

PASTY

FIELD BOOK

W. H. BENT

332

Jack Goodhart

364-42

MICROFILMED
JAN 16 1965

Jugo

Coalf

135

134

133

132

SEE

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

Jack Goodhart
2654 - 42 st
San Diego

Jan 20th
 No 5 Tunnell 3 men 1 ft
 about 4 1/4 Cleaning out
 Timbering 2 Post and
 10 Days P. 2 2 ft

Jan 21
 No 5 Tunnell 3 men 2 ft
 Timbering 4 Post

Jan 22 Tunnell 3 Men 2 11 Shots

1/23 Tunnell 3 Men 1 ft 5 Shots
 and Retimbering

1/25
 No 5 Tunnell 3 Men 1 1/2 9 Shots

1-26
 No 5 Tunnell 3 Men 2 1/2 11 Shots

1-27
 No 5 Tunnell 3 men 1 ft 12 Shots

1-28
 No 5 Tunnell 3 Men 2 ft 14 Shots

1-29
 No 5 Tunnell 3 Men 2 ft 11 Shots

1-30
 No 5 Tunnell 2 2 ft 7 Shots

No 5 Tunnell

2 Corn Ariett Balder
 Sluff from Roof and sides
 on own Plants 6 Shots

Balder and decomposed Ariett
 5 P. 2x8 4 ft long 2 P. 6x6 - 6 2

Decomposed granite 18" in Roof about 4" Balder
 Repairing Compressor Dutch Sliding

Timbering 1 Hour Solid Rock Face 1 1/2

Solid Rock 0.5 2 3

Retimbering 1 Hour 4 8
 Timbering 2 Hours 1 1
 Solid Rock 4 9
 Solid Rock 2

Solid Rock in Face 5 1
 Delay on Compressor 15 min 2
 1 1/2 hrs gas Run out 5 3 7 4
 Timbering 2 1/2 5 5 7 8

40 41

43

1 1/2

4 5 1/2

2 1/2

4 8

1 1

4 9

2

5 1

2

5 3 7 4

5 5 7 8

Jan 20
 upper 4"
 No 4 El. Tunnell 3 men 316"
 700 El. Tunnell 3 0.5 48"
 Jan 21
 No 6 Tunnell 3 Men 9 ft
 Jan 22
 No 6 Open 3 men 7 5 Shots
 Tunnell, ... 2
 1/23
 No 6 Tunnell 3 Men 6 ft 12 Shots
 1/25
 No 6 Tunnell 3 Men 7 13 Shots
 1-24
 No 6 Tunnell 3 Men 18 ft 13 Shots
 1-27
 No 6 Tunnell 3 Men 6 ft 15
 1-28
 No 6 Tunnell 3 Men 6 ft 16 Shots
 1-29
 No 6 Tunnell 3 Men 4 ft 14
 1-30
 No 6 Tunnell 3 men Mucking
 Compressor went out

No 4 Tunnels. Fact 2 1/2 ft
 Balders and 2 @ P Grant - 4 Port and Rops 3-4
 5 1/2 30 1/2
 Open Cut 6
 Black Bent and Decomposed Granett 9
 15
 Decomposed Granett 7
 22
 2
 Decomposed Granett & Balders 24
 6
 30
 Decomposed Granett Balders 7
 37
 8
 Balders & Decomposed Granett
 Delay on Compressor 20 m 45
 Bolt Blew out of Head
 Balders & Decomposed Granett 6
 51
 Balders & Decomposed Granett 6
 6
 Timbering 1 man Granett 57 35
 4 Port 2 men 13. 1/2 cap 35 41
 6
 about 4 ft of Balade Granett Gray 63 41
 1 ft of Decomposed Granett
 out No 6 and moving to No 1 1 1/2 km
 of Comushon at 9 45 am
 Truck Driver and Com. man
 went to have some repaired

Jan
27

No 1 1 man Clearing

2-1 3 Men 3 ft 8 Shots

2-2 3 men 4 ft 11 Shots

2-9 Drilled Balder on Portal

2-10 3 Men 3 ft 9 Shots

No 1 Tunnel

3

up Tunnel

Hard Rock Face

1 Hour Timbering up Portal

Balders ^{and} Decomposed Granite

Timbering 1 hour

Open Cut

Balders ^{and} Decomposed Granite

Granite

6 1/2

50

3

53

4

57

21

78

3

81

Jan

27

No 3 1 man Making Trail
1-30 3 Men Making Trail

2-3 2 Men Drilling

1 man Mucking out

2-4 3 Men 2 men Drilling
Start 1 Man Set
107 ft from Hub stake

2-5 3 Men 7 17 Shots

2-4 3 Men 4 16 Shots

2-8 3 Men 3 8 Shots

2-9 3 Men 3 Placing

123

No 3 Tunnel

4

and Clearing Patrol 2 Hr
Holed $6\frac{1}{2}$

^{workmen}
2 men 1 in Pipe Line 3 hours
Two No 3 Tunnel 5 hours
of No 3 Tunnel 8 hours

Truckmen went to La Brea
for Gun Parts 3 hours
by hand 8 hours

Part for 1 in Pipe Line
and Laying Pipe 8 hours
Decomposed Gray Granite Boulders

Decomposed Gray Granite

Decomposed Gray Granite
1 1/2 hours Starting Compressor
motor and wiring wet
1" pipe Line in Tunnel
and Drilling 2 hours

1-30

No 2 Tinned 2 men

No-2 Tinned

5

Clean out Pot al 4 hrs
1 man Remaining Paper from No 6 4 hours
Helping Blacksmith 4 hours

No 5 Tunnel

32 - 21

Feb

- 2-1 3 men 3 ft 14 shots
- 2-2 3 men 3 ft 11 shots
- 2-3 3 men 3 ft 8 shots
- 2-4 3 men 3 ft 14 shots
- 2-5 3 men 3 ft 11

Total length 90 ft

No 5 Tunnel

6

Hard Rock Fall
 Rec'd valves on Compressor 1 Hour
 Delay
 Blue Granett seams approx 84
 Decomposed gray Granett
 Blue Granett & Gray Granett seams
 Blue Granett with gray Granett seams
 Round Rock from hole 90 ft

78
 53
 3-81
 58
 61-84
 3
 64
 90 ft

Feb

6 3 Men 8ft 9 Shots

2-8 3 Men 5ft 11 Shots

2-9 3 Men Cutting Post
Same Dr

2-10 3 Men 3ft 7 Shots
16 Total to Date

6 open cut-

Tunnel No 7

7

Black dirt and decomposed
granite

4 Stingers and 6 Plant 2x12
16ft for Descending over Road

Decomposed Granite
Timbering 1 hour

4 Post 2 Caps 6x6 - 5ft long

4 Crown Plank 2x12 - 8ft long
and Caps and Placing
Tunnel

Taking up Paper from River
Bed 2 hours

Decomposed granite

Same in Road Return to 1 hour

2 Post 2 Caps 6x6 by 5ft long

4 Crown Plank 2x12 - 3ft long

Feb 11

3 Men

open cut
10 ft Tunnel
Start 1 6 ft 15 Shots

Timbering 1 hour

13th 3 Men

7 ft 18 Shots

Timbering 1 hour

2-15th 3 Men

7 ft 12 Shots

2-16 3 Men

6 ft 12 Shots

Timbering

2-17 3 Men

6 ft 12 Shots

2-18 3 Men

7 ft 14 Shots

2-19 3 Men

7 ft 16 Shots

2-20 3 Men

6 ft 16 Shots

52 ft

28
24
62

Tunnels No 7

Decomposed Granite

4 Post - 2 Caps 6x6 - 5 ft Long

5 Crown Plank 2x12 - 4 ft Long

2 Post - 4 Crown Plank 2x10 - 4 ft Long

1 Cap 6x6 - 4 ft Long

Timbering 4 Post 2 Caps 4 ft

6 Crown Plank 2x10 - 4 ft Long

36

Decomposed Granite

2 Post - 1 Cap 4x4 - 4 ft Long 4 Crown Plank

12x8 - 4 ft Long

42

Timbering 2 Post 1 Cap 4x6 - 4 ft Long

3 Crown Plank 5 ft Long

2 Post 1 Cap 4x6 - 4 ft Long

3 Crown Plank 2x10 - 4 ft Long

4 Post 2 Caps 4x6 - 4 ft Long

3 Crown Plank 6 ft Long

2 Post 1 Cap 4 ft Long

3 Crown Plank 5 ft Long

16

52

68

Feb. Start 21 - OPEN CUT
69 Tunnels
81
71 3 Men 5 ft 18 shots

13 3 Men 4 ft 16 shots

2-15th 3 Men 5 ft 17 shots

2-16th 3 Men 5 ft 16 shots

2-17 3 Men 2 9 shots

Compressor out of

2-18 3 Men 4 ft 15 shots

2-19 3 Men 2 ft 16 shots

2-20 3 Men 2 ft 16 shots
31

Tunnels No 1

Gray Granett Rock with
Decomposed Granett seams

Decomposed seams and
hard Gray Granett

Decomposed Granett
and Hard Boulders

Decomposed Granett and
Gray Granett Boulders

Hard Gray Granett 6 Hours
3 Men Striking Cable over River 2 Hours
gas Road Blocked 4 Hours

Hard Gray Granett

Hard Gray Granett
1 hour Repairing Jack Hammer

Hard Gray Granett
2
112

Feb
13th 1 Man

2-15th 1

2-19th 1 Man work on Bridge

Tunnel No 3

10

Putting in leadman
for Briggland Pipe Line 8 hours

Drilling anchor Holes for
Cable and Putting Cable across
River

hours 8
8 hours

Feb 20

1124

2-23 3 Men

Cleaning Muck

Tunnel No 1 feet tunnel
To Sale

"
112

out of Tunnel and taking up pipe 2
hours

Feb 20

68 ft

2-23 3 Men

6 ft

20

Shots

2-24 3 Men

6 ft

20

Shots

2-25 3 Men

5 ft

20

Shots

2-24 3 Men

4 ft

19

Shots

2-27 3 Men

6 ft

22

Shots

2-29 3 Men

5 ft

22

Shots

102
68

32

68
29

97

102
97

5

Tunnel No 7

Feet driven 2-20 68

Decomposed Gray Guano

Decomposed Gray Guano

Decomposed Guano 1 Man worked
5 hours went to doctor to have
but taking out of eye a little
seap water in lower half of Tunnel

Decomposed Gray Guano
a little seap water in lower half
of Tunnel

Decomposed Guano
Some seap water in lower
half of Tunnel

Decomposed Guano
Seap water in lower half of Tunnel

2-22 1 Man and self working

2-23 3 Men 3 ft 16 Shots

2-24 3 Men 4 ft 23 Shots

2-25 3 Men 5 ft 18 Shots

2-26 3 Men 5 ft 19 Shots

2-27 4 6 ft 20 Shots

2-29 4 Men 5 ft Shots

1 5 4

1 2 3

3 1

Tunnel No 3

on Pipe Line from Compressor ^{hour}
to Tunnel and overhaling Compressor 5

Decomposed Gray Granett and
Balders

Decomposed Gray Granett
and Balders

Decomposed Gray Granett

Decomposed Gray Granett
and Balders

Decomposed Gray Granett and
Balders 1 Man Timbering 1 Set. 4 Post
2-6x8 - Caps 3' Long 2 Crown
Plank 2x12 - 8 ft Long 8 hours

Decomposed Gray Granett and Balders

Feb

Start at Hub

2-24 3 Men 8 ft By Hand

2-25 2 Men 12 ft 3 Shots

2-26 2 Men ^{3 ft tunnel} 9 ft 11 Shots

2-27 2 Men 8 ft 12 Shots

2-29 3 Men $\frac{4 \text{ ft}}{43}$ 14 Shots

43
37

6

Tunnel No 8

14

Existing Paper Line to Tunnel 2 hrs
Red Surt and Balders ^{4 hrs}

Red Surt and Balders about 3 ft
of decomposed Granett from floor up
decomposed Granett

Decomposed Granett

Decomposed Granett
Timbering: 4 Post - 2 Poles 4x6 - 4 Long
3 Brown Plank 2x10 4 ft Long

144

#54 ft 18

March 1st 3 Men 6 ft 18 Shots

3-2 3 Men 6 ft 17 Shots

2-3 3 Men 6 ft 17 Shots

3-4 3 Men 7 ft 16 Shots

3-5 3 Men 7 ft 17 Shots

3-7 3 Men 9 ft 17 Shots

41 Total 195

Finished Tunnel 3-7

Tunnel No 3 15

Decomposed Gray Granit

Decomposed Gray Granit 160

166

Decomposed Gray Granit 172

Decomposed Gray Granit Balders 179

186

Decomposed Granit and Balders 195

Decomposed Granit and Balders

Completed Excavation Mucking out
about 2 Hours Mucking 3-8

102 ft

March
 1 3 Men 6 ft 25 Shots
 3-2 3 Men 2 ft 18 Shots
 3-3 3 Men 4 ft 18 Shots
 3-4th 3 Men 3 ft 17 Shots
 3-5 3 Men 3 ft 14 Shots
 3-7 3 Men 4 ft 18 Shots
 3-8 3 Men 2 ft 9 Shots
 3-9 3 Men 1 ft 12 Shots
 3-10 3 Men 2 ft 12 Shots

Tunnel No 7 16

Decomposed Grannett with 108
 some Seap water in lower half
 of tunnel

Decomposed Grannett with in face 110

Decomposed Grannett 114
 Seap water in Face of tunnel

Decomposed Grannett wet in face of tunnel
 12 ft Timbers: 117

Decomposed Grannett Seap water 120

Decomposed Grannett Seap water 124

Decomposed Gray Grannett 126
 water is not running so much today
 Timbering 6 Post 3 Caps 2 Plank 17 ft

Decomposed Grannett wet in tunnel
 Timbering 4 Post 2 Caps 4x4 4 ft 127
 2 Crown Plank 2x2 - 12

Decomposed Gray Grannett 129
 Timbering 4 Post 2 Caps 4x6 24
 2 Crown Plank 2x10 - 12 ft

27

43 ft

March 1	2 Men	8 ft	17	shots
3-2	3 Men	6 ft	17	shots
3-3	3 Men	7 ft	17	shots
3-4	3 Men	5 ft	17	shots
3-5	3 Men	4 ft	17	shots
3-7	3 Men	5 ft	18	shots
3-8	3 Men	4 ft	17	shots
3-9	3 Men	5 ft	17	shots
3-10	3 Men	5 ft	17	shots

Tunnel No 8

Decomposed Gray Granett	17 51
Decomposed Granett	57
Decomposed Gray Granett	64
Decomposed Gray Granett	69
	6
Decomposed Granett	75
Decomposed Granett and Boulders	80
	84
Decomposed Granett and Boulders Timbering 2 Post 1 Cap 2 Crown Plank 4 ft Lateral 2x10	
Decomposed Granett and Boulders	89
Decomposed Granett and Boulders	93

80
51

51

75

75

157

March

8th

3 Men

16 ft of tunnel 13th O.C.

13 ft hand work 5 Hours

3-9

3 Men

90 ft 10 shots.

3-16

3 Men

4 ft 110 shots

Tunnel No 9

18

Decomposed Serranett and Red dirt

Decomposed Serranett

4 Post-2 Paps 4x4 - 4 ft

2 Crown Plank 2x10 - 6 ft 23

Decomposed Serranett

29

Tunnel Completed

March

105

10 3 Men f 3 ft 8 Shots

Ternel NO 2

19

Decomposed Kenneth Baldwin 108

March 10th 13th O.C.

11 3 Men 3 ft 14 Shots

12th 3 Men 45 ft 10 Shots

Tunnel No 2

20

Decomposed Annett
and Harold Balders 111

Decomposed Annett and Balders 115⁶
Completed

March

93^{ft} O.C. 27

11

3 Men

5 ft 18

shots

12

ch

3 Men

4 ft 8

shots

9 ft in 2 days

Tunnel No 8

27

Decomposed limestone Boulders 98

Decomposed limestone and Boulders 10.2

Completed

129

March

11	3 Men	3 ft	12	Shots
12 th	3 Men	1 ft	12	Shots
14	3 Men	3 ft	18	Shots
3-15	3 Men	3 ft	18	Shots
3-16	3 Men	2 ft	18	Shots
3-17	3 Men	2 ft	18	Shots
3-18	3 Men	3 ft	18	Shots
3-19	3 Men	3 ft	18	Shots

20 ft in 8 Days

22

Tunnel No 7

Decomposed Granite Soap water 132

Decomposed Granite and Soap water 138
 Women 12 shots 10 feet Had to Reload Holes

Decomposed Granite and Balclers
 Soap water in Tunnel 136

Decomposed granite and Balclers 139
 Soap water in Tunnel 141

Decomposed Granite Soap water 143

Hard Rock about Lower
 half of tunnel Top decomposed
 Wet in Tunnel

146
 Hard Granite in Lower half of Tunnel
 water in Tunnel
 Hard Granite in Lower Half of 149
 Tunnel upper Half decomposed granite
 Soap water in Tunnel

March

112 ft 290, C.

14	3 Men	2 ft	9	shots
3-15	3 Men	2 ft	9	shots
3-16	3 Men	1 ft	9	shots
3-17	3 Men	1 ft	9	shots
3-18	3 Men	2 ft	18	shots
3-19	3 Men	4 ft	18	shots

12 ft in 6 days

Tunnel No 1

23

Solid Rock with ¹¹⁴ seropora/seams	
Hard Gray Granite Seams grayish	116
Hard Gray Granite	117
Hard Gray Granite	118
Hard Granite	120
Hard Granite	124

March		90		
14	3 Men	3 ft	18	shots
3-15	3 Men	3 ft	18	shots
3-16	3 Men	3 ft	18	shots
3-17	3 Men	3 ft	18	shots
3-18	3 Men	3 ft	18	shots
3-19	3 Men	4 ft	18	shots
		<u>19 ft in 6 days</u>		

Tunnel No 5	90 ²⁴
Hard Rock Gray granite	93
Hard Gray Granite	96
Hard Gray Granite	99
Hard Gray Granite	102
Hard Gray Granite	105
Hard granite	109

March

21 2 Men 1 ft 9 shafts

Compressor Main Bearing
2 Men over Halling one
went to San Diego 10
to Hours

March 22 - 2 Men Repairing Compressor
and Removing old Main Bearing

1 Blacksmith Reheading

5 Men working at

23 - 5 Men working at Engineer Camp 8 Hours

1 Man in San Diego getting
1 Man Cleaning Main

1 Blacksmith 8 Hours

March

24 1 Man Removing Pipe
from No 3 Tunnel a iron
and Digging Test Hole

1 Man in San Diego getting

Turner No 1

25

124

Decomposed Granite and Boulders

125

went out 1030 am

Removing old Bearing and
get Parts and Pin in Puller

8 Hours Removing Head from Shaft
and Taking Parts to shop

Drills and Sharpening

Engineer Camp 8 Hours

8 Hours

getting Repairs for Compressor

Shaft of Compressor 3 hours

and Helping Blacksmith 5 Hours

Sharpening Drills and Making

Targets for Engineers

River 3 Hours

4x6 ft 6 Hours

Parts for Compressor 4 hours

Repairing Compressor 2 hours

March

21 2 Men 1 ft 14 Shots
 3-25 3 Men 2 ft 14 Shots
 4 Hours
 3-26 3 Men 4 ft 22 Shots
 3-28 3 Men 3 ft 12 Shots
 3-29 3 Men 4 ft 22 Shots
 3-30 3 Men 3 ft 19 Shots
 3-31 3 Men 3 ft 18 Shots

20 ft in 6 1/2 Days

Tunnel No 5

26

Hard Gray Granite 109
 100
 Hard Gray Granite 112 1/4
 with Gray Granite Seams
 Hard Gray Granite 116
 some small decomposed seams
 Hard Gray Granite with 119
 seams of decomposed granite
 Hard Gray Granite 123
 Seep water in Tunnel decomposed
 Hard Gray Granite some of 125
 Brown decomposed Granite 129
 Hard Gray Granite with
 decomposed Brown Granite
 seams some Seep water
 in Tunnel Total 1290

Tunnel No 7

March 21 3 Men 1 ft 9 Shots

3 Men Timbering 8 Post 4 Caps

3-25 3 Men 2 ft 14 Shots
4 Hours

3-24 3 Men 2 ft 18 Shots

3-28 3 Men 1 ft 9 Shots
Timbering 4 Post 2 Caps

3-29 3 Men 2 ft 15 Shots

3-30 3 Men 2 ft 19 Shots

3-31 3 Men 2 ft 18 Shots

12 ft

6 1/2 Days

Tunnel No 7

27

Decomposed Granite and Boulders 149
Leak water in Tunnel 150
4x4-3ft 4 Crown Plank 2x10-12ft-

3-25 3 Men 2 ft 14 Shots Decomposed Granite and Boulders 152

3-24 3 Men 2 ft 18 Shots Decomposed Granite and Boulders 2 little 154
Hard Rock

Hard Rock with seams 155
4x4-3ft long 2 Crown Plank 2x10-12ft-

Hard Gray Granite with 157
Decomposed Brown seams

Hard Gray Granite very 159
Little water in face of Tunnel

Hard Gray Granite with 161
Granite seams

M C L

28

March
25

5 Men Loading 2 Trucks
Digging Test Holes in Run
1 Man Helping Compressor
Placing New Man

of wood
Bed
Man
Boring

1 Hour 4 Holes started
3 Hours and 2 finished
1- 6 ft
1- 8 ft
4 Hours

March 28 Burton Digging Test
and Building frame around

Hole and cleaning out test holes
Same 8 Hours

March 31 1 Man Laying Pipe

Lines to No 3 Tunnel 5 Hours

April

161

1 4 Men 3 ft 22 Shots
4-2 4 Men 3 ft 22 Shots
4-4 2 1 ft No Shots 4 Hours

Tunnel 7 4 Men 2 Days

Tunnel No 7

162

Hard Gray Granite Decomposed
Granite Seams Seawater 164

Hard Gray Granite Decomposed
Granite Seams Seawater in tunnel 167

Hard Gray Granite Decomposed
granite Seams water in tunnel 168

7ft Total

April

4 3 Men 1 1/2 ft 20 shots

3 Men 1 Day 1 1/2 ft

Tunnel No 5

³⁰
129

Hard Gray Granite soft
Decomposed Granite seams 130 1/2

April 4 hours
4 2 Men 3 ft 9 Shots 4 Hours

4-5 4 Men 7 ft 18 Shots

4-6 4 Men 7 ft 18 Shots

4-7 4 Men 7 ft 18 Shots

4-8 4 Men 7 ft 18 Shots Soft

9-9 2 Men 4 ft 20 Shots

35 ft 4 Men in 5

Tunnel No 3 195³¹
Decomposed Granite and Boulders 198

Decomposed Granite 205

Decomposed Granite 212

Decomposed Granite ^{74M} 219

Decomposed Granite Hard 226

Decomposed Granite ~~230 ft~~

228

days

4
4 April 2 Men Laying Pipe
during Tools and
& Hoop

4
4 April 5 1 Man Mucking

4
9 April 9 2 Men working

9
April 11 2 Men Finished

32
15 No 3 Tunnel and
Lumber to home

out No 5 Tunnel 4 Hours

on Cross Cut in Draw
a Bar No 3 Tunnel 6x12-2ft
2ft

Cross Cut in Draw
7x12x5-4ft deep

April
 4-11 2 Men 4 ft 9 Shots
 4-12 4 Men 7 ft 18 Shots
 4-13 4 Men 7 ft 18 Shots
 4-14 4 Men 6 ft 9 Shots
 4-15 4 Men 5 ft 9 Shots
 4-16 3 Men 5 ft 9 Shots
 4-18 3 Men 4 ft 4 Shots
 3 Men 4 Hours Removing Pipe 2 in
 4-19 3 Men 2 ft 6 Shots
 4-20 3 Men Cleaning
 Moving Equipment

Tunnel No 3

228
 Decomposed Granite
 Tightened up a little 232
 Decomposed Granite 239
 Decomposed Granite 246
 Decomposed Granite 252
 Decomposed Granite 257
 Decomposed Granite 262
 Decomposed Granite 264
 Decomposed Granite
 from No 3 Tunnel 264
 Decomposed Haul 264
 up Barock and
 to Camp and Gholias
 8 Hours

April

21 3 Men Making Trail
made about 1000 ft of

April 22 3 Men about 1500^{ft} of Trail

4-23 3 Men about 350^{ft} of Trail
on Road to Top of Same

April

25 1 Man work on Road

1 Man on trail

1 Man on trail

April 24 3 Men 300^{ft} of Trail

April 27 3 Men 50^{ft} of trail

April 28 3 Men 200^{ft} Trail

4-29 3 Men 200^{ft} Trail

4-30 1 Man 8 Hours

1 Man 4 Hours on trail 100^{ft}

Trail

34

on East side of Same
2 ft wide 8 Hours

2 ft wide west side 8 Hours

4 ft wide 8 Hours 350
site

Drag

4 Hours

8 Hours 400^{ft}

2 Hours 300

8 Hours 500

8 Hours

Blasting Rock 8 Hours 200

200

100^{ft}

2050

May

2

2 Men

8 Hours

100 ft of

Trail to top of Dam

2050³⁵

3

3 Men

8 Hours

150 ft of

Trail

2300

4

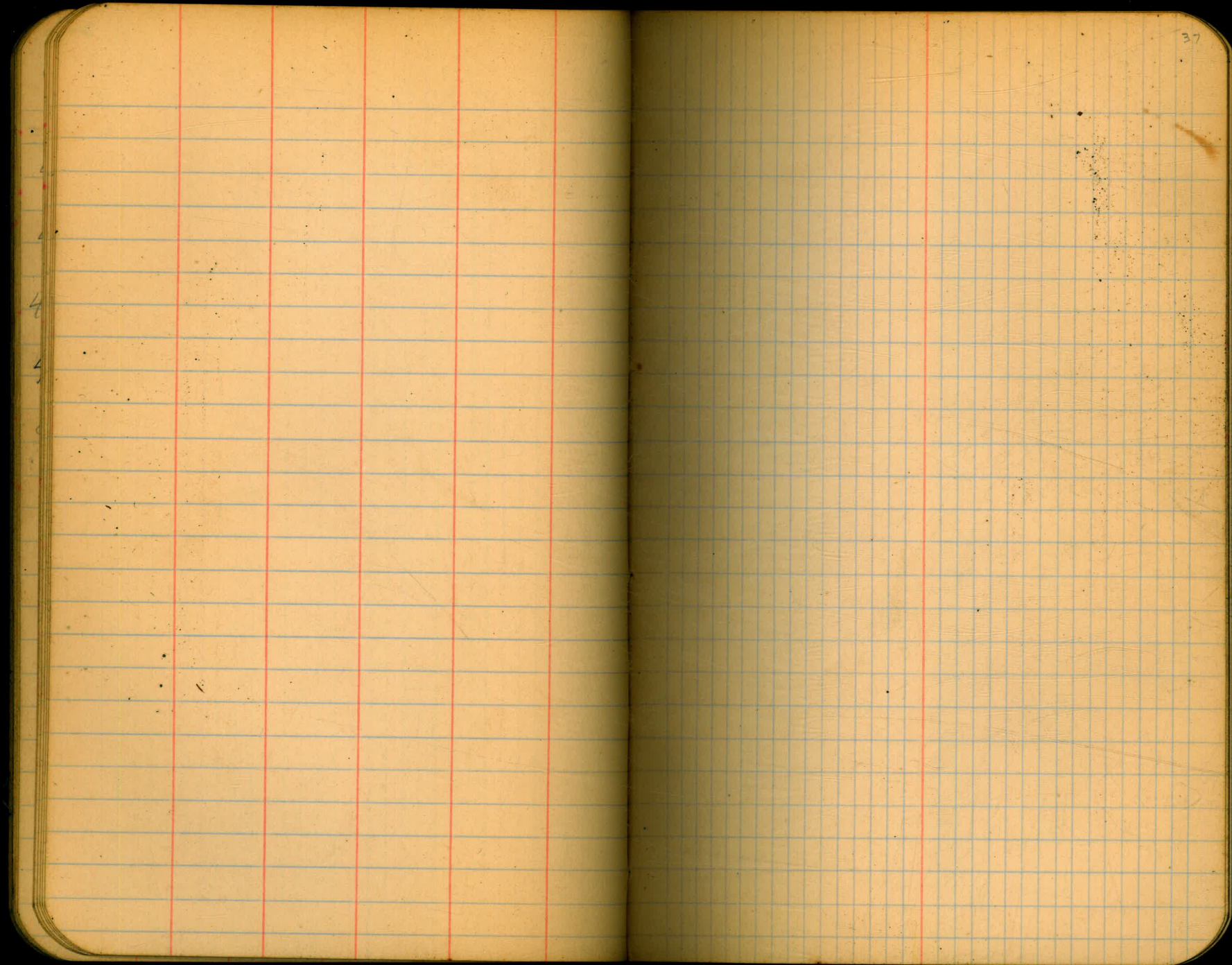
3 Men

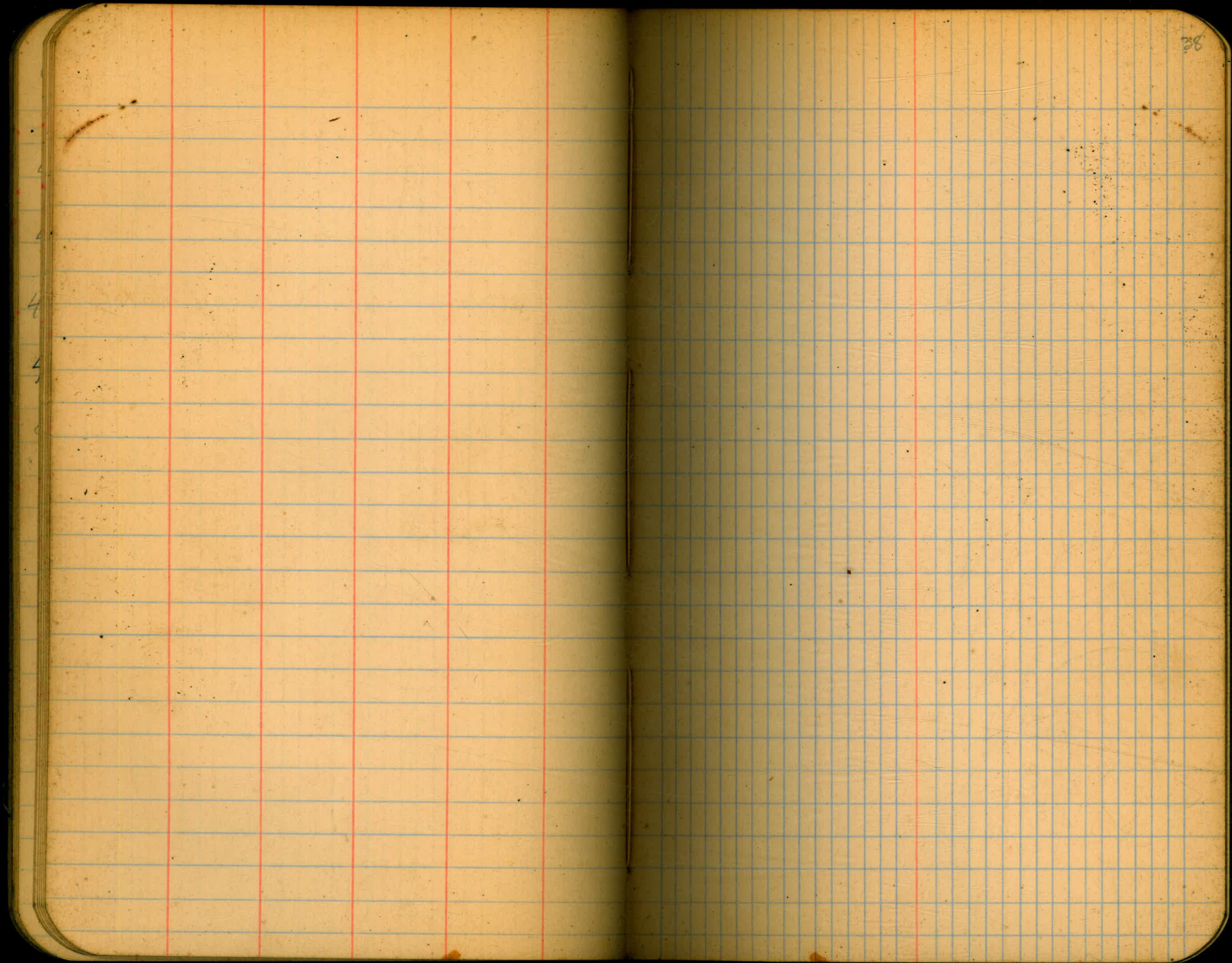
8 Hours

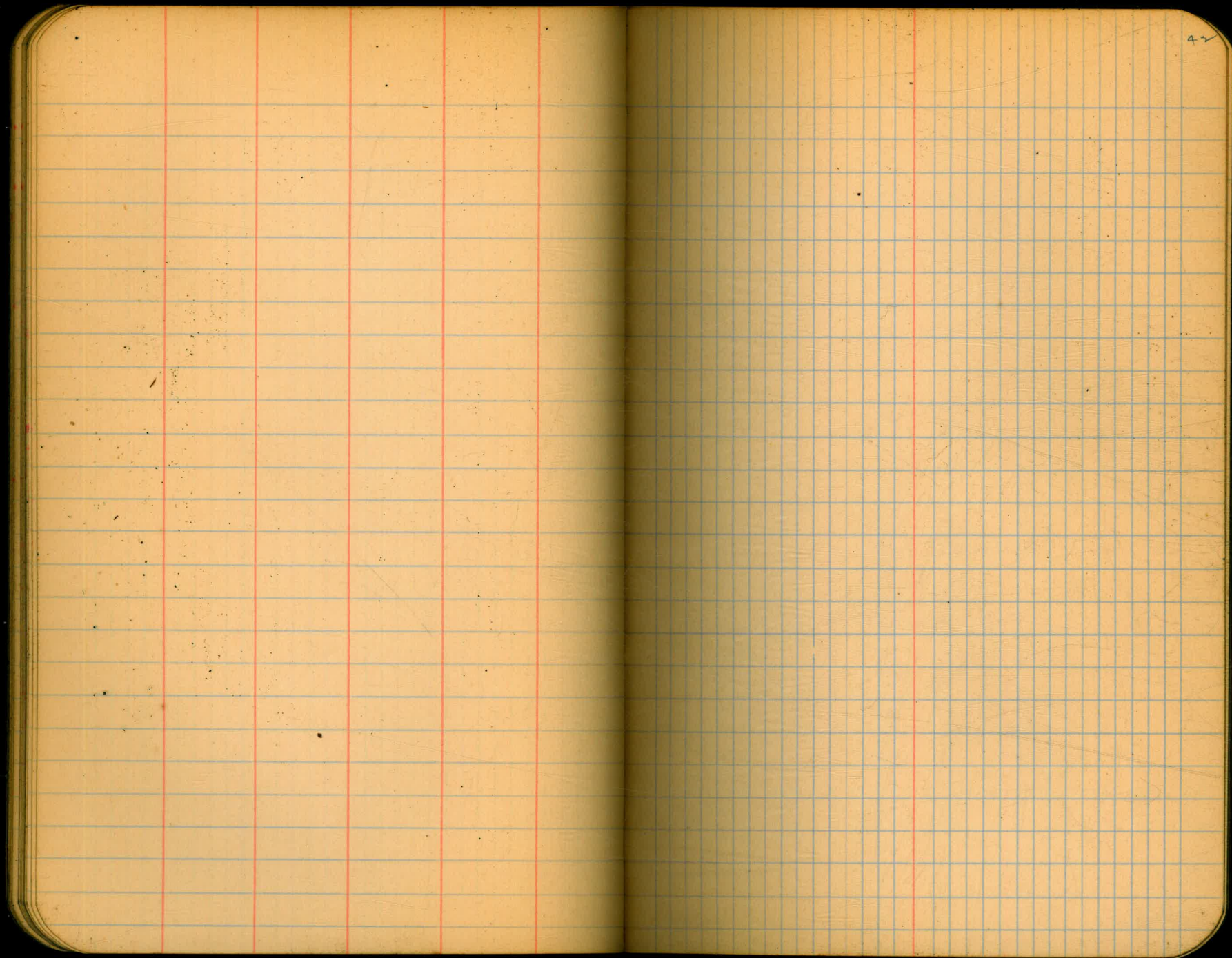
100 ft

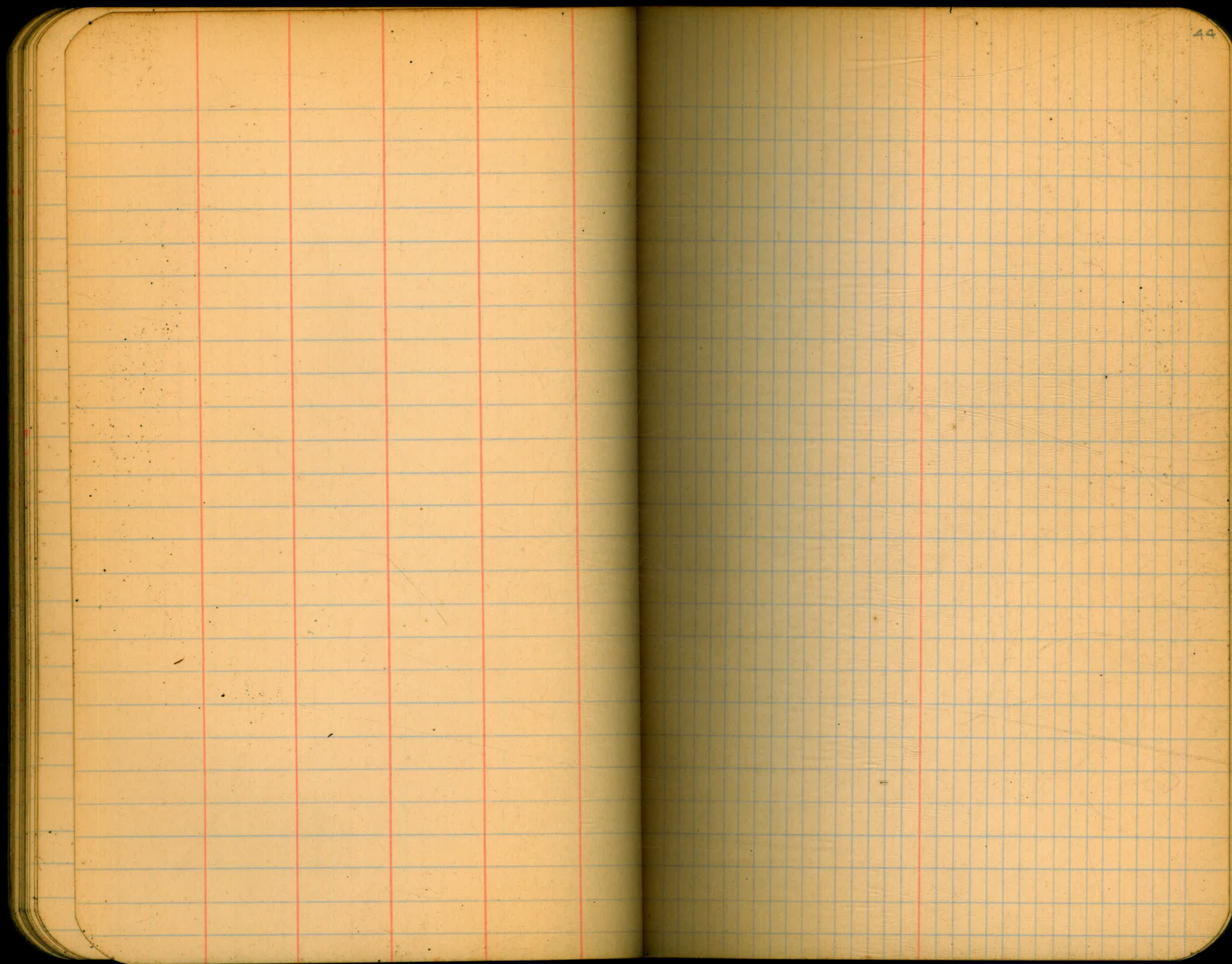
of trail

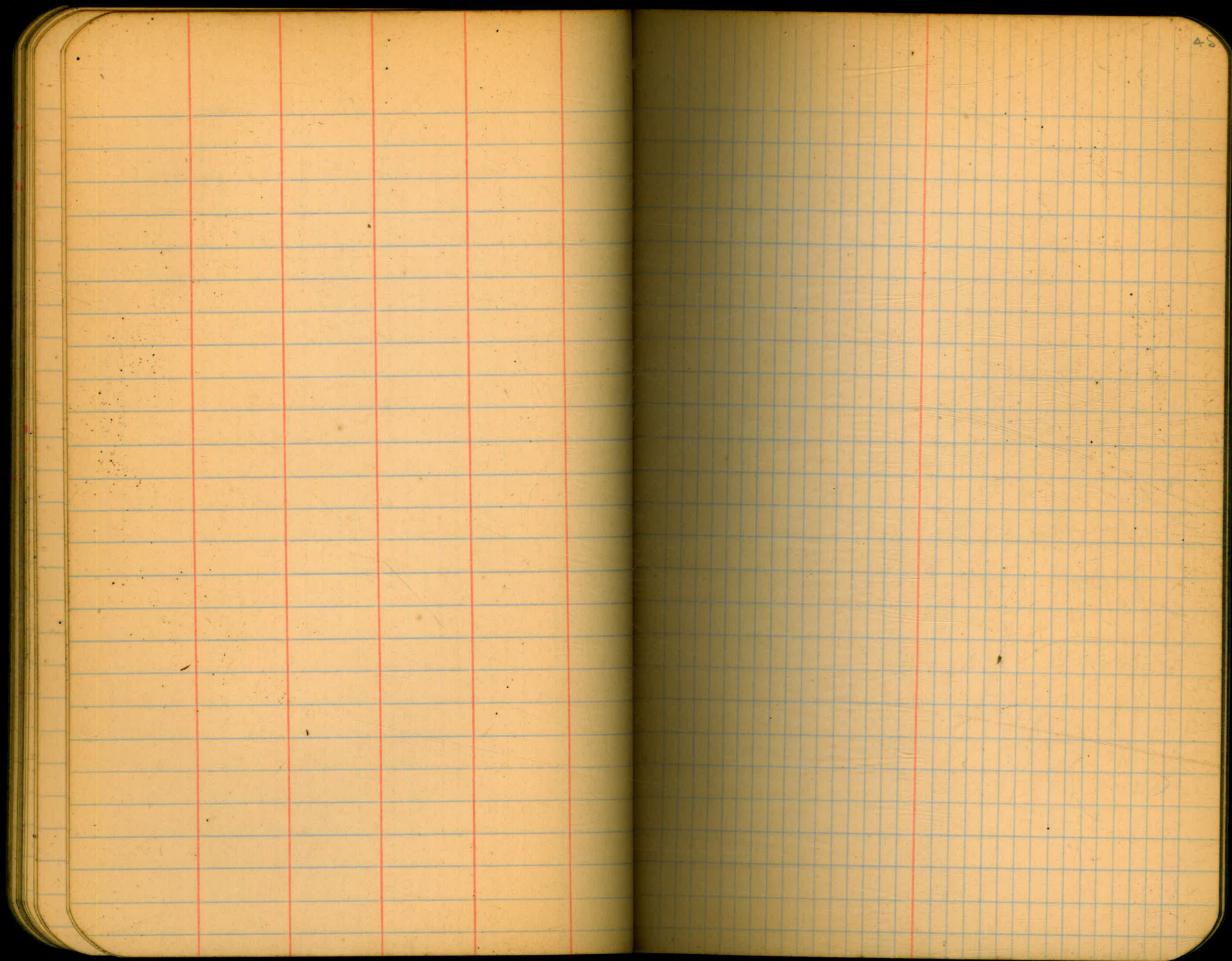
2400

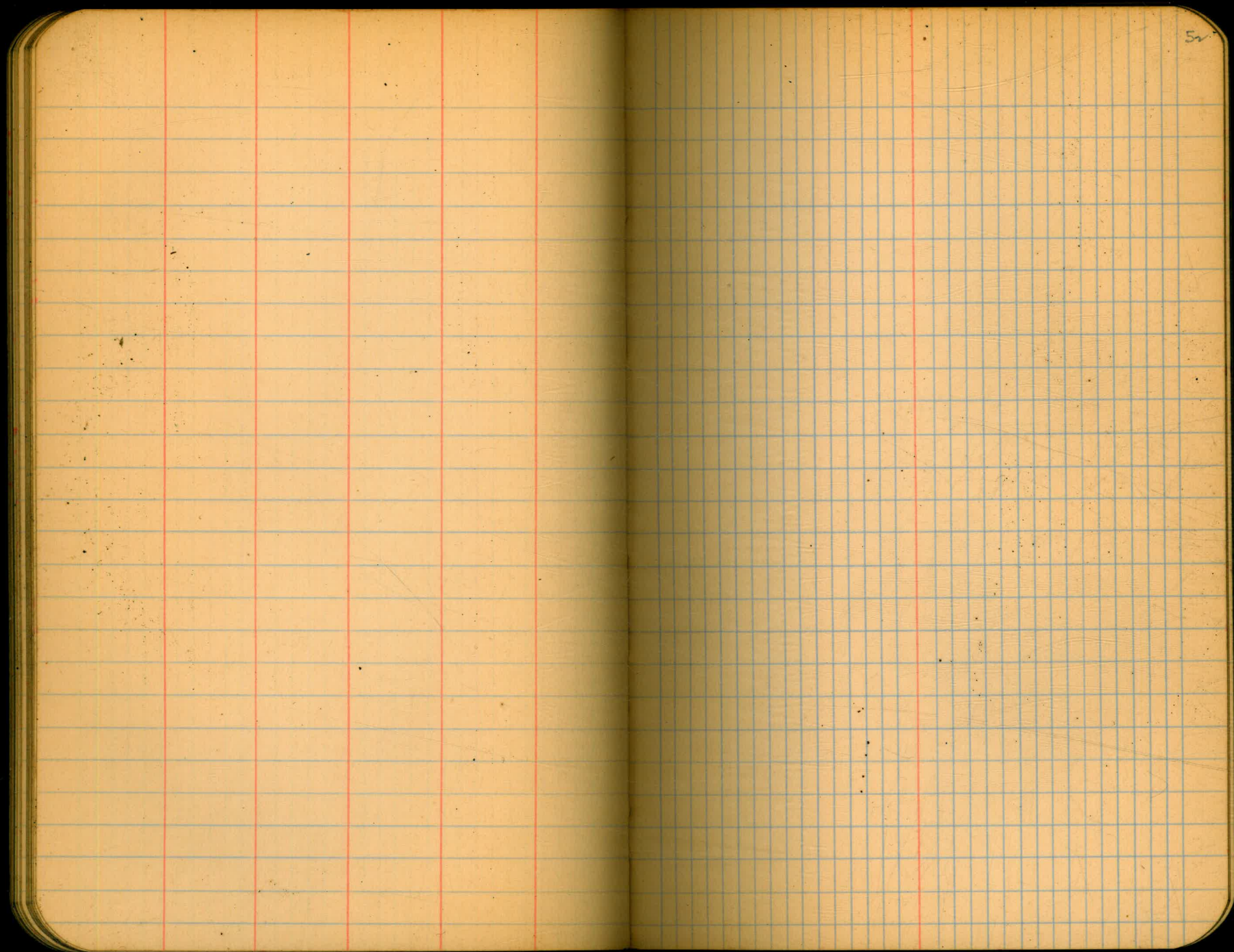


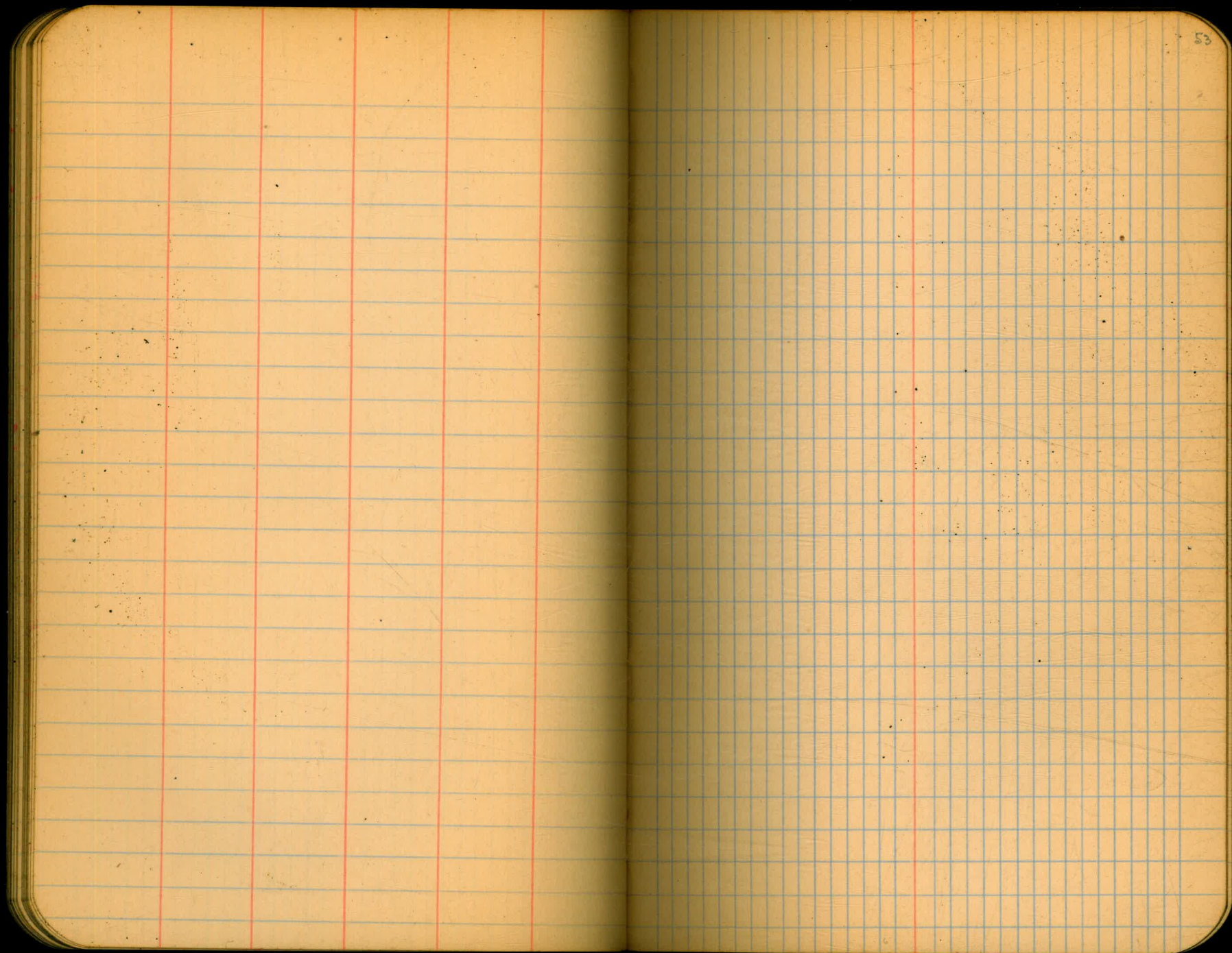


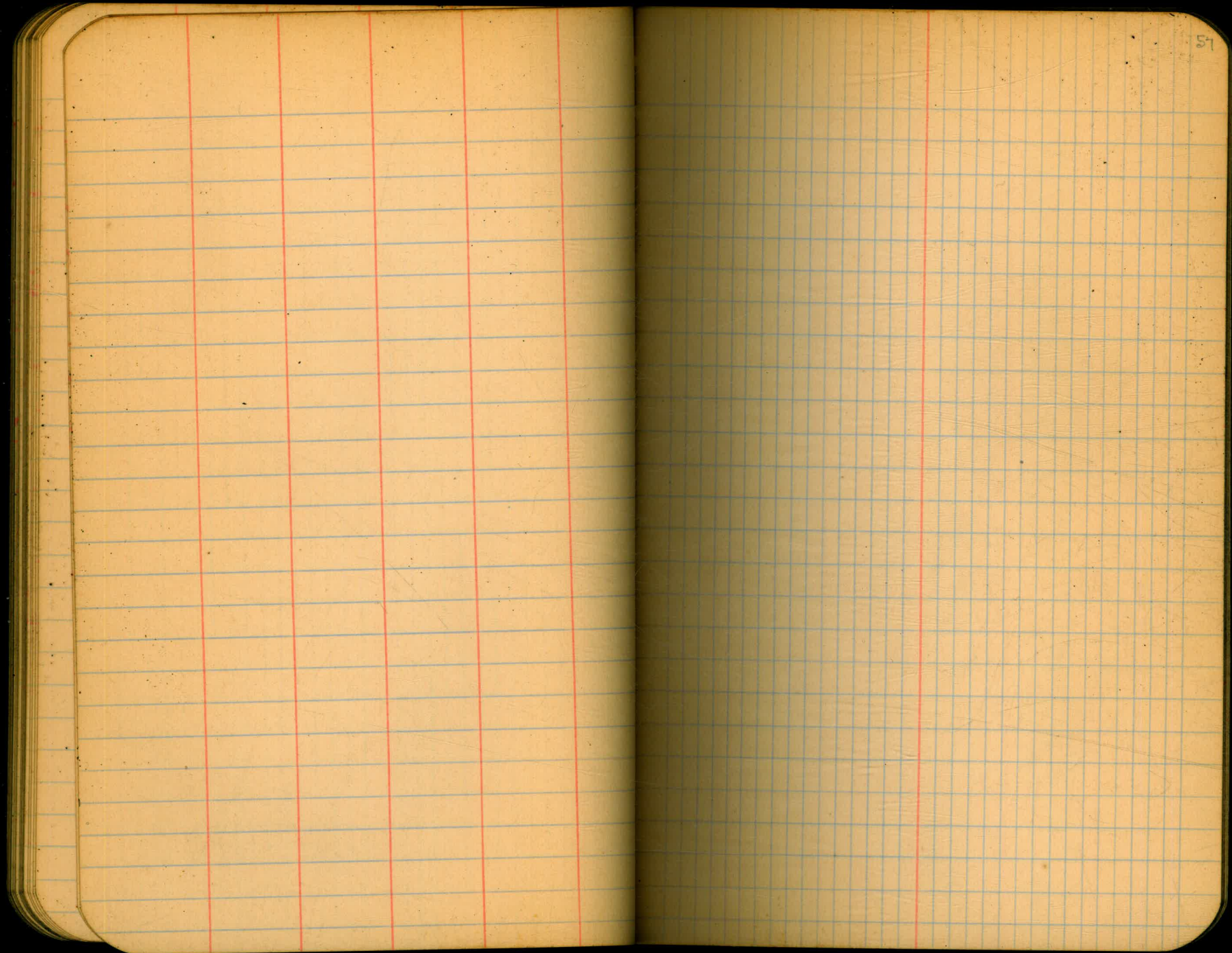


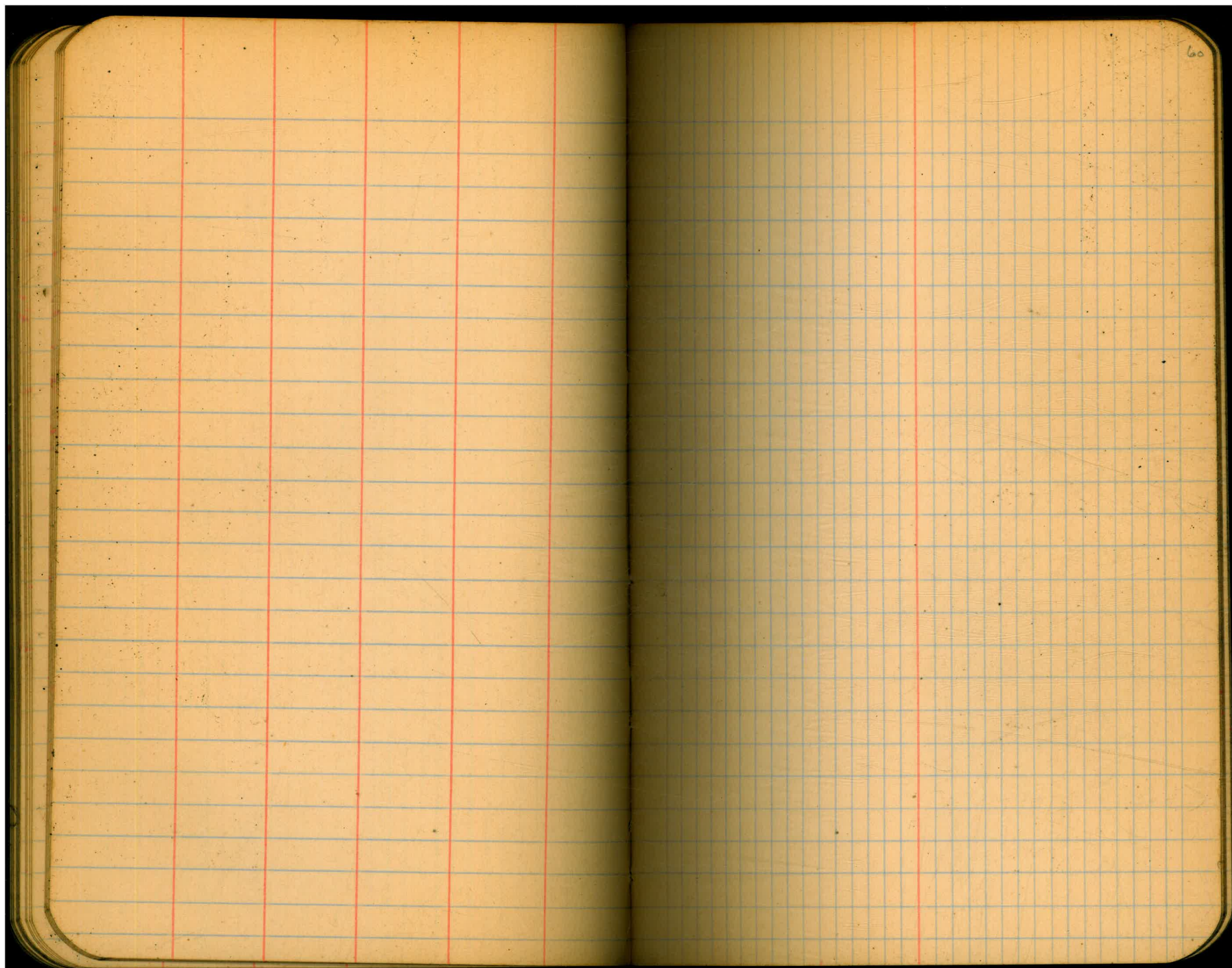


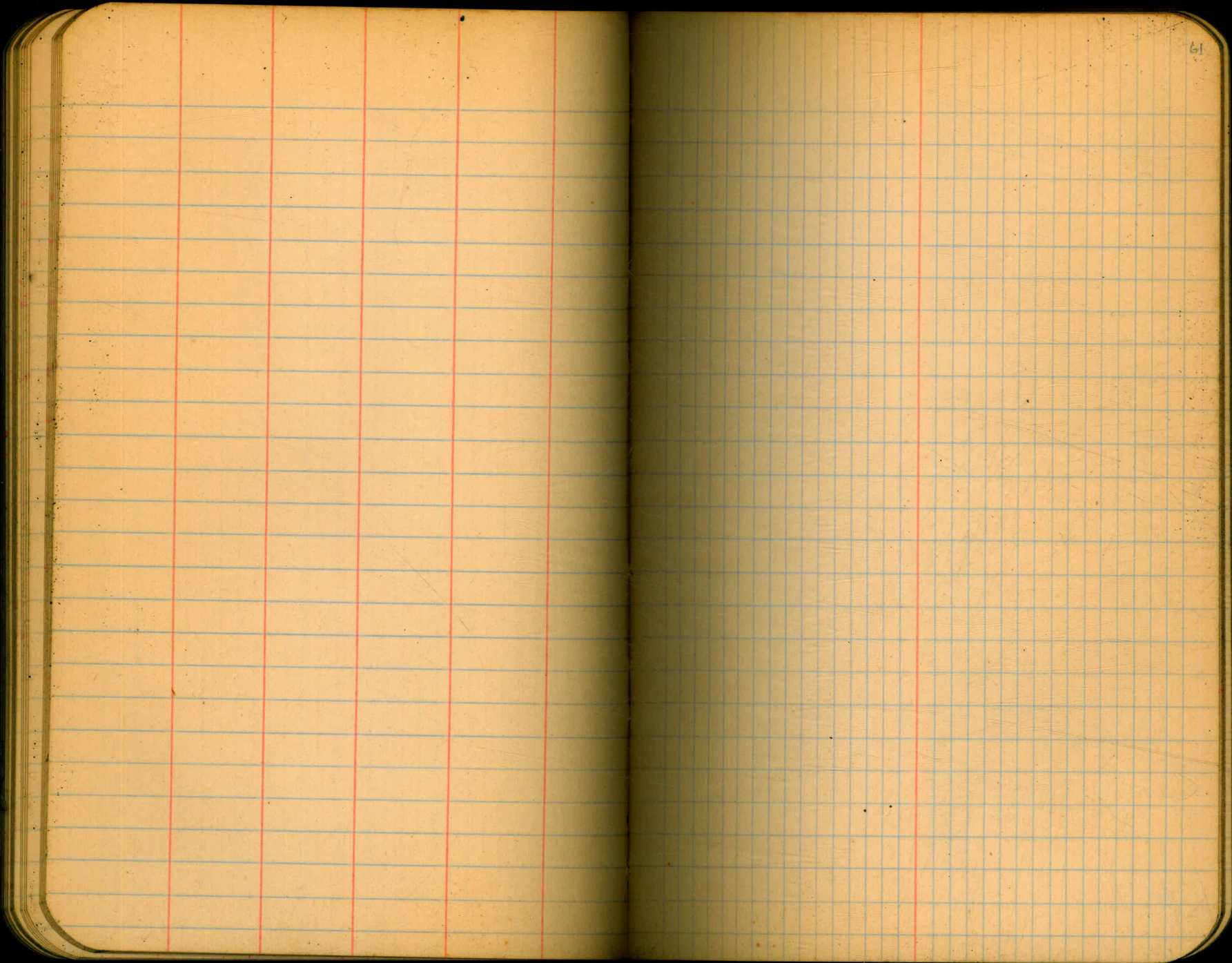


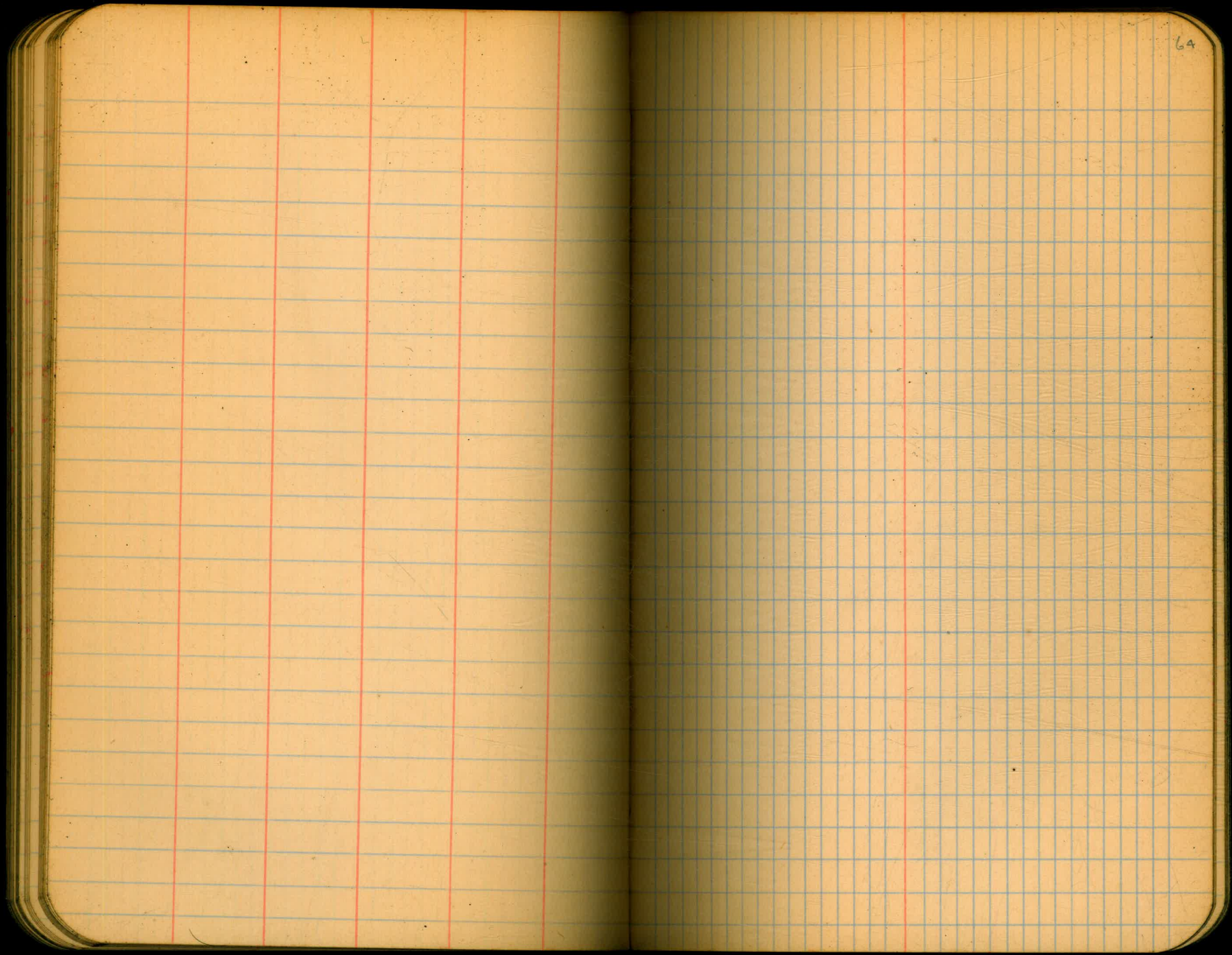


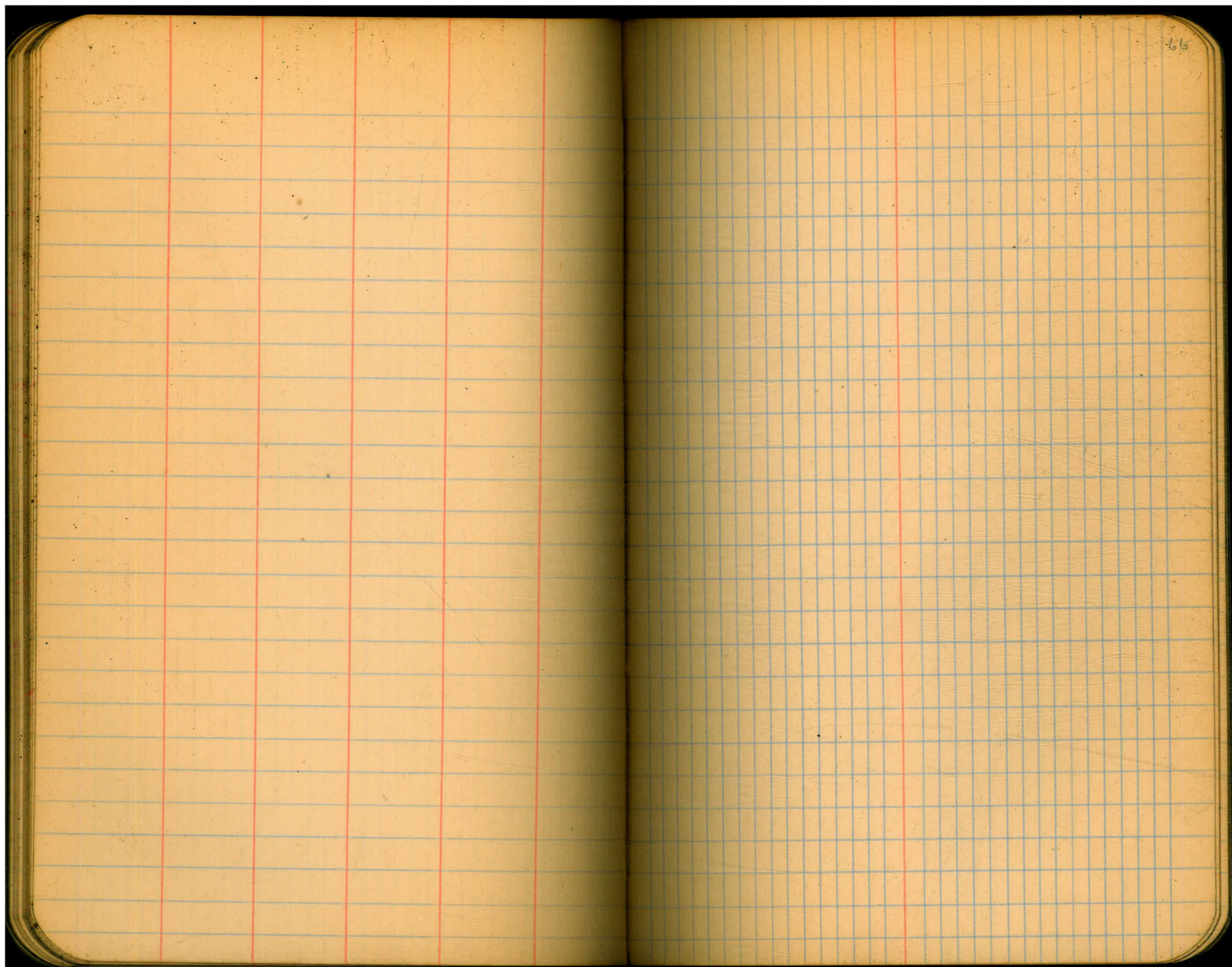




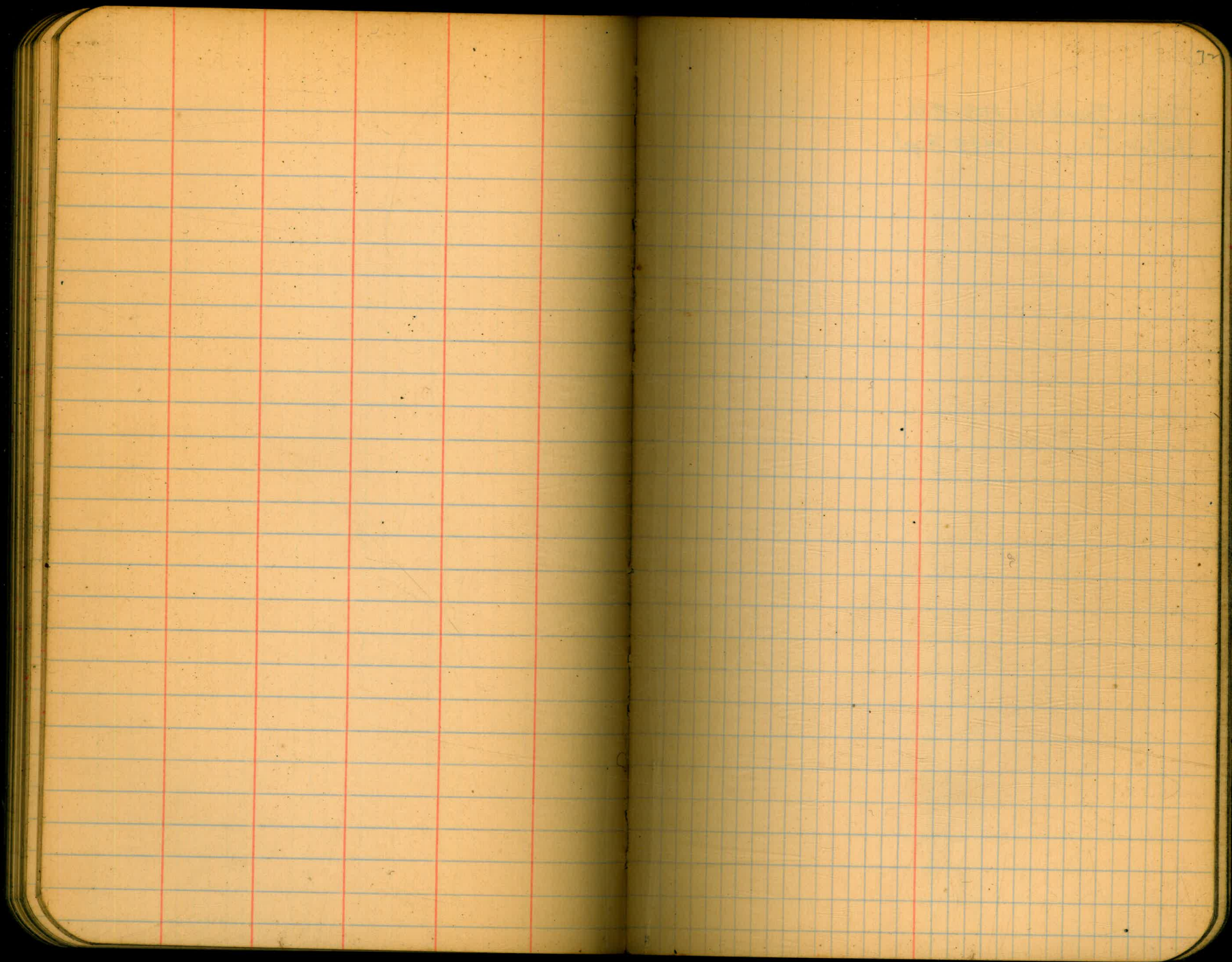








26



Johnson, Frank U 1718-B St.
Butler, T.L. 1445 Rigel

Tunnel No 4
Total Length 0c18 48 ft

NO 4
Tunnel NO 6 0c23-63 1/2

Tunnel NO 2 106 ft

Tunnel NO 3 143-73-50-26 ft

Tunnel NO 9 29 ft

Tunnel NO 8 102 ft

Tunnel NO 7 168 ft

Tunnel NO 5 138 1/2 ft

Tunnel NO 1 125 ft

207

March			
5	Gas for Bunch Pass	9 gal	
11		8 gal	
	and oil	6 gal	
March 8 th	Gas for Howard Camp	10 gal	
March 16	Gas Howard Camp	5	
3-18	Gas Howard Camp	5 gal	
4-11	Gas Howard Camp	4 gal	
4-15	Gas Truck Smith	9 gal	
	and 1/2 gal oil		
4-14	Gas Smith truck	10 gal	
	and 1 gal oil		
	Gas Smith truck	3 gal	
	1/2 gal oil		
7-19	Gas Smith truck	9	
	1/2 gal oil		
19	Gas to Camp Burn	40	

Mr. Cassell
Hrondel Corp.

Lien Plate 3. @ 123
No Names of Party of 3 Men

Mr. Williams
Mr. O'Rourke

Macco and Lewis
San Cristobal No 2
Eng. Plapp
Los Angeles Cal.

Feb. 11th

Goodpastor, J.W.

Randall 44 24

*10

Basura, John ✓

3535 National

an

11

Blunk, Roy K. ✓

4050 - 36th

15

Bryton, Jack ✓

3388 Gregoryst

24

Burton, Robt M. ✓

9

12

Eichler Albert R.

1480 E. st

16

Hooper, W^m H

17

Serbia, Jos. J. ✓

Blacksmith 3503

3

Smith, Bud M.

Truck Driver 3583

133

Peck, Jno. M. ✓

Laborer.

JL Kndemer

4142 Hamilton

Robt J. Mortimer

2218 Harrison

Frank E. Bellamy 4003 Park Blvd

B.M. Smith 3583 Central, R. 4767

H Wood

Hillcrest 8839

Burrell

M.L. 2075 Irving^{San}

Tompson A.V.

3418 MarlboroughRd - Ran 1284

Pine Grocery store

Edwin 533

Main 37.98

Sewite R 5044

Central av R 4747

Franklin 5952

Henry Edwardson
1816 Lincoln

Frank E Bellamy H 4814
1816 Lincoln
Newton J Belarde
635 - 22nd St Fl 4925

Albert R Eickler

Paul Majias

DR Hetrick
2875 E St

Lee A Bailey

John Barwic 3535 National

Wm F Carpenter 1302 South 37th

Ed Philipson 4121 Wilson

Burton Robert M.

1420 - 7th St E

Ed. Mueller

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side of roadway
stake for any width roadway, slope 1% to 1.
If ground is nearly level, the cut or fill at any
stake is located by the double entry method in
left column of top row. The number in the
right column is the distance from the stake to the
side of the roadway. If the ground is sloping
down the slope stake is located in the right
column of the table. Add the amount
amount in cut column to the amount in table. If
to cut or fill and the distance in table. If
cut or fill and the distance in table. If
cut or fill and the distance in table. If

IMPROVED TABLES

AND

INFORMATION

TABLE No. 1.

To find tangent and external for curve
any other degree divide by degree of curve and
add correction found in column of correction.
Degrees of curve with a given radius to
by dividing tangent (or external) opposite P by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

4
186
149

375