

W
494

ENGINEERS'
LEVEL BOOK
No. 412 F

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide Side Slopes 1 on 1.
For Single Back Embankment.

H	0	.1	.2	.4	.5	.6	.7	.8	.9	H	
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \cdot 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on 1½ see inside of back cover.

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A94 Index

Hydraulic Filling Elev. Pool + Reach 1.3

Rolled Fill 5-9

Rock Placement 12-13

Spillway Concrete 31-38

Equipment + Men + Hours 19-28

Remarks 75

Blank 39-74 etc.

W.E. Roberts.

Elevations.

Date	Pool	upstream Beach	Down- stream Beach.	Shift.
Aug. 4 ^h				
" 5 ^h				
" 6 ^h				
" 7 ^h				
" 8 ^h				
" 9 ^h				
" 10 ^h				
" 11 ^h				
" 13 ^h				
" 14 ^h				
" 15 ^h				
" 16 ^h				
" 17 ^h				
" 18 ^h				
" 20 ^h				
" 21 ^h				
" 22 ^h				

Date	Pool	Upstream Beach	Down-stream Beach	Shift	Date	Pool	Upstream Beach	Down-stream Beach	Shift
1934 Aug-23"					Sept. 11				3rd.
" 24"					" 12				"
" 25"					" 13				"
" 27"	723.0	725.5	726.0	3rd.	" 14"				"
" 28"					" 15"				"
" 29"	725.0	727.5	727.5	"	" 17"				"
" 30"	726.5	728.5	728.0	"	" 18"	742.0	744.0	744.0	"
" 31"					" 19"	743.0	745.0	745.0	"
Sept. 1"					" 20"	744.0	746.0	745.5	"
" 3"					" 21"	745.0	746.5	746.5	"
" 4"					" 22"	745.5	746.5	746.5	"
" 5"					" 24"	746.5	747.0	747.0	"
" 6"					" 25"	746.5	747.5	747.5	"
" 7"					" 26"	747.0	748.0	748.0	"
" 8"					" 27"	747.5	748.5	748.5	"
" 9"					" 28"	749.0	749.5	749.5	"
" 10"					" 29 th	749.0	750.0	750.0	"

1934 Date	Core	Upstream Beach	Down- stream Beach	Shift.
Oct-1st.	751.0	750.5	750.5	3rd
" - 2nd.	752.0	751.0	751.0	"
" - 3rd.	753.0	751.5	752.0	"
" - 4th.	755.0	753.0	753.0	"
" 5th.	758.0	754.5	754.5	"
" 6th	759.0	756.0	756.0	"
" 9th	759.5	756.5	756.5	"
" 10th	-	757.5	758.5	"
" 11th	-	758.5	758.5	"
" 12th	-	759.0	759.0	"
" 13th	-	759.0	759.0	"
" 15th	-	760.0	760.0	"

1934
Date. Core Beach. Down-
stream Beach. Shift.

3

Rolled Fill
 ----- Lakaside Clay
 ----- Select Pit Material

Placement Record.
 ----- D.G.

5

Upstream
 Down stream

7-3000
 7-3100
 7-3200
 7-3300
 7-3400
 7-3500
 7-3600
 7-3700
 7-3800
 7-3900
 7-4000
 7-4100

Axis of Dam

Date. Shift.

Aug. 27th 3rd.

Aug. 28th 3rd.

Aug. 29th 3rd.

Aug. 30th 3rd.

Aug. 31st 3rd.

Sept 1-5t 3rd.

Upstream
Downstream

H-30 00

H-31 00

H-32 00

H-33 00

H-34 00

H-35 00

H-36 00

H-37 00

H-38 00

H-39 00

H-40 00

H-41 00

Axis of
Dam.

Date - Shift.

Upstream
Downstream

Axis of Dam

Date Shift.

H-4100
H-4000
H-3900
H-3800
H-3700
H-3600
H-3500
H-3400
H-3300
H-3200
H-3100
H-3000

Sept 18
3rd

Sept 19
3rd

Sept 20
3rd

Axis of Dam

Date Shift

H-4100
H-4000
H-3901
H-3800
H-3700
H-3600
H-3500
H-3400
H-3300
H-3200
H-3100
H-3000

Sept 21
3rd.

Sept 22-
3rd

Sept 24
3rd

Sept 25
3rd

Sept 26
3rd

Rolled Fill Placement.

Rolled Fill Placement. 8

Date.	Shift.	Axis.	H. 4120	H. 4000	H. 3900	H. 3800	H. 3700	H. 3600	H. 3500	H. 3400	H. 3300	H. 3200	H. 3100	H. 3000
Sept 27th	3rd.	Axis.												
Sept. 28th	3rd													
Sept. 29th	3rd.													
Oct. 1st.	3rd.													
Oct 3rd.	3rd.													
Oct End														

Select Pt. x
Lakeside.
Lakeside
select
Oct. 1st.

upstream
downstream
Shift.

H. 4100
H. 4000
H. 3900
H. 3800
H. 3700
H. 3600
H. 3500
H. 3400
H. 3300
H. 3200
H. 3100
H. 3000

Axis Dam

Date	Shift	Axis Dam	H. 4100	H. 4000	H. 3900	H. 3800	H. 3700	H. 3600	H. 3500	H. 3400	H. 3300	H. 3200	H. 3100	H. 3000
Oct 3rd	3rd.													
Oct 4th.	3rd.													
Oct 5th	3rd.													
Oct 6th	3rd.													
Oct 9th.	3rd.													

09
select
Lakeside.

Upstream.
Deion stream.

N-4100
N-4000
N-3900
N-3800
N-3700
N-3600
N-3500
N-3400
N-3800
N-3200
N-3100
N-3000

Axis of
Dam.

Date. Staff.

Oct. 10th 3rd.

Oct. 11th 3rd.

Oct. 12th 3rd.

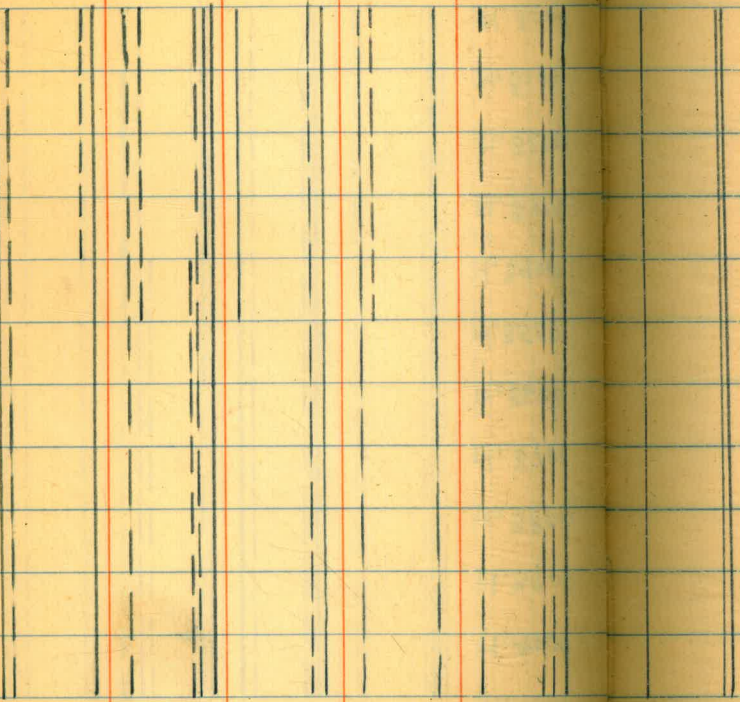
Oct. 13th 3rd.

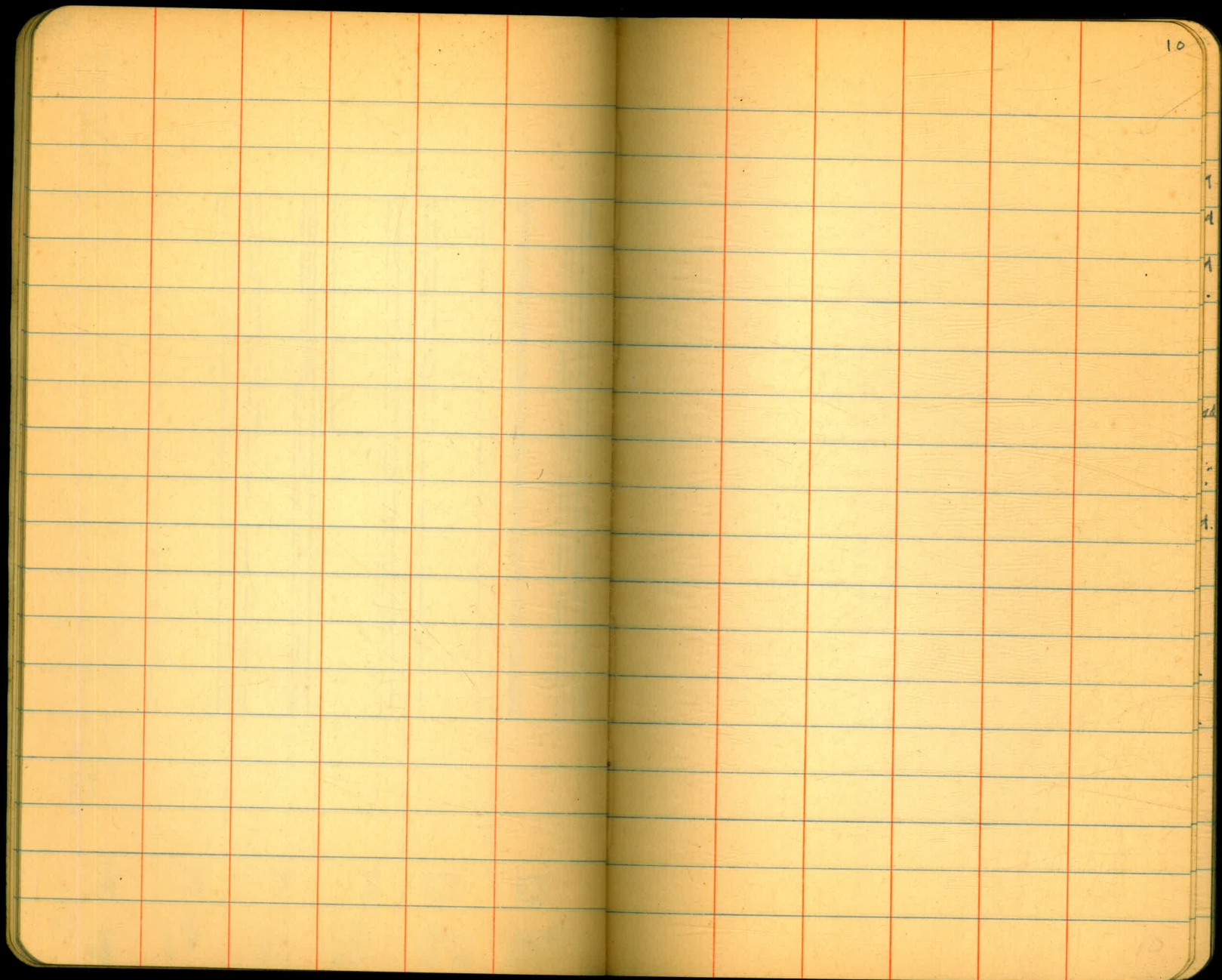
Oct. 15th 3rd.

Oct. 18th 3rd.

Oct. 19th 3rd.

Oct. 20th





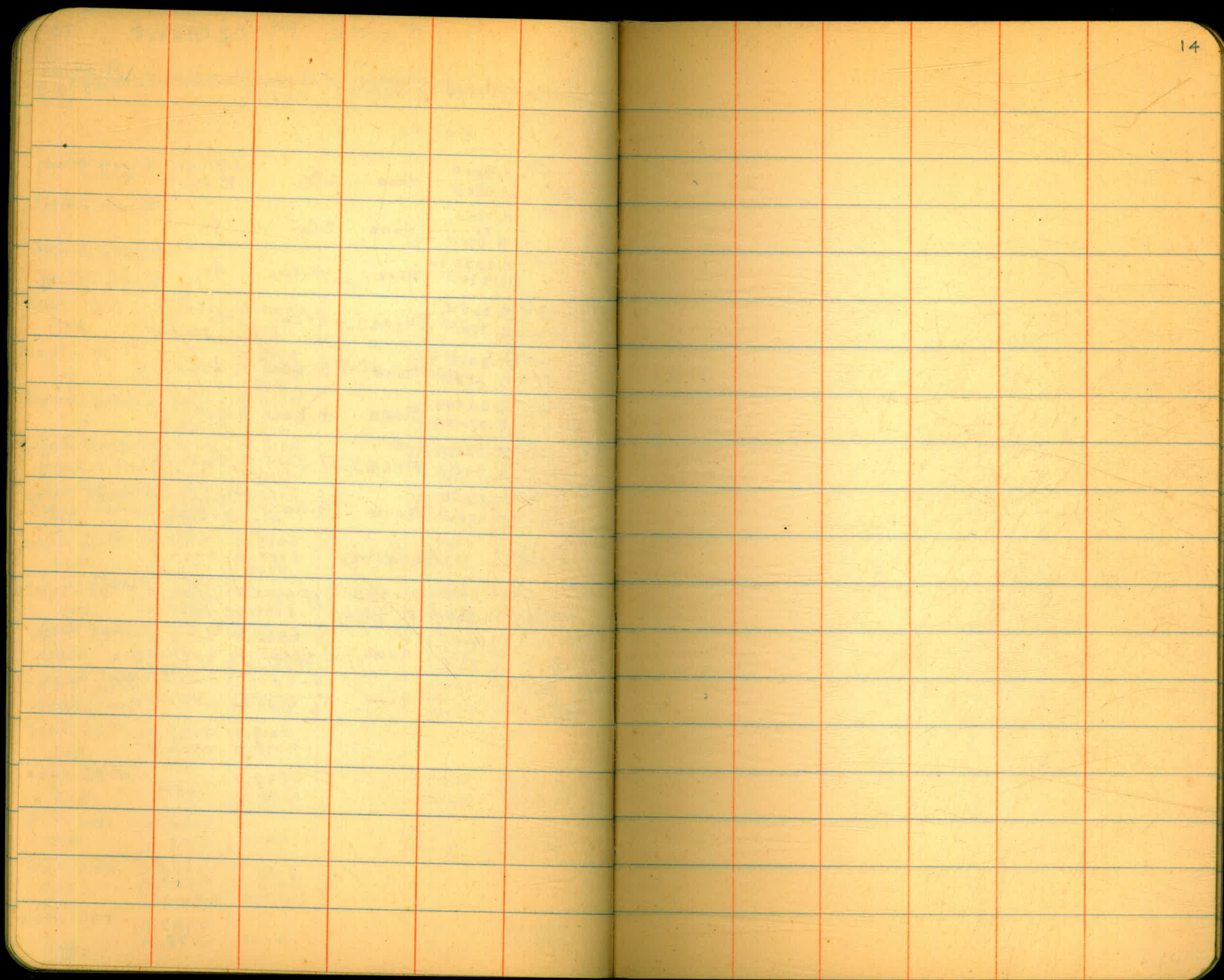
— Rock Placement. —

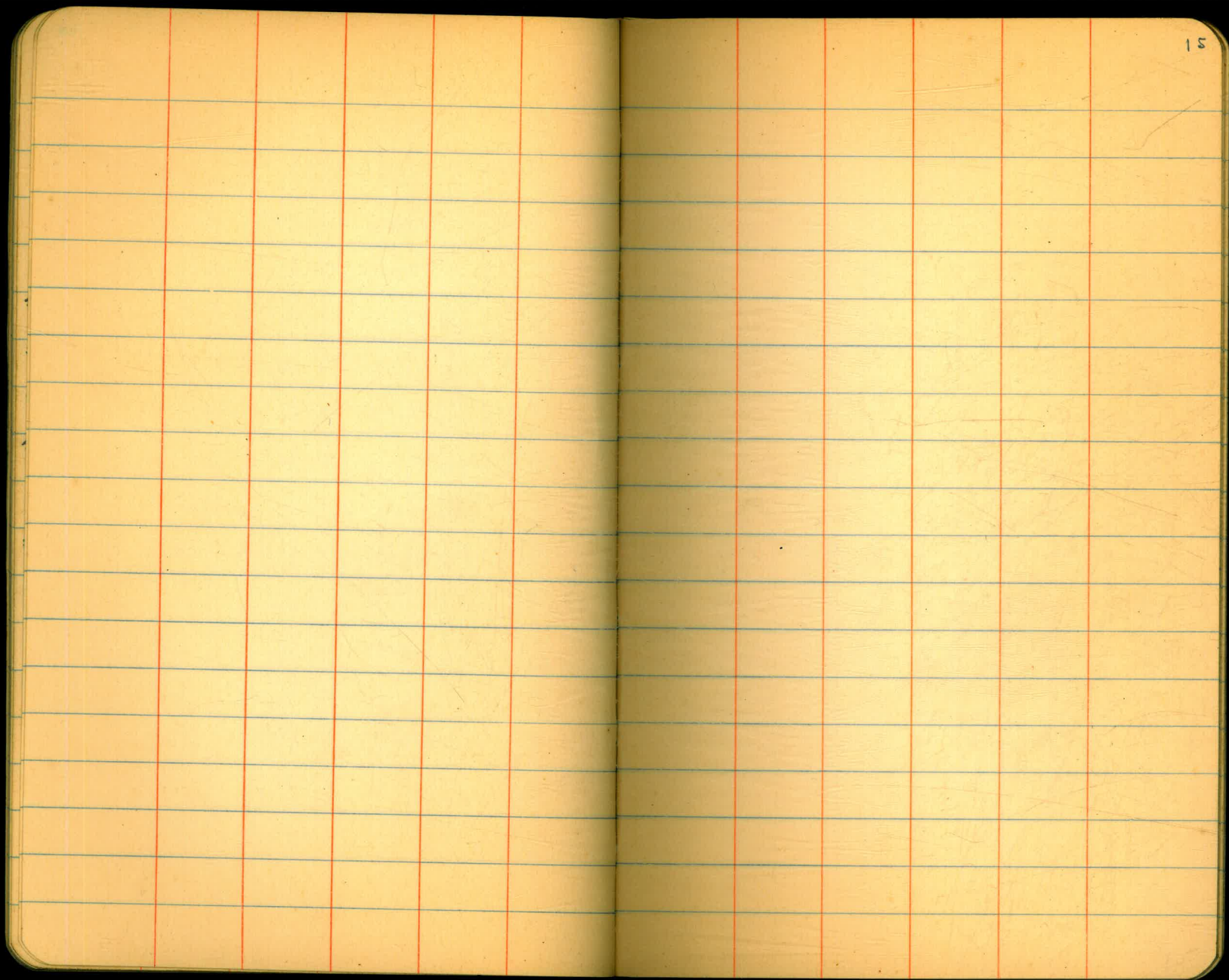
12

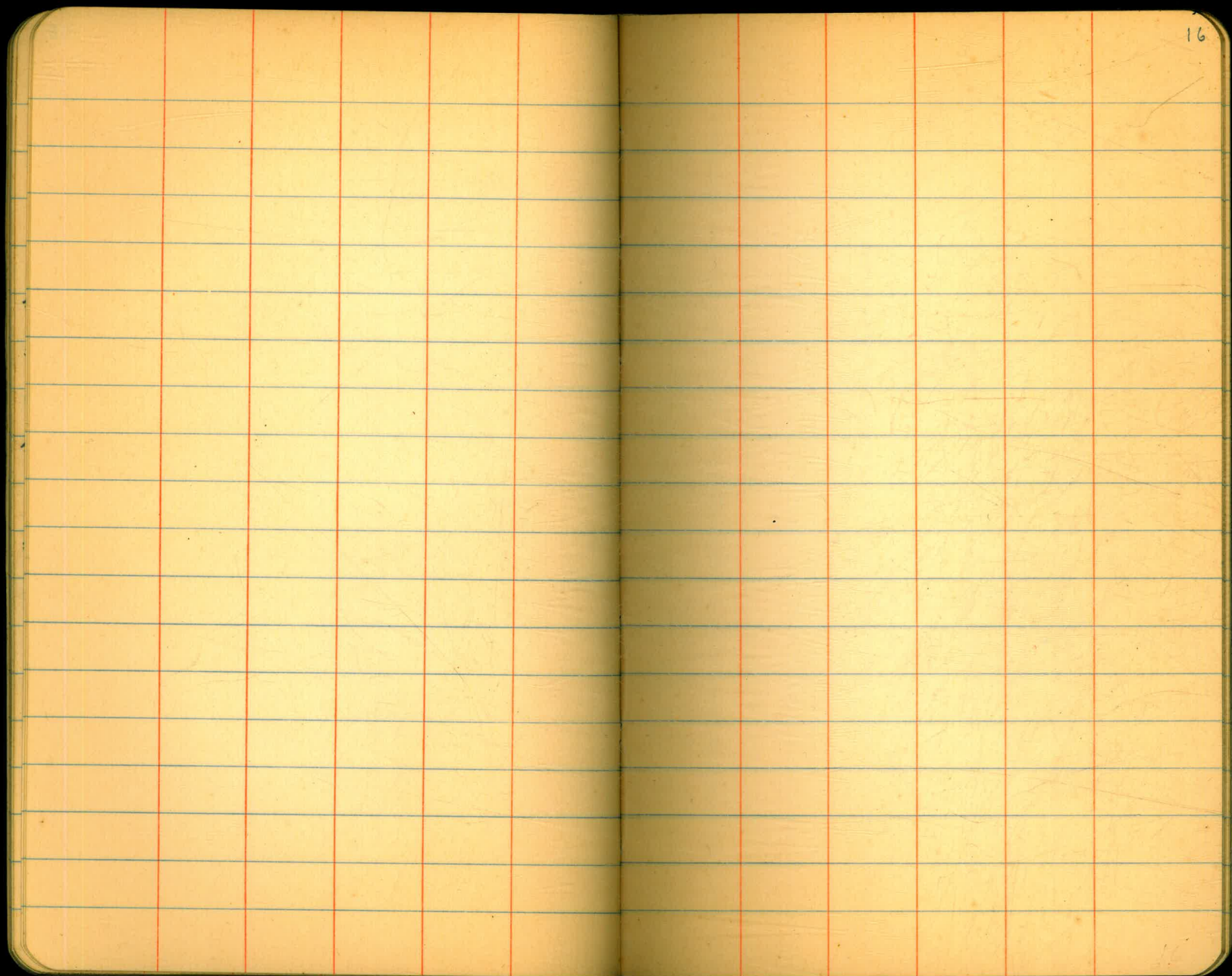
Date & Shift	Upstream	Down-Stream	No. Trucks	Hours	Remarks
Aug-26 th 3rd.					
8/27-3rd					
8-28-3rd					
8-29-3rd		N. 3800 H. 4000			"Hard Rock"
8-30-3rd					
8-31-3rd					

Date & Shift.	Upstream	Down-Stream	No. Trucks	Hrs.	Remarks.
Sept. 18 3rd.	"3loads Spillway."	across "Big"	8. Co	8-hrs.	Random Dumped.
Sept. 19 3rd	None	N. 3100 N. 3400 "Big"	8. Co.	11-PM 7-AM	Random Dumped.
Sept. 20th 3rd.	N. 3100 N. 3200 Both.	N. 3100 N. 3200 "Big"		11-PM. 7-AM.	Random Dumped Upstream.
Sept. 21st 3rd.	N. 3100 N. 3200 "Big"	N. 3100 N. 3400 "Finish."	9. Co.	11-PM. 7. AM.	Random Dumped Down Stream
Sept. 22nd. 3rd.	N. 3900 N. 4000 Big	N. 3100 N. 3500 Finish		11-PM 12 ³⁰ AM.	Random Dumped Down Stream.
Sept. 24th 3rd.	N. 3800 N. 4000 "Big"	N. 3100 N. 3400 Both.		11-PM 12 ³⁰ AM.	Random Dumped.
Sept. 25th 3rd.	N. 3800 N. 3950	Random across.		11-PM 12 ³⁰ AM	only 200 lbs total.
Sept. 26th 3rd.	N. 3700 N. 4000 Big Rock	N. 3800 N. 3600 "Finish"			Random Dumped.
Sept. 27th 3rd	across	Across			Where Needed.
Sept. 28th 3rd.	N. 3800 N. 4000	N. 3100 N. 4000			
Sept. 29th. 3rd.	None.	N. 3850 N. 3900		11 PM to 12 ³⁰ AM	Random Dumped.
Oct. 1st. 3rd.	N. 3500 N. 3100	None		11 PM to 12 ³⁰ AM	Random Dumped.
Oct 2nd. 3rd.	N. 3200 N. 3300 "Finish Rock"	N. 3800 N. 3900 "Big" Rock			
Oct. 3rd 3rd.	N. 3400 N. 3800	None		11 PM to 1 ³⁰ AM.	Random Dumped.

Rock Placement. 13					
Date & Shift.	Upstream	Down-stream	No. Trucks	Hours.	Remarks.
Oct. 4th 3rd.	None.				
Oct. 5th 3rd.	N. 3600 N. 3500	None	6. Co.	11-PM to 12 ³⁰ AM.	5-Loads Spillway Rock.
Oct. 6th 3rd.	N. 3600 to N. 3400	None	7. Co.	do	Random Dumped
Oct. 9th 3rd.	N. 3050 to N. 3300	None.	10. Co.	do	Random Dumped 8 Loads Spillway.
Oct. 10th 3rd	N. 3650 N. 3700	None	8- Co.	do	
Oct. 11th 3rd.	N. 3400 N. 3500	None	5- Co.	do	
Oct. 12th 3rd.	N. 3400 N. 3700	None	4. Co.	do	Random Dumped
Oct. 13th 3rd	N. 3800 N. 3200	None.	7. Co.	do	Random Dump. Finish & Heavy.
Oct. 15th 3rd.	N. 3600 N. 3900	None.	9. Co.	11-PM to 2-AM.	Heavy & Finish Random Dumped.
Oct. 16th					
Oct. 17th	Absent.				
Oct. 18th 3rd.	N. 3400 N. 3500	N. 3800 N. 3900	8- Co.	11-PM to 2-AM.	"Finish" Size
Oct. 19th 3rd	N. 3600 N. 3650 N. 3900 N. 3800	None	11- Co. 5- Co.	11- to 2. 2 to 7	"Finish" Rock "Big" Rock
Oct. 20th 3rd.	N-3200 N-3900	None	9- Co 6- Co	11 to 12 ³⁰ 1 to 7.	"Big" Rock "Finish" Rock







The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '18' in the top right corner. The notebook is laid flat, and the pages are completely blank, with no writing or markings other than the printed lines and the page number.

1934

Date &
Shift.

Equipment used on Dam

Rent
TrucksCompany
Trucks

Shovels

Drag-
Lines

Pumps

8c Hours in Service

60-Cat.
Bulldozers30 Cat.
BulldozersRolls &
Road-
Scrapers60-Cat. &
McMillanWater-
streams

19

8-27-3rd

25/
8hrs.6/
8hrs.#8-3hrs
#6-5hrs#11-8hrs
(Lakeside)1- Astaq
8 hrs

3- 8hrs

2- 8hrs

2- 8hrs.
1- 4hrs.

8-28-3rd

1934 Date & Shift.	Equipment used on					Dam & Hours in Service.				
	Rent Trucks	Company Trucks	Shovels	Drag- Lines	Pumps	60-Cat. Bulldozers.	30.-Cat. Bulldozers	Rolls & Road- Scrapers	60.-Cat. & McMillan	Water Streams
8-29-3rd	24/8hrs	7/8hrs.	#6-8hrs. #9-8hrs.	#11/8hrs.	(1)-4Stage 8 hrs.	3/8hrs.		2-8hrs ↓	↓	2-8 hrs 1-8hrs.
8-30-3rd	33/8hrs		#6-8hrs. #9-8hrs.	#11-8hrs (Lakeside)	d/o	3/8hrs.		2-8hrs	1-2hrs.	2-8hrs 1-5hrs

1934 Date &c Shift.	Equipment			used on		DAM &c. Hours in Service.				
	Rent Trucks	Company Trucks	Shovels	Drag- Lines.	Pumps	60-Cat. Bulldozers	30-Cat. Bulldozers	Rolls & Road Scrapers	McMillan 60-Cat.	Water Streams.
9/18 - 3rd	16/8hrs	3/8hrs	#7-8hrs #9-8hrs	#11-8hrs	(1) 4-stage 8hrs.	3/8hrs		1-8hrs. 1-8hrs.		(2)-8hrs.
9/19 - 3rd.	9/2 1/2	3/8	#9-2 1/2hrs #7-8hrs		do	1-8hrs 1-2hrs		1-8hrs. 1-2hrs.	1-4hrs	(2)-4hrs
9/20 - 3rd.	10/8	3/8	#9-8hrs #11-8hrs		do	2-8hrs		1-8hrs. 1-1-hr.	1-2hrs	(2)-8hrs
9/21 - 3rd	9/8	-	#9-8hrs		do	2-8hrs		1-8hrs. 1-1-hr.	1-1-hr.	(2) 7hrs.
9/22 - 3rd	7/5hrs	2/5hrs	#7-5hrs #9-5hrs		(1)-4-Stage 5-hrs.	1-5hrs.		1-5hrs		1-5hrs.
9/24 - 3rd	7/8hrs	3/8hrs.	#7-8hrs #8-8hrs		(1)-4-Stage 8-hrs.	2-8hrs		1-8hrs. 1-1-hr.	1-2hrs	1-4hrs.
9/25 - 3rd.	8/8hrs.		#8-8hrs	#10- 4-hrs.	(1)-4-Stage 4-hrs	2-8hrs.		1-4hrs	1-1-hr	1-4hrs.
9/26 - 3rd.	6/8hrs.	3/8hrs	#7-8hrs #8-8hrs		(1) 4 stage 8-hrs	2-8hrs.		1-8hrs ✓	1-1-hr	1-8hrs.
9/27 - 3rd.	8/8hrs	3/8hrs	#7-8hrs	#11-8hrs	1- do	2-8hrs.		1-6hrs ✓	✓	do
9/28 - 3rd	7/8hrs.	2/8hrs.	#7-8hrs	#11-8hrs	1- do	2-8hrs.		1-6hrs. 1-1-hr.	1-2hrs	do
9/29 - 3rd	7/8hrs.	2/8hrs.	#7-8hrs. #8-5hrs.		1- do	2-8hrs.		1-6hrs ✓	1-2hrs	do
Oct. 1st 3rd Shift.	7/8-hrs	2/5hrs	#7-5hrs #8-8hrs		1-4 stage 6-hrs.	2-8hrs.		1-6hrs ✓	1-4hrs.	1-6hrs.
10/2 - 3rd.	7/8-hrs.	3/8hrs.	#7-4hrs #11-7hrs #8-8hrs		1-4 stage 3-hrs	2-8hrs.		1-4hrs. 1-2hrs.	1-1-hr.	1-3hrs.
10/3 - 3rd.	7/8hrs.	3/8hrs	#7-8hrs. #11-8hrs.		1-4 stage 5-hrs	2-5hrs.		1-8hrs 1-3hrs	1-2hrs	2-4hrs
10/4 - 3rd	10/8hrs	3/8hrs	#8-8hrs #11-8hrs		1-4 stage 8-hrs.	2-7hrs.		1-7hrs 1-1-hr.	1-1-hr.	1-7hrs. 1-3hrs.
10/5 - 3rd	8/8hrs	3/8hrs.	#6-8hrs #11-8hrs #8-8hrs		do	2-7hrs		1-8hrs ✓	1-3hrs	1-8hrs
10/6 - 3rd	8/4hrs.	3/4hrs	#6-4hrs #11-4hrs #8-4hrs	#10/ 2hrs	1-4 stage 4-hrs	2-4hrs		1-5hrs ✓	1-1-hr	1-4hrs.
10/9 - 3rd	10/8hrs.	1/8hrs	#6-8hrs #7-8hrs #8-8hrs		1-4 stage 8-hrs.	2-7hrs		1-8hrs 1-1-hr	1-2-hrs	1-7hrs

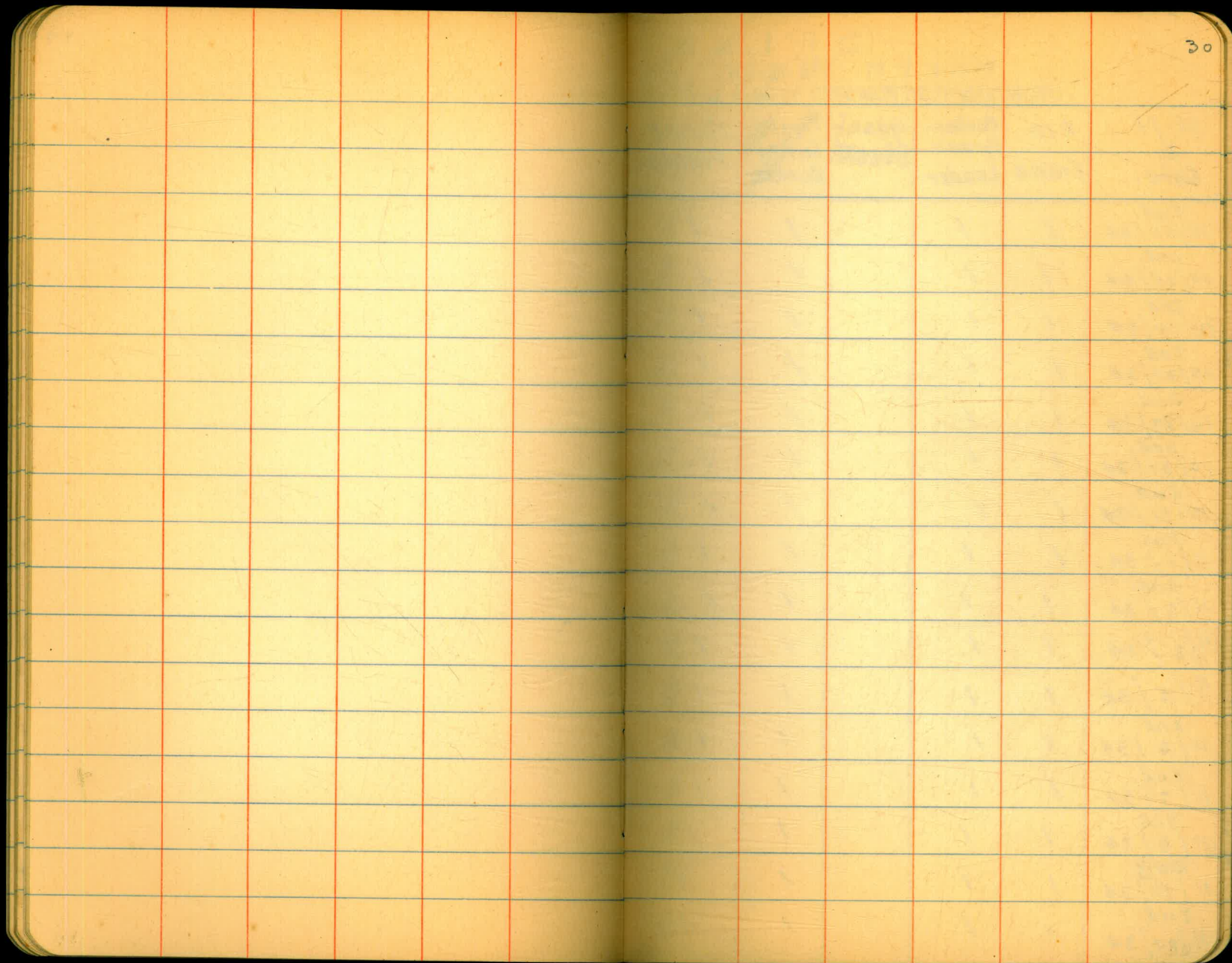
22

1934	Equipment used on				Dam	& Hours in service.				
Date & Shift.	Rent Trucks	Company Trucks	Shovels	Drag-lines	Pumps	60. Cat. Bulldozers.	30 Cat. & Rolls	40. Cat. Road-Scraper.	60. Cat. McMillan	Water Streams
Oct-10-3rd.	8/8hrs	3/8hrs	#7-8hrs #8-8hrs		1-Astaga 8-hrs.	1-4hrs 1-7hrs	1/7hrs	1/1hr	1/1hr	1-8hrs.
10/11-3rd	9/8hrs	2/8hrs	#7-7hrs #8-8hrs		do	1-7hrs	1-5hrs	-	1-3hrs	1-7hrs.
10/12-3rd	8/8hrs	-	#11-4hrs #8-4hrs		do	2-8hrs	1-8hrs	1-1hr	1-2hrs	1-8hr.
10/13-3rd	7/8hrs	-	#8-8hrs		do	do	do	-	1-1hr	1-7hrs
10/15-3rd	8/8hrs	-	do		do	do	do	-	-	1-8hrs.
10-16- Absent										
10-17- No work - Rain.										
10-18-3rd	4/8hrs	-	#11-8hrs		1-Astaga 8-hrs.	1-8hrs 1-3hrs.	1-6hrs	1-2hr	1-4hrs	1-8hrs.
10-19-3rd			#11-3hrs			1-8hrs	-	-	1-1hr	-
10-20-3rd						1-6hrs			1-2hrs	

Man & Hours on Dam.

Date & Shift.	Supt. & Foremen	Chackers	Man & Hours			on Dam.				
			Hosamen	Cat. Operators	Dump-men.	Shovel Runners	Oilers	Truck-man	Laborers	
Sapt-7th 3rd.										
9-8-3rd										
9-10-3rd										
9-11-3rd										
9-12-3rd										
9-13-3rd										
9-14-3rd										
9-15-3rd										
9-17-3rd										
9-18-3rd	1-8hrs 2-8hrs	2-8hrs	2-8hrs	4-8hrs	2-8hrs	3-8hrs	2-8hrs	19-8hrs		
9-19-3rd	1-8hrs 2-8hrs	1-8hrs	2-8hrs	3-8hrs	1-8hrs	1-2 1/2 hrs. 1-8hrs	1-2 1/2 hrs. 1-8hrs	9-2 1/2 hrs 3-8hrs		
9-20-3rd	do	do	2-8hrs	4-8hrs	2-8hrs	2-8hrs	1-8hrs	13-8hrs		
9-21-3rd	do	do	do	3-8hrs	do	1-8hrs	1-8hrs	8-8hrs		
9-22-3rd	1-8hrs 2-5hrs	1-5hrs	2-5hrs	3-5hrs	2-5hrs	2-5hrs	2-5hrs	9-5hrs		Rain 4AM. Shut Down.
9-24-3rd	1-8hrs 2-8hrs	1-8hrs	1-8hrs	3-8hrs	2-8hrs	2-8hrs	2-8hrs	10-8hrs		
9-25-3rd	do	do	1-8hrs	4-8hrs	1-8hrs	1-4hrs 1-8hrs	1-4hrs 1-8hrs	8-8hrs		
9-26-3rd	do	do	1-8hrs	3-8hrs	1-8hrs	2-8hrs	2-8hrs	9-8hrs		
9/27-3rd	do	do	1-8hrs	3-8hrs	2-8hrs	2-8hrs	1-8hrs	11-8hrs		

Date & Shift.	Supt. & Foreman.	Chackars	Men & Hours			on Dam.			Laborers	27
			Hose-man.	Cat. Operators	Dump Men	Shovel-Runners	Oilers	Truck-men		
9-28-3rd	1-8hrs 2-8hrs	1-8hrs	1-8hrs	3-8hrs	2-8hrs	2-8hrs	1-8hrs	9-8hrs.		
9-29-3rd	do	do	do	4-8hrs	1-8hrs	2-8hrs	2-8hrs	10-8hrs		
Oct-1st. 3rd.	do	do	do	do	do	do	do	9-8hrs.		
10-2-3rd	do	do	do	3-8hrs.	2-8hrs.	3-8hrs.	3-8hrs	10-8hrs		
10-3-3rd	do	do	do	do	do	2-8hrs	2-8hrs	10-8hrs		
10-4-3rd	do	do	do	do	do	2-8hrs	2-8hrs	13-8hrs		
10-5-3rd	do	do	do	do	do	2-8hrs	2-8hrs	11-8hrs		
10-6-3rd	do	do	do	do	do	do	do	do		
10-9-3rd	do	do	do	do	do	3-8hrs	3-8hrs	do		
10-10-3rd	do	do	do	do	do	2-8hrs	2-8hrs	do		
10-11-3rd	do	do	do	do	do	2-8hrs	2-8hrs	do		
10-12-3rd	do	do	do	do	do	1-8hrs	1-8hrs	8-8hrs.		
10-13-3rd	do	do	do	do	do	1-8hrs	1-8hrs	7-8hrs		
10-15-3rd	do	do	do	do	do	1-8hrs	1-8hrs	8-8hrs		
10-16-3rd	do									
10-17-3rd	— No Work - (Rain.)									
10-18-3rd	do	1-8hrs	1-8hrs	3-8hrs	2-8hrs.	1-8hrs	1-8hrs	6-8hrs		
Oct-19 3rd Shift.	1-8hrs 1-8hrs	None.	None	1-8hrs	1-8hrs	1-8hrs (quarry)	1-8hrs (quarry)	11-3hrs 5-5hrs		
Oct-20 3rd Shift.	1-8hrs —	—	—	1-8hrs	1-8hrs	do	do	9-1 1/2hrs 6-6hrs		



S P I L K W A Y.
North Wall & Floor.
EQUIPMENT USED ON CONCRETE WORK.

Shift & Date.	#10 Crane	Barber-Green Loader	Gas Shovel	Trucks Serving Bunkers	Mixing plants	Transit Mixers	Air Compressors	Jack-Hammers				
2nd. 10/24/34	1	1		1	1	2						
2nd. 10/25/34	1	1		1	1	2						
2nd. 10/26/34	1	1		1	1	2						
2nd. 10/27/34	1	1		1	1	2						
2nd. 10/29/34	1	1		1	1	2						
2nd. 10/30/34	1	1		1	1	2						
2nd. 10/31/34	1	1		1	1	2						
2nd. 11/1/34	1	1		1	1	2						
2nd. 11/2/34	1	1		1	1	2						
11/3/34	1	1		1	1	2						
11/5/34	1	1		1	1	2						
2nd. 11/6/34	1	1		1	1	2						
2nd. 11/7/34	1	1		1	1	2						
2nd. 11/8/34	1	1		1	1	2						
10th day 11/10/34	1	1		1	1	2						
2nd 11/10/34	1	1		1	1	2						

SPILK WAY
North Wall. 8c Floor

EQUIPMENT USED ON CONCRETE WORK.

Shift & Date.	#10 Crane	Barber-Green Loader	Gas Shovel	Trucks Serving Bunkers	Mixing Plants	Transit Mixers.	Air Compressors	Jack Hammers.
2nd 11/11/34	1	1		1	1	2		
2nd 11/12/34	1	1		1	1	2		
2nd 11/13/34	1	1		1	1	2		
2nd 11/14/34	1	1		1	1	2		
2nd 11/15/34	1	1		1	1	2		
2nd 11/16/34	1	1	1	1	1	2		
2nd 11/17/34	1		1	1	1	2		
2nd 11/19/34	1		1	1	1	2		
2nd 11/20/34	1		1	1	1	2		
2nd 11/21/34	1				1	1		
2nd 11/22/34	1							
2nd 11/23/34	1				1	2		
11/24/34	1						1	2
additional 11/9/34	1	1		1	1	2		

SPILLWAY. North Wall & Floor - Labor - Placing & Mixing Concrete. 33

Shift & Date	Concrete Crew						Labor - Placing & Mixing Concrete					
	Foreman	Crane Operator	Bucket-men	Transit Mixer-men	Finishers	Laborers	Tambers	Carpenters	Foremen	Mixing Laborers	Plant Crew	Truck-men
2nd 10-24-34	1	1	1	2	2	2	3	1	1	2		1
2nd. 10-25-34	1	1	1	2	2	3	3		1	2		1
2nd. 10-26-34	1	1	1	2	2		3		1	2		1
2nd 10-27-34	1	1	1	2		3			1	2		1
2nd 10-29-34	1	1	1	2		3	1		1	2		1
2nd 10-30-34	1	1	1	2		3	1		1	2		1
2nd 10-31-34	1	1	1	2			3	1	1	2		1
2nd 11-1-34	1	1	1	2			3	1	1	2		1
2nd 11-2-34	1	1	1	2			3	1				
2nd 11-3-34	1	1	1	2			3	1	1	2		1
2nd 11-5-34	1	1	1	2	2	2	3	1	1	2		1
2nd 11-6-34	1	1	1	2	2	2	3	1	1	2		1
2nd. 11-7-34	1	1	1	2	2	2	3	1	1	2		1
2nd 11-8-34	1	1	1	2			3	1	1	2		1
1st & 2nd 11-9-34	1	1	1	2			3	1	1	2		1
1st. 11-10-34	1	1	1	2			3		1	2		1
2nd. 11-10-34	1	1	1	2	2	2	3	2	1	2		1

SPILLYYAY -
Labor. Placing and Mixing

NORTH WALL & FLOOR.
Concrete.

34

Shift or Date.	Concreting Crew								Mixing Plant Crew			
	Foreman	Crane Operator	Bucket- man	Transit Mixer- men	Finishers	Laborers	Timbers	Carpenters	Foreman	Laborers	Shovel Runners	Truck man
2nd 11-11-34	1	1	1	2		2	3	1	1	2		1
2nd 11-12-34	1	1	1	2			2	2	1	2		1
2nd 11-13-34	1	1	1	2		2	3	2	1	2		1
2nd 11-14-34	1	1	1	2		2	3	2	1	2		1
2nd 11-15-34	1	1	1	2	2	2	3	1	1	2		1
2nd 11-16-34	1	1	1	2	2		3	2	1	2	1	1
2nd 11-17-34	1	1	1	2	2	1	3	1	1	2	1	1
2nd 11-19-34	1	1	1	2	1	2	3	2	1	2	1	1
2nd 11-20-34	1	1	1	2	1	2	3	1	1	2	1	1
2nd 11-21-34	1	1	1	1		2	3	2	1	2		
2nd 11-22-34	1	1				8		3				
2nd 11-23-34	1	1	1	2			3	2	1	2		
3rd 11-24-34	1					6		1				
3rd 11-25-34	1					4		2				
3rd 11-26-34	1					6						

Concrete Placed

	Cement Used. Total.	Mixes	Water per Batch	Batches Placed.	Wall Section	Area.	Over-Break	Floor Area	Sacks cleaned & Bailed	Cement recovered (Sacks)
	384	6/1-2-5	40 Gal.	54				6+20 6+50	30x60	
10-24-34		6/1-2-4	44 Gal.	16	19	3x24				
2nd Shift		6/1-2-5	44 Gal.	28	6+61 to 6+85	6x24	yes.			
4PM to 2:30 AM.		7/1-2-4	46 Gal.	16	19	3x24				
		Groot		4	19 & 6+61 to 6+85				750	
10-25-34		6/1-2-4	42 Gal.	20	2nd lift 6+61 to 6+85	6x24				
2nd Shift	690	6/1-2-5	43 Gal.	28	1st lift 6+25 to 6+61	6x36	yes.			
3-PM to 2-AM.		6/1 Tunnel Mix	39 Gal.	59				5+25 6+25	40x100	750
		Groot		3						
<p>Note - 6/1 Tunnel Mix = 6 sacks Cement - 1400# Sand - 160# Pea - 540# 3/4" Rock - 890# 1 1/2" Rock - 740# 2 1/2" Rock</p> <p>Note - 6 Sack Cement - Patching Side Wall this includes - past 3 days.</p> <p>12 - Sack Cement used Grooting Anchors;</p>										
10-26-34		6/1-2-4	42 Gal.	40	2nd lift 6+25 4th lift 6+61 Bottom #19	6+61 (6x36) 6+85 (6x24) (4x24)				
2nd Shift	403	7/1-2-4	39 Gal.	8	Bottom lift #19	(2x24)	yes	6+61	10x20	650
3 PM To Midnight.		6/1 Tunnel Mix	43 Gal.	12						9

CONCRETE PLACED	Cement Used Total	Mix	Water per Batch	Batches Placed	Wall Section No.	Area	"overbrak" Floor	Area	Sacks cleaned & Bailed	Sacks ³⁶ Cement Recovered.
10-27-34 2nd Shift 3-PM to Midnight.	407	6/1-2-4 6/1-2-5 6/1-2-4	39-Gal 43-Gal 39-Gal.	26 16 20	5th lift. 6+02.6+77 3rd lift - 6+22.6+62 3-Raise on End Wall	Transition	Yes.	Lower Spillway 6'x65'	400	
		Note.	Placed	65 lin. ft.	4" Drain Tile					
10-29-34 2nd Shift 3-PM to 12:45 AM	405	6/1-2-4 6/1-2-5 Grout	42 Gal. 42 Gal. Grout	8 52 9	3rd lift #19 Top lift 6+25; 2 1/2-Raise on Transition End Wall Transition End Wall 4 #19- 6+25 to 6+45 3 2	6x45	Yes	400	10	
10-30-34 2nd Shift 3-PM to Midnight.	415	6/1-2-4 6/1-2-5 Grout	42 Gal. 42 Gal. Grout	9 56 5	4th lift Sec. 19 Transition Transition Sec. 19	6x24 End Wall End Wall 4 -1	Yes.	400		
		Note.	Placed	50 lin. ft.	4" Drain Tile					
10-31-34 2nd Shift 3PM to Midnight.	402	6/1-2-4 6/1-2-5 Grout.	42 Gal. 42 Gal. Grout.	8 34 6	} Transition Transition	End Wall End Wall	Yes. Yes.	400		
		6/Tunnel Mix	40 Gal	12	Apron above O.G. Sec.					
		6/Tunnel Mix	40 Gal	8	Floor at base of Wall 2+75 to 3+25		Lower Spillway	6 x 50		

CONCRETE
Placed

CONCRETE Placed	Cement Used Total	Mix	Water per Batch	Batches Placed	Wall Section No.	Area	Overbreak	Floor Area	Sacks cleaned & Baled	Sacks Cement Recovered.	
11-1-34 End Shift 4 PM to Midnight.	156	6/1-2-4 6/1-2-5 Grout.	43 43	8 13 6	Transition End Wall		yes		400		
11-2-34 4-PM to Midnight. 2nd Shift.	251	6/1-2-4 6/1-2-4 6/1-2-4 6/1-2-5 6/1-2-4 6/1-2-5	43 Gal.	7- 7- 7- 4- 7- 4-	#18 - #19 - #20 - #20 - (Top 2'-of) #21 - #21 - (Top 2'-of)		Yes. Yes.		200		
2nd Shift 11-3-34 3-PM to 1-AM.	448	6/1-2-4 7/1-2-4	39 Gal. 43 Gal.	56 16	2nd lift 20 & 21			3+25 3+65	500	11	
11-5-34 3 PM to 3 AM 2nd Shift	512	6/Tunnel Mix 7/1-2-5 6/Tunnel Mix	39 Gal. 42 Gal. 39 Gal.	31 4 28 17	Apron above re OG Sec. 0+50 to 1+35			3+48 3+65	16x25 700		
Placed - 3rd lift		#20+21-16 Batches		6th lift	#19-10 Batches	Grade #18			2 Batches		
11-6-34 3-PM to 12:30 AM. 2nd Shift.	559	6/1-2-4 6/1-2-5 6/Tunnel Mix	42 42 39	32 4 51	Sec. 22-1st lift 4th lift Sec 22-1st lift 2x24			3+65 4+00			
Note: Cement reported incl. 5 Sacks used for Grouting Anchors.										450	10

Note 75 lin. ft. Drain Tile Placed.

Concrete Placed.

11-7-34
4-PM to
12:30 AM.

Cement Used - 495 Sax
Water - $\left(\frac{6}{6}\right) \frac{1}{1} \frac{2}{2} \frac{4}{4}$ 42 Gal.
 $\left(\frac{6}{6}\right) \frac{1}{1} \frac{2}{2} \frac{5}{5}$

(including 4 Sax used Grooting Anchors
(6/Tunnel Mix) 39 Gal.

2nd Shift Placed in Floor 3+65 to 4+05 - 48 Batches - $\frac{6}{6}$ Tunnel Mix
" " Side Wall 5th Lift #20+21 - 12 Batches - $\frac{6}{6}$ 1-2-4
" " " " 2nd " #22 - 5 12 " $\frac{6}{6}$ 1-2-5 (4x24)
" " " " " " " " 2 4 " $\frac{6}{6}$ 1-2-4 (2x24)

500 Sax Cl + Bailed

226 Sacks Cement -

$\frac{7}{6}$ 1-2-4 - 16 Batch - 1st lift Sac-29 overbreak
 $\frac{6}{6}$ 1-2-5 - 12 " - 3rd " Sac 22 "
Sec. $\frac{6}{6}$ 1-2-4 - 5 " 0+00 to 0+10

11-8-34
2nd Shift
3-PM to
Midnight.

Apron - above O.G. Sec.

500 Sacks Cl + Bailed.

Grooting Wall Anchors - 2 Sacks Cement

Water used - $\frac{7}{6}$ 1-2-4 (42 Gal) $\frac{6}{6}$ 1-2-5 (42 Gal) $\frac{6}{6}$ 1-2-4 (42 Gal)

11-9-34
1-PM to
1-AM.
2nd Shift.

640 Sacks. $\frac{6}{6}$ Tunnel Mix - 92 Batch.
Groot - 2 Batch.

$\frac{7}{6}$ 1-2-4 - 4 Batch } 42 Gal. Water
 $\frac{6}{6}$ 1-2-4 - 8 " } 2nd " " 29

250 Sacks
cleaned.

floor - 405 to 452 - 58 Batch
565 to 620 - 34 "
Sec-29 (1) Sec-29-0)

40 lift Drain
Tile Placed

11/10/34
Day
Shift

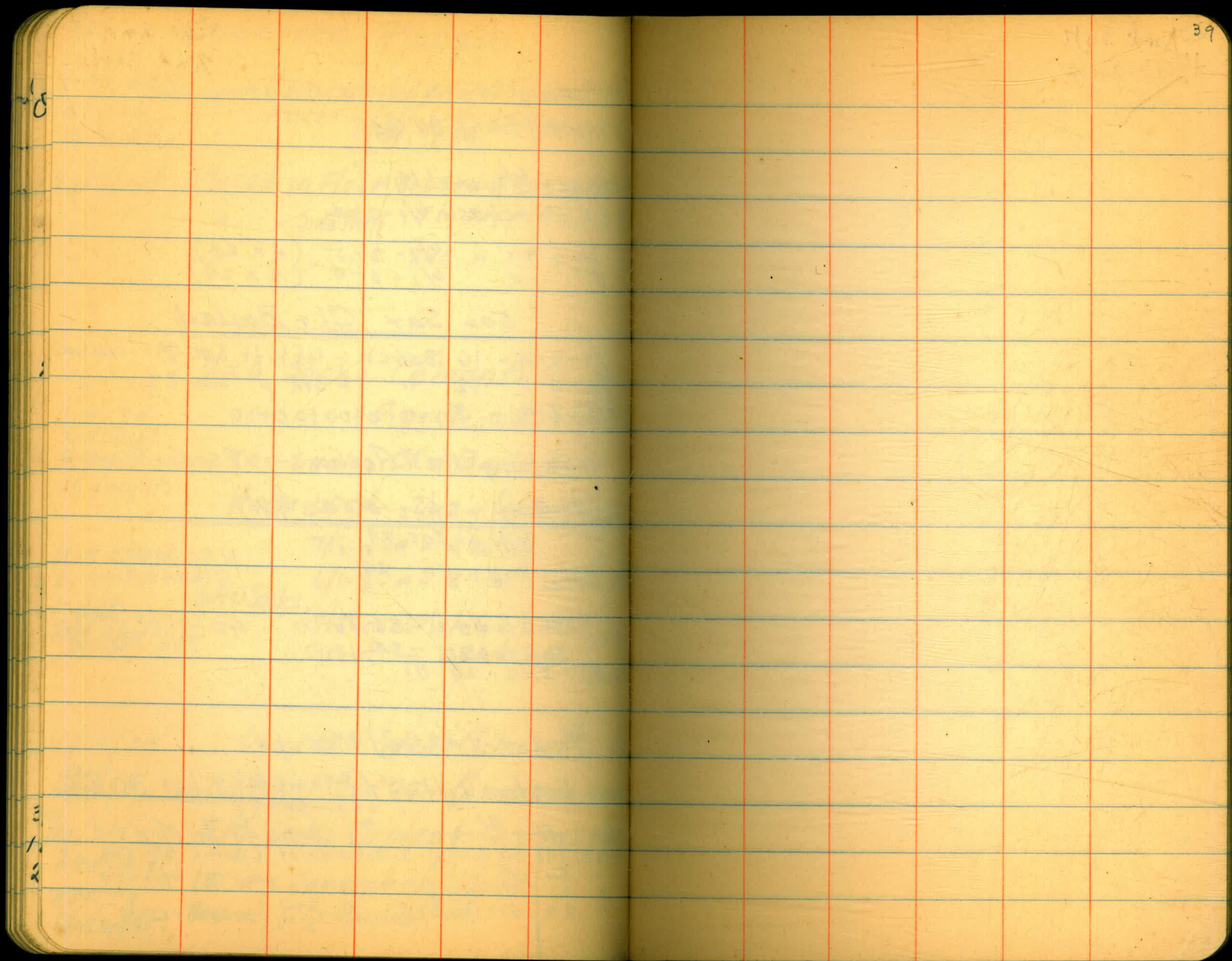
Used 180 Sacks Cement
4th lift Sec 22. (overbreak)

in $\frac{6}{6}$ 1-2-4 (42 Gal) Mix for
and bottom lift of $\left(\frac{24}{25} \frac{6}{6} \times 8\right)$ Total 30 Batch

11/10/34
2nd Shift
4PM to
Midnight.

215 Sacks Cement (42 Gal Mix)
13 Sax Cement reclaimed
800 " Cl + Bailed.

$\frac{6}{6}$ 1-2-4 - $\frac{6}{6}$ 1-2-5 - $\frac{7}{6}$ 1-2-4 (43 Gal Mix.
Sec. 19 - 7th (6x24) 2-Batch Groot 6 Batch $\frac{6}{6}$ 1-2-4
" 20 6th (6x24) 3-Groot + 10 " $\frac{6}{6}$ 1-2-4
" 21 " 6x12 }
" 22 5th (3x24) 8 - $\frac{7}{6}$ 1-2-4 } overbreak
6 - $\frac{6}{6}$ 1-2-5



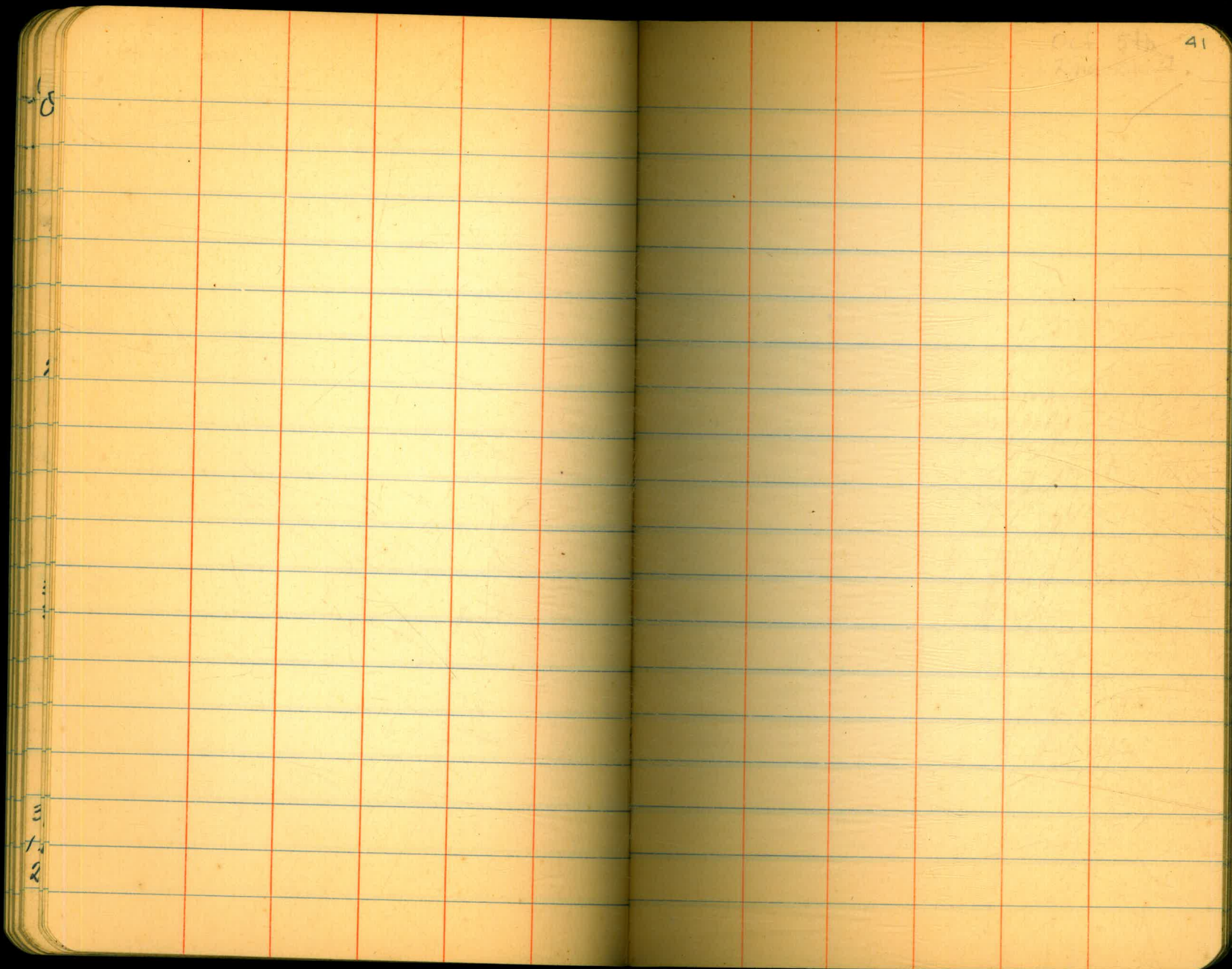
8

39

3
7
8

8

3
1
2



8

;

3
7
2

41

Oct 9th
Sun

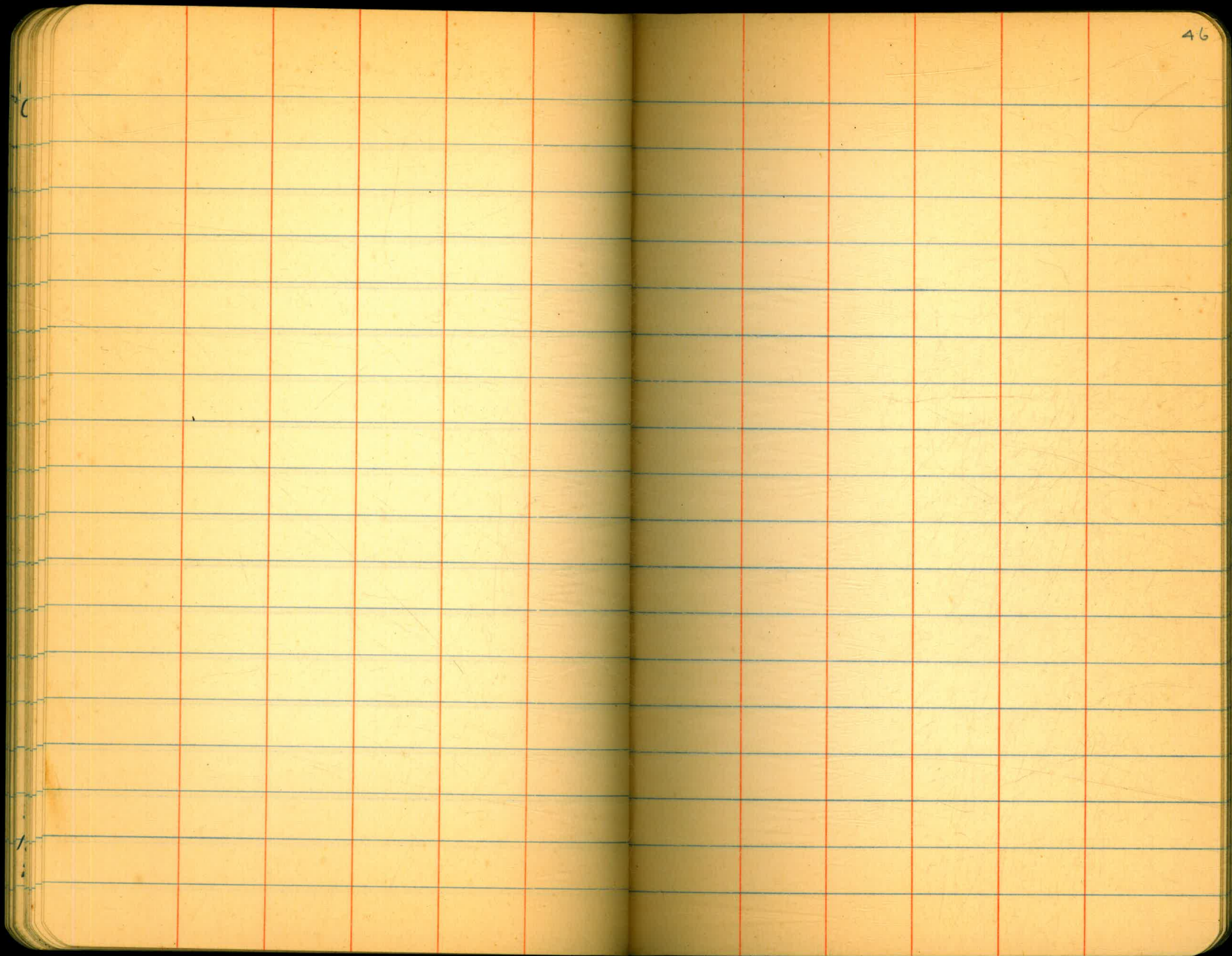
18

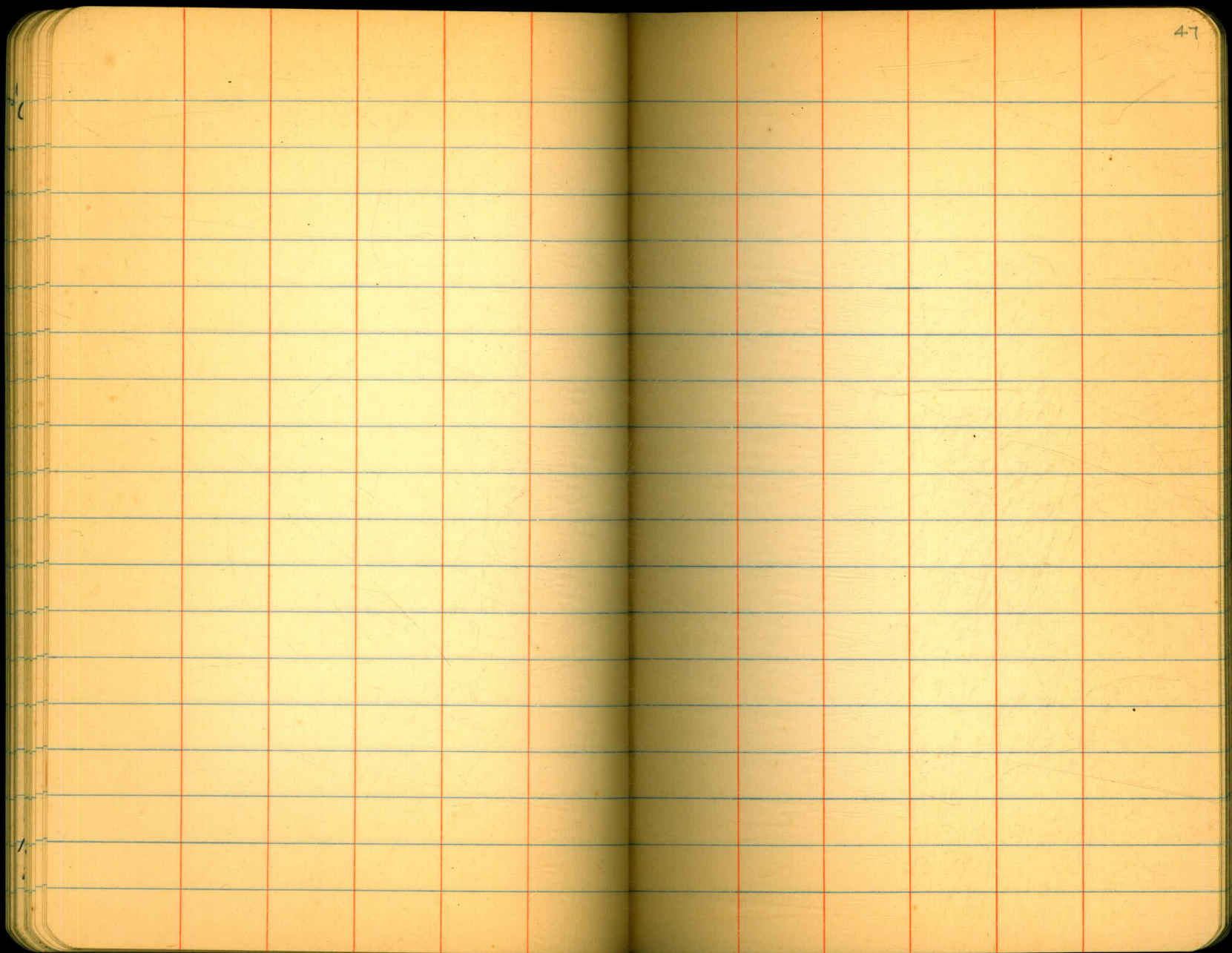
42

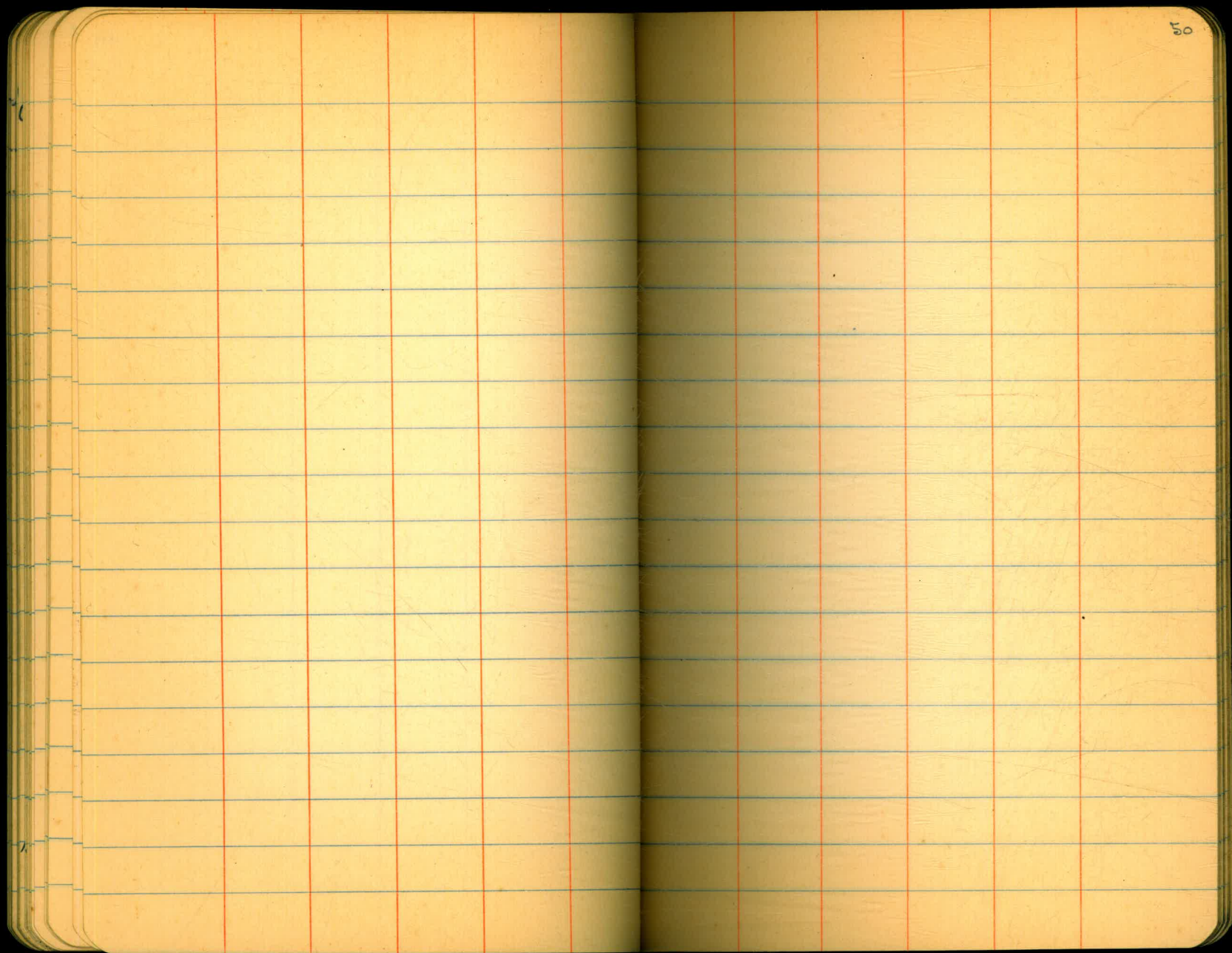
3
1
2

8

3
1
2



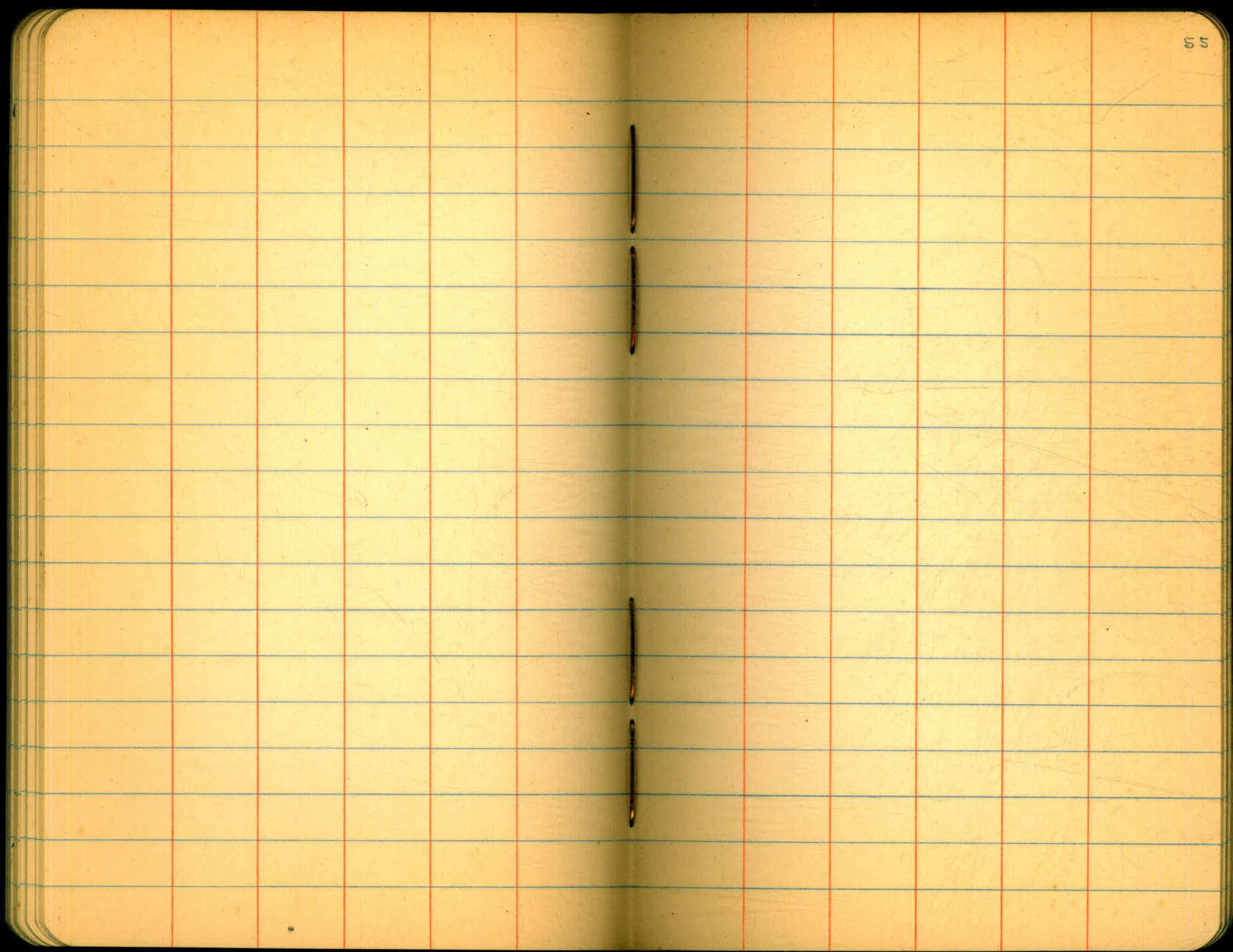


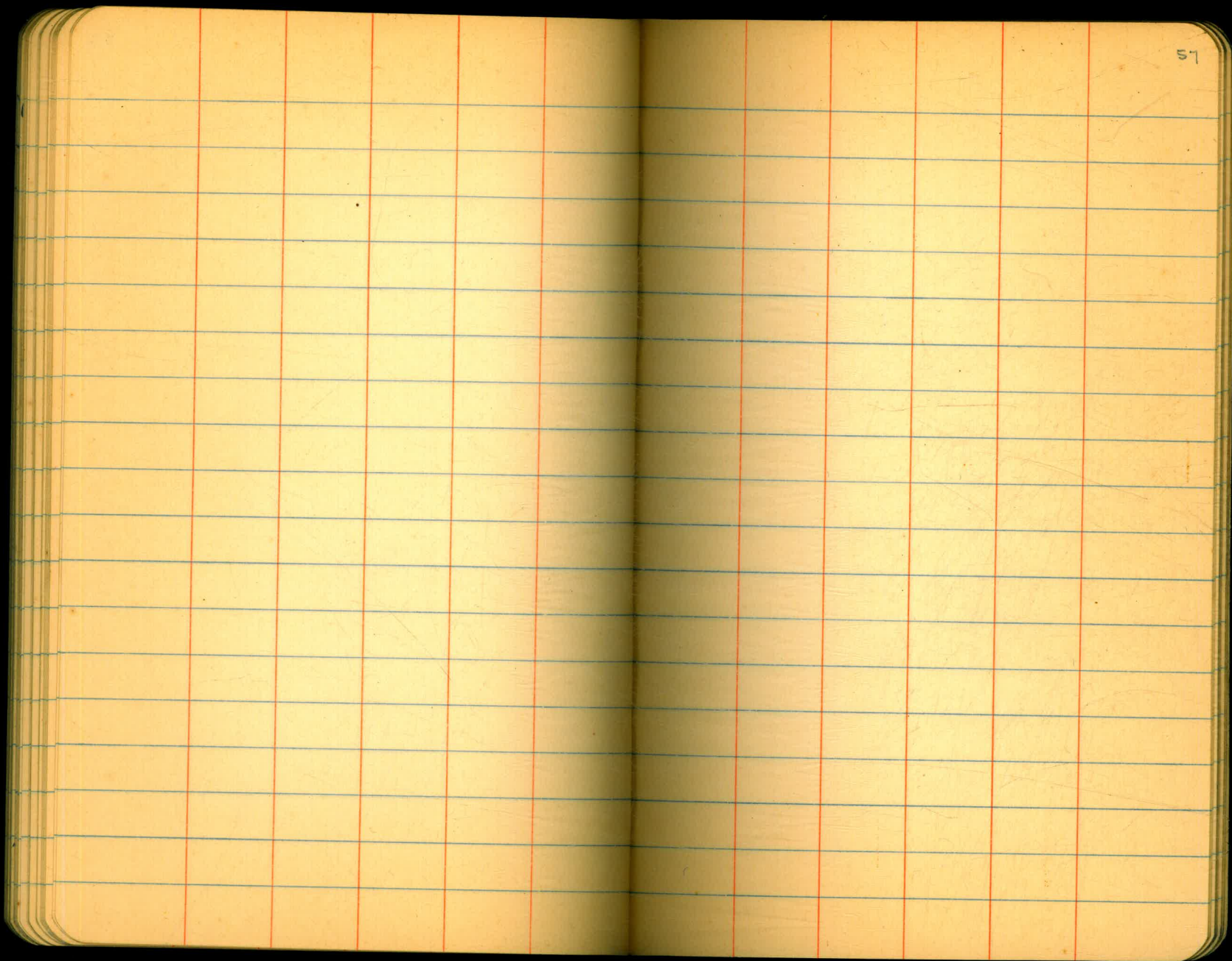


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '51' in the top right corner. The notebook is bound in the center, and the pages are slightly aged and show some minor wear.

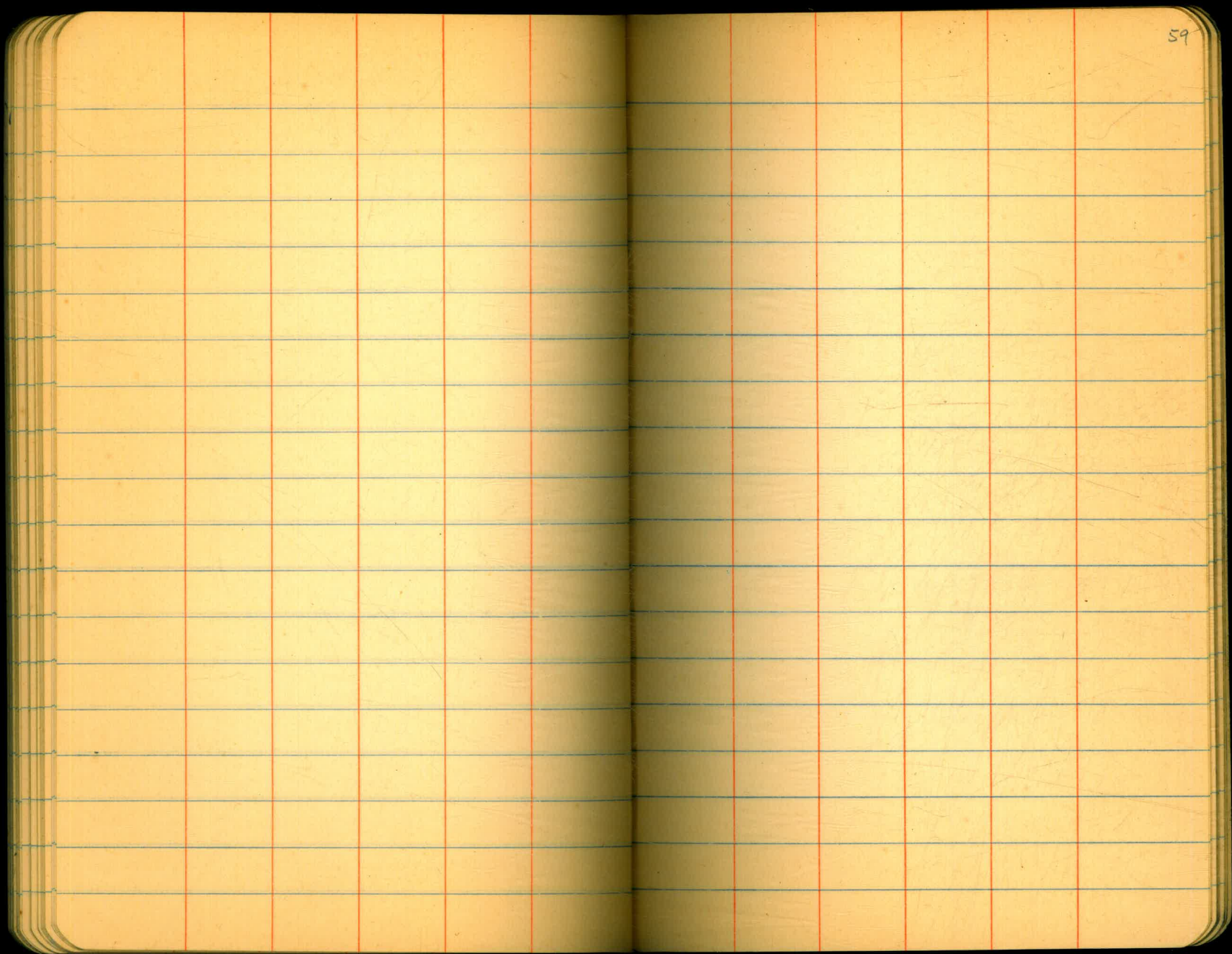
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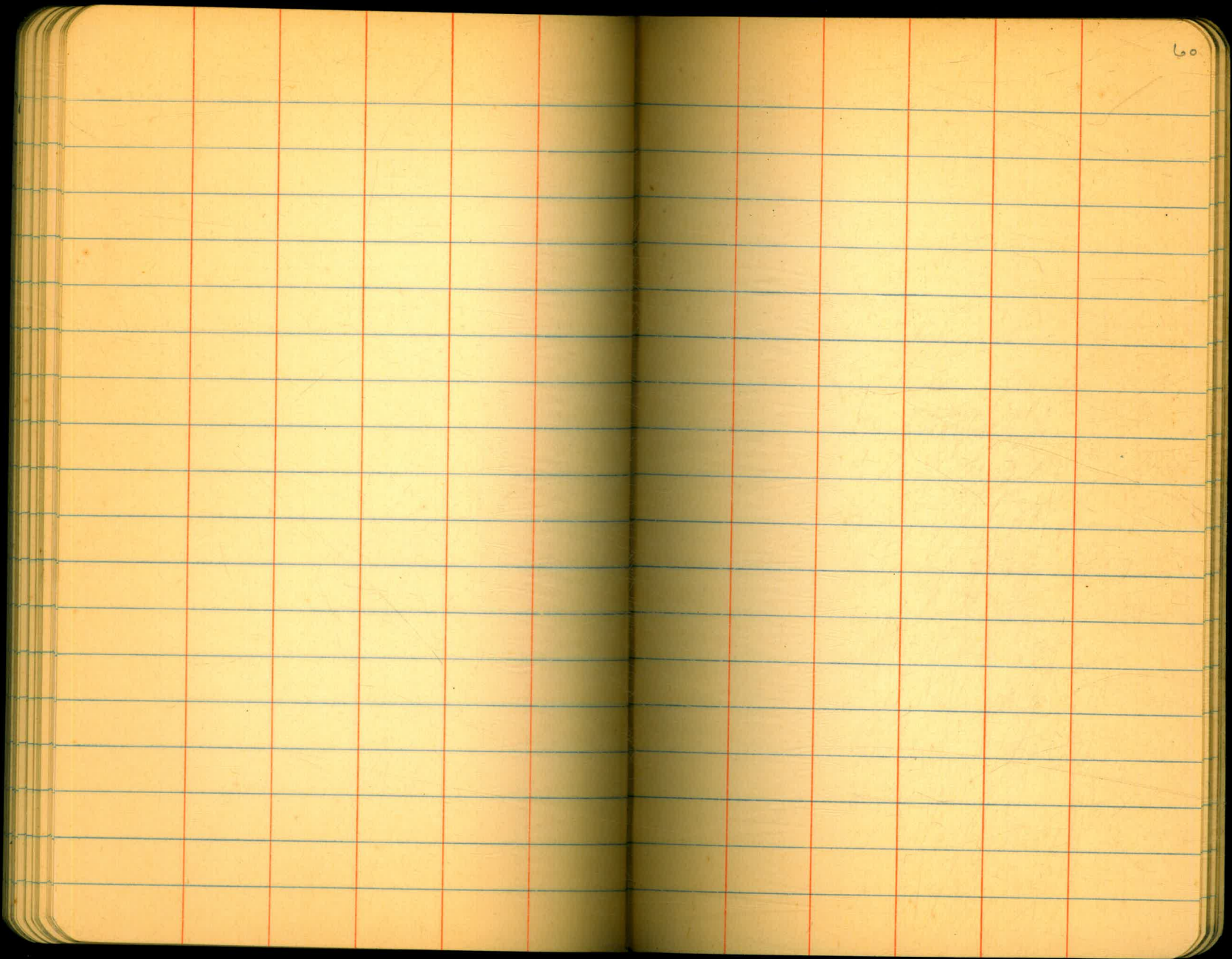
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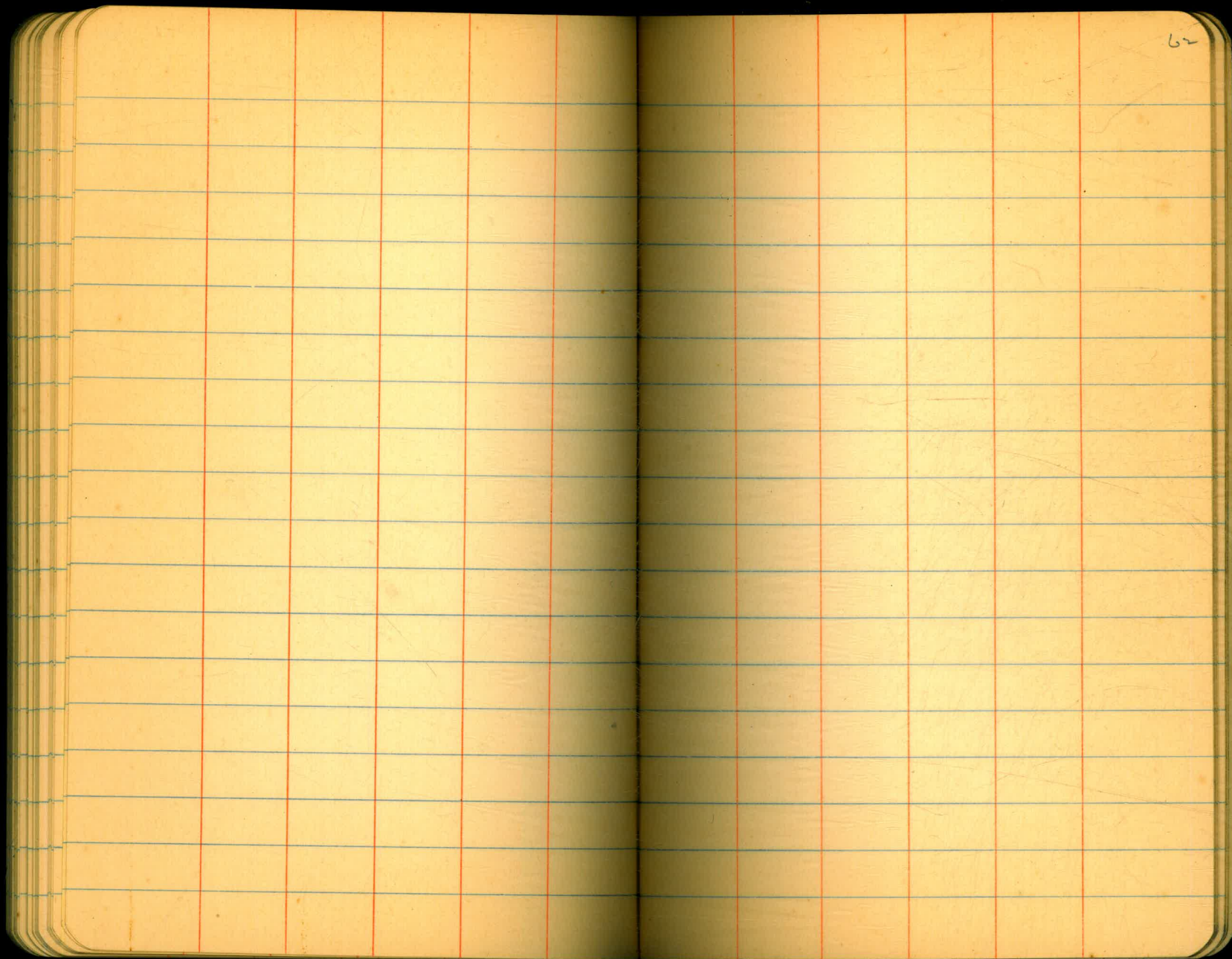


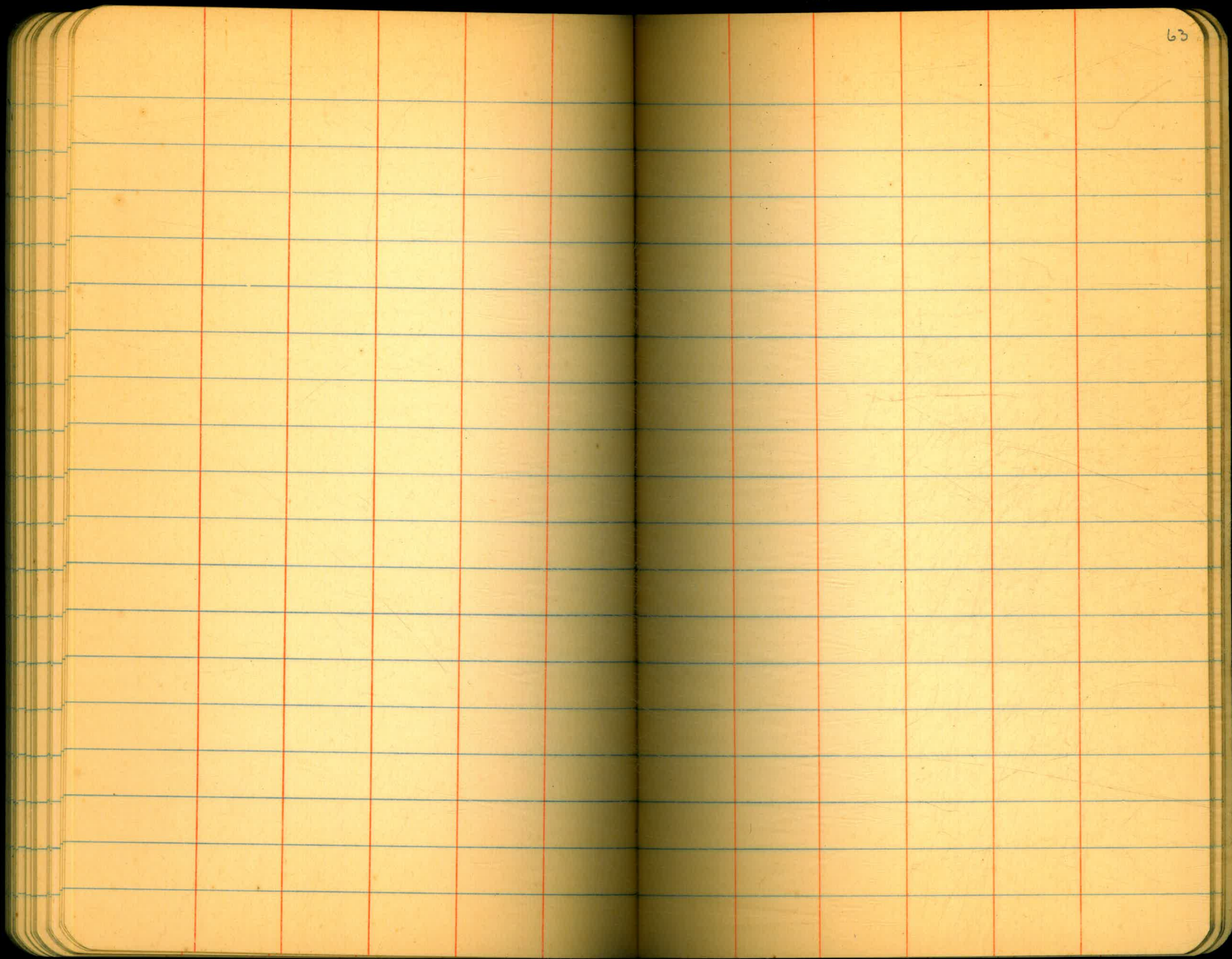
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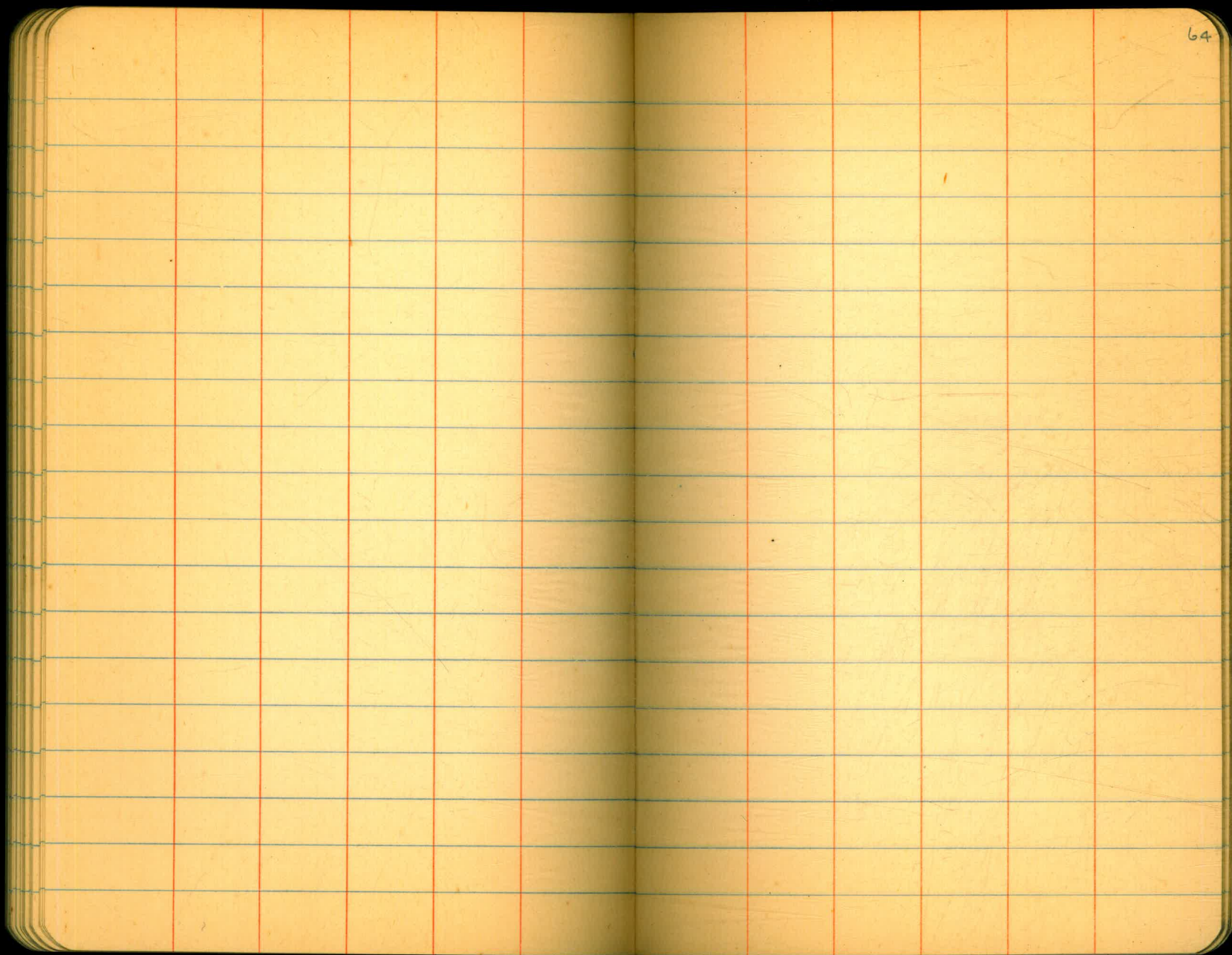


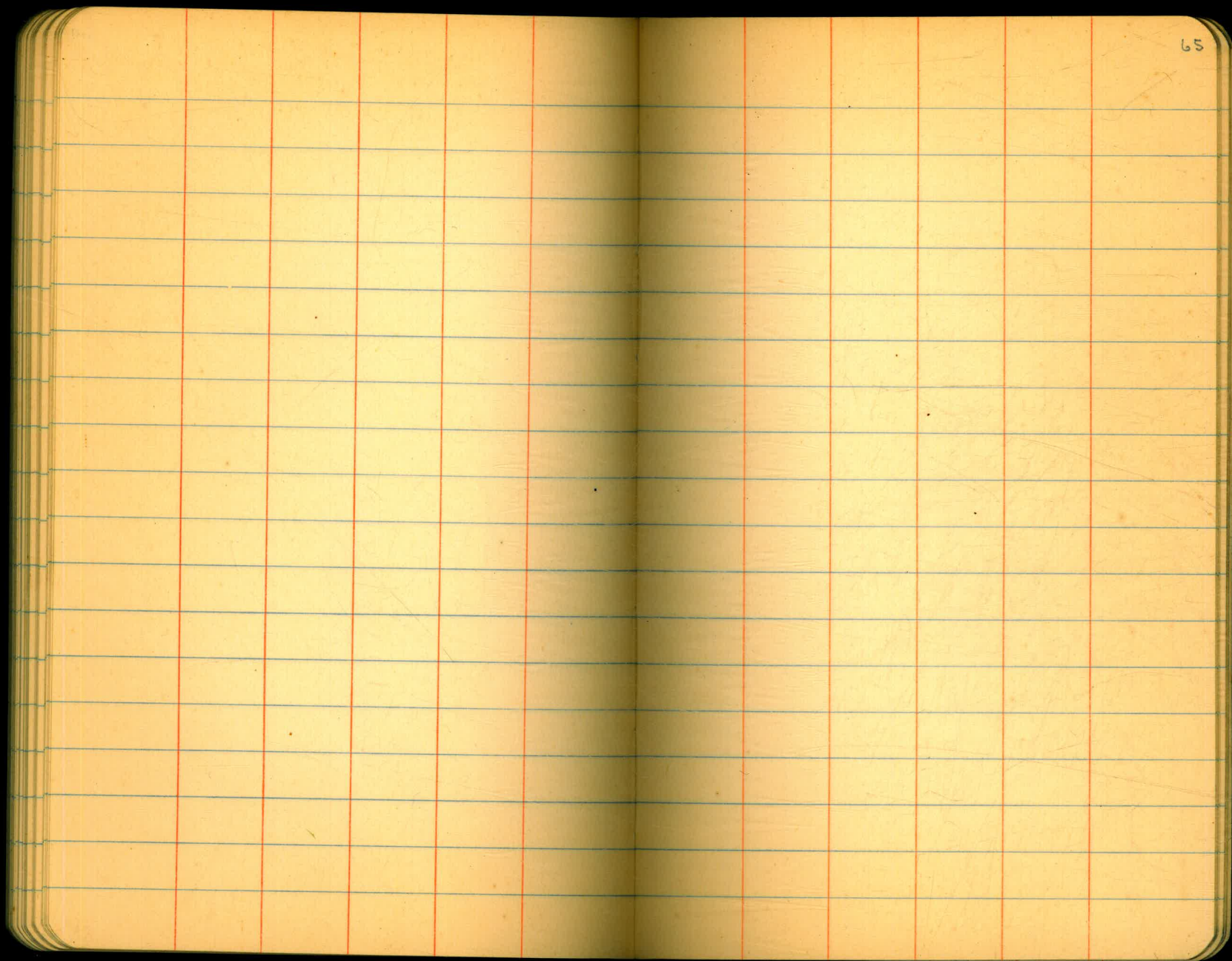


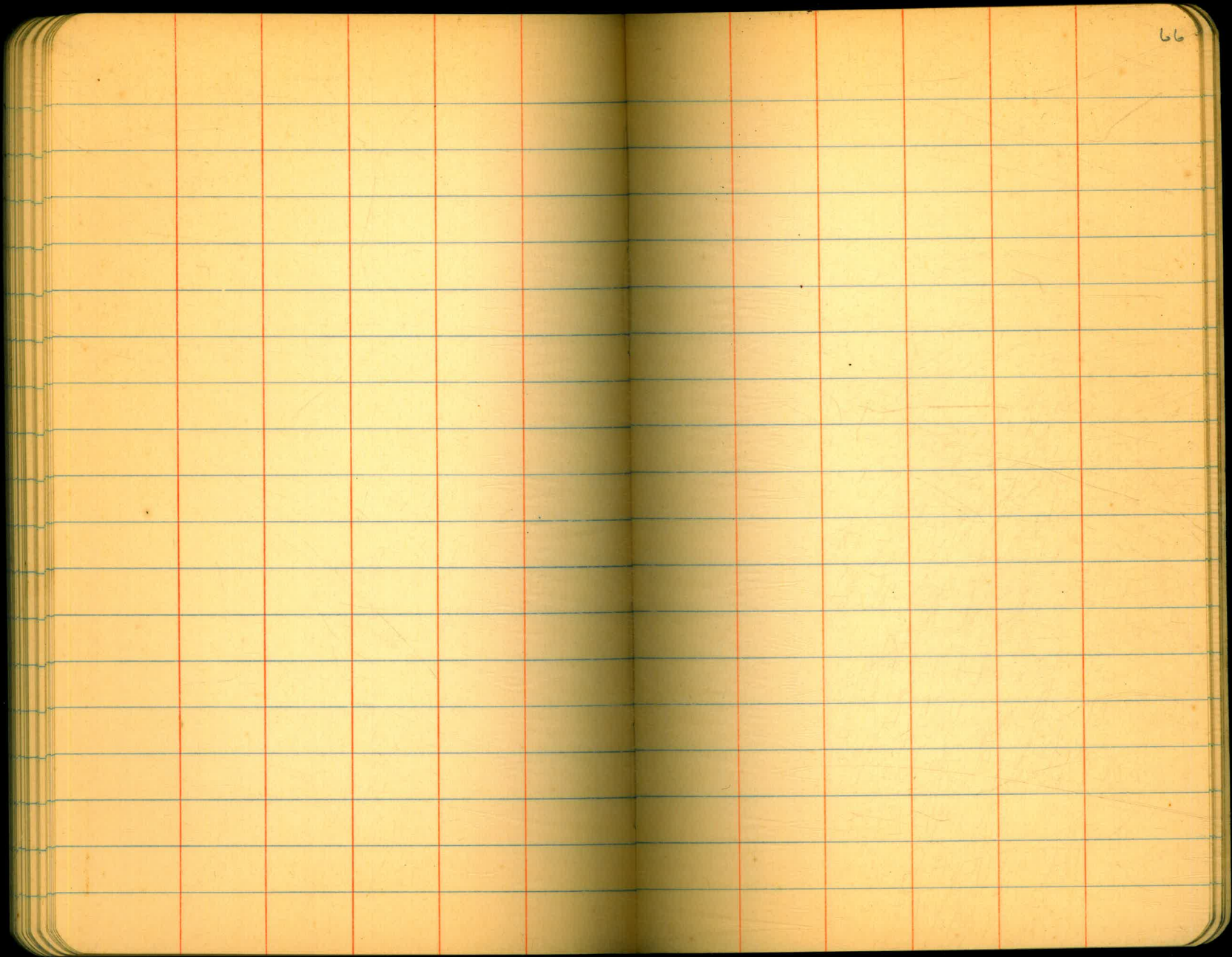
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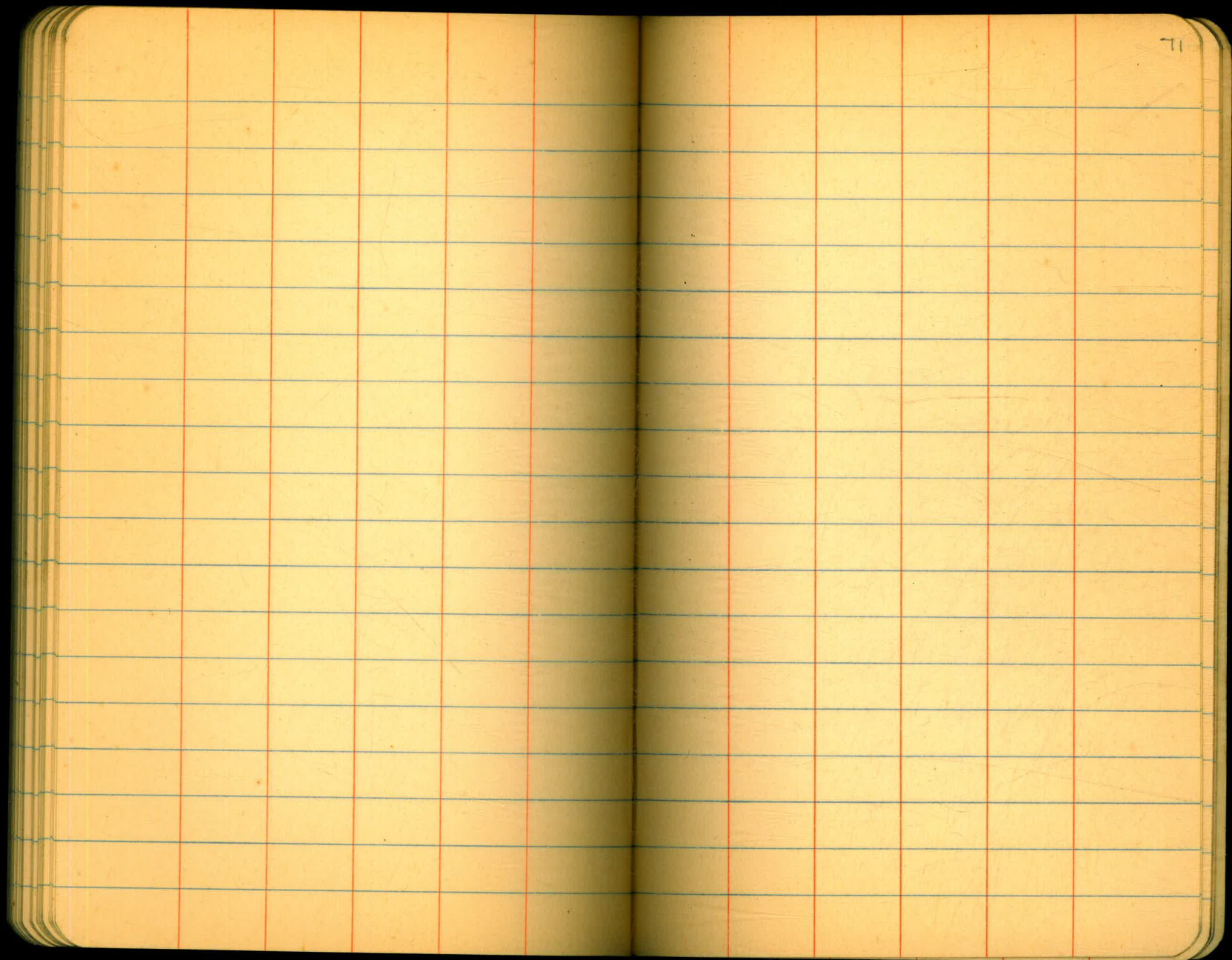


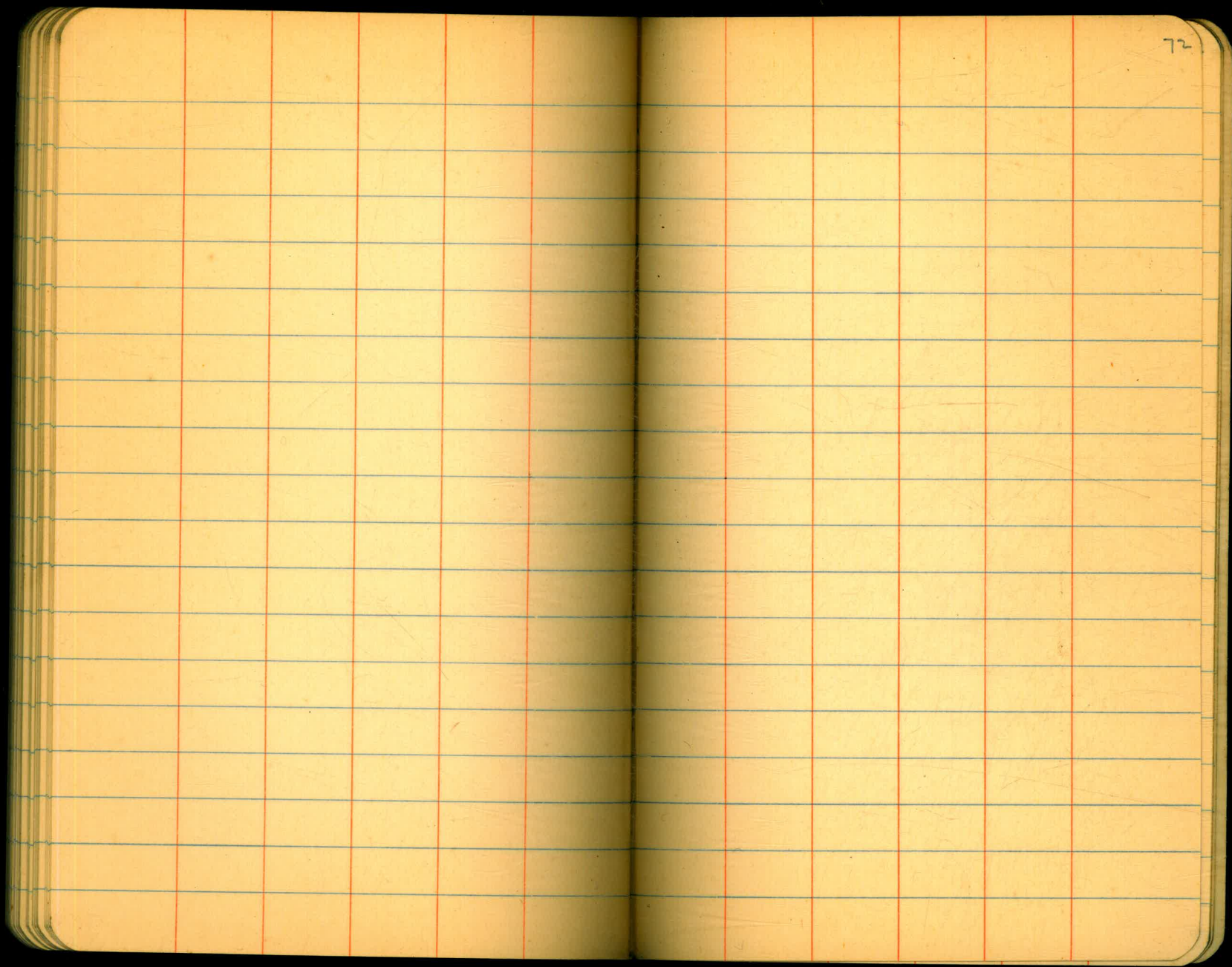




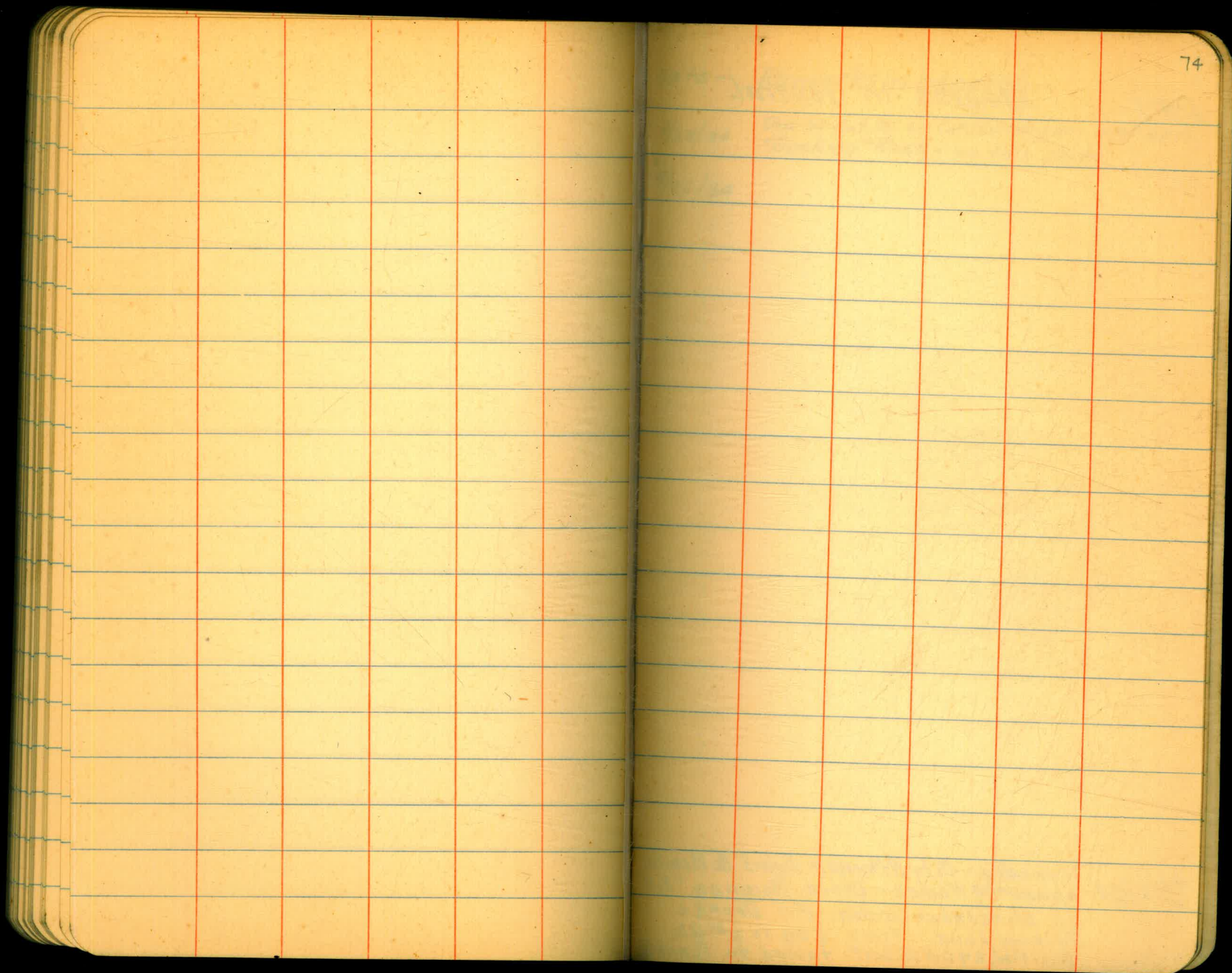


The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '68' in the top right corner. The notebook is bound in the center, and the pages are slightly curved at the corners. The background is black.





73 4



Date-

Remarks in General.

Date-

Remarks in general. -

75

9/20/34

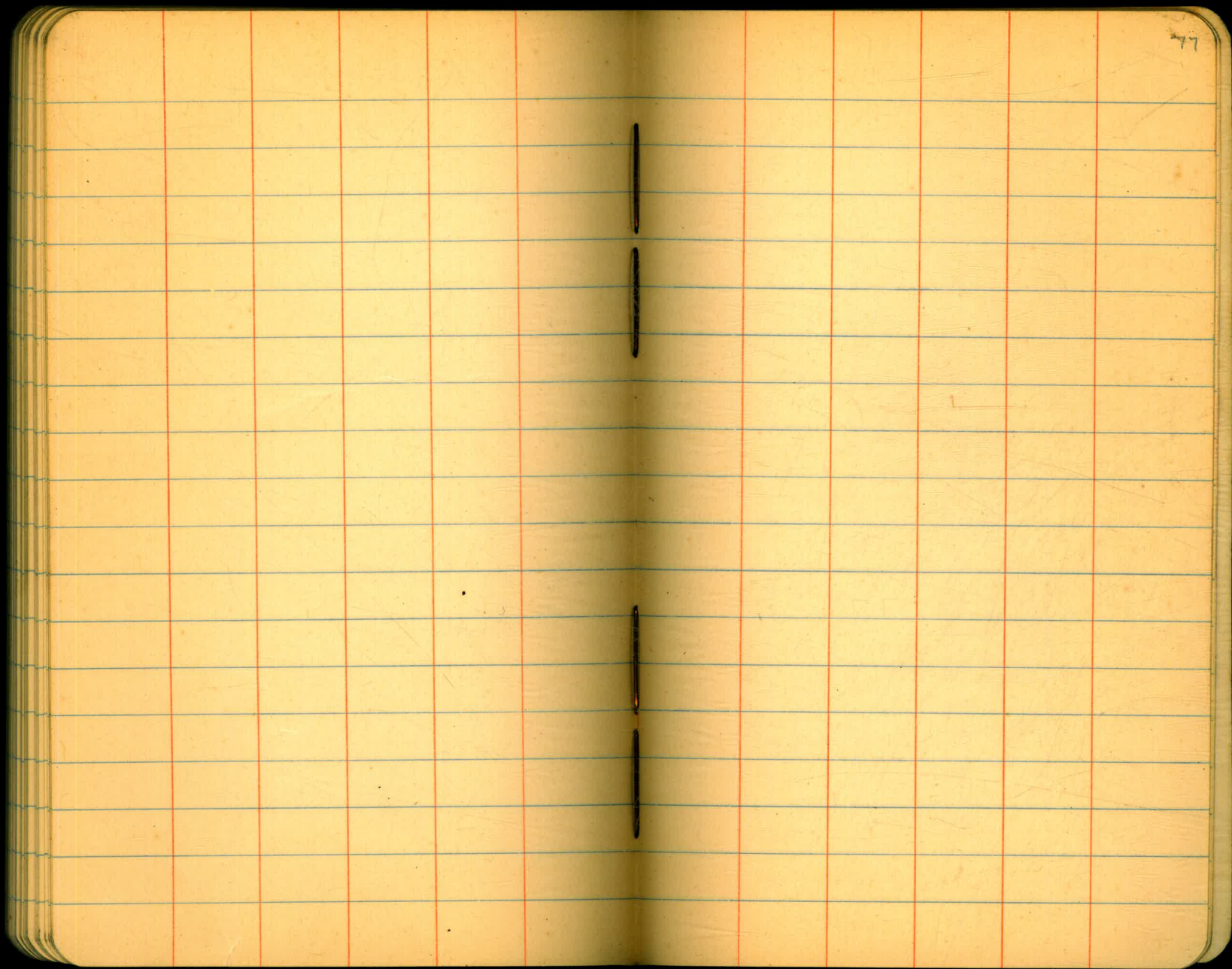
One 60 Cat. & 60 Cat. Bulldozer - used 6 hrs.
"Bucking" Rock - on this shift.

9/25/34

9/17/34

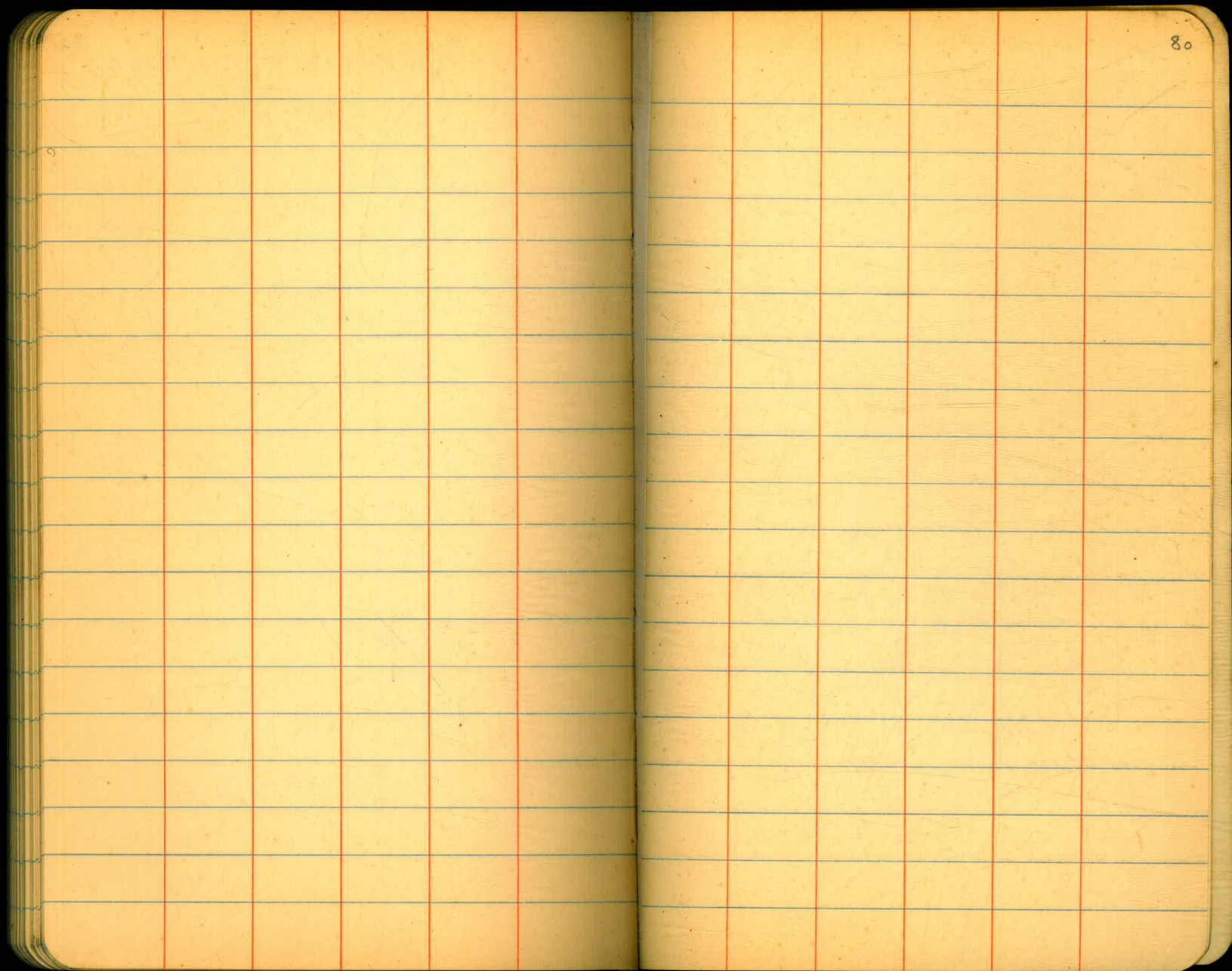
Connolly - City Attorney Byers & Mexican
appearing Woman - Drove down on "Fill"
in Studebaker Sedan. All Drunk +
Talking loud. Time 6 am to 6³⁰ am.
Earl Walsh + DW Albert. talked to Connolly

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '76' in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and faint smudges. The background is solid black.



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '78' in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and faint smudges. The background is solid black.

6



CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if $w = 16.2$ and $h = 5.3$, cu. yds. $= 1.48 + .028 + .089 = 1.597$ cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) $= h$, and $\frac{1}{2}$ the roadbed $= w$, add the triangles formed by taking the distance out to each break in turn ($= w$'s) by the difference between the cuts (or fills) on each side of it ($= h$'s) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9 + (20 - 16) \times 2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

Made in Germany.