

701

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	40	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.

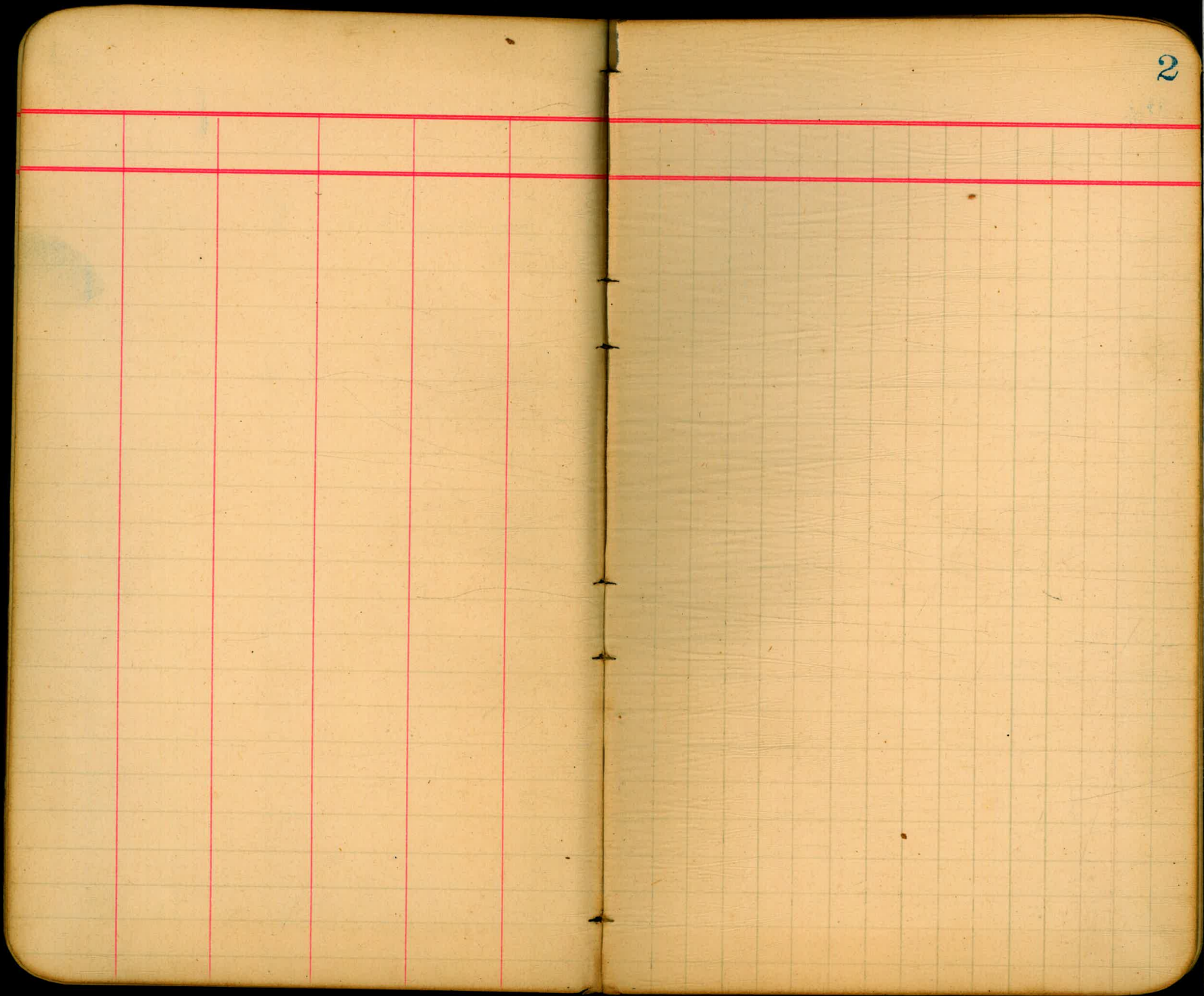
Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47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

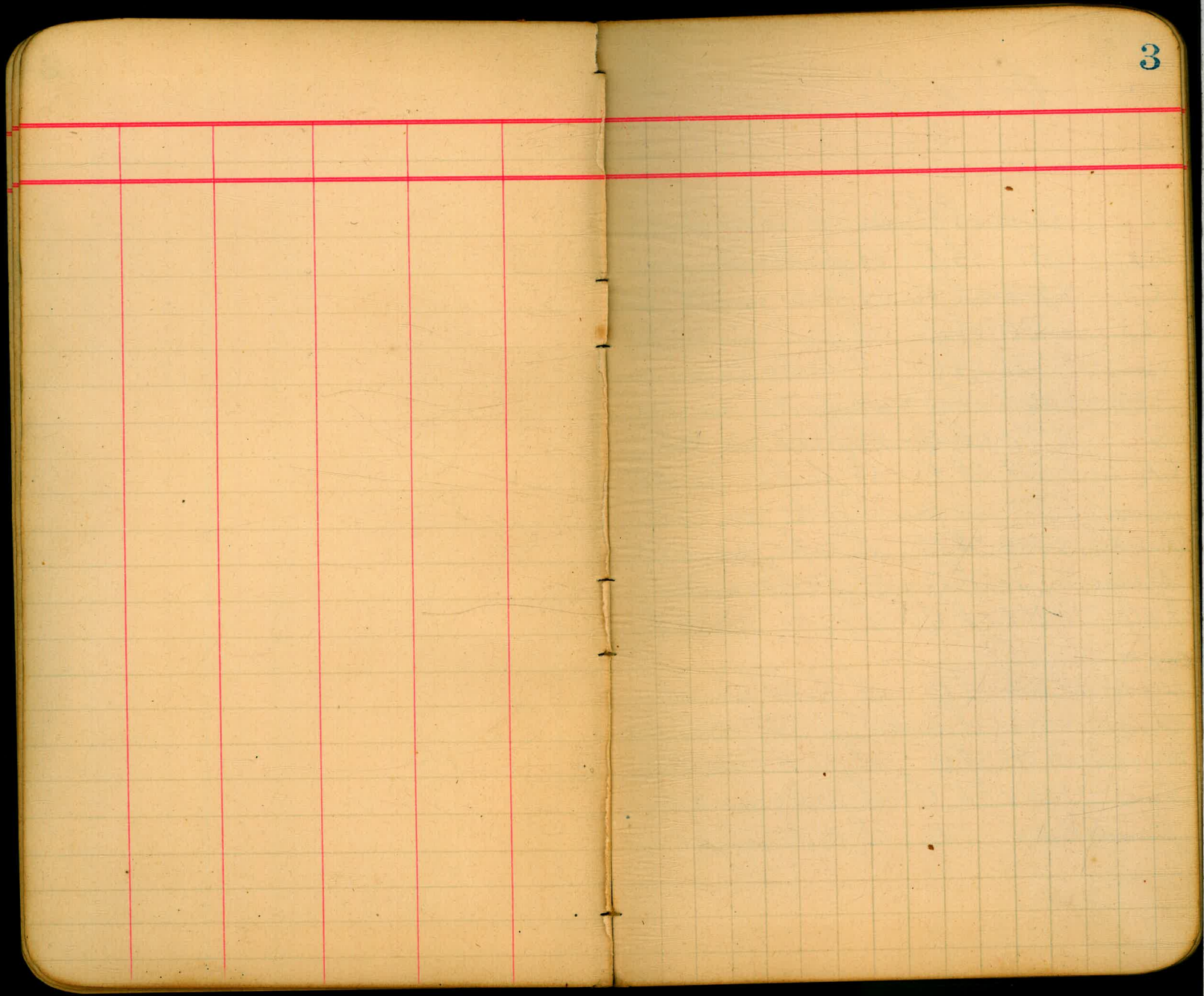
Atlantic

Street

1

H	-0.105	S.E.	Spikes in tel pole
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California

4

H	-1.275	S.C.	20' W of corner	spike in telegraph pole.
G	1.537	S.C.	Spike in east	of building.
J	4.718	N.C.	Spike in tel. pole	35' N and 25' E of corner.
C	6.484	S.C.	Spike in <u>SW</u>	side of sign post.
D	7.521	S.C.	Spike in	sign post.
E	7.147	S.C.	Spike in east	post of depot platform
B	8.197	N.C.	Spike in tel.	pole 30' S of corner.
A	9.539	N.C.	Spike in tel.	pole.
Ash	11.959	N.C.	Spike in tel	pole 10' N of corner.
Creek	15.174	N.C.	Spike in tel.	telegraph pole 35' N of corner.
Cedar	16.054	N.C.	Spike in tel	pole 50' N of corner.
Date	17.009	N.C.	Spike in tel	pole.
Elm				
Fir	17.804	S.C.	Spike in tel	pole.
Grape	16.880		Spike in tel pole	center of street.
Hawthorn	21.649	N.C.	Spike in tel	pole.
Ivy	17.598	N.C.	Spike in tel	pole. <u>NW</u> east.
Juniper	18.031	N.C.	Spike in tel	pole

Arctic

H. -0.859 S.C. Spike in tel pole.

Ash. 17.292 S.C. Iron pin 6" from 3' 6" from cor of fence.

Dumfries 31.196 N.W. Spike in cor of fence 50' N of cor

India

H.	2.204	S.W.	Spike in tel	pole.
G.	7.843	N.E.	Spike in cor	post.
J.	9.005	S.E.	Spike in cor	post.
C.	10.513	N.E.	Spike in tel	pole.
D.	10.646	N.E.	Spike in tel	pole.
G.	17.533	S.E.	Spike in tel	pole.
B.	15.841	S.E.	Spike in tel	pole.
A.	19.720	S.E.	Spike in tel	pole.
Ash	22.968	S.W.	Spike in cor	fence.

Juniper 54.11 S.W. Spike in tel - pole

Columbia

H. 0.711 S.W. Spike in tel

Hydrant

sole.

of Carleton Hotel

Ash 32.009 S.C. box took in

cor. posth.

Juniper 55.470 S.C. Iron pin 6"

from cor

S tate,

H.	7.231	S.W.	Spike in	telegraph pole.
G.	13.480	S.E.	Iron pin 6"	from corner.
F.	18.117	S.W.	N end of hinge	of hydrant.
C.	22.079	S.E.	N end of hinge	of hydrant.
L.	22.950	N.E.	Spike in	tel pole.
G.	25.030	S.E.	Spike in cor	ner of fence.
B.	27.469	S.E.	Iron pin 6"	from corner.
A.	33.140	S.E.	N end of hinge	of hydrant.
Ash	32.915	S.W.	Spike in	cor of fence post.

Juniper 77.21 SW Iron pin 1" - from cor

Union

9

Ht. 9,810 S.W. Spike in

telegraph pole.

Ash 98,817 S.W. Spike in

cut post.

Juniper 94,146 S.W. Iron pin 6"

from cut

Front

J	5.75	S.E.	Spike in post of lumber warehouse	
H.	10.831	S.W.	S spike in tel pole.	
G.	19.111	S.E.	N end of hinge of hydrant.	
J.	19.472	S.W.	Iron pin 6" from corner of fence.	
C.	28.247	N.E.	S spike in tel pole	
D.	31.855	S.W.	N end hinge of hydrant.	
C.	32.420	S.W.	S spike in corner post	
B.	39.581	N.W.	S spike in cor fence.	
A.	47.535	S.W.	S spike in guard post.	
Ash	50.091	S.W.	Iron pin 6" from corner.	

Juniper 189.846 S.E. Spike 6" from cor

I	11.465	N.E.	N end of	hinge of lug drumb.
H	12.980	S.E.	Top of Hyarant	

E.	25.779	N.W.	Spike in let. Pale	
----	--------	------	--------------------	--

Ash	58.669	N.W.	Spike in	cor of post.
-----	--------	------	----------	--------------

Juniper	204.756	N.E.	I run pin 8"	from cor.
---------	---------	------	--------------	-----------

2nd St.

12

J 4,645 N.W. Spike in
D 6,913 S.W. Spike in

tel. pole.
tel. pole

Ash 70,265 S.W. Iron pin 6"
Beech 74,41 S.W. Spike in
Cedar 83,79 S.W. Spike in

from cor
cor post

Jan 20 70 78 S.W. Iron pin 8"

from cor.

W.	1.489	S.E.	Spike in	cor of Stewart's warehouse
J.	5.376	S.W.	C. bolt middle	flange of hydrant.
J.	6.691	S.W.	Spike in	cor of building
W.	12.436	N.E.	Spike in	telegraph pole
G.	17.280	S.W.	Iron pin 6"	from corner.
J.	23.014	N.W.	Cement walk	3" from cor of Carlton.
C.	34.594	S.E.	N end of	hinge of hydrant.
D.	41.628	S.W.	" "	" " " "
G.	45.138	S.E.	" "	" " " "
D.	46.805	S.W.	bol track in	water table of house.
A.	61.114	S.E.	N end of	hinge of hydrant.
Ash	70.255	S.W.	Iron pin 6"	from corner.
Beech	91.090	N.E.	Spike in	cor of fence post.
Cedar	109.230	S.E.	Spike in	telegraph pole.
Bate	110.544	S.W.	Spike in tree	50' S of corner.
Chm	143.068	N.E.	Lower step in	side corner S. end School building
Pie	163.197	N.E.	Iron pin 6"	from cor.
Grape	183.821	N.W.	Spike in	cor. post
Hawth	166.532	N.E.	Iron pin 6"	from cor of B.
Log	173.821	Iron pin 1" E of	Sta. 9+40	
Juniper	204.310	N.E.	Iron pin 6"	from B. cor.

K.	3283	S.W.	S spike in	cor post of porch
F	4.946	N.W.	"	bet pole
D	11.291	S.W.	cap track on Beam	of scales
H	17.074	S.W.	N. End Hing of Hydram	
G	24.49	S.E.	N. End " " "	
F	31.058	S.W.	" " " "	
E	38.46	S.E.	" " " "	
D	46.543	N.W.	" " " "	
C	49.898	S.E.	" " " "	
B	49.278	S.E.	Spike in old Post	
A				
Ash	54.023	N.E.	Spike in cor Post	
Beech	95.255			
Cedar				
Date	121.49	S.E.	Spike in cor fence	
Elm				
Fir	161.125	S.E.		S.E. Spike in cor post
Grape				
Hawthorne				
Juniper	211.01	S.E.	cap. in top Rail fence	
Juniper				

6th Street

S	3.921	N.E.	S pike in	guard post:
K	8.54	"	" Hitching	posts 50' N
Q	13.61	S.E.	cap tree on lawn	Pin
D	18.915	N.W.	Spike in at pole	
H				
G	31.52	N.W.	Spike in at pole	
F				
E				
D				
C				
B				
A				

Ash 39.914 N.W. Iron pin 1'

Leaf corner

Buck
 Cedar
 Dali 142.037 S.E. Drun pin 6" from cr
 Elm
 Fig
 Grape
 Hawthorne
 Dog

Juniper + 6

7th Street

17

S 8.641 N.E. N end of hinge of hydrant.

K
16.03 N.E. Spike 6"

16.219 N.W. Spike in post

27.635 S.W. W. End Hinge of Hydrant

37.646 N.W. Spike in ev Post

43.155 S.E. N End of Hinge of Hydrant

45.426 N.W. Spike 6' ev.

54.811 S.E. N End of Hydrant

B

A

Ash 92.296 N.W. Spike in cor. of fence.

Beech

Cedar

Date 158.389 S.E. Draw pin Near corner

Elm

Fir

Witness Spikes. No Established ev

5th Street

M	5.37	S.W.	sph post	
L	9.154	N.W.	Spike in tel pole	
K	16.169	S. E.	N. End of hinge of	hydrant.
J	18.238	S. W.	Iron pin 12" from	corner.
I	25.048	S. W.	N. End of hinge of	hydrant.
H	31.025	S. E.	Do.	
G	40.655	N. W.	Spike in corner fence.	
F	44.37	S. E.	Spike in corner house.	
E	51.108	S. E.	N. end hinge hydrant.	
D	56.737	N. W.	Spike in corner fence.	
C	63.66	S. E.	Iron pin 7" from corner.	
B	63.224	N. E.	Spike in corner fence.	
A	103.065	S. E.	Spike in tel pole.	
Ash	130.189	S. E.	Spike in corner post.	
Beech	132.296	S. E.	Spike in corner post.	
Cedar				
Date	164.21	S. E.	Iron pin near cor.	Witness Stake.

W.	6.12	S.E.	Sp Post	
L.	11.506 4.723	N.E.	Spike in tel pole.	
K.	16.60	N.W.	Spike in tel Pole	
J.	23.140	N.E.	Spike 8" from cor	
I.				
H.				
G.				
F.	50.58	N.E.	Spike 8" from	cor.
E.				
D.	65.08	N.W.	box in top rail	of fence.
C.				
B.				
A.	84.098	N.E.	Spike in corner fence.	
Ash				
Beech				
Cedar.				
Date	159,562.	S.W.	Iron pin near corner.	Nitrusa stake.

10th Street.

U				
W.				
L.	13.958	N. W.	Spike in tel. pole.	
K.				
J.				
I.	37.10	N.E.	cut tree in base row	
H.				
G.				
F.				
E.				
D.	71.38	N.O.	bor top of	Stone base of fence
C.	76.58	S.O.	bor in top	of post.
B.				
A.	70.691	S. E.	Spike in corner fence.	
Ash	86.229	N. W.	Spike in tel pole.	Same
Beech	117.562	N. W.	Spike in cor. post.	Same
Cedar	137.056	S. W.	Spike 6" from corner.	
Date	140.703	S. W.	Spike in tel pole. 50"	S. cor.

11th Street.

W.				
U				
L.	15.196	N. E.	Spike in tel pole.	
K.	21.391	S. W.	Spike in guard post.	
J.	24.882	S. W.	Spike in cor. Post of fence	
I.	38.496	N. W.	Spike in hitching post.	
H.	42.481	S. W.	Spike in tel pole.	
G.	50.107	S. E.	N. end hinge hydrant.	
F.	54.621	S. W.	Spike in guard post.	
E.	65.357	N. E.	Cement walk 1" from post.	
D.	71.649	S. E.	Cement walk 5' S. 6" W. of corner, keil mark 2.	
C.	78.146	S. E.	Iron pin 6" from cor.	
B.	84.50	N. W.	Spike in cor. post.	
A.	89.416	S. E.	Iron pin 6" from cor.	

Ash

Beech

Cedar.

Date.

12. th

w
w
L

9.40 SW sph in post

13th

23

L 7.95 NE Sph. teleg

14 th

24

L 7.57 SE Spk in fence

15. Th.

25

N		
M	4.01	S.W. Spike in tel
L	11.23	S.W. Spk in post.
K	15.52	Spike in bot.
J	19.03	N.W. Spike in bot.
I		
H		
G		
F		
E		
D		
C		
B		
A		
Ash		
Bush		
Cedar		
Hate		
Elm		
Fir		
Grape		

16TH Street

26

M	14.37	SW	Spk in post
L	25.17	N.E.	Spk in cor post
K			

Jan 1 1891

63.24	11.00	74.91
-------	-------	-------

BB	+	HD	Grude Rod		
68.24	11.61	74.85	68.08	6.77	SSide
			69.75	5.10	Nside

69.75	7.65	77.40
-------	------	-------

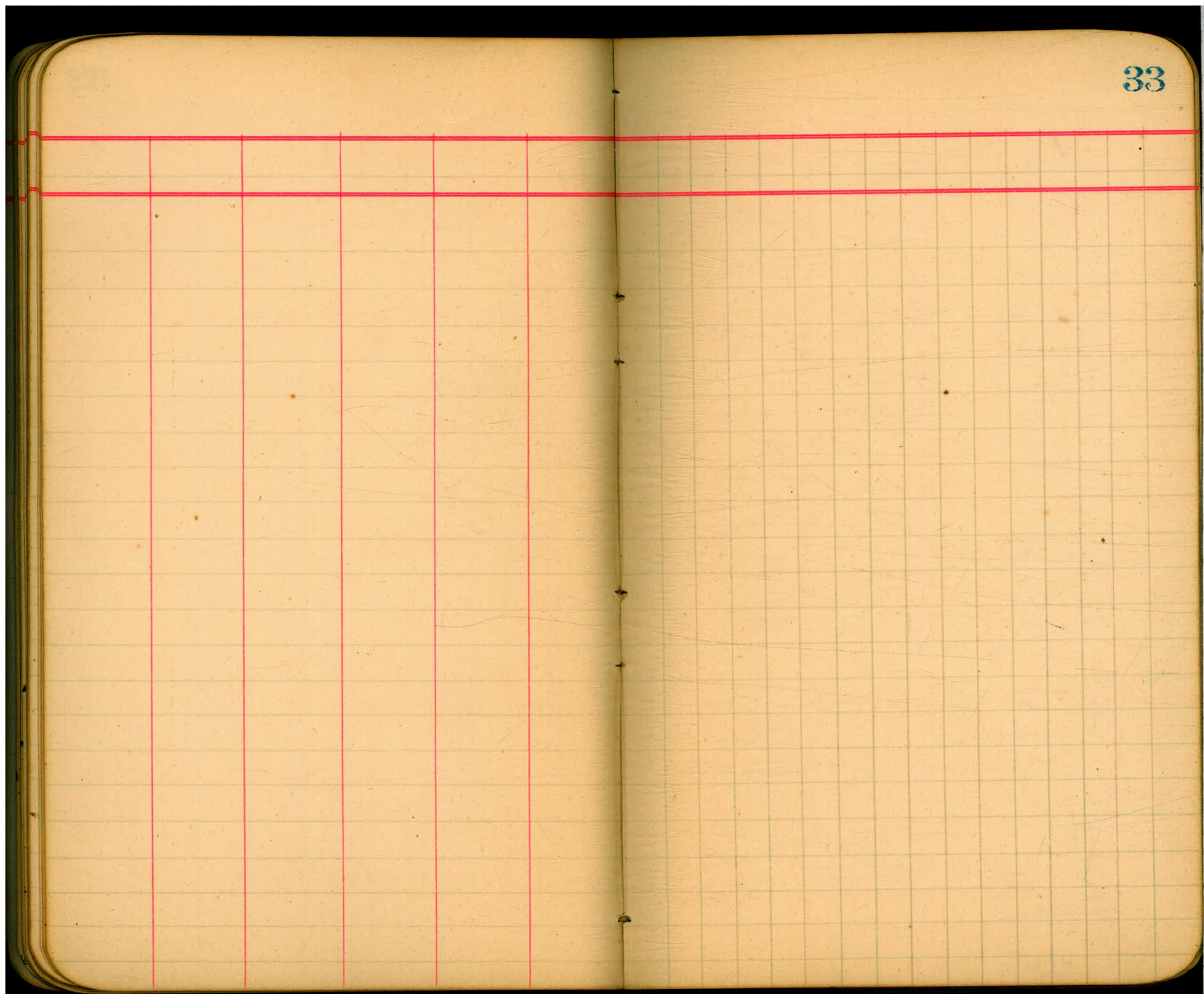
68.08	9.32	77.40	299	74.41
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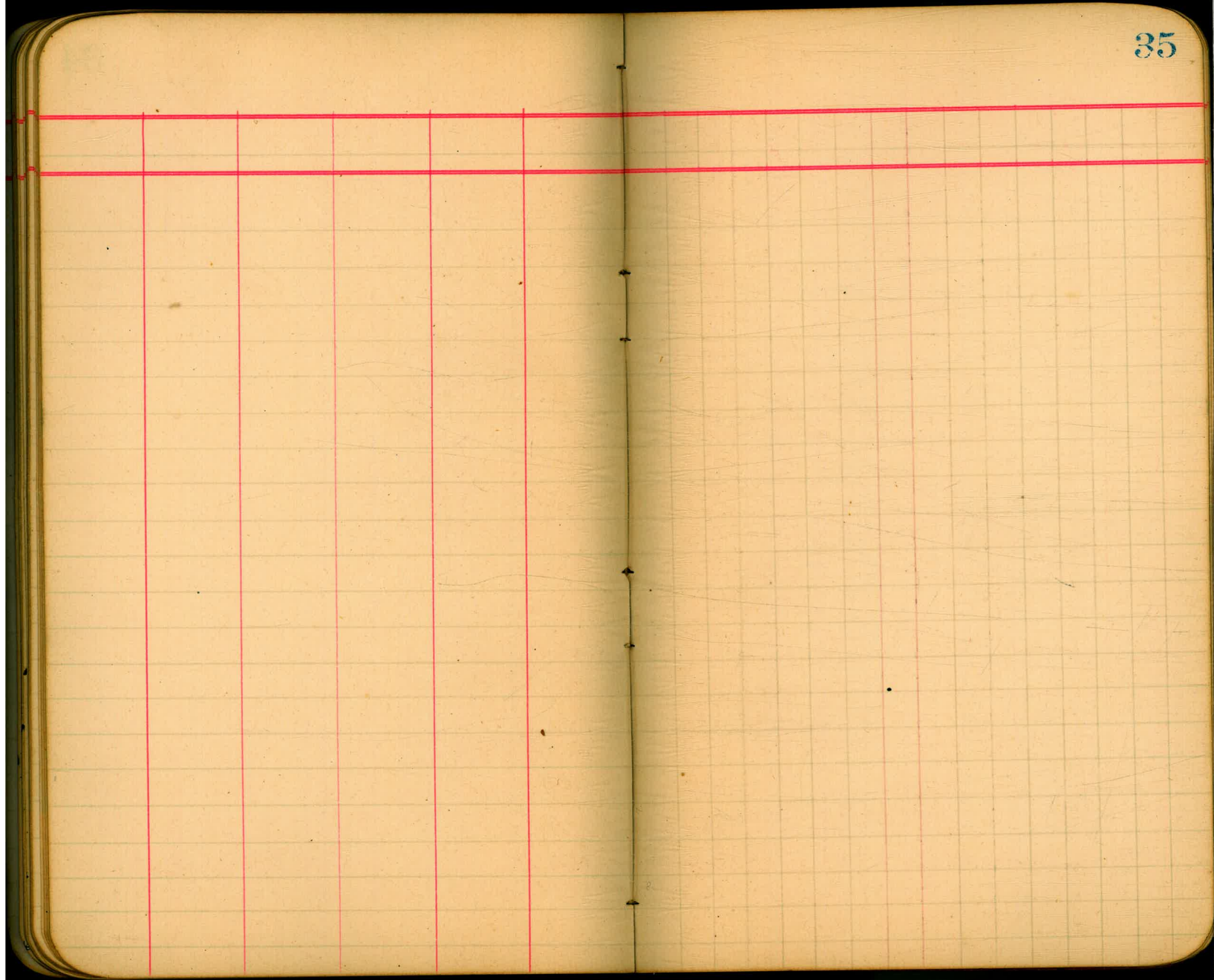
$$\begin{array}{r} 69.75 \\ 68.08 \\ \hline 3)1.67 \end{array}$$

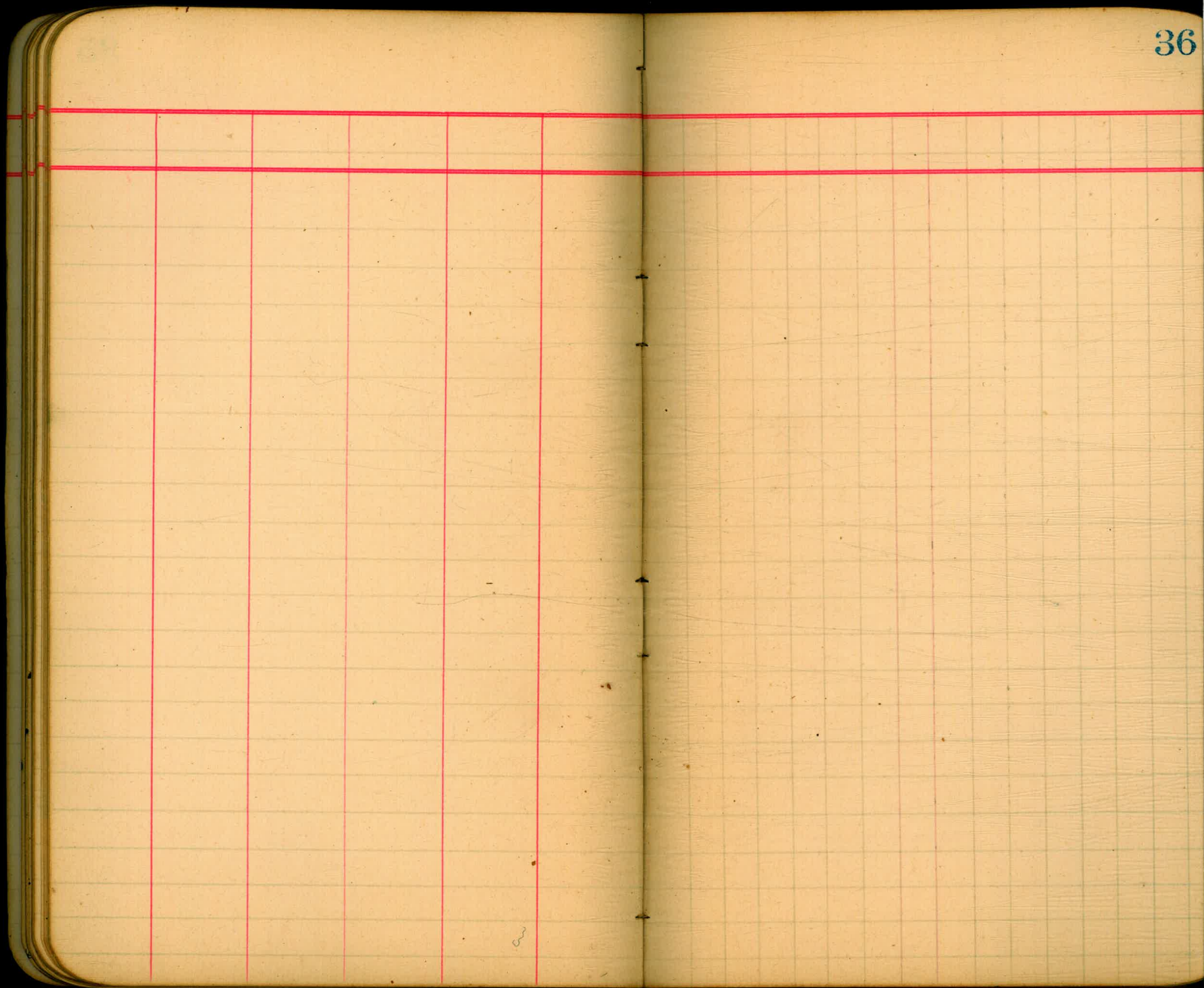
$$\begin{array}{r} 20 \\ \hline 40 \end{array}$$

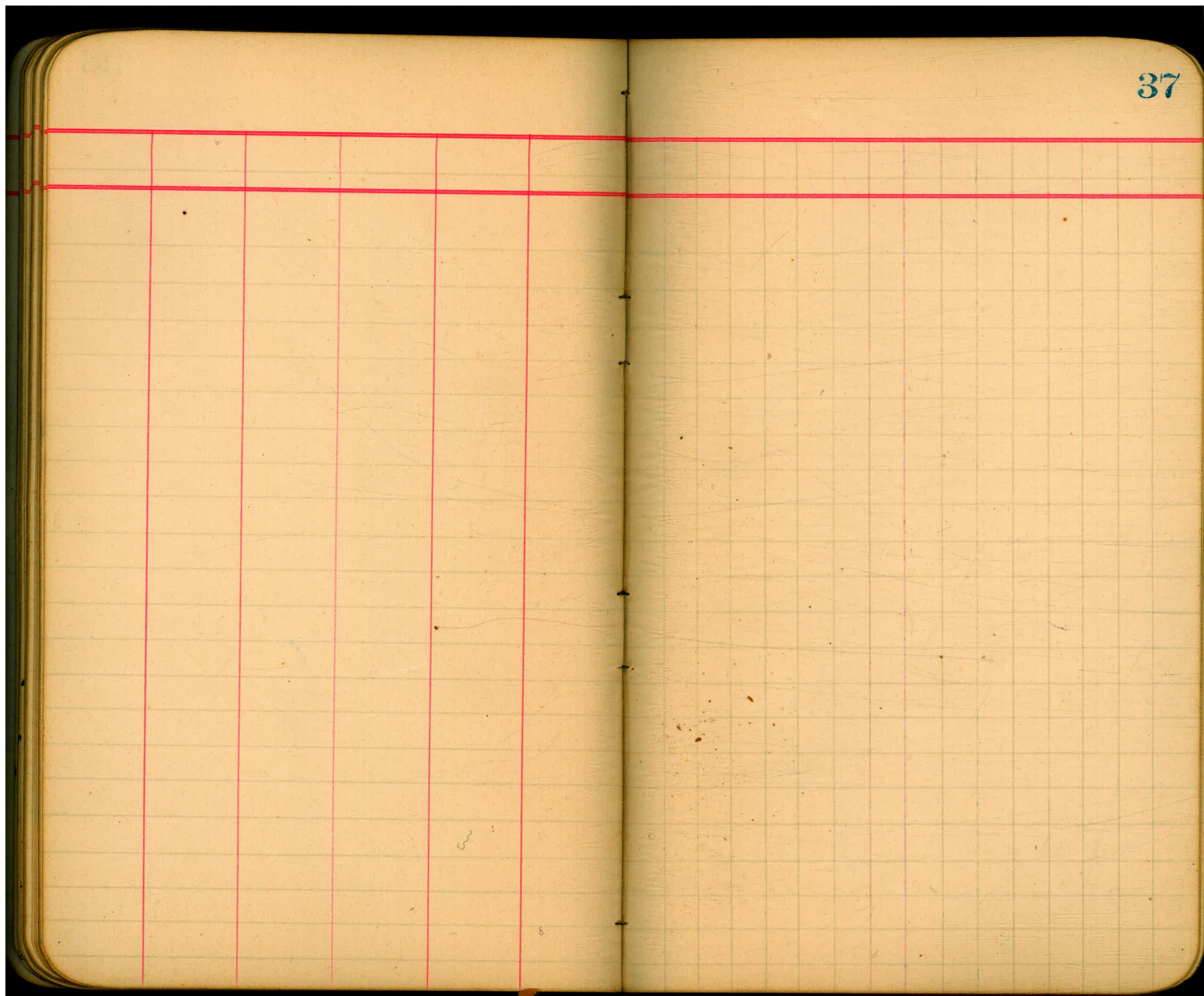
The image shows an open notebook with two pages. The left page is ruled with horizontal lines and has four vertical red lines that divide the page into five columns. The right page is ruled with horizontal lines and has a grid pattern. The number '31' is printed in the top right corner of the right page. The notebook is placed on a white surface.

The image shows an open notebook with two pages. The left page is ruled with horizontal lines and has four vertical red lines that divide it into five columns. The right page is ruled with horizontal lines and has vertical lines that form a grid. The number '32' is printed in blue ink in the top right corner of the right page. The notebook is placed on a white surface.

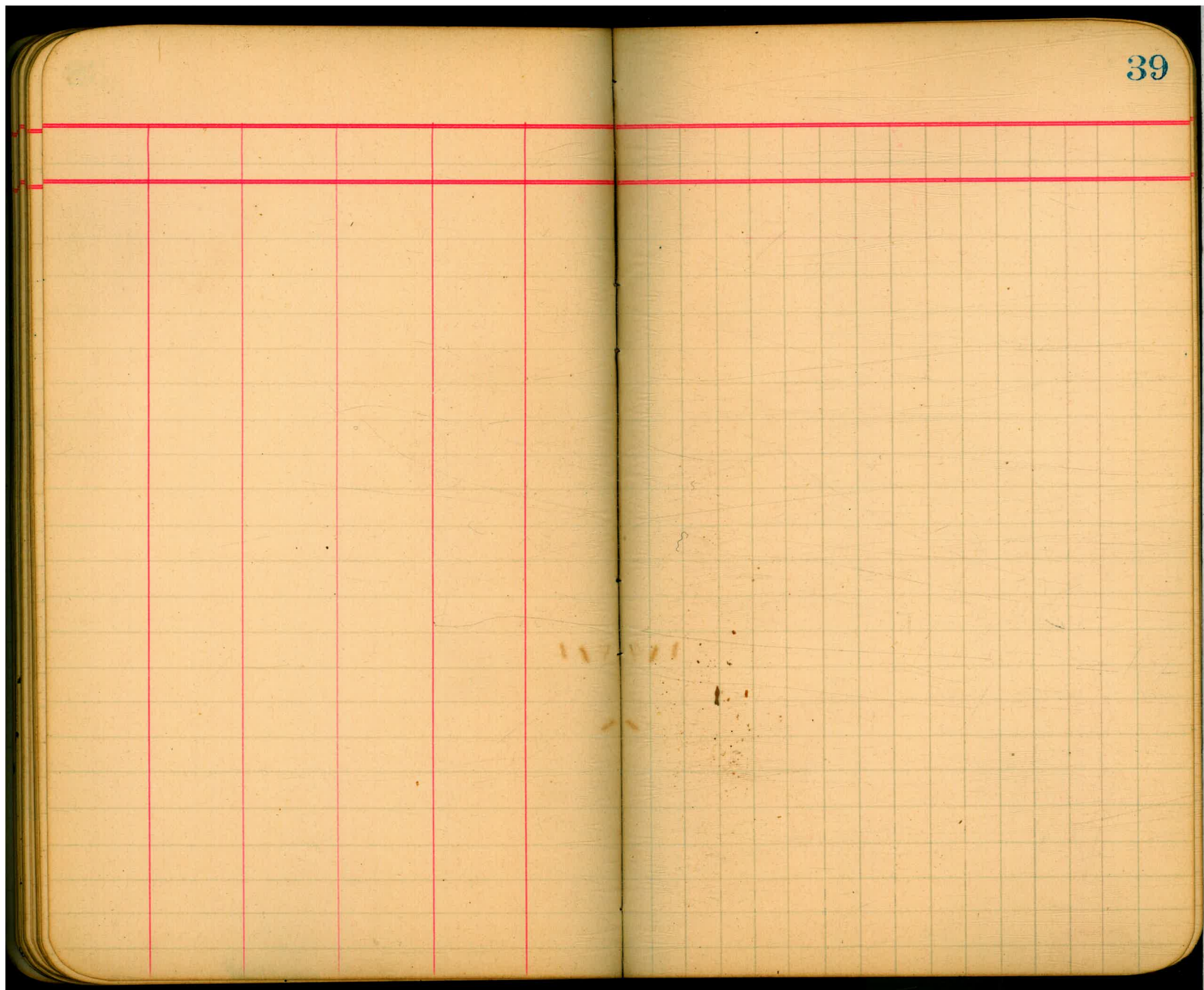


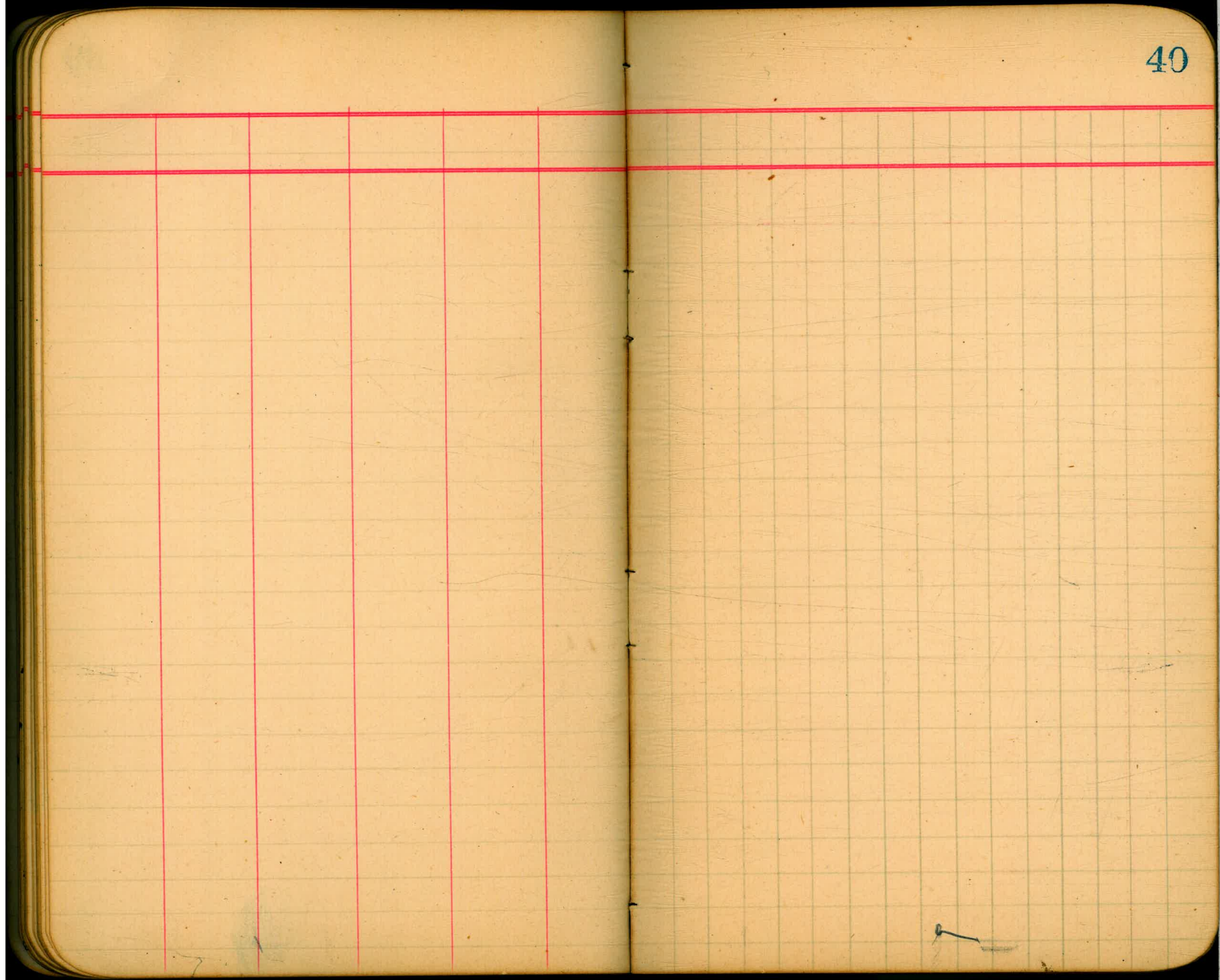






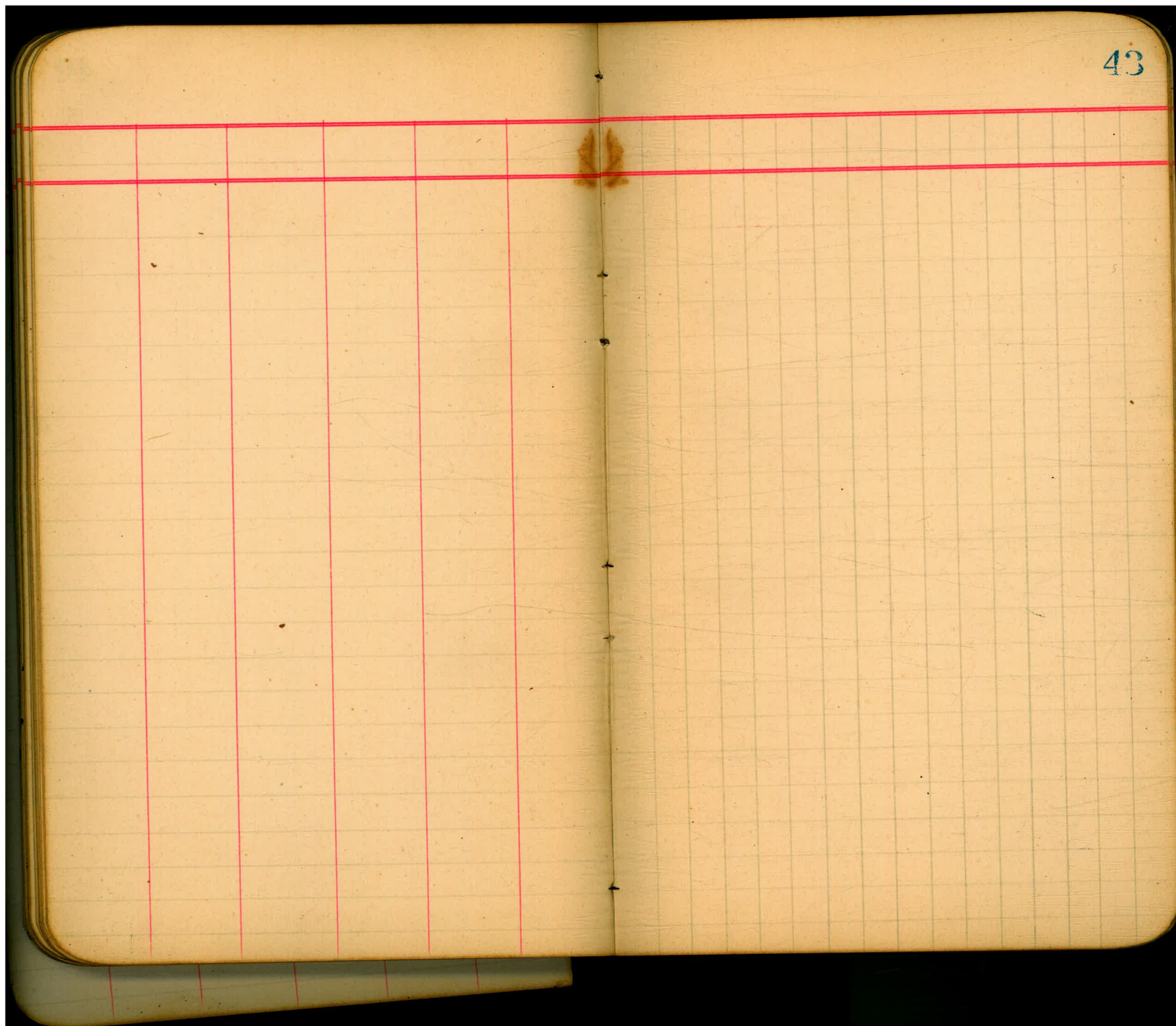
The image shows an open notebook with two pages. The right page is numbered '38' in the top right corner. Both pages are covered with a grid of thin, light-colored lines. Two prominent vertical red lines are drawn on each page, creating three columns of varying widths. Two horizontal red lines are also drawn, one near the top and one near the bottom, creating three rows. The grid is intended for technical drawing or data recording.

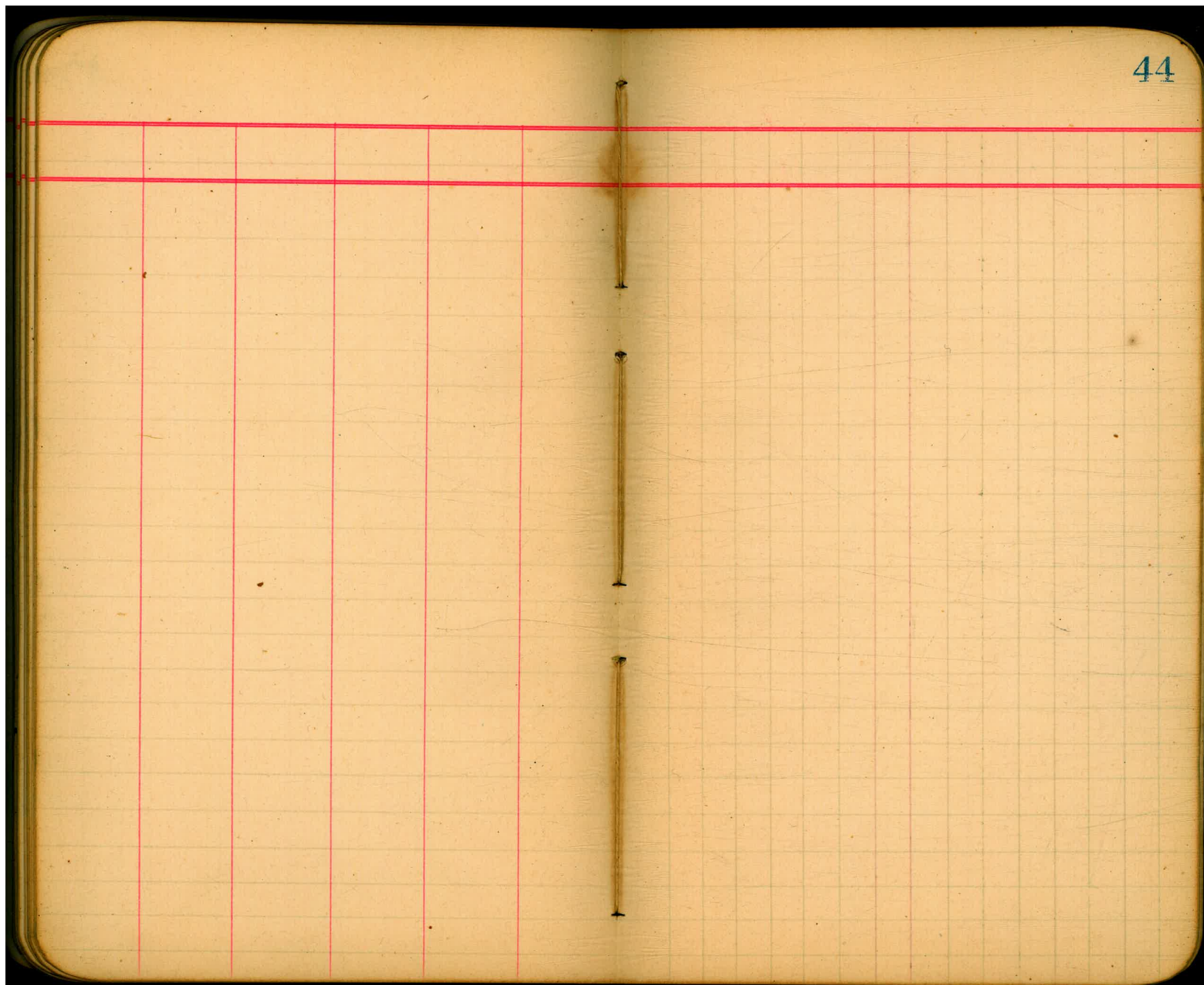


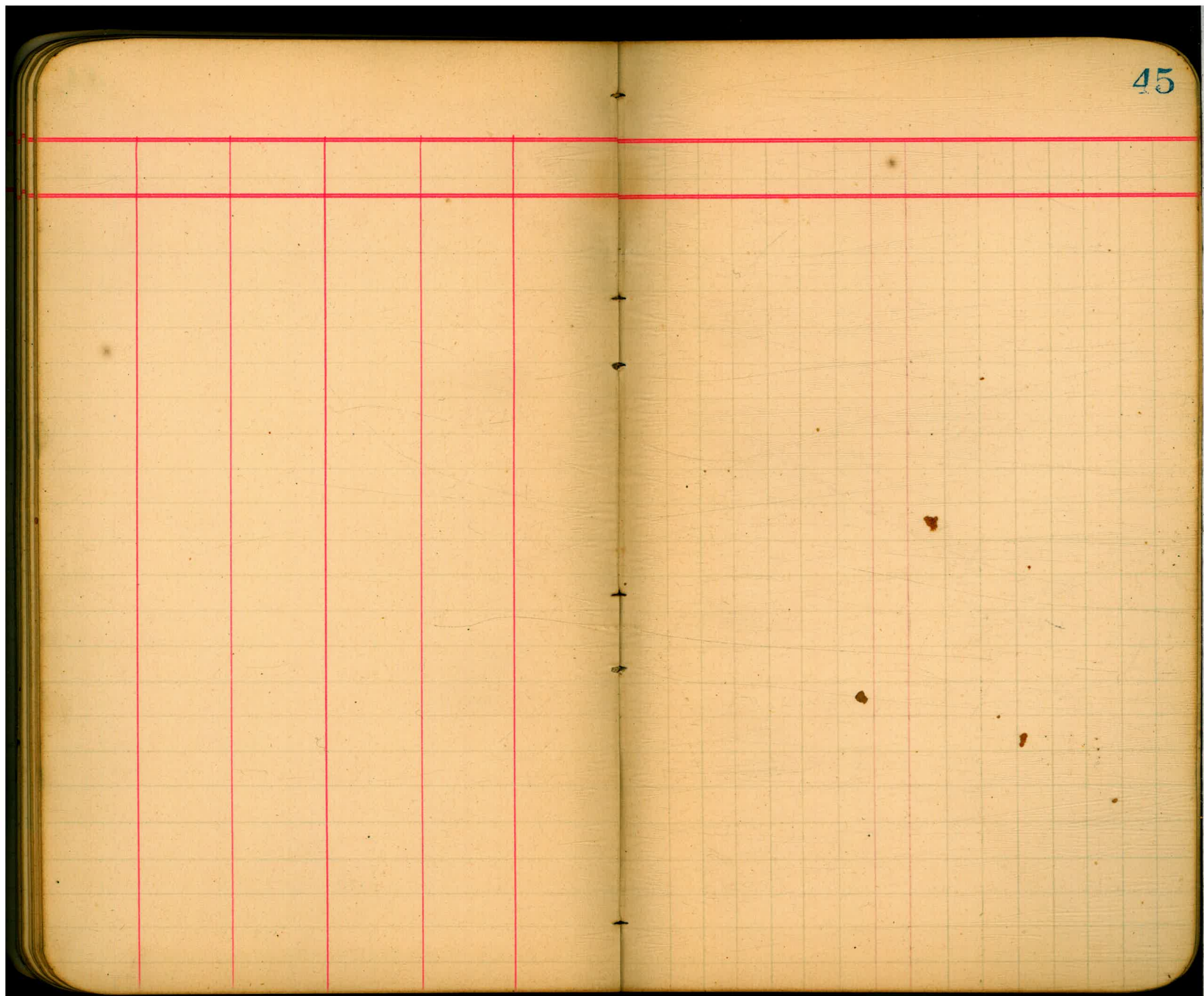


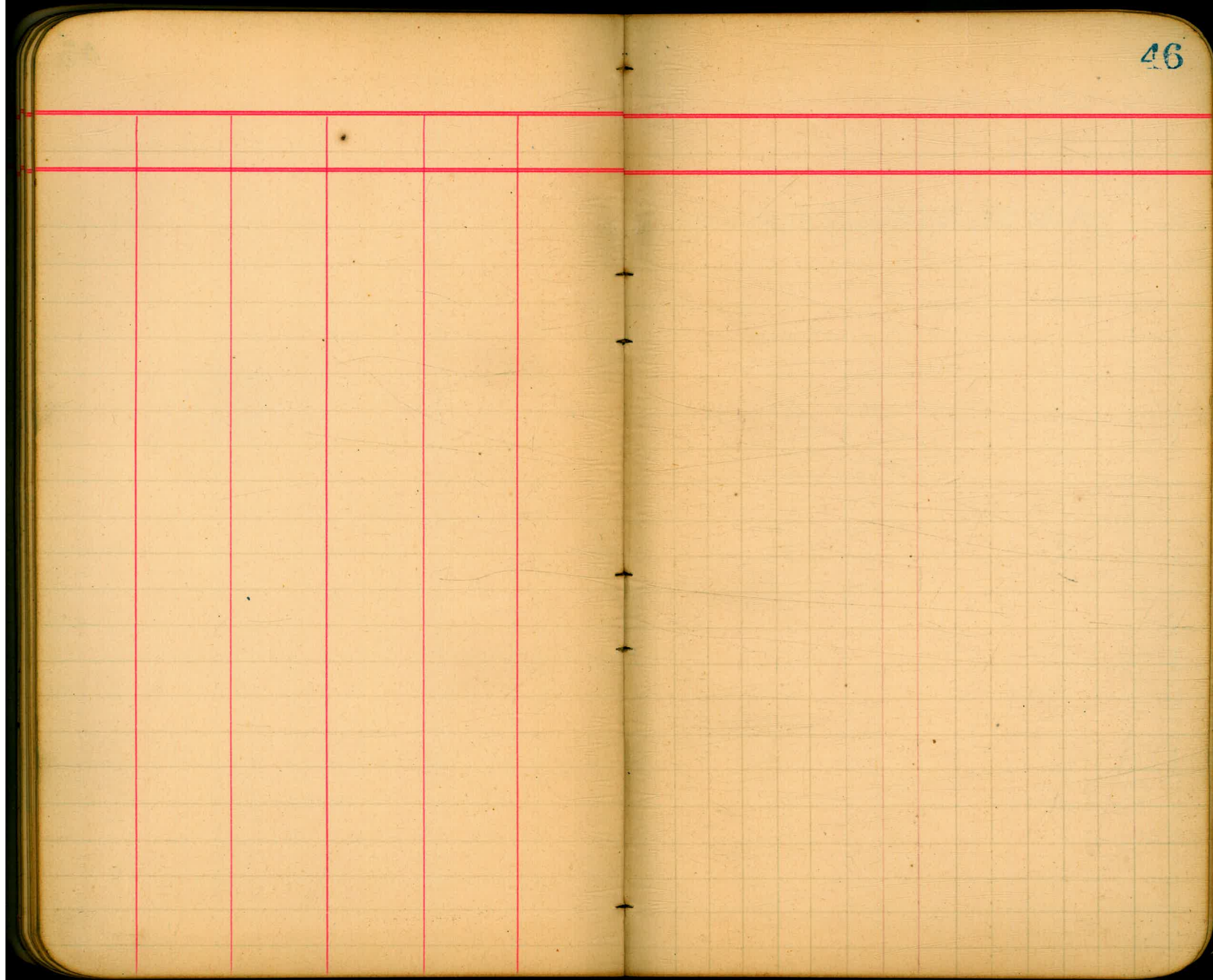
The image shows an open notebook with two pages. The left page is ruled with horizontal lines and has four vertical red lines that divide the page into five columns. The right page is ruled with a grid of horizontal and vertical lines. The number '41' is printed in the top right corner of the right page. The notebook is placed on a white surface.

The image shows an open notebook with two pages. The left page is ruled with a grid and features three vertical red lines that divide the page into four columns. The right page is ruled with a standard grid. The number '42' is printed in the top right corner of the right page. The notebook is placed on a white surface, and the binding is visible in the center.









Reservoir

47

-0.193

Spike in top of

spile 25' W of Wharf

Carlew

Juniper 104,807 S.E. Iron pin

2" from plug.

Brant Brant
Juniper 126,253 S.W. Iron pin 6'

from east plug.

Albatross.

Juniper 156,392 S.W. Iron pin

from east

2
of
re

Dieters

81
81
81
81
81
81
81
81
81
81

N	74	75
S	64	75
	<hr/>	
	10	
	<hr/>	
	1.666	
	<hr/>	
	9,832	
	<hr/>	
	64,75	
	<hr/>	
	3,932	
	<hr/>	
	68,082	S
	<hr/>	
	1,666	
	<hr/>	
	69,748	N

77.41
77.40

77.40
77.41

2.99

+ A/D - 60.25
 55.94 60.938 10.57 50.268

48.5
 74.41
 44

65.06
 64.54
 182

44.41
 60.94
 11.17

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	81
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	81
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	81
5	99.62	8.73	99.58	9.15	99.54	9.58	99.50	10.02	81
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	81
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	81
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	81
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
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	71
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	71
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	71
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	71
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	71
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	71
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
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	61
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	61
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	61
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	61
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	61
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	61
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	51
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	51
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	51
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	51
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	51
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	51
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	51
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	41
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	41
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	41
45	70.71	70.71							41
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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