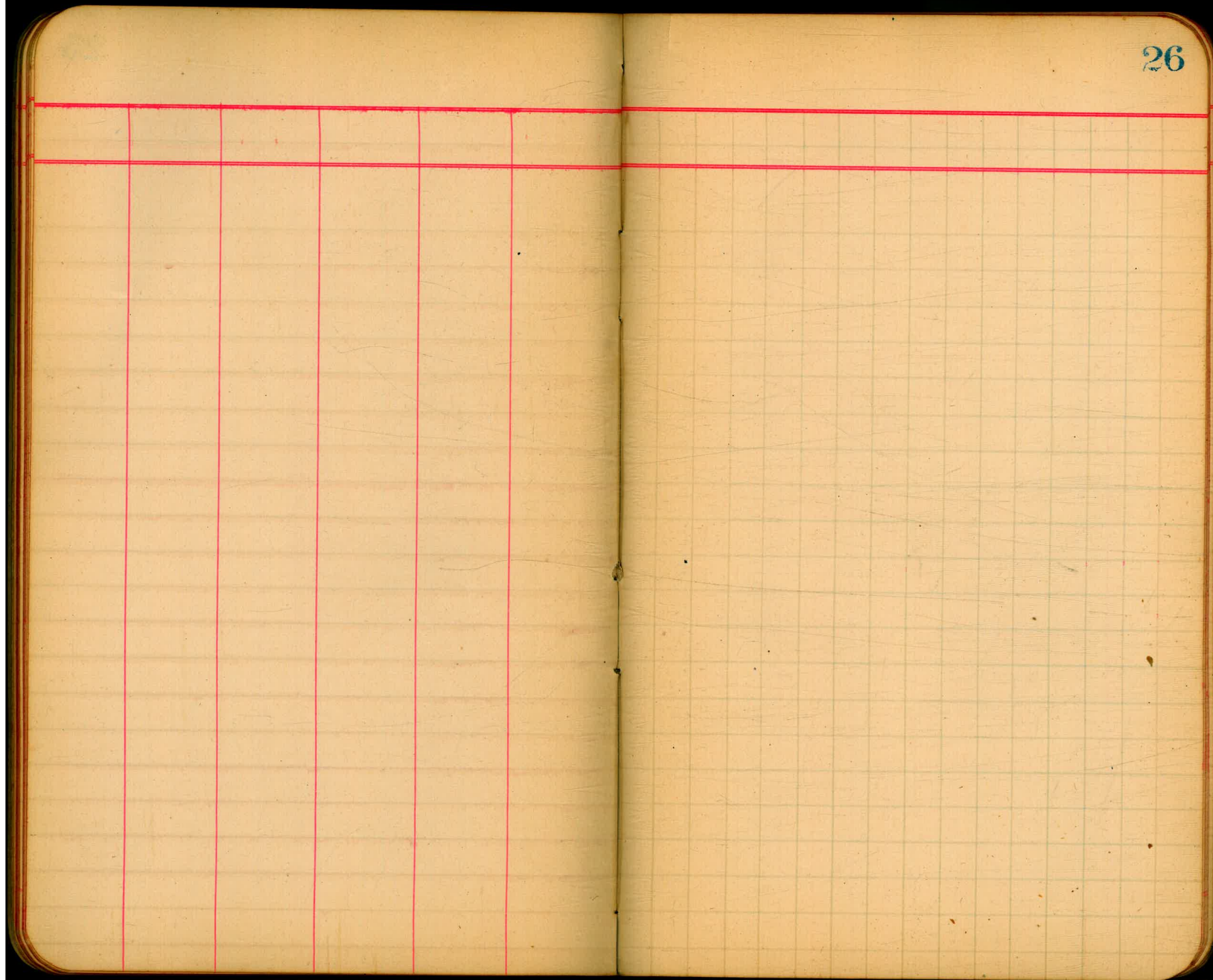




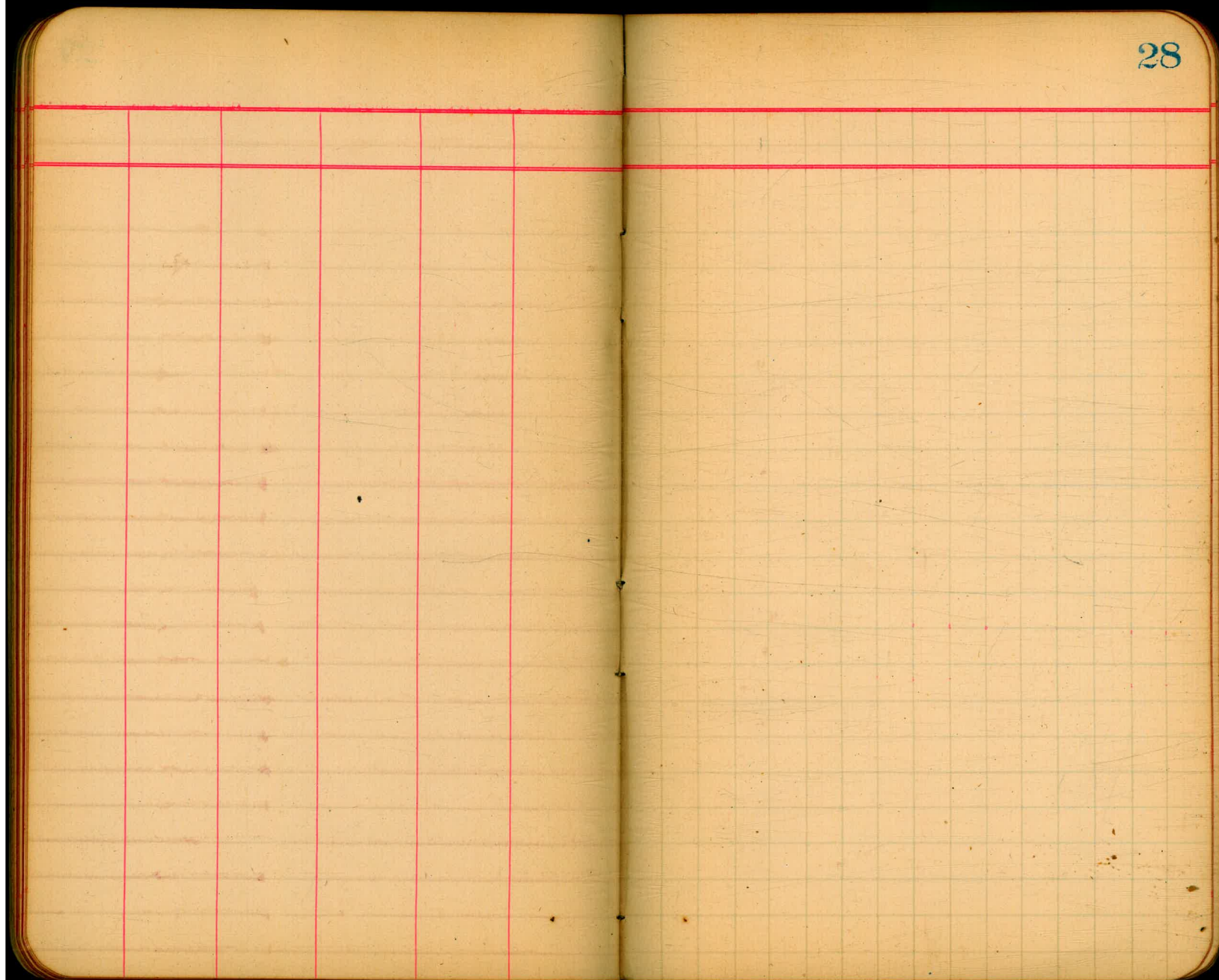


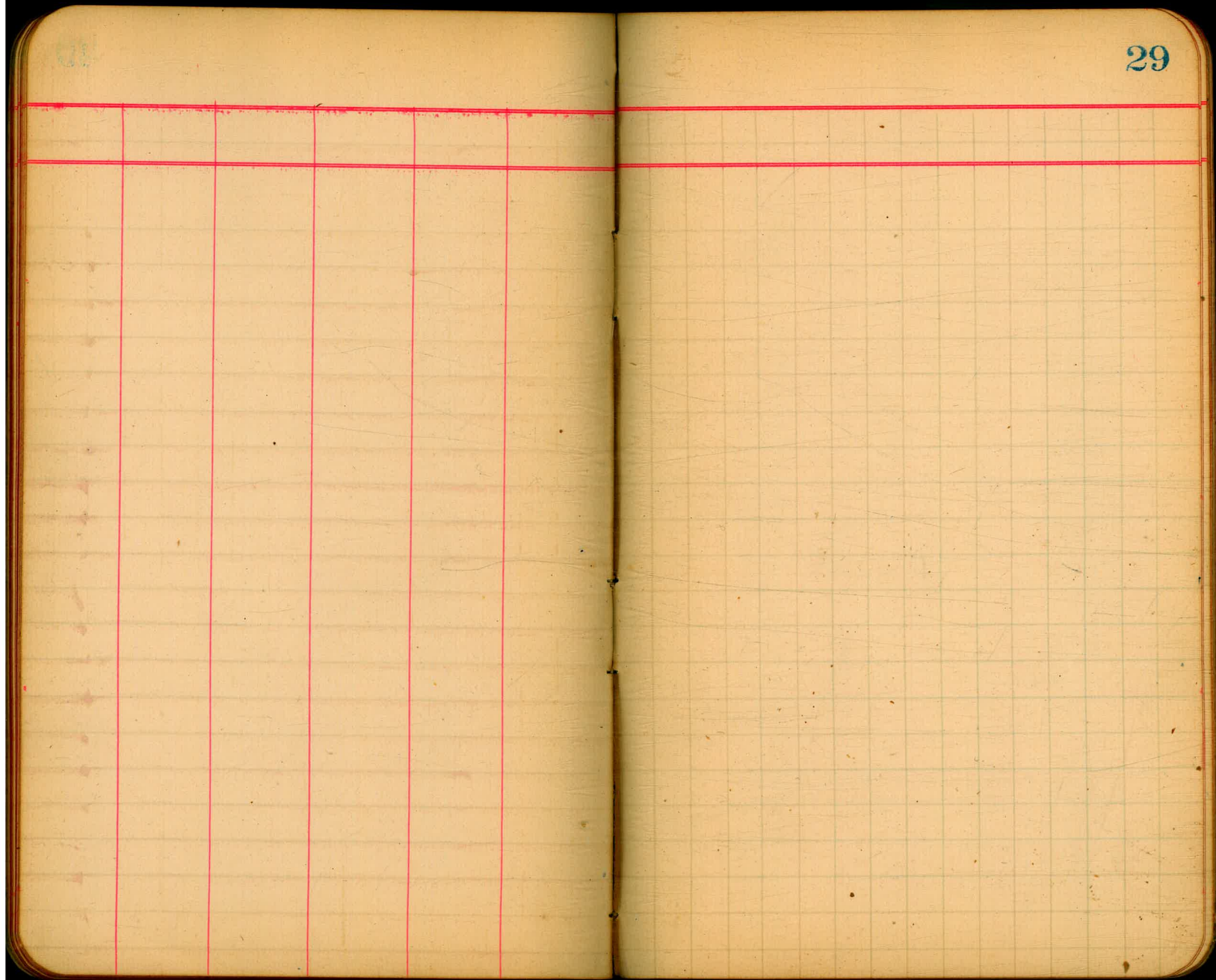


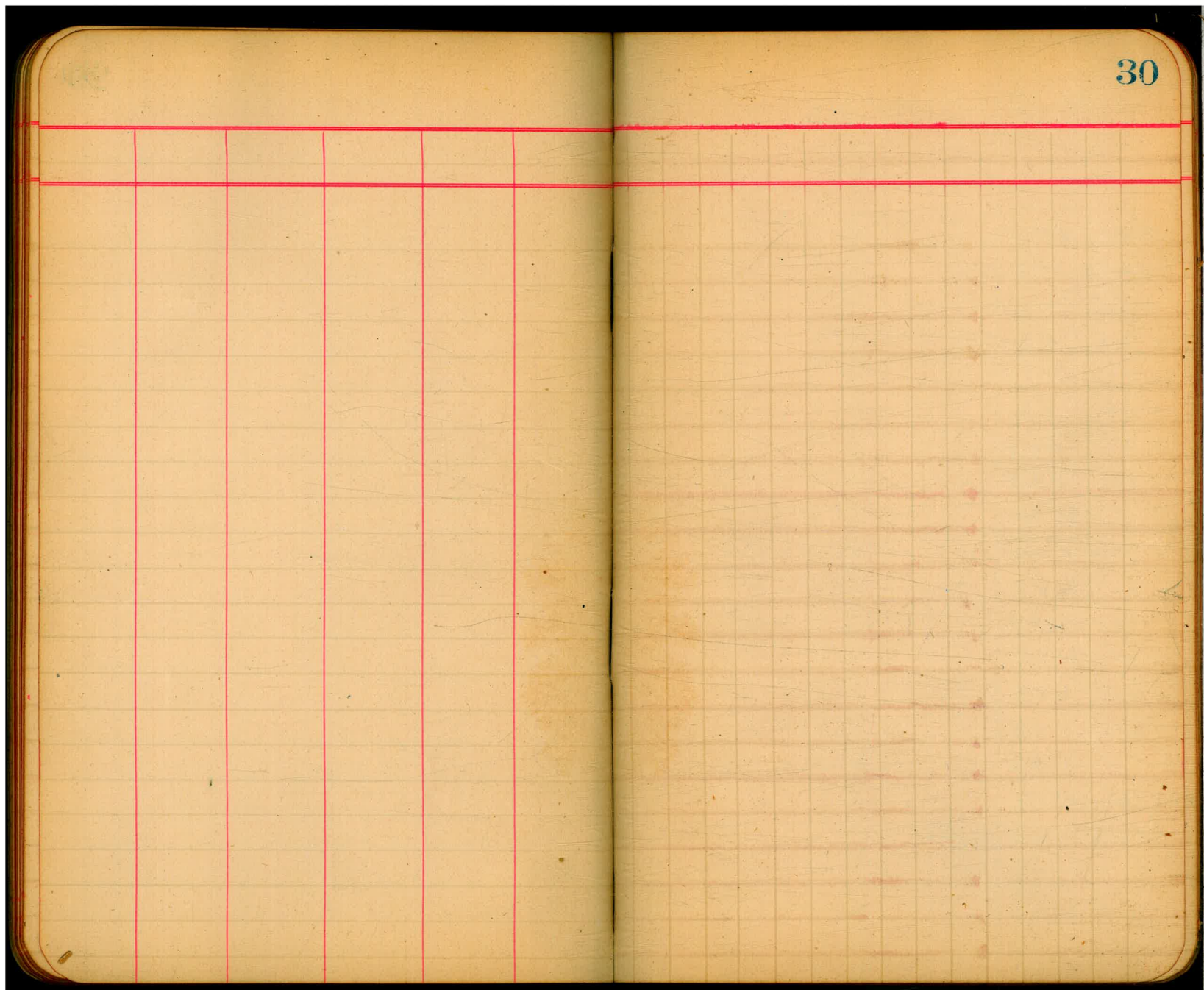




The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these, there are six vertical lines that divide the page into seven columns of varying widths. The right page is a standard grid page with a uniform grid of light blue lines. The number '27' is printed in the top right corner of the right page. The notebook is placed on a white surface, and the background is black.







H St East of 22

North	South
0+40.5	0+42.5
+65.	+67
+89	+91
1+15	1+17
+39	+41
+65	+67
+89.5	+91.5
2+13.5	2+15.5
+39.5	+41.5
+64	+66
+90	+92
3+14	3+16
+40	+42
+64	+66
+90	+92
4+14	4+16
+45	End of Pipe

J. St. West of 24

North	North
0+31	0+33
+54.5	+56.5
+81	+83
1+05	1+07
+31	+33
+56	+58
+80.5	+82.5
2+05	2+07
+29.5	+31.5
+55	+57
+80	+82
3+04	3+06
+80.5	+82.5
+55	+57
+80	+82
4+04	4+08
4+37	End of Pk.

Tunnel on 17th Street

12 inch pipe South from

M Street

East West

M St Tunnel

4+76 4+78

5+81 ManHole

6+03 12+6 XN

6+12⁵ 12+6 XN

6+72

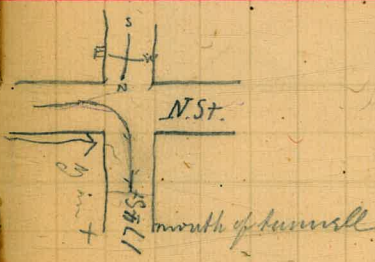
6+70

Continuation of 12 inch pipe on

17th St and curve East on N Street up N St

East West

9+52 1/2	9+54 1/2	these 1/2 are on 17 th St
9+39	9+31	
11+07		
11+35	11+10 1/2	
11+9 1/2		
N 10+89	10+87	
N 10+65	10+61	
N 10+59		these 1/2 are on N St at
8+69 1/2	8+71 1/2	
8+20	8+22	west side 18 th
7+90	7+92	12+12 north
7+20	7+22	11+85
		11+62
		11+60

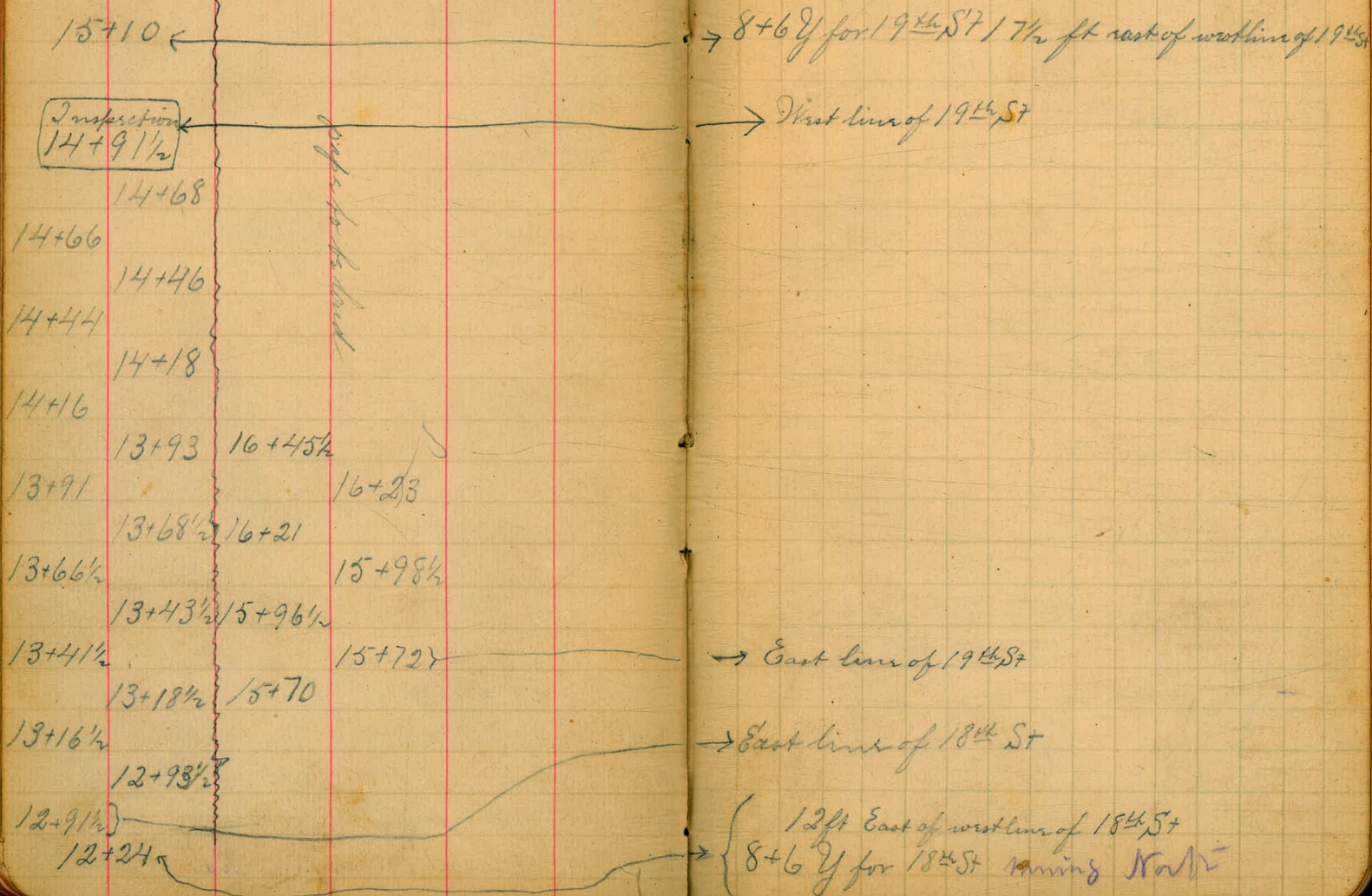


to get 1/2 on N Street commence at the flush tank on the west line of 18th street and measure to the west to get 1/2 for N Street coming out of tunnel

N S7 East 8 inch pipe.

North South

Commencing at East line of 18th St.



NT S7 East of 20th St S7

North South

		22+83	
		22+81	
	19+52	22+58	
19+50		22+56	
	19+28	22+83	
19+26		22+81	
	19+03	22+07	
19+01		22+05	
	18+79	21+83	
18+77		21+81	
		21+58	
		21+56	
		21+82 1/2 E line 21 st West	
		21+30 1/2	
	20+59 1/2	18+63 21 st Street	
		20+27 West line 21 st Street	
	20+25		
		20+02 1/2	
	20+00 1/2		
		19+78	
	19+76		

papers for each following

→ 25 ft East of East line of 20th St.

Street

N street -

38

North - Points

25x62

over

25x60

25x39

25x35

25x13

25x11

24x87

24x85

24x62

24x60

24x38

24x35

24x13 E line 22nd street

24x11

23x49 8+8 m for 22nd street -

17th East of West line

^{22nd line}
23x30²

23x08

23x06

N. sheet

39

North South

Points East east-east

28x14

8+8 y low N sheet

27x87½

27x85½

27x62½

27x60½

27x88

27x89

27x126

27x10½

26x88

26x86

26x62

26x60

26x88

26x96

26x12

26x10

25x88

25x85

3 ft - West of west line of 24th stair

24th Street

East	West	East	West	East
		30x83		33x62
30x81			33x60	
	30x58			33x36½
30x56		33x34½		
	30x82			33x40
30x81		33x08		
	30x08			32x85½
30x06		32x83½		
	29x83			32x61
29x81		32x59		
	29x58½			32x85-
29x56½		32x33		
	29x82			31x91 8+6
29x80		31x73 8+6		3 for
	29x08			3 for
29x06		New 5 th of south line M 11-		
	28x83			31x62 Jan
28x81				31x33
	28x58	31x31		
28x56				31x8
	28x56	31x06		

cont
 3 for M Street running East -
 M Street running West -

24^M/₁₁ Street

West	East	West	East
------	------	------	------

	36+99		
--	-------	--	--

36+97			
-------	--	--	--

	85+14		
--	-------	--	--

36+12			
-------	--	--	--

85+52			
-------	--	--	--

South Line East			
-----------------	--	--	--

35+85	38+11		
-------	-------	--	--

	35+12		
--	-------	--	--

35+10			
-------	--	--	--

	34+86		
--	-------	--	--

34+84			
-------	--	--	--

	34+61 $\frac{1}{2}$		
--	---------------------	--	--

34+58 $\frac{1}{2}$			
---------------------	--	--	--

	34+87		
--	-------	--	--

34+85			
-------	--	--	--

	34+102		
--	--------	--	--

34+85 $\frac{1}{2}$			
---------------------	--	--	--

	33+86 $\frac{1}{2}$		
--	---------------------	--	--

33+84 $\frac{1}{2}$			
---------------------	--	--	--

	35+61 $\frac{1}{2}$		
--	---------------------	--	--

8+9 2 for 2 sheet in East
 8+9 2 for 2 sheet in West

38+13 over

37+68

37+64

37+38

37+35

37+15

36+87 $\frac{1}{2}$

36+85 $\frac{1}{2}$

36+63 $\frac{1}{2}$

24th sheet running North

W	E	W	E
40+92	40+94	over	
40+67 $\frac{1}{2}$	40+69 $\frac{1}{2}$		
40+42	40+44		
40+19	40+18		
39+91 $\frac{1}{2}$	39+93 $\frac{1}{2}$		
39+91 $\frac{1}{2}$			
39+91	39+48	8+6 of East	
	8+6	of for sheet West	
South end of R 21			
38+14	38+14		
38+87	38+89		
38+61	38+63		
38+37	38+39		

24[#] sheet running North

W	E	W	E
43+29	43+29	43+29	43+29
43+11 $\frac{1}{2}$	43+11 $\frac{1}{2}$	43+11 $\frac{1}{2}$	43+11 $\frac{1}{2}$
42+99	42+99	42+99	42+99
South line of M ⁻			
42+94	42+94	42+94	42+94
42+68	42+68	42+68	42+68
42+66	42+66	42+66	42+66
42+48	42+48	42+48	42+48
42+41	42+41	42+41	42+41
42+18 $\frac{1}{2}$	42+18 $\frac{1}{2}$	42+18 $\frac{1}{2}$	42+18 $\frac{1}{2}$
42+15 $\frac{1}{2}$	42+15 $\frac{1}{2}$	42+15 $\frac{1}{2}$	42+15 $\frac{1}{2}$
41+93 $\frac{1}{2}$	41+93 $\frac{1}{2}$	41+93 $\frac{1}{2}$	41+93 $\frac{1}{2}$
41+91 $\frac{1}{2}$	41+91 $\frac{1}{2}$	41+91 $\frac{1}{2}$	41+91 $\frac{1}{2}$
41+69	41+69	41+69	41+69
41+67	41+67	41+67	41+67
41+44 $\frac{1}{2}$	41+44 $\frac{1}{2}$	41+44 $\frac{1}{2}$	41+44 $\frac{1}{2}$
41+42 $\frac{1}{2}$	41+42 $\frac{1}{2}$	41+42 $\frac{1}{2}$	41+42 $\frac{1}{2}$
41+18 $\frac{1}{2}$	41+18 $\frac{1}{2}$	41+18 $\frac{1}{2}$	41+18 $\frac{1}{2}$
41+15 $\frac{1}{2}$	41+15 $\frac{1}{2}$	41+15 $\frac{1}{2}$	41+15 $\frac{1}{2}$

43+29 6^m by running East of M⁻43+11 $\frac{1}{2}$ 6^m by running W for J M⁻42+99 recense 8 to 6^m

45+17	44+99 $\frac{1}{2}$
44+97 $\frac{1}{2}$	44+78 $\frac{1}{2}$
44+77 $\frac{1}{2}$	44+49
44+47	44+22
44+20	43+99 $\frac{1}{2}$
43+97 $\frac{1}{2}$	43+95
43+73	

45+17 6^m by for alley center of Block East44+99 $\frac{1}{2}$ 44+97 $\frac{1}{2}$ 44+78 $\frac{1}{2}$ 44+77 $\frac{1}{2}$

44+49

44+47

44+22

44+20

43+99 $\frac{1}{2}$ 43+97 $\frac{1}{2}$

43+95

43+73

24th Street North from N Street

West	East	W	E
	47+99		
47+97			
	47+54		
47+52			
47+08	Cm by East for J st		
South side of J street			49+28
	46+74	49+29	
	46+49		49+03
46+47		49+01	
	46+24	48+98 = Cm by	
46+22			48+78
	45+99½	48+99	
45+97½			48+54
	45+74½	48+52	
45+72½			48+29
	45+49	48+27	
45+47			48+4½
	45+23½	48+02½	
45+21½			

apex

for Alley East

24th Street North

of N Street

W	E	#	West	East
---	---	---	------	------

52+96

52+84

over

52+01

52+09

51+86

51+84

51+92 1/2 North line H street

51+50 1/2

50+94 1/2 line of for H street

swing East

South line H Street	53+62 over
---------------------	------------

53+62 over

50+62 Iron

53+60

53+37 1/2

50+28

53+35 1/2

53+11 1/2

50+26

50+04

53+9 1/2

53+01 line of

for Alley East

50+02

49+99

52+87

49+97

52+85

49+53

52+62 1/2

49+51

52+50 1/2

24th Street North of N Street

W	E	W	E
	56x29		58x29
56x27		58x29	
	56x04		58x05
55x02		58x08	
	55x79		57x80
55x77		57x78	
	55x53 $\frac{1}{2}$		57x54
55x59 $\frac{1}{2}$		57x52	

54x93 6 in of for S street

- using East

		57x29	
South line of S street		57x4 $\frac{1}{2}$	
54x75 Parkeel		57x02 $\frac{1}{2}$	

	54x38		
54x36		55x82 9 in of	
	54x12	55x79	
54x10		55x77	
	53x87 $\frac{1}{2}$	55x54	
53x85 $\frac{1}{2}$		55x52	

for Alley East bet S + F street

24th Street North of

N Street

W E W

over

60x68 6^m by for Alley running East

60x59

60x57

60x34½

60x22½

60x10

60x08

59x84

59x82

59x60

59x58

59x35 North side of F Street

59x33

58x72½ 4^m by for F Street running East

58x58½ 1½ North south line F Street

24th sheet among North

90

E

63+14 $\frac{1}{2}$

63+12 $\frac{1}{2}$

62+53 6 in g for E street

among East

1st North of South line
of E street

62+36 6 in g

62+69

62+67

64+42 6 in g for Ales East

61+84 $\frac{1}{2}$

64+40

61+82 $\frac{1}{2}$

64+38

61+60

64+14 000

61+58

64+12

61+56 $\frac{1}{2}$

63+90

61+52

63+88

61+09

63+65

61+07

63+63

60+85

63+39

60+83

63+37

24th street running North

W	E	W	E
	67+20		
67+18			
66+93	66+95	North line of D street	
66+83		Com of for D street running	
South line D street			
66+15		68+70	over
65+90	68+68		
65+88		68+45 1/2	
65+65 1/2	68+43 1/2		
65+63 1/2	68+23 1/2	Com of for Alley running East	
65+39		68+19 1/2	
65+37	68+17 1/2		
65+15		67+95	
65+13	67+93		
64+90 1/2		67+70 1/2	
64+88 1/2	67+58 1/2		
64+65		67+42 1/2	
64+43	67+42 1/2		

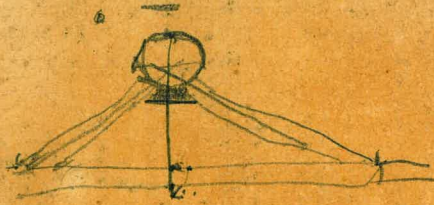
East

24th Street running North

W W E

	71+49		
67-71+49		73+50	End of pitch on 24 th street
	71+23		73+44
66-71+21		73+42	
66	70+96 $\frac{1}{2}$		73+24
	70+96 $\frac{1}{2}$	73+22	
	70+93 $\frac{1}{2}$		72+98
30-70+91 $\frac{1}{2}$		72+99	
6-70+18	6m of running East for 6m		
65	one foot south of line south side of street	72+93 $\frac{1}{2}$	
65	69+94	72+50	
	69+69	72+48	
65-69+69		72+28 $\frac{1}{2}$	
	69+44 $\frac{1}{2}$	72+21 $\frac{1}{2}$	
65-69+22 $\frac{1}{2}$		72+63	6m of for
	69+20		71+99 $\frac{1}{2}$
64-69+18		71+97 $\frac{1}{2}$	
	68+93 $\frac{1}{2}$		71+78 $\frac{1}{2}$
64-68+93 $\frac{1}{2}$		71+71 $\frac{1}{2}$	

alley running East



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	84
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	83
2	99.94	3.49	99.92	3.98	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	81
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	80
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	79
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	78
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	77
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	76
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	75
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	74
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	73
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	71
14	97.08	24.19	96.92	24.62	96.81	25.04	96.70	25.46	70
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	69
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	68
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.19	67
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	66
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	65
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	64
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	63
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	61
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	60
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	59
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	58
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	57
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	56
29	87.46	48.48	87.28	48.86	87.04	49.24	86.82	49.62	55
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	54
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	53
32	84.80	52.99	84.57	53.35	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	51
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	50
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	49
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	48
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	47
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	46
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	45
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	44
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	43
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	41
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	40
45	70.71	70.71							39

Published by Edward Denny & Co., Stationers, Drawing Materials,
Mathematical Instruments, Etc., San Francisco.