

City School
Levee
13th Sts

9⁵⁰

TRANSIT

50

50

2

F.B. 682

682

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

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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

Est. W. Miller

H.C.L. }
 F. Miller. } July 30, 1887

Δ	+	H.I.	—	Elev.	B.B.
BM.	168	7.04		5.36	
0+50			5.24	1.80	
1			6.84	0.20	
1+50			6.58	0.46	
2			7.58	-0.54	
2+50			6.42	1.62	
3			5.71	1.33	
3+50			5.44	1.60	
4			5.82	1.22	
4+50			6.19	0.85	
5			6.46	0.58	
5+50			5.36	1.68	
6			4.67	2.37	
6+50			4.29	2.75	
7			3.77	3.27	
7+50			3.40	3.64	
T.P.			6.02	7.02	
T.P.	5.49	12.51			
BM.			0.25	12.26	12.26
8			7.13	5.38	
1			7.20	5.31	

REMARKS.
 N & 13th 5th

M & 13th 5th

L & 13th 5th

H.C.L. }
 F. Miller } July 30, 1887

2

Δ	+	H.I.	-	Elev	B.B.	REMARKS.
1+50		1251	7.11	5.40		
2			6.22	6.24		
2+50			5.53	6.98		
3			5.11	7.40		
3+50			4.29	8.22		
4			1.86	10.65		
4+50			0.34	12.17		
5			0.78	11.73		
B.M.			0.25	12.26	12.25	
T.P.	11.85	2411				
5+50			10.73	13.68		
6			7.82	16.24		
6+50			4.37	19.74		
T.P.			0.45	23.66		
T.P.	11.17	3483				
7			8.80	26.03		
7+50			4.20	30.63		
B.M.			0.45	34.38	34.38	
T.P.	11.83	46.21				
8			10.80	35.41		
8+50			8.40	37.81		

K & T 3th 5/5.

T & T 3th 5/5.

H.C.L. }
 F. Miller } July 30, 1887

3

Δ	+	H.I.	-	Elev B.B.	REMARKS.
9		46.21	6.90	39.31	
9+50			5.77	40.44	
10			4.97	41.24	
10+50			4.01	42.20	
11			3.07	43.20	
11+50			1.89	44.32	
12			1.40	44.81	
12+50			0.89	45.32	
13			5.06	41.15	
13+50			4.07	42.20	
14			1.86	44.35	
14+50			0.00	46.21	
I.P.	1032	5673			
15			8.68	48.05	
15+50			8.05	48.68	
B.M.			6.85	49.88	49.88
16			7.07	49.66	
16+50			6.37	50.36	
17			5.46	51.07	
17+50			5.31	51.42	
18			4.44	52.29	

II & IIIth 5/5.

II & IIIth 5/5.

H.C.I. } July 30, 1887
 F.M. Mer.

Δ	+	HI	—	Elev	BB.	REMARKS.
18+50		56.73	4.77	51.96		
19			4.57	51.16		
19+50			3.92	52.81		G & 73 th Sts.
20			4.03	52.70		
20+50			3.99	52.74		
21			3.06	53.67		
21+50			1.33	55.40		
I.P.	9.70	65.70				
B.M.			6.27	58.83	58.82	
22			8.02	57.88		
22+50			5.64	58.46		I.P. & 73 th Sts.
23			4.82	60.28		
23+50			4.16	60.94		
24			3.05	62.05		
4			2.23	62.87		
3+50			3.53	61.57		
3			3.35	61.75		
2+50			3.33	61.77		
2			3.33	61.77		
1+50			4.99	60.11		
1			5.15	59.95		

H.C.L.
E. Miller

July 30, 1887

5

Δ	+	H.I.	-	Elev	B.B.	REMARKS
T.P.	160	61.65				
0			2.60	59.05		T ₁ & T ₂ to 5/5.
1			2.68	58.97		
1+50			3.39	58.26		
2			4.74	56.91		
2+50			5.90	55.75		
3			6.06	55.59		
3+50			6.26	55.39		
4			5.40	55.26		T ₁ & T ₂ to 5/5.
B.M.			0.39	61.26	61.24	
4+50			4.84	57.81		
5			5.39	56.26		
5+50			5.27	56.38		
6			5.00	56.65		
6+50			3.19	58.46		
7			0.09	61.56		C & T ₂ to 5/5.
T.P.	11.99	72.55				
7+50			9.12	64.43		
8			8.90	65.65		
8+50			5.78	67.77		
9			3.58	69.97		

H.C.T. }
 F. Miller } July 30, 1887

Δ	+	H.I.	-	Filed B.B.
9+50		73.55	1.05	72.50
T.P.	11.99	84.49		
10			9.41	75.08
10+50			7.16	77.33
11			5.08	79.41
11+50			1.72	82.77
T.P.	11.72	94.49		
12			7.22	87.27
12+50			2.40	92.09
T.P.			0.24	94.25
T.P.	11.68	105.93		
13			10.06	95.87
13+50			4.92	101.07
14			6.66	105.37
T.P.	11.79	117.16		
14+50			6.88	110.28
15			2.09	115.87
15+50			0.02	117.14
T.P.			0.75	116.41
T.P.	6.00	122.41		
B.M.			1.08	121.33
				121.33

REMARKS.

B & T3th 5/5.

O.K. 25/5/10.

A & T3th 5/5.

9 + 16th Bridge

7

Sta	+	A.S.	-	Elev.
B.W.	5.68	54.95		49.27
T.P.	3.42	46.95	11.42	43.53
N.			4.71	42.24 40.32
C.			5.11	41.84 40.84
S.			4.78	42.17 40.92

9 + 16th B.W.

Sta	+	A.S.	-	Elev.
B.W.	6.16	55.43		49.27
T.P.	9.13	63.15	1.41	54.02
B.W.			2.42	60.73 60.69
T.P.	9.80	72.78	0.17	62.95
B.M.			1.24	71.54 71.50
T.P.	11.53	84.21	0.10	72.68
T.P.	11.74	95.59	0.36	83.85
T.P.	10.98	106.44	0.13	95.46
T.P.	10.30	116.74	0.80	106.44
B.W.			6.70	110.04
B.W.			11.58	105.16 105.18

S.E. of post. 16 + D.

S.E. of post. 16 + E.

S.E. of post. 16 + B.

S.W. of monument. 16 + A.

Interp. 15 + B.

13th St.

8

Str.	+	H.D.	-	Eleo.	P.B.	
B.W.	2.11	10.06		7.95		L 13
T.P.	5.67	13.61	2.12	7.94		
B.W.	9.97	22.35	1.23	12.38		H 13
T.P.	11.59	33.78	0.16	22.19		
T.P.	5.09	37.47	1.40	32.38		
B.W.	10.39	44.81	3.05	34.42	34.38	Sp 6" J 13
B.W.			9.58	35.23		Sp post J 13
T.P.	6.75	47.76	3.80	41.01		
B.W.	5.56	50.81	2.51	45.25	45.25	J 13
B.W.	4.27	54.09	0.99	49.82	49.88	H 13
B.W.	6.65	56.47	3.99	50.10	50.10	H 12
B.W.	9.17	62.21	3.43	53.04		J 13 Sp Eleo prob.
T.P.	6.66	66.02	2.85	59.36		
B.W.	3.77	65.52	4.27	61.75		F 13
B.W.			6.62	58.90	58.80	F 12

15th B.W.

9

Sta	+	A.D.	-	Eleo.	B.B.
-----	---	------	---	-------	------

B.W.	3.04	43.68	2.85	40.64	40.64
B.W.	7.14	47.97		40.83	40.83
T.P.	11.69	58.88	0.78	47.19	
T.P.	10.53	68.71	0.70	58.18	
B.W.			6.45	62.26	62.27
T.P.	10.19	78.08	0.82	67.89	
B.W.			0.38	77.70	

F 715 Sp cor S.E.

St 15 Sp Cor S.W.

157 D.

69.15

14th

Sta	+	H.O.	-	Elev.
P.W.	2.30	13.53		11.23
B.W.	8.05	13.96	7.62	5.91
T.P.	7.85	18.36	3.45	10.51
B.W.	6.62	21.92	3.06	15.30
B.W.	6.80	28.36	0.36	21.56
T.P.	11.55	39.08	0.83	27.53
B.W.			2.23	36.85
P.W.	8.22	42.63		34.41
T.P.	8.96	50.95	0.64	41.99
B.W.	6.26	54.16	3.05	47.90
B.W.	7.05	55.58	5.63	48.53
B.W.	1.34	56.37	0.55	55.03
T.P.	11.02	64.32	3.07	53.30
T.P.	11.53	75.09	0.76	63.56
B.W.			2.43	72.66
T.P.	11.86	86.15	0.80	74.29
T.P.	11.83	96.75	1.23	84.92
T.P.	11.85	108.30	0.30	96.45
B.W.	11.96	120.06	0.20	108.10
T.P.	11.76	131.75	0.07	119.99
T.P.	9.19	140.42	0.52	131.23

1572. S.W. Sp
14 + L. Sp R. R. bridge.

14 + K. loop base.
14 J. Sp top bridge b.W.

W. G. Ch. base road. J + 14th
loop bridge 1576.

W. E. Sp post G + 14
S. E. loop Rail. 14 + F.
W. W. loop Rail. 14 + E.

B + 14 Sp post N.W.

loop S.W. 14 + B.

14. 14

Sto	+	A.S.	-	Elev.
B.W.		140.42	1.54	138.88
T.P.	0.62	129.51	11.53	128.89
T.P.	0.25	118.28	11.48	118.03
T.P.	3.14	110.81	10.61	107.67
B.W.	0.04	105.34	5.50	105.31
T.P.	1.50	94.97	11.87	93.47
B.W.			5.53	89.44

21. 21

B.W.	6.23	124.43		118.20
B.W.	4.55	117.51	11.47	112.96
B.W.	6.47	120.47	3.51	114.00
B.W.	3.77	123.70	0.54	119.93
B.W.	10.85	131.73	2.82	120.88
B.W.			4.51	127.22

140a Sp W6.

127a.

117a.

Sp tel B+21

Sp dump hole C+21

Sp brand. L+21. W6.

Sp part W6. E+21

Sp brand W6. F+21

Sp part S.E. S+22

Level for Water Co. 4/20/11.

Sta 4 N.O. — Elev.

B.M.	5.85	200.91		195.06
			3.03	197.88
				17.
				180.88

Hawthorn 5"

B.M.	11.95	153.99		142.04
T.P.	10.69	164.68	amp	153.99
T.P.	5.66	169.43	0.91	163.77
			6.06	163.87

Bit Reservoir.
Date 76"

19th St.

Sta	+	H.S.	-	Elev.	B.B.
B.W.	0.10	63.60		63.50	
T.P.	7.33	70.33	0.60	63.00	
B.W.			6.28	64.05	64.11
B.W.	4.30	73.30	1.33	69.00	
B.W.	3.61	74.71	2.20	71.10	71.11
B.W.	0.64	74.36	0.99	73.72	
T.P.	0.20	62.76	11.80	62.56	
B.W.	5.15	61.63	6.28	56.48	
B.W.	5.55	59.55	7.63	54.00	
B.W.	3.28	55.34	7.49	52.06	
B.W.	2.02	55.18	2.18	53.16	
B.W.	11.03	59.78	6.43	48.75	
T.P.	8.18	63.95	4.01	55.77	
B.W.			0.42	63.53	

19+7W. Cap. N.E.

19+L. Cap. S.E.

19+K. S.E. Stone Wall.

19+J. W. Cap.

19+D. S.E. Cap.

18+D. S.E. Cap.

18+J. S.W. W.

18+K. S.W.

18+L. Cap. W.W.

18+W. Cap. N.W.

19+W. Cap. N.E.

Alley bet 1374, C & D.

Sta	H.	H. S.	—	Elev.
B.M.	4.57	62.18		57.61
			5.23	56.95
			6.67	55.51
			8.66	53.52
			8.17	54.01
			7.60	54.58

Alley Bet 14 & 1374 by D. Sta.

P.M.	1.57	65.17		63.60
I			4.80	60.37 W.
			5.92	59.45
			5.43	59.74
			5.82	59.35
			4.43	60.74 End

13th St.

Ho	#	H.S.	-	Elem.
B.M.	3.20	64.54		61.24
B.M.	9.81	73.41	0.94	63.60
T.P.	11.55	84.71	0.25	73.16
T.P.	11.49	95.98	0.22	84.49
B.M.			3.10	92.88
T.P.	12.00	107.76	0.22	95.76
T.P.	9.25	116.89	0.12	107.64
B.M.			0.95	115.94
T.P.	3.47	111.78	8.58	108.31
B.M.			6.48	105.30

Q-13 Up post. S.W.

Q-13 Up post. N.E.

Q-13 B-13 E.

Q-13 A-13 St.

Q-13 N. 97 V

15th

Sta	+	N.D.	-	Elev.
B.W.	8.29	19.52		11.23
T.P.	7.00	23.82	2.70	16.82
B.W.	3.99	25.55	2.26	21.56
B.W.	3.70	18.72	0.53	25.02
T.P.	7.82	33.22	3.32	25.40
B.W.			2.98	30.24

15th Report.Camp S.W. 15th J. Sta- Deposit 15th J. StaReport N.W. 15th Hds

17th BWS

Sta	+	N.S.	-	Elev.
B.M.	3.20	41.83		38.63
B.M.	10.53	48.66	3.70	38.13
B.M.	11.56	59.40	0.82	47.84
T.P.	11.87	70.93	0.34	59.06
T.P.	11.83	82.51	0.25	70.68
B.M.	11.91	91.85	2.57	79.94
T.P.	11.69	103.25	0.29	91.56
B.M.	3.89	101.93	5.21	98.04
B.M.			8.68	93.25

N 76' Sp S.E.
 N 77' Sp W.W.
 S 77' Sp

Sp S.E. 5117"

Sp to W.E. E. 17.
 Sp Cor 195 D.

9th St

Sta	+	N.S.	-	Elev.
B.M.	8.65	138.84		130.19
B.M.	11.28	150.00	0.12	138.72
T.P.	11.84	161.32	0.52	149.48
B.M.	8.16	169.22	0.26	161.06
B.M.	3.05	166.49	5.78	163.44
T.P.	1.05	155.68	11.86	154.63
T.P.	7.11	152.15	10.64	145.04
B.M.			10.10	142.05

Sp. S.E. 8 + Ash

Sp. S.W. 8 + Bush

Sp. S.W. 8 + Cedar

Sp. plug. S.E. 8 + Date

D. pin 6 + Date

20th St. B. W.

Sta	+	N.2.	-	66-
B.M.	8.66	41.57		32.91
B.M.	11.47	50.27	2.77	38.80
T. P.	11.62	61.37	0.52	49.75
B.M.	11.67	72.34	0.70	60.67
T. P.	9.49	81.34	0.49	71.85
B.M.	11.92	86.40	6.86	74.48
B.M.	6.33	90.80	1.93	84.47
B.M.	10.97	99.30	2.47	88.33
T. P.	5.25	104.17	0.38	98.92
B.M.			1.12	103.05
B.M.	6.93	104.55	6.55	97.62
B.M.	11.54	111.51	4.58	99.97
B.M.	11.45	122.46	0.50	111.01
T. P.	9.28	131.66	0.08	122.38
B.M.			4.44	127.22
20 th Cont.				
B.M.	2.47	90.80		88.33
B.M.	1.64	90.14	2.30	88.50
B.M.	9.28	95.38	4.04	86.10
B.M.	11.35	103.60	3.13	92.25
B.M.	1.38	102.80	2.18	101.42

W19th Nail in plug.W20th Sp. N. W. D.

Sp. N. W. W. 20.

Sp. N. W. S. 20th

Hydrant S. W. H. 20

Sp. post. S. W. J. 20

Sp. S. E. 21 + D.

Sp. S. E. 21 + D.

Sp. S. W. 21 + H.

Sp. S. W. 21 + E.

Sp. S. E. 22 + E.

J. 20 Sp. S. W.

D. 20 fence S. E.

H. 20 Hydrant.

E. 20 Sp. S. W.

F. 20 Sp. N. W.

20th B.M.

Sta	+	H.S.	-	Elev.
B.M.		102.80	4.35	98.45
B.M.	0.05	98.50	5.29	93.21

19th St B.M.

Sta	+	H.S.	-	Elev.
B.M.	11.98	76.49		64.51
B.M.	7.19	82.38	1.30	75.19
B.M.	7.19	84.90	4.67	77.71
B.M.	10.36	93.80	1.46	83.44
B.M.			0.53	93.27

B.M.	0.57	86.67		86.10
T.P.	1.35	76.53	11.49	75.18
B.M.	11.40	78.09	9.82	66.69
B.M.	6.24	81.40	2.93	75.16
B.M.	7.34	85.02	3.72	77.68
B.M.	11.40	94.81	1.61	83.41
			1.56	93.25

Corp. W. W. Erso
 4th W. W. 19th D.

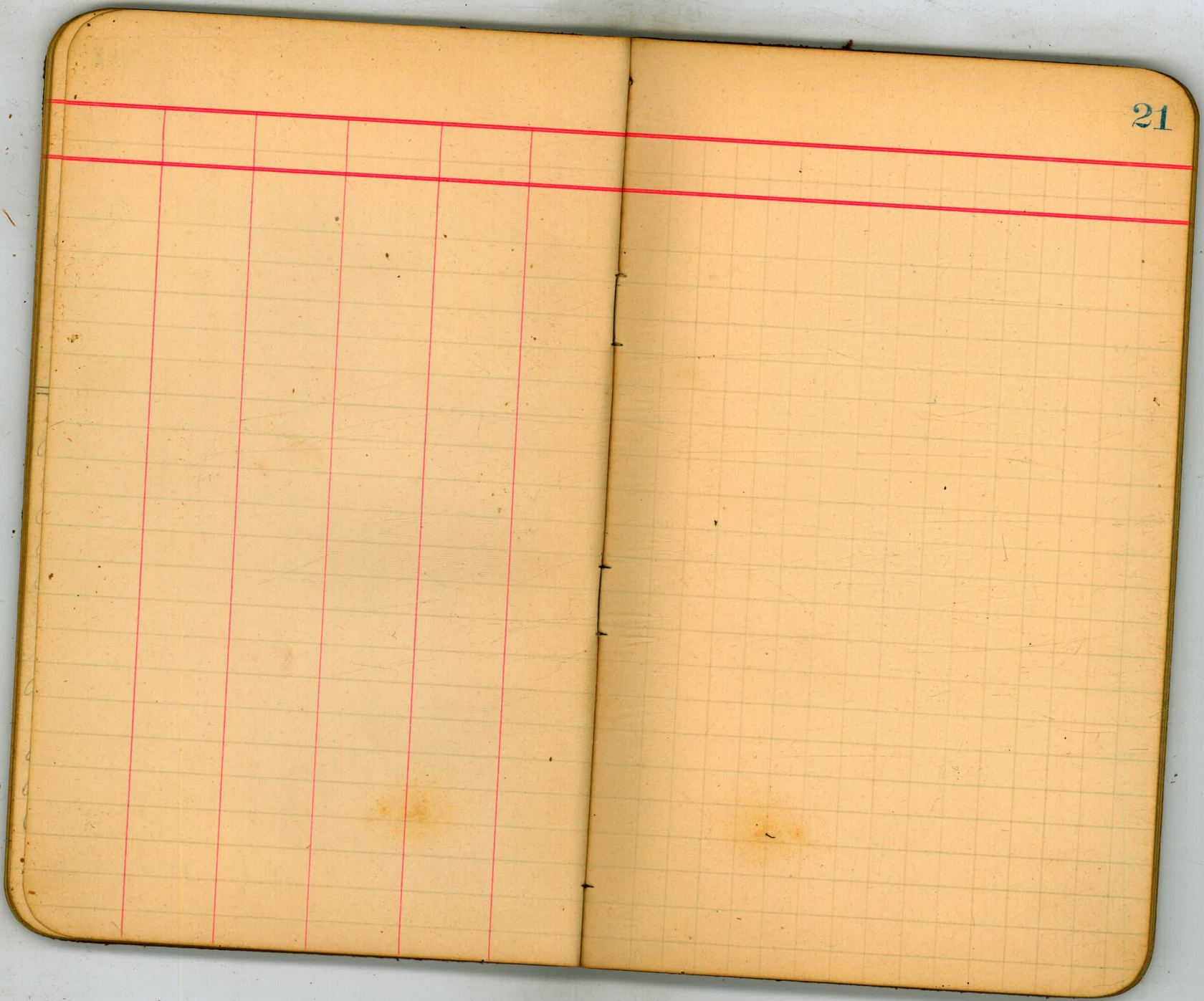
Spec 19th St.S.W. Monument. 19th St.S.W. 19th St.W.E. 6th plug. 19th St.S.W. 4th Co. 19th D.Hydrant. S.W. 20th St.S.W. 29th St.

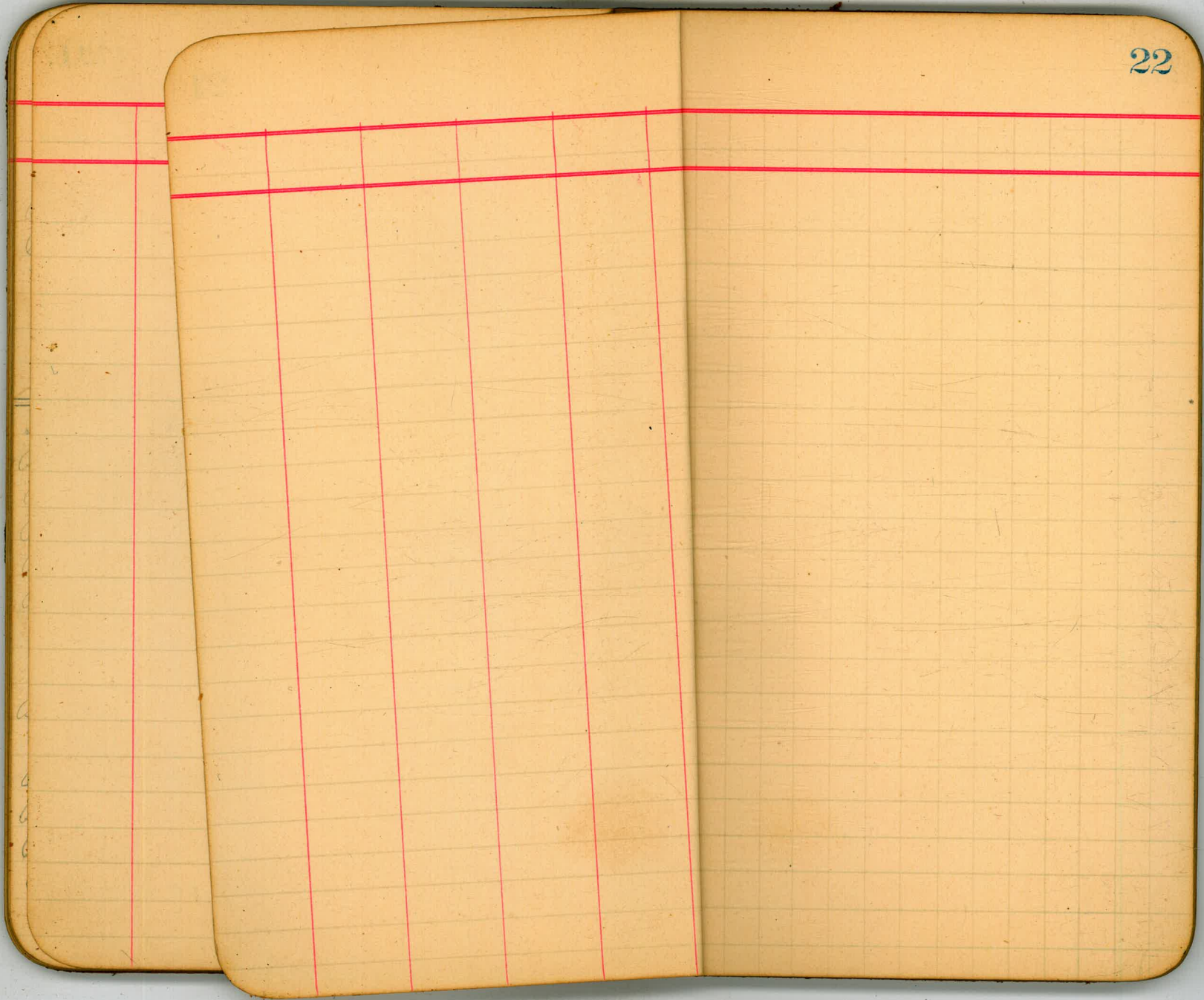
S.W. Monument.

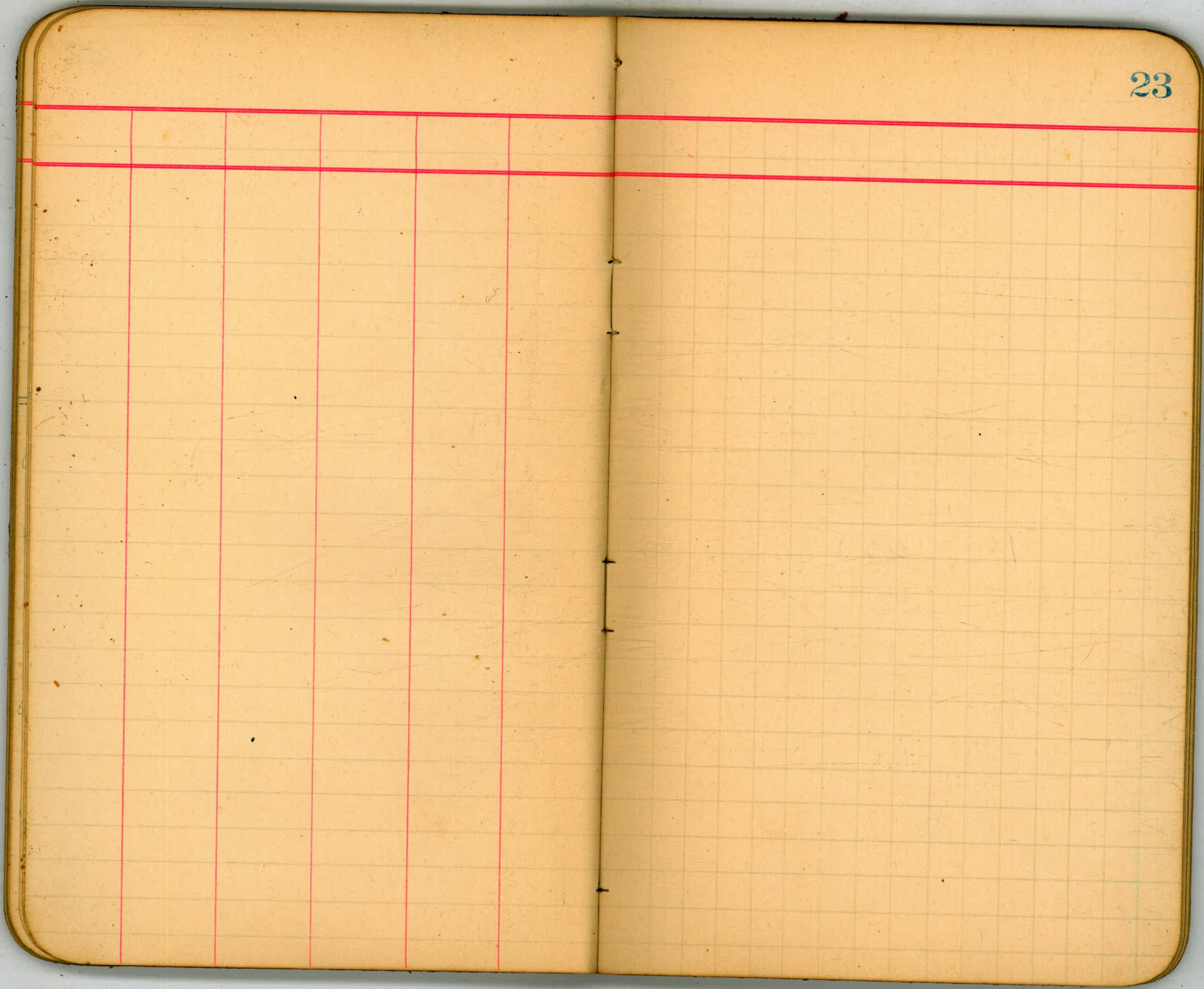
F

E

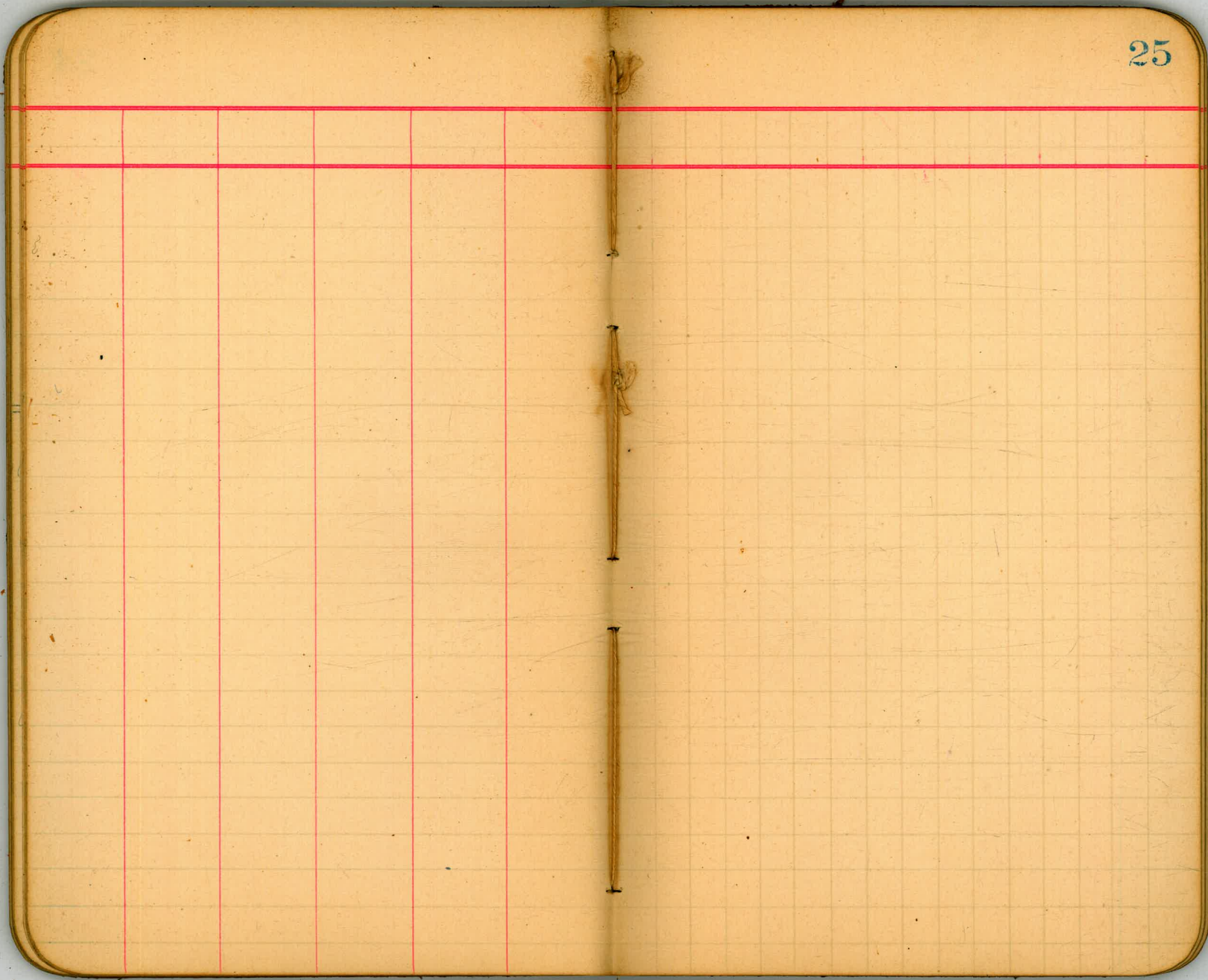
D

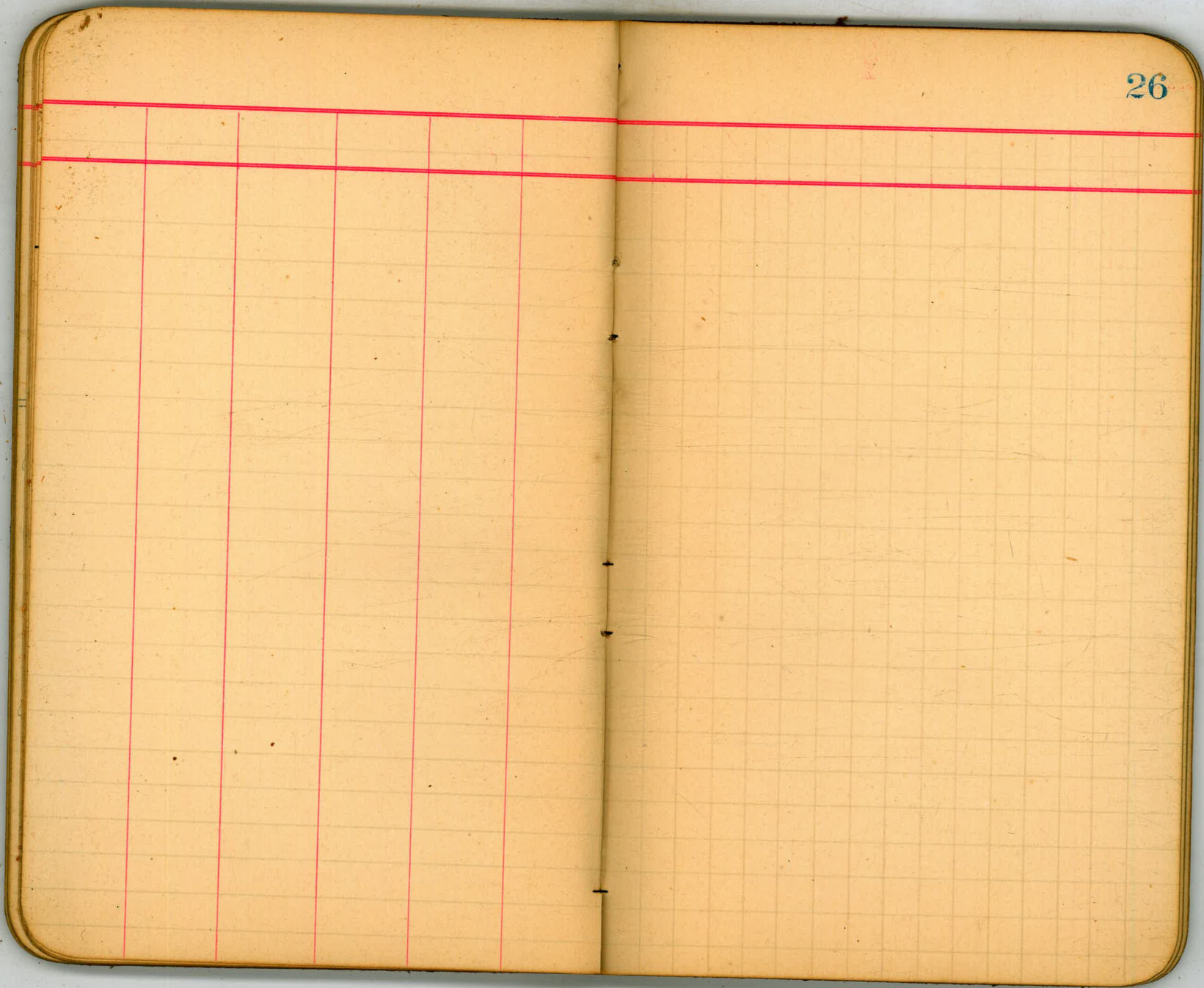




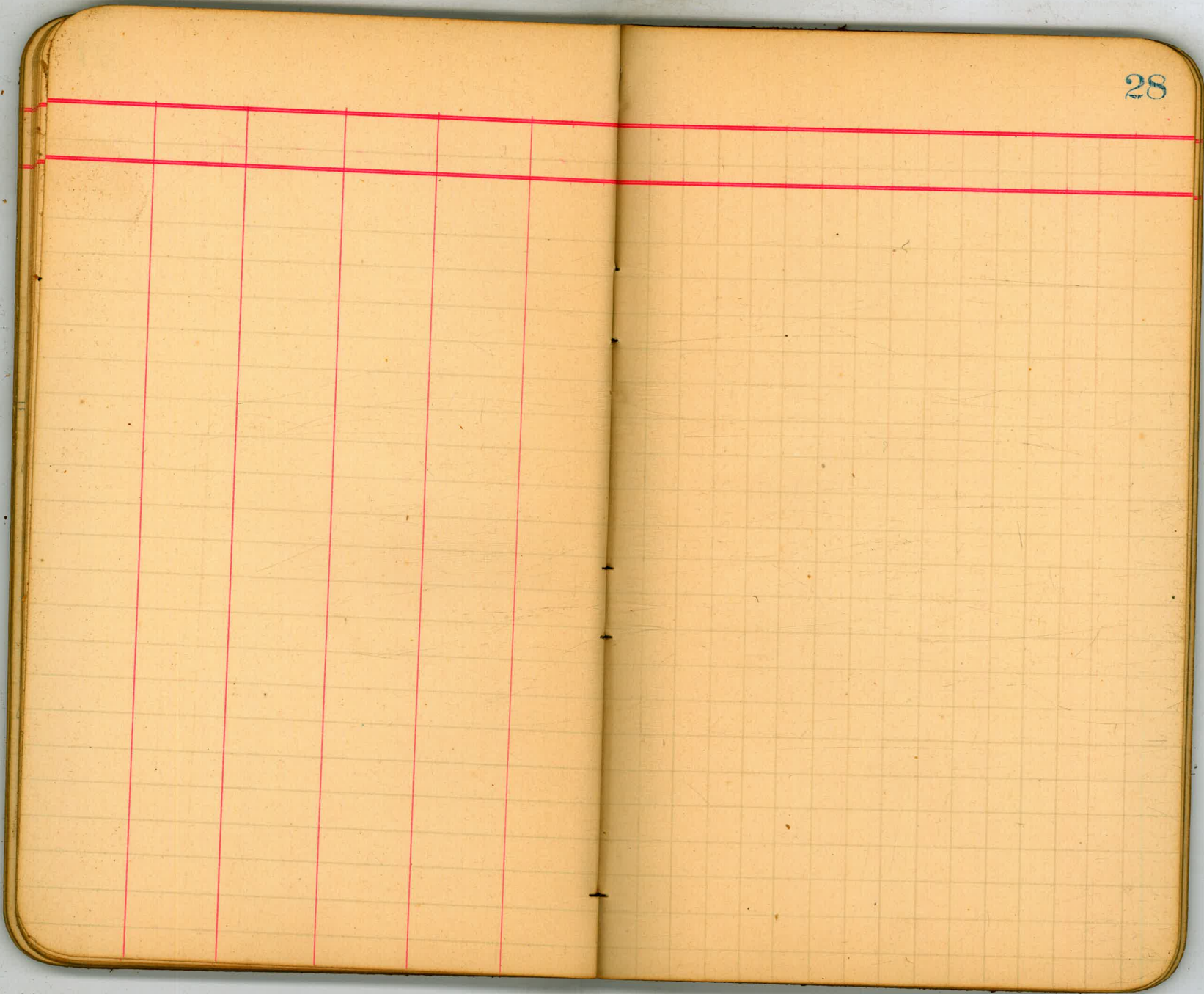


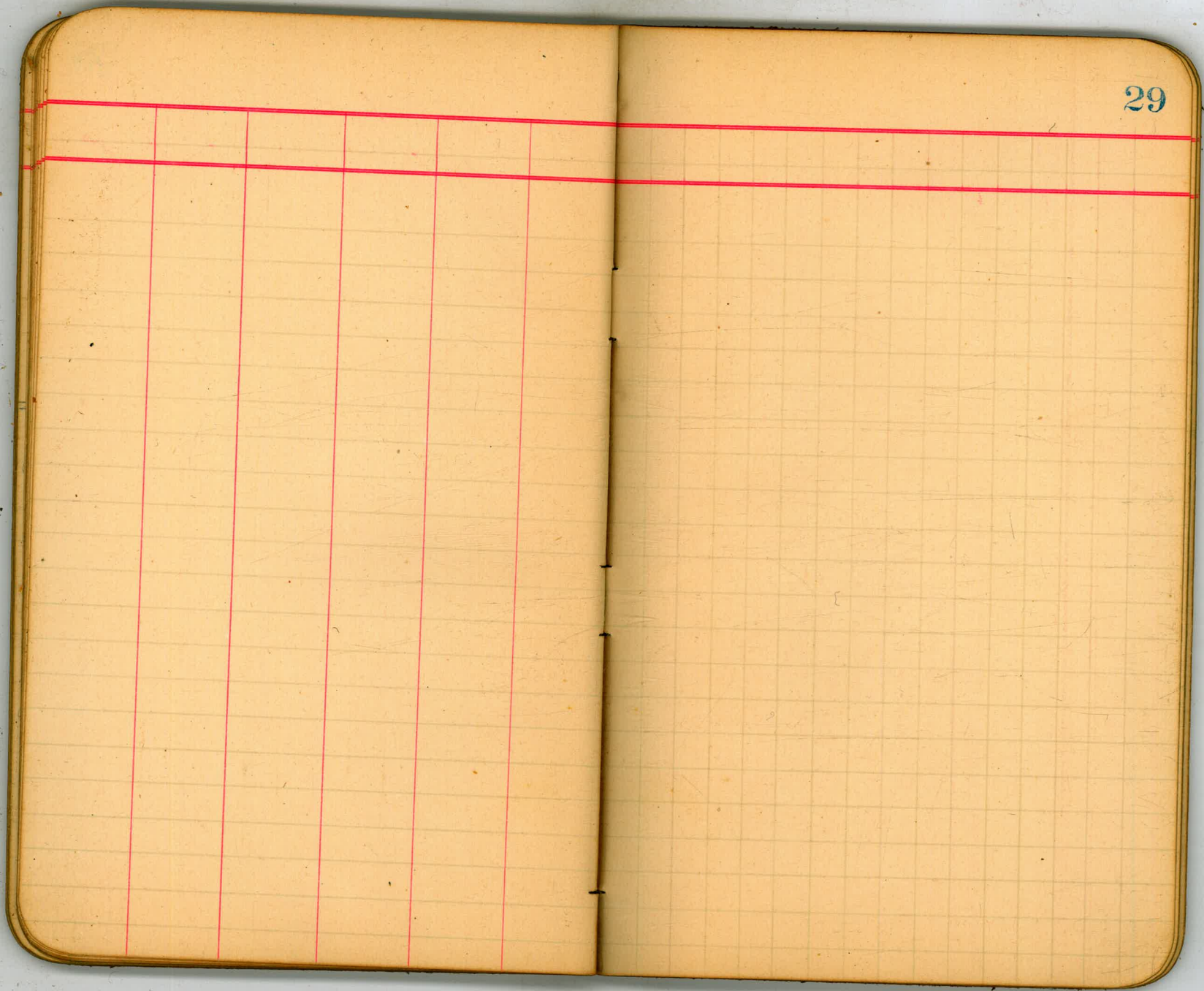
The image shows an open notebook with two pages. The pages are a light tan or yellowish color. The left page features a grid of light blue lines with four vertical red lines that divide the page into five columns. The right page is a standard grid of light blue lines. In the top right corner of the right page, the number '24' is printed in a dark blue or black font. The notebook is bound in the center, and the pages are slightly aged with some minor stains and discoloration.

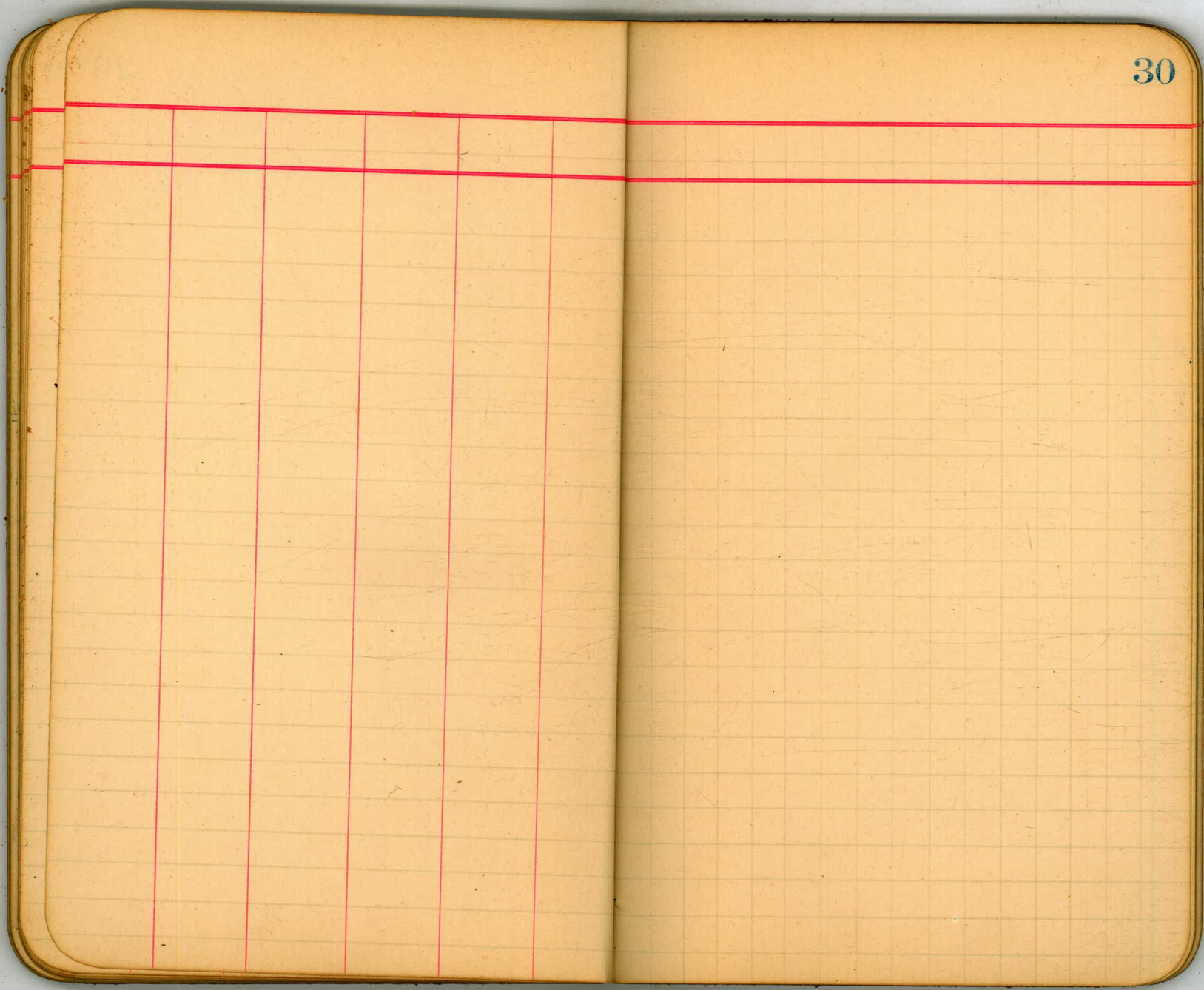




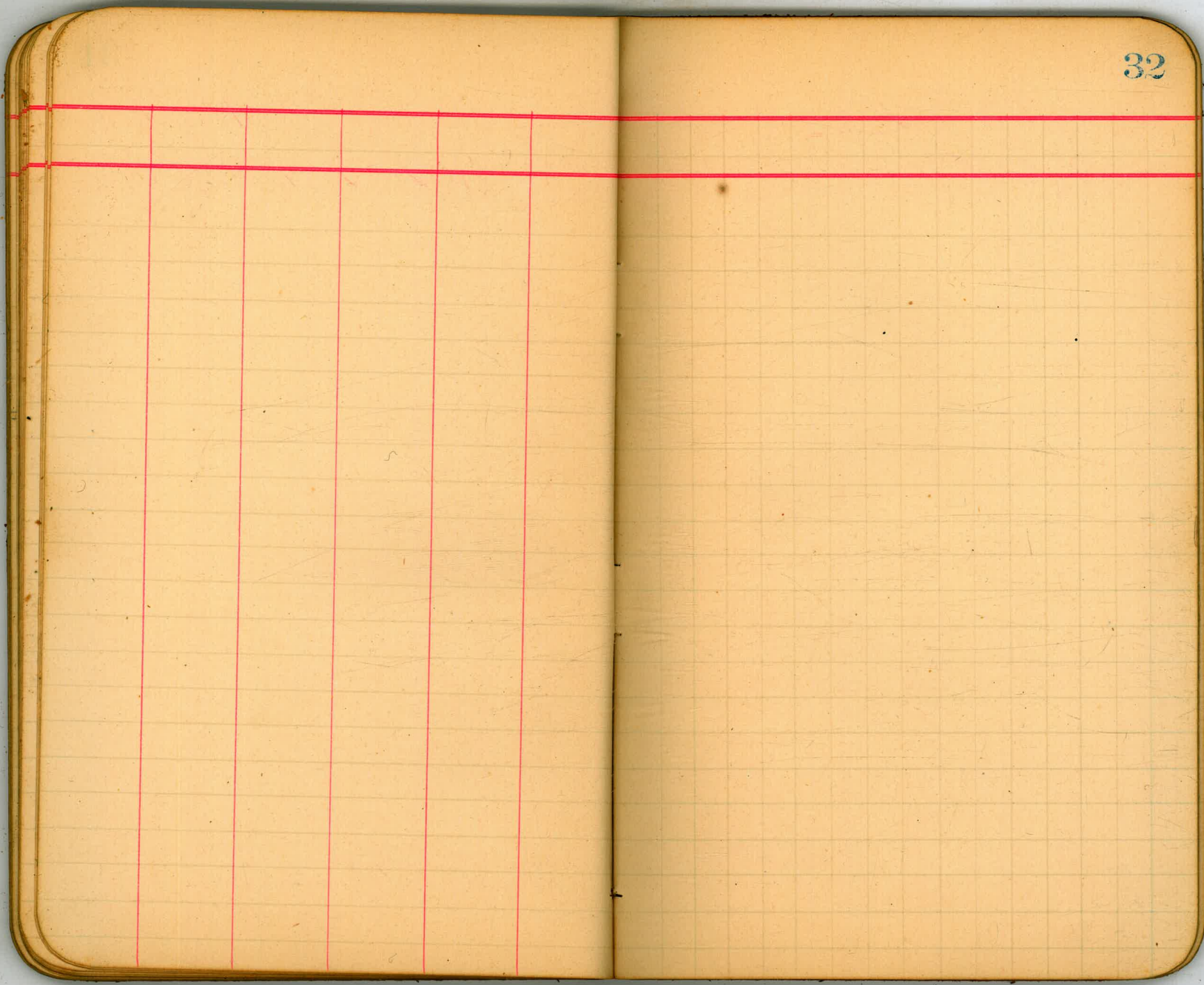


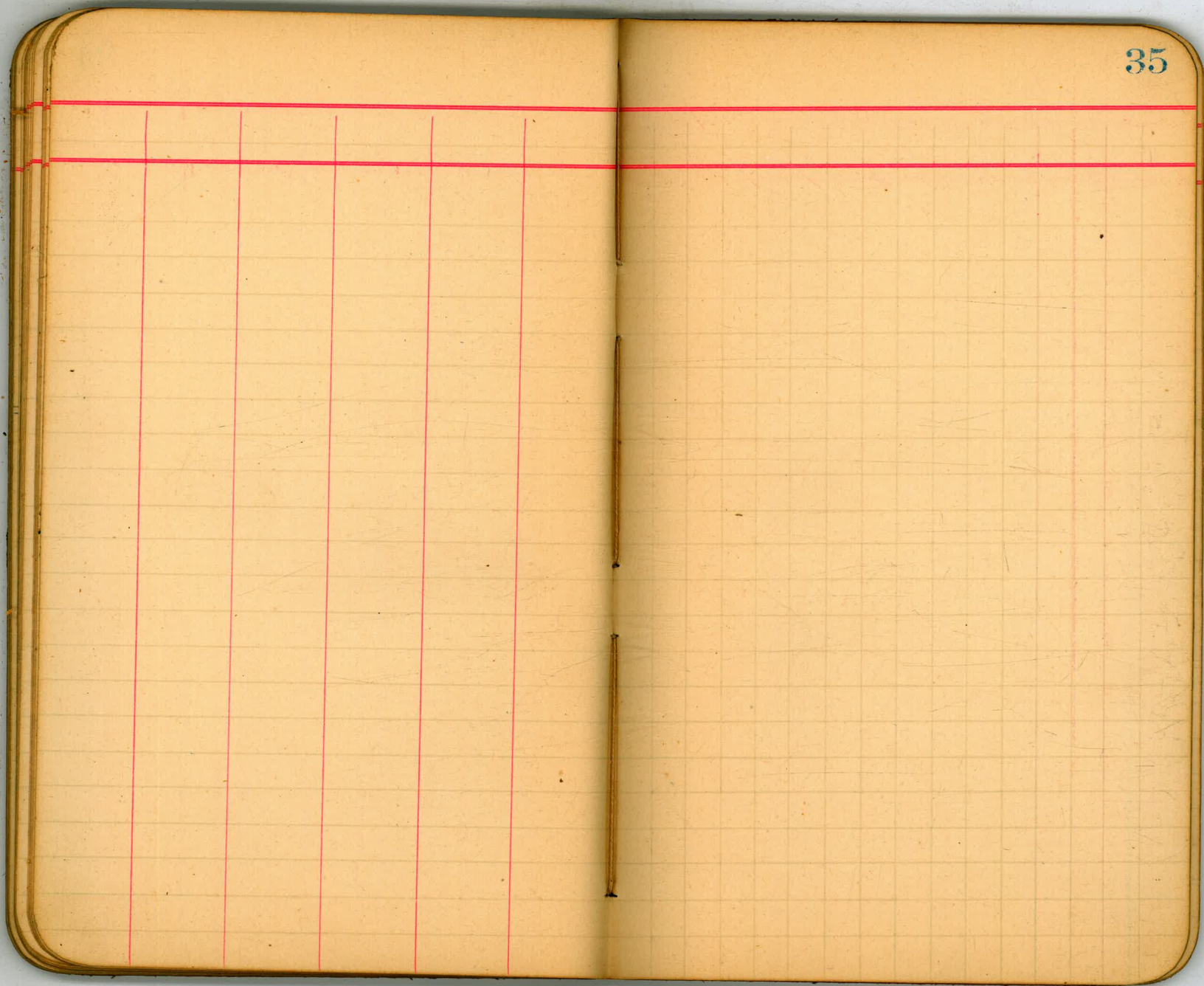




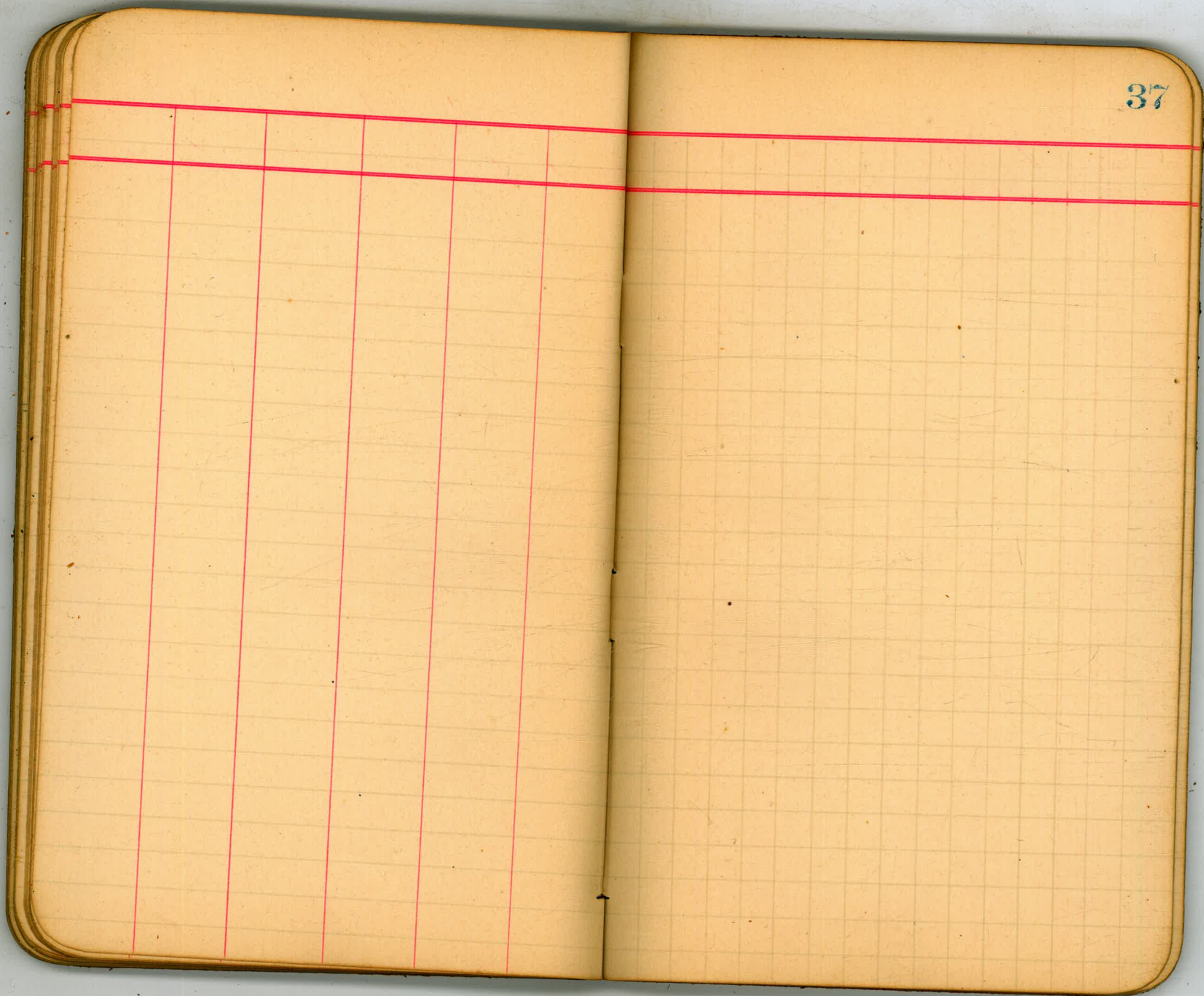


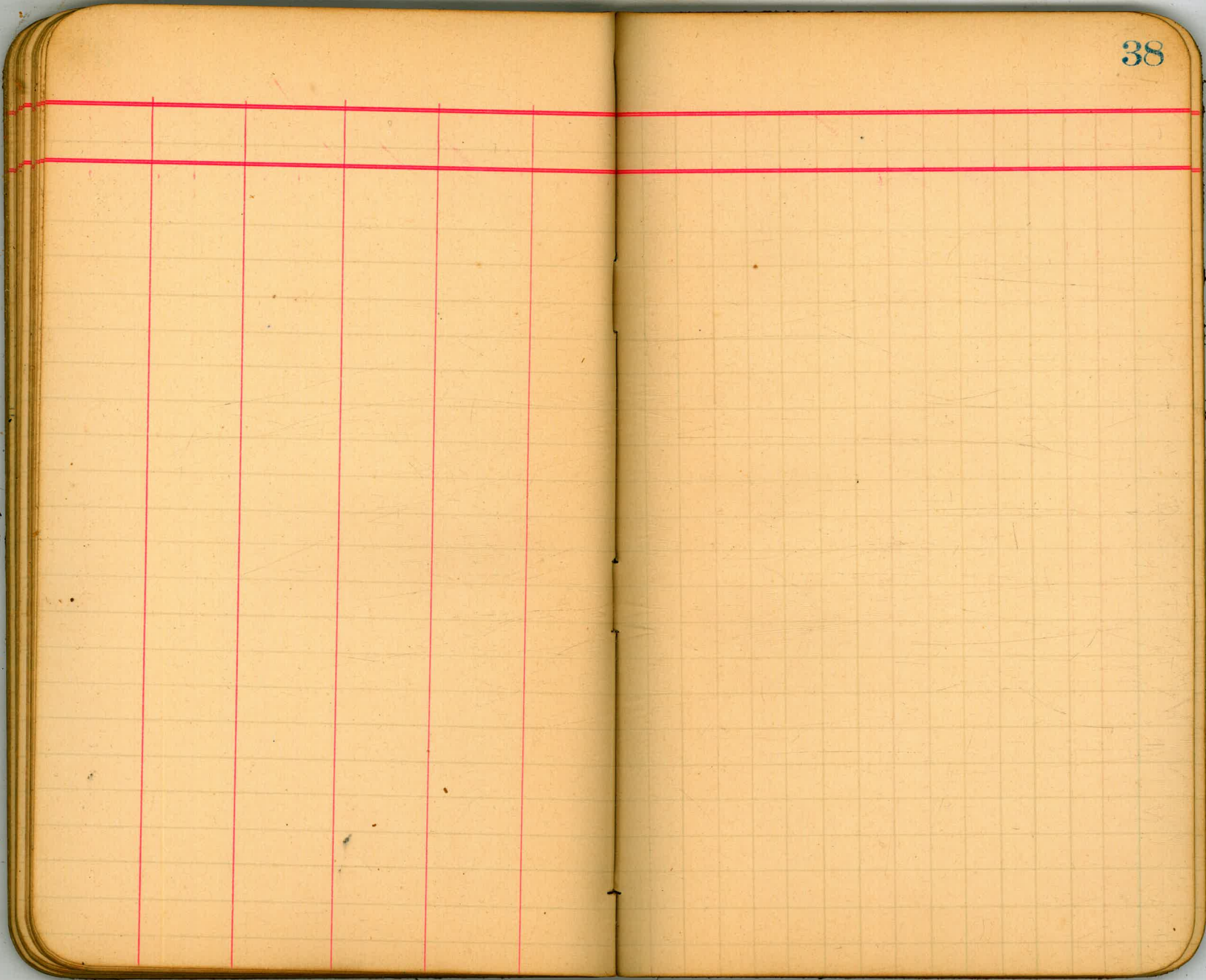


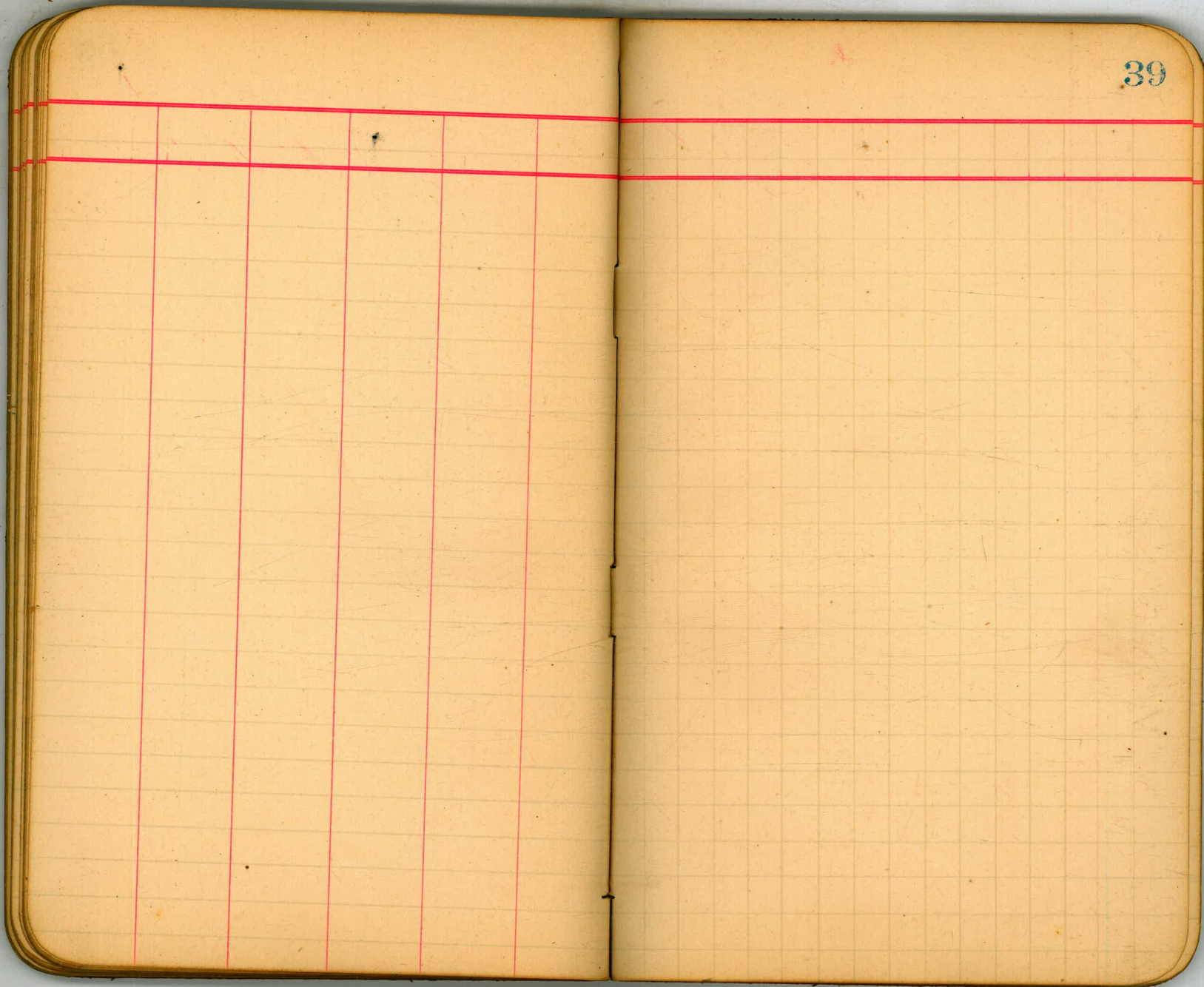


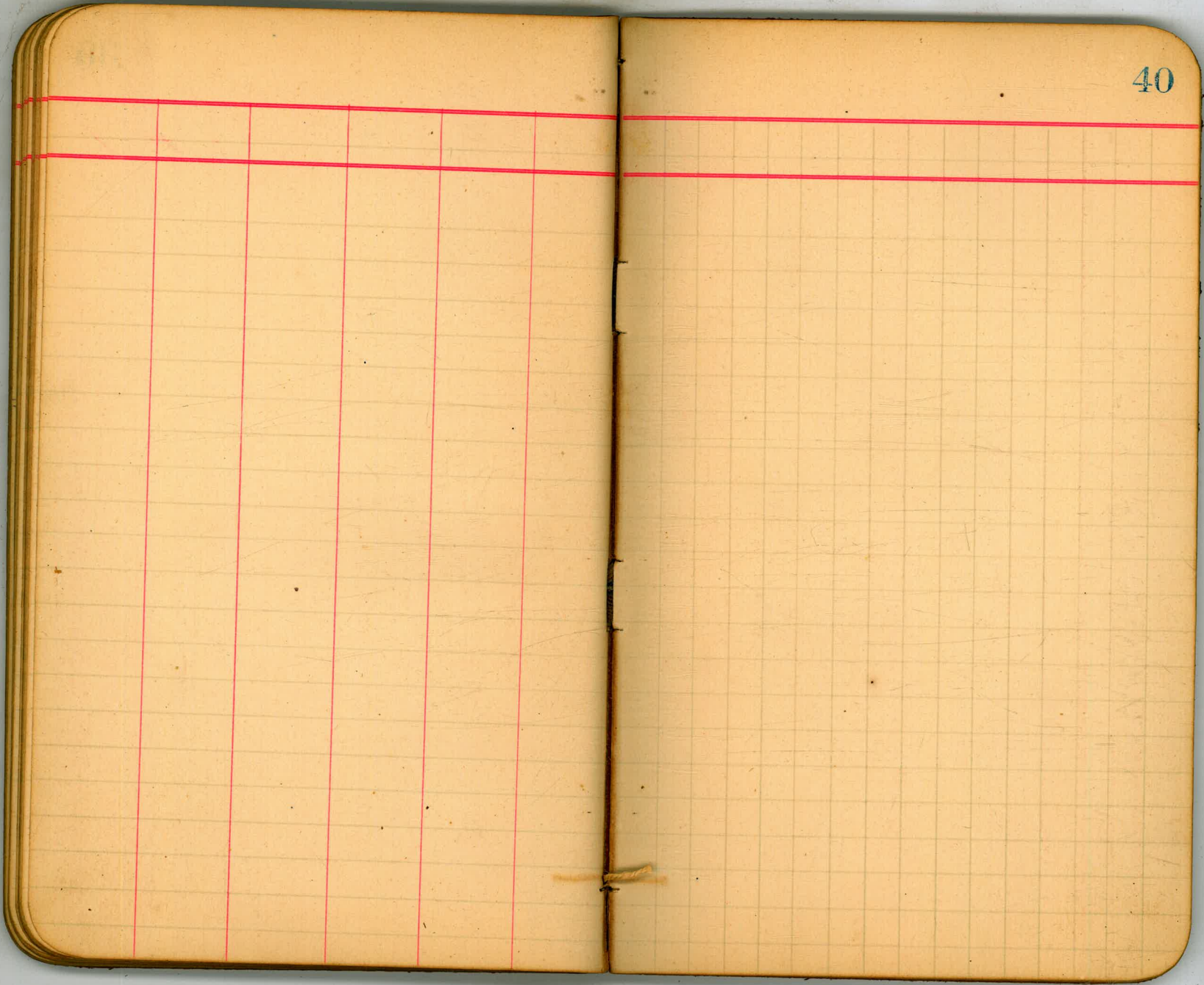


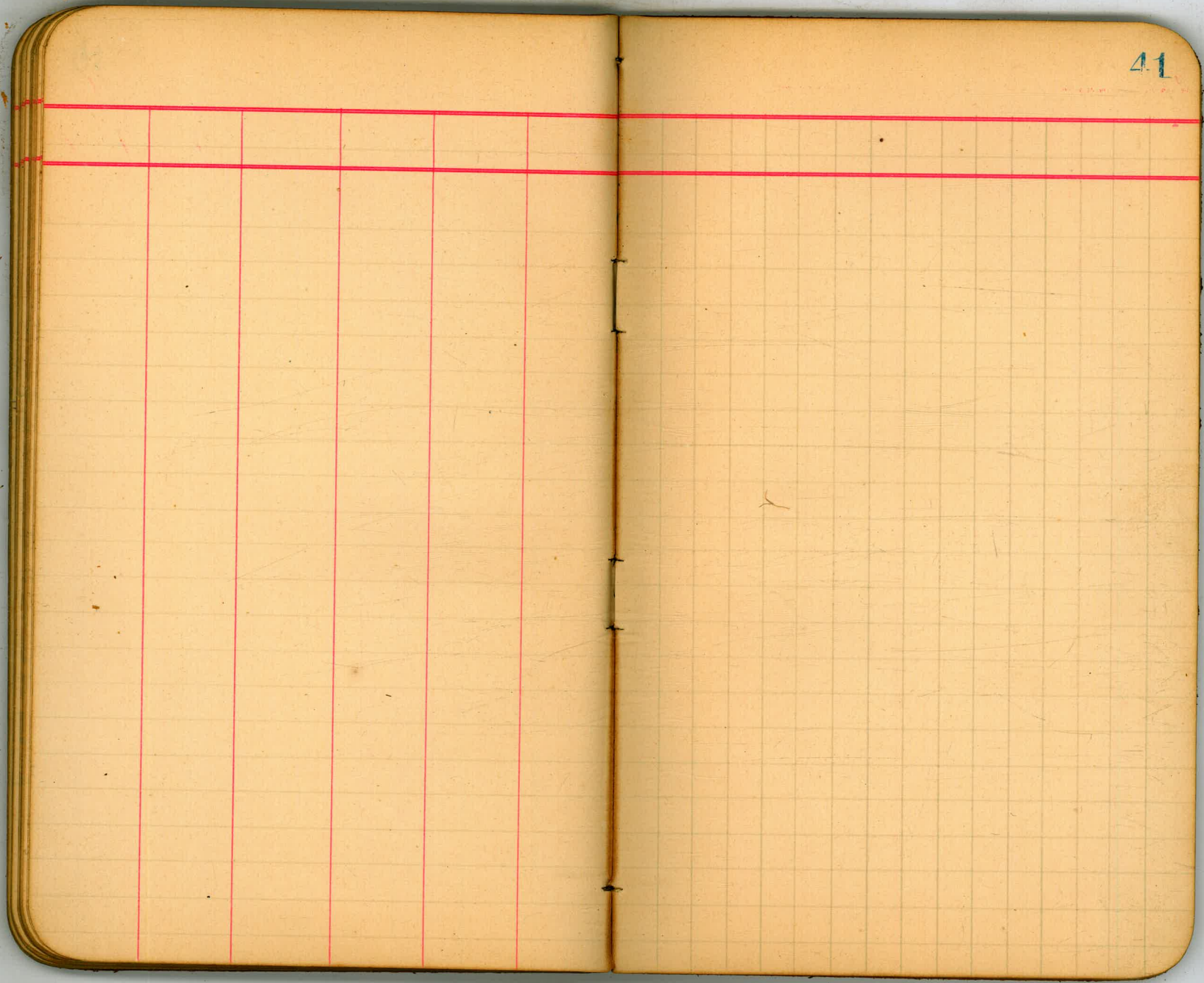
The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these lines, there are six vertical lines that divide the page into seven columns of varying widths. The right page is a standard grid page with a uniform grid of red lines. The number '36' is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.

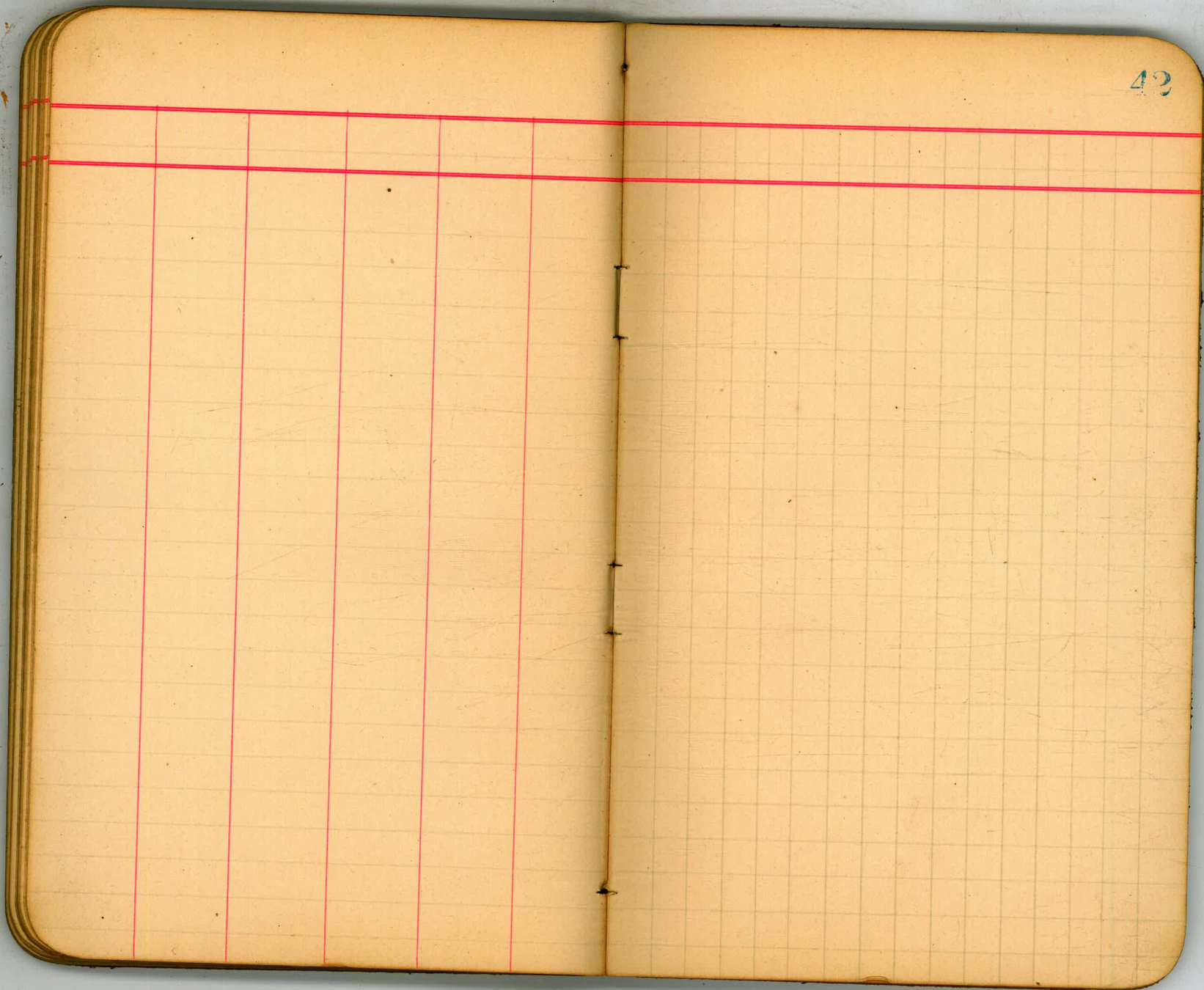


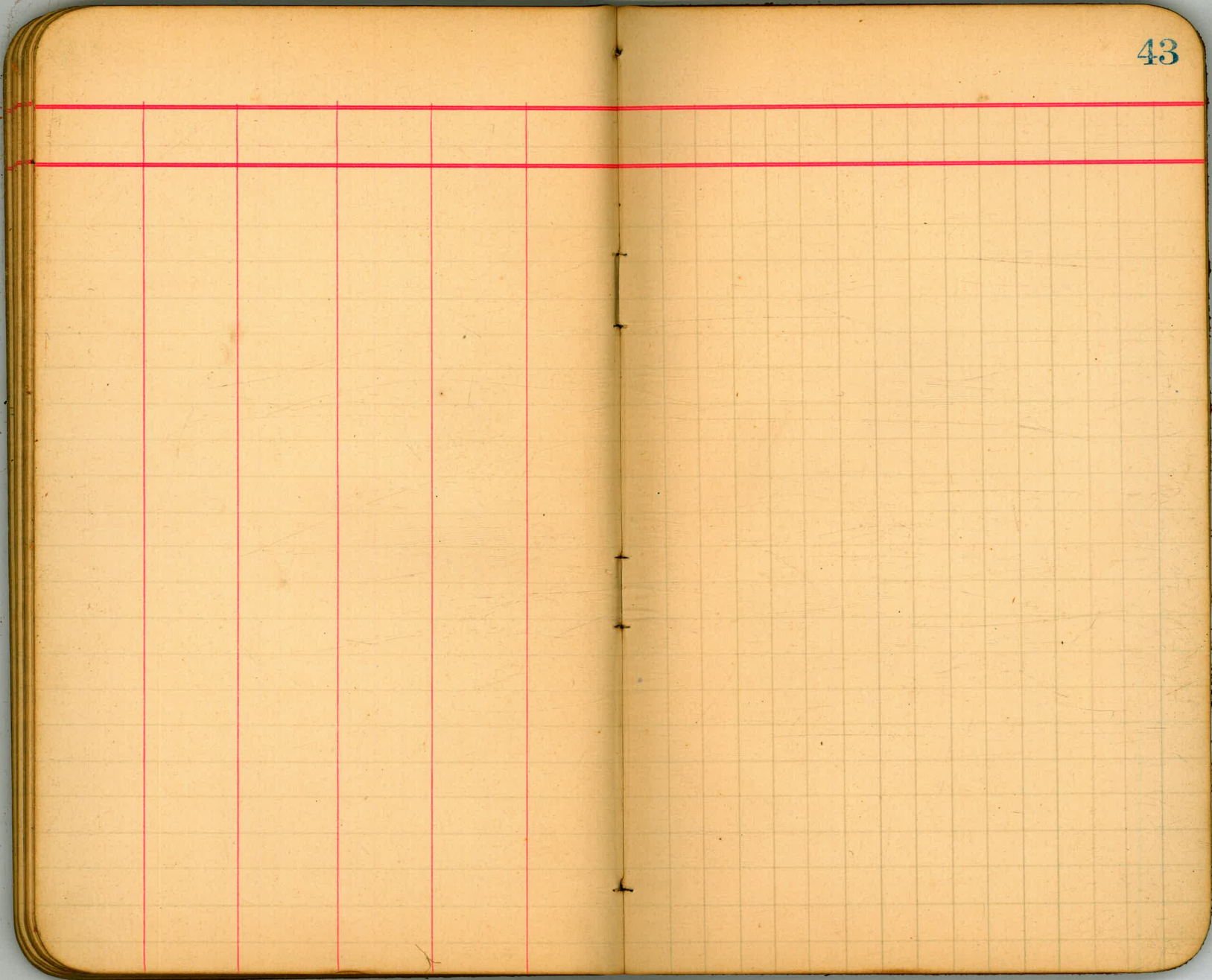




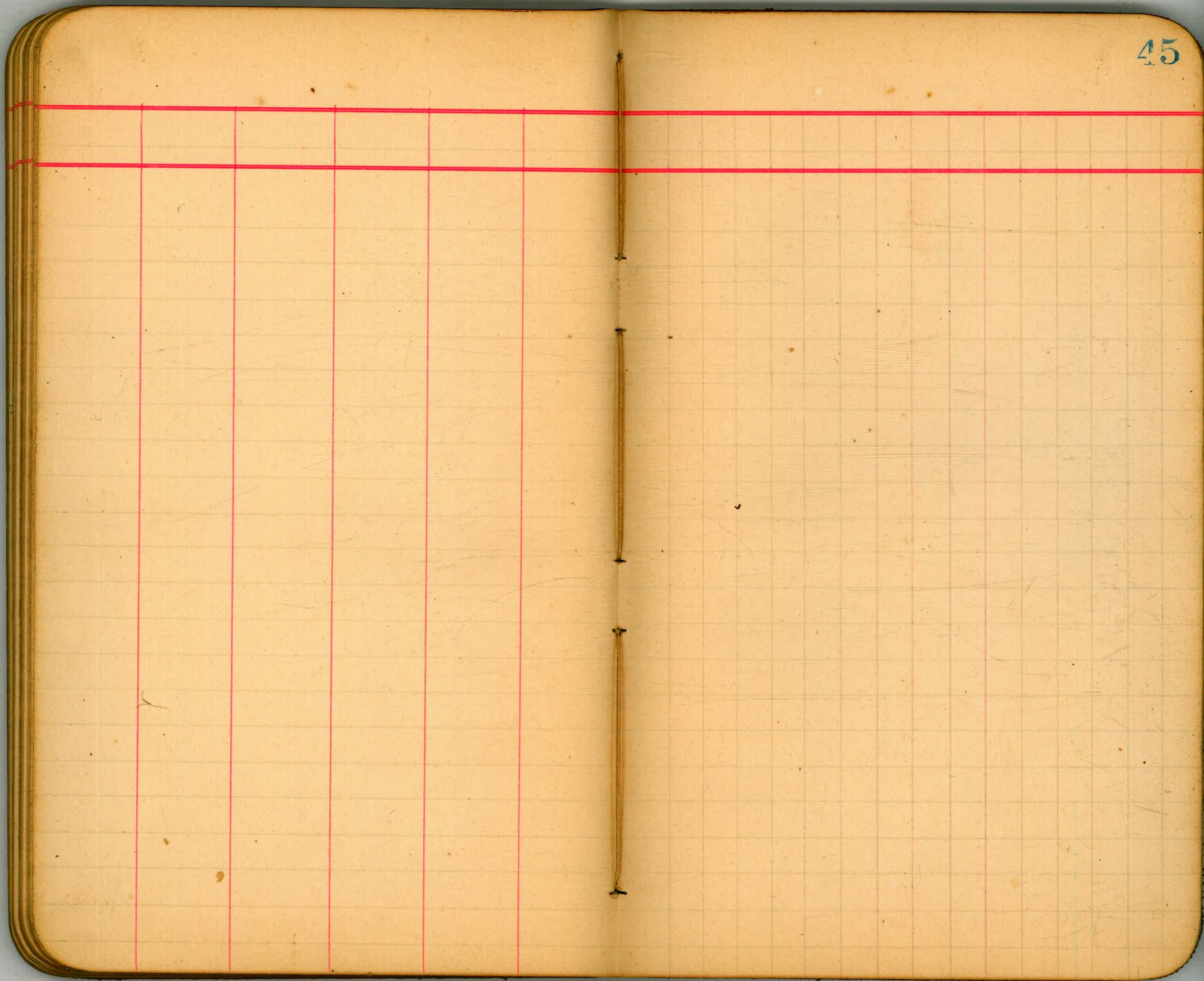








The notebook is open to two pages. The left page is a ledger page with a grid of 12 columns and 20 rows. The first two columns are wider than the others, and the remaining 10 columns are narrower. The right page is a standard grid page with a 20x20 grid. The pages are aged and yellowed. There are some faint markings on the left page, possibly from a previous page or bleed-through. The notebook is bound in the center, and the pages are slightly curved.



Oct 19th

Sta	+ H.D.	-	Elev.	BB.
-----	--------	---	-------	-----

B.M.	8.83	65.54		56.71
T.P.	10.29	74.98	0.85	64.69
B.M.			5.23	69.75

1816 N.W. deep fence

1916 S.W. deep fence

12th North of C.

Sta	+	N. O.	-	Elev.
B.W.	4.87	74.67		69.80
B.W.	8.95	82.33	1.29	73.38
T.P.	10.14	92.26	0.21	82.12
B.W.			7.58	84.68
T.P.	10.45	102.48	0.23	92.03
B.W.			3.57	98.91
T.P.	5.28	107.59	0.17	102.31
B.W.			2.30	105.29

1276.

1272.

1276.

1278.

W.L.B.
L.F.H.

12th St. B. Wain North of N.

Sta	+	H.I.	-	Elev. B.B.		
B.W.	6.08	56.18		50.10	50.10	100 ft post. N + 12
B.W.	6.58	61.43	1.33	54.85	54.82	S.E. base of E. + 12 th
B.W.	7.59	66.48	2.54	58.89	58.87	S.W. base of F. + 12 th
T.P.	6.93	71.53	1.88	64.60		
B.W.	5.12	74.89	1.76	69.77	69.80	12 TE.
B.W.			6.18	65.35	65.36	11 TE.
B.W.	8.25	81.61	1.53	73.36		12 + G. Bottom of drainage. N.E.
T.P.	8.27	89.69	0.19	81.42		
B.W.			2.27	87.42	87.40	12 TE. N.W. corner.
B.W.			11.55	78.14	78.15	11 TC. S.E. corner
B.W.	11.43	96.08	5.04	84.65		12 TE Sp Elec L. pole. S.W.
T.P.	7.81	102.97	0.92	95.16		
B.W.	7.37	106.28	4.06	98.91	98.94	12 + B. S.W. corner.
B.W.	0.26	105.56	0.98	105.30	105.28	12 + A. S.W. corner.
T.P.	1.08	95.04	11.60	93.96		
B.W.			5.61	89.43	89.42	11 TA. S.E. corner

W.C.
F.H.

10' St. B. Min

	+	A.S.	-	Elev.
B.M.	11.24	89.09		77.85
T.P.	11.82	100.79	0.12	88.97
T.P.	11.90	112.51	0.18	100.61
B.M.			0.43	112.08
T.P.	11.97	124.36	0.12	112.39
B.M.	11.88	133.82	2.42	121.94
T.P.	11.62	145.11	0.33	133.49
B.M.			0.45	144.66

N. Bet 8 + 9. 3/2/88

B.M.	3.67	6.14		2.47
B.M.			5.86	+0.28

W.G. Wheelers fence.

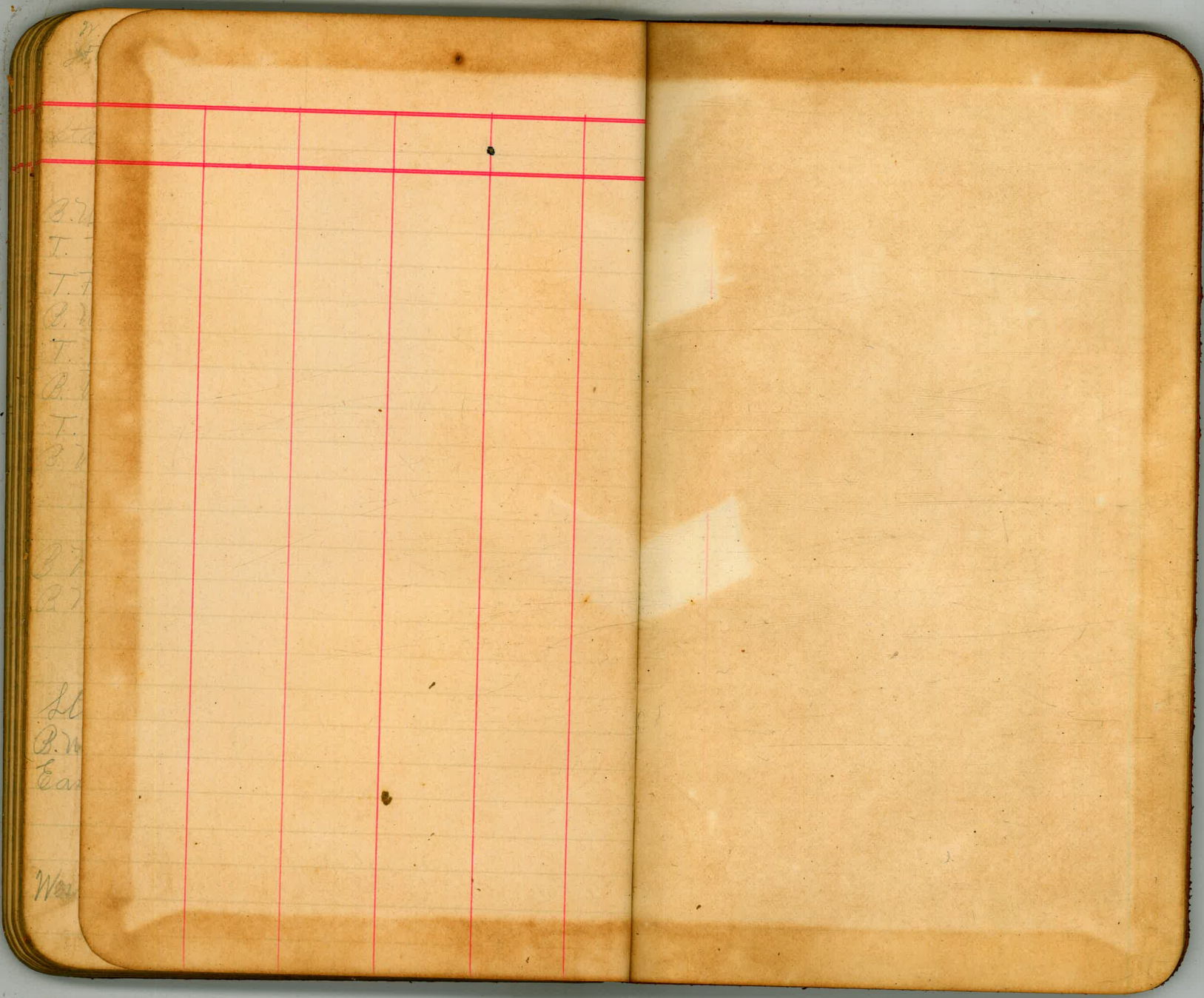
Sta	+	A.S.	-	Elev.
B.M.	0.50	92.51		92.01
East			5.68	86.83
			7.70	84.81
			9.44	83.07
West.			12.50	80.01

10' Ash. Culvert.

10' Bridge. N.W. Sp. on out	8.48
	<u>2.76</u>
	-5.78
10' leader. N.E. of plug.	<u>6.</u>
	22

10' Gate. Sp. tel. pole.

N. 9 S.E. Sp. on.
Sp. tel. 100' W.



27

sta

B. 2

T. 1

T. 2

B. 3

T. 4

B. 5

T. 6

B. 7

B. 8

B. 9

St

B. 10

Ear

Wor

S. S. Mendonhall
Lloyd Leonard

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	99.76	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	97.68	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	94.33	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	66
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	68
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	69
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	70
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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