

El Capitan Reservoir  
Levels from Sweetwater  
Bench Mark.

W165

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LEVEL BOOK

380

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1089

1089

Return this book to City Engineers  
Office San Diego Cal.

MICROFILMED

JAN 5 1966

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UNIVERSITY MICROFILMS

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Corrected B.M.<sup>2</sup> from Lakeside  
to El Capitan Dam site

75

+	+	-	Elev.
11.86	354.27		
7.51	361.47	0.31	353.96
11.44	372.86	0.05	361.42
5.85	377.68	1.03	371.83
11.11	387.03	1.76	375.92
11.80	398.70	0.13	386.90
9.51	408.06	0.15	398.55
11.40	419.27	0.19	407.87
11.69	430.90	0.06	419.21
12.15	442.65	0.40	430.50
11.60	453.94	0.81	442.34
11.77	465.06	0.65	453.89
10.09	474.44	0.71	464.35
12.33	486.24	0.53	473.91
12.60	498.06	0.78	485.46
12.12	509.88	0.30	497.76
10.17	519.94	0.11	509.77
11.0	518.38	2.66	517.52
0.59	506.26	12.74	505.67
		10.97	495.29

U.S. Coast + Geo. Survey B.M.

347.413

T 16 S R 1 W on SBM Riddle Road  
2' south of NW Cor Sec 26

JUNE 22 - 1941

Williams Chief

Bunker Level

Riddle Road

2.07

405.99

(12' high)  
B.M. Eucalyptus Post Joq in  
fence W. Side Road entrance  
Sefton Ranch Drive

186.69

33.81

## Meridian Road

2

+	x	-	Elev.
			495.29
0.44	495.73	6.17	489.56
3.27	492.83	0.74	492.09
10.82	502.91	0.15	502.76
9.82	512.58	1.62	510.95
11.68	522.63	1.16	521.47
6.86	528.33	0.07	528.26
12.10	540.36	0.50	539.86
11.89	551.75	0.12	551.63
12.45	564.08	0.33	563.75
12.12	575.87	0.05	575.82
11.40	587.22	0.06	587.16
11.94	599.10	0.35	598.75
12.09	610.84	1.12	609.71
3.98	613.69	11.56	602.13
1.20	603.33	12.14	591.19
0.63	591.82	9.46	582.36
0.78	583.14	12.52	570.62
1.20	571.82	12.30	559.52
1.64	561.16		

489.56 set B.M. in Auto Club of Cal. Sign W.S.  
Road oppo. Meridian School

on Rock E side Road

3.00

607.84

set B.M. <sup>W</sup> E side Meridian Road  
on white telephone pole Cuyamaca  
Pipe line

6/23/1921 AM  
Begin

582.36

Rock E side of Road 1/2 way  
downhill toward old Wind Mill

51  
15  
36  
9  
13631

76  
47  
25  
4  
17044

6/23/1921

Bunker  
Riddel

3

Weather calm & Cloudy AM.  
Clear, Hot, & light breeze PM.

+	T	-	Elev
	561.16		
1.11	550.01	12.26	548.90
		12.70	537.91
2.43	539.74	12.28	527.46
0.51	527.97	12.57	515.40
2.35	517.75	8.76	508.99
3.45	512.44	3.13	509.31
1.60	510.91		01.0 510.81
		9.80	501.11
0.42	501.53	7.04	494.49
0.63	495.12	8.67	486.45
1.63	488.08		5.30 482.78
		5.05	485.03
4.37	489.40	7.49	481.91
	485.62		482.17
3.71	<del>484.62</del>	3.45	<del>481.17</del>
	485.60		481
3.43	<del>484.60</del>	4.43	480.17
	487.72		487.42
6.55	486.72	0.30	<del>486.42</del> BM.
	492.74		492.17
50	491.74	0.59	<del>491.17</del>
69	498.43		496.86
59	<del>497.43</del>	1.57	<del>495.86</del>
56.40	502.99		502.59
	501.99	0.40	<del>501.59</del>
	509.09		
6.50	<del>508.09</del>		

BM. on Pole of High Tension Power line on W side of Meridian Road, where El Cajon road crosses, Just North of Eucalyptus Grove on E side of Merid Road.

BM. on Tel pole on E side of road 3' N of bridge at junct of Wye roads, from San Diego, Bostonia to Meridian road. about 500' South of concrete paved road

On spike in pole on W Side of Road 100' N of Bostonia Store - (Noon)

77  
67  
61  
+  
108.27

6/23/1921 AM

+	⌈	-	Elev.
	503.09 509.09	0.23	507.86
12.89	520.75	0.40	520.35
	534.10 <del>535.10</del>		
12.75		0.19	532.91
	545.87 <del>544.87</del>		
11.96		0.29	545.58 544.58 B.M.
	556.53 <del>555.53</del>		
10.95		0.14	556.39 555.39
	563.89 <del>562.89</del>		
7.50		1.44	562.45 561.45
	575.02 <del>574.02</del>		
12.57		0.13	574.89 573.89
	585.64 <del>584.64</del>		
10.75		0.17	585.49 584.49
	596.00 <del>595.00</del>		
10.52		0.16	594.84 594.84
	606.79 <del>605.79</del>		
10.15		0.22	606.57 605.57
	619.14 <del>618.14</del>		
12.57		0.04	619.10 618.10
	631.78 <del>630.78</del>		
12.68		0.01	631.77 630.77
	644.48 <del>643.48</del>		
12.71		0.01	644.47 643.47
	656.87 <del>655.87</del>		
12.40		0.46	656.41 655.41
	663.37 <del>662.37</del>		
6.96			656.94 655.94
			643
	660.94 <del>659.94</del>	9.23	654.14 653.14
6.80			648.29
	651.84 <del>649.84</del>	12.65	647.89
3.55			639.34
	650.84 <del>641.88</del>	12.50	638.34
	640.88 <del>640.88</del>		
2.54			629.39
	629.81 <del>628.81</del>	12.09	628.79
0.02			

On nail in telephone pole (10" diam) No 71973, on W side of road to Bostonia. 1st pole S of big curve in Road 50' N of cor of new fence

B.M. on 1st tel pole N of summit, on E side of road to Bostonia.

171.08

16  
26  
16  
3  
50.26



+	+	-	Elev.
	<del>628.81</del>	12.50	<del>617.31</del>
	629.81		618.31
0.09	616.40	12.54	604.86
	605.29		603.86
0.43	<del>604.29</del>	12.23	593.06
	593.44		592.06
0.38	<del>592.44</del>		580.77
	580.80	12.67	579.77
0.03	<del>579.80</del>		568.30
	568.83	12.50	567.30
0.53	<del>567.83</del>		556.42
	556.75	12.41	555.42
0.33	<del>555.75</del>		547.23
	548.09	9.82	546.23
0.86	<del>547.09</del>		535.53
	536.08	12.56	534.53
0.55	<del>535.08</del>		524.16
	524.38	11.92	523.16
0.22	<del>523.38</del>		514.43
	514.58	9.95	513.43
0.15	<del>513.58</del>		502.04
	502.83	12.54	501.04
0.79	<del>501.83</del>		495.69
	496.23	7.14	494.69
0.54	<del>495.23</del>		486.28
	486.40	9.95	485.28
0.12	<del>485.40</del>		473.73
	474.47	12.67	473.73
0.74	<del>473.47</del>		461.90
	462.83	12.57	460.90
0.93	<del>461.83</del>		450.56
	451.39	12.27	449.56
0.83	<del>450.39</del>		438.80
	440.47	12.59	437.80
1.67	<del>439.47</del>		428.41
	428.66	12.06	427.41
0.25	<del>427.66</del>		416.99
	418.86	11.67	415.99
1.87	<del>417.86</del>		

91  
8x  
2x  
11.31

86  
96  
64  
15  
22 9.26

2.69

425.97  
~~424.97~~

B.M. in 2nd Tel. Pole south of Olive  
Grove E. Side County Road  
2nd Pole south of Summit Ave & County  
Road

Bunker  
Riddel  
6/23/21 PM

5

B.M. on

Nail in Tel post which has a guy wire running  
across Road to dead man on W. Side  
About 100 yds S. of Sign Board  
(End 6/23/21) "Riverview Farms"

Williams  
Bunker 6/24/21  
Riddel

	+	-	
	418.86		406.99
	<del>417.86</del>		405.97
	408.03	11.87	
1.04	<del>407.03</del>		396.40
	396.74	11.63	375.40
0.34	<del>395.74</del>		388.18
	392.55	8.56	327.18
4.37	<del>391.55</del>		392.58
	399.54	0.04	<del>391.53</del>
12.16	<del>398.54</del>		393.65
		5.89	<del>342.65</del>
3.43	397.08		
		2.27	394.81
6.01	400.82		
		3.92	397.00
5.75	402.75		
		3.67	399.08
5.86	404.94		
		2.60	402.34
12.67	415.01		
		0.34	414.67
2.86	417.53		
		8.10	409.43
2.51	411.94		
		5.85	406.09
2.45	408.54		
		5.03	403.51
4.83	408.34		
		3.75	404.59
0.87	405.46		
		5.10	400.36
4.36	404.72		
		5.14	399.58
3.15	402.73		
		2.75	399.98
4.46	404.44		
		2.94	401.50
5.13	406.63		

check on County Highway B.M. #19 1/2 Elev 393.646  
R.R. SPK in pole Int. Road from Bostonia  
With Sanitar to Lakeside Road

Rod  
4.58 400.36 check on C.H. B.M. #21 Elev. 400.356

6.22 405.74 check on C.H. B.M. #22 1/2 Elev 405.71  
R.R. SPK in Power Pole North across st.  
from Lakeside Shore

0.80 403.64 Set SPK B.M. in Cotton wood Tree Blazed on  
West side, Tree south side road oppo. small  
Lakeside to Monte Road Mex. house  
oppo. east side Race Track

6/24/21 P.M.

+	Δ	-	Elev
	406.63	160	405.03
8.66	413.69	0.26	413.23
8.70	421.93	2.45	419.48
7.91	427.39	0.62	426.77
7.96	434.73	0.67	434.06
12.53	446.59	2.06	444.53
7.14	451.67	0.01	451.66
12.54	464.20	0.31	463.89
10.13	474.02	2.37	471.65
12.85	484.50	12.04	472.46
1.24	473.70	11.75	461.95
0.77	464.72	12.12	450.60
0.87	451.47	9.45	442.02
3.68	445.70	6.81	438.89
1.26	440.15	4.73	435.42
5.80	441.72	2.54	438.68
5.83	444.51	5.00	439.51
7.04	446.55	3.22	443.33
7.00	450.33 ✓		

7821

4.04

417.89

set opk. B.M. in Bridge Post 5. E. Cor. Bridge  
150ft past south turn in Road to Ment

7.69

466.33

set B.M. in S.D. Con Gas & Elec. Co Pole #74339  
at inf. Lakeside + Jamach Road

2191

+	Tk	-	Elev.
	450.33	0.75	449.58
372	452.80	339	449.41
9.40	458.81	181	457.00
1.44	458.44	5.87	452.57
5.76	458.33	2.71	455.62
3.09	458.71	0.90	457.81
4.60	462.41	113	461.28
5.06	466.34	2.59	463.75
4.37	468.12	1.53	466.59
5.71	472.30	0.00	472.30
12.38	484.68	0.36	484.32
9.45	493.77	0.58	493.19
12.25	505.54	3.79	501.75
0.00	501.75	12.81	488.94
0.63	489.57	11.70	477.87
5.51	483.38	4.11	479.27
3.30	487.57	12.7	481.30
8.26	489.56	0.39	489.17
2.45	491.62	4.05	487.57
7.24	494.81		

(59.74)

4.41 B.M. Set B.M. SPK in 30' Cor. Gass Ele. Pole #72744  
 ✓ 445.92 S. side Road 1/4 mile East Monte Pumping Plant

2.71 B.M. Set B.M. SPK in Large Sycamore nearest Road  
 455.62 S. side Road in cluster of 11 sycamores  
 End of June 24/21  
 Begin June 25/21

5.11 Set B.M. SPK in large 10' Cor. Fence Post  
 467.19 N. Side Road on Foster's West fence line  
 Just West of old Monte Ramell House

0.98 Set B.M. SPK in large Oak south of Road in  
 487.40 Large cluster of Boulders

+	x	-	Elev.
	494.81	6.70	488.11
9.19	497.80	7.97	489.83
6.34	494.17	4.97	489.80
12.83	502.63	0.04	502.59
7.97	510.56	8.17	502.39
3.28	505.67	3.27	502.40
6.22	508.62	1.85	506.77
0.19	506.96	6.65	500.31
11.05	511.36	0.77	510.59
12.29	522.88	11.05	511.83
0.03	511.46	9.64	501.82
4.09	506.31	3.19	503.12
5.19	508.31	2.82	505.49
5.46	510.95	2.20	508.65
5.11	513.76	2.99	510.77
4.64	515.21	7.19	508.04
1.92	509.96	2.75	507.21
4.96	512.17	3.22	508.95
5.41	514.35		

(84.83)

2.05 B.M. <sup>5PK</sup> 500.58  
 Set B.M. in Root of Oak Tree 8' South & 7 feet  
 above Road 150 ft East of where power pole  
 line leaves road and turns North to River

2.99 510.77  
 Set B.M. <sup>10</sup> 5PK in root of Oak Tree East of Road  
 and 100 feet S.E. of County Pump in  
 Monte Ranch (County Oak Grove)

+	π	-	Exr.
	514.35	2.70	511.65
5.15	516.80	1.96	514.84
5.13	519.97	2.53	517.44
5.18	522.62	2.36	520.26
6.30	526.56	1.33	525.23
6.22	531.45	1.77	529.68
6.34	536.02	2.47	533.55
9.11	542.66	3.83	538.83
6.53	545.36	3.25	542.11
9.61	551.72	4.07	547.65
4.79	552.44	2.53	549.91
5.73	555.64	1.26	553.78
8.46	562.24	5.43	556.81
		9.36	552.88
		0.97 T.P.	561.27
11.32	572.59	1.42	571.17
1.42	572.59	12.20	560.39
0.06	560.45	9.40	552.05
3.07	555.12	5.53	549.59
		59.18	

B.M. set spr. B.M. in Sycamore Tree 20' north of Road S. Side River about 200' E of Sta 21+67.2 River Traverse

0.09 531.36 Sta 30+00 Hub River Traverse

5.96 530.06

Hub 37+59.2

Hub 44+48.9

Hub 52+25.2

Hub 60+17.3

Piece of 3/4" Drill Steel near Booster Pump East of Pipe Line

76+34.4 Int Hole #1 + Hole #3 with River Traverse line

R stream on line between Test #1 + #3

518 x 1/2"

B.M. 571.17 set 3/8" bolt without head in root of Oak Tree about 50' west of Drill Man's House and south of the Road

			Elev
			549.59
7.37	551.96	4.31	547.65
3.73	551.38	5.97	545.41
7.23	547.64	5.52	542.12
3.20	545.32	6.47	538.85
3.47	542.32	8.75	533.57
2.75	536.32	6.27	530.05
2.46	534.51	6.17	526.34
5.07	531.41	(0.06)	531.35
		6.59 T.P.	524.82
3.05	527.87	5.75	522.12
3.72	525.84	5.04	520.80
1.62	524.48	6.52	515.96
2.90	518.86	1.17	517.69
46.57 9.94	527.63	3.30	524.33 (71.83)
0.90	525.23	11.45	513.78
2.80	516.58	5.27	510.71
2.79	513.50	5.10	507.60
3.56	511.16	6.27	504.89
6.78 8.73	513.62	(32.74)	

Riv. Trav.  
check on B.M. 60+17.3 B.M. 547.65 (16)

Riv. Trav.  
check on B.M. 52+35.2 B.M. 542.11

check on B.M. Sta 37+44+48.9 B.M. 538.83

check on B.M. Sta 37+59 B.M. 533.55

check on B.M. Sta 30+00 B.M. 530.06

check on B.M. in sycamore tree S.E. of Sta 2469.2  
B.M. 531.36

End June 27-31  
set B.M. 524.33 in crotch of Twin Oaks about 700 West  
Beg June 28/31 of Monte Ranch line on Northside Road  
S.S. River

+	x	-	Elev
	513.62	3.78	509.84
4.45	514.29	(3.49)	510.80
		6.77 TP	507.52
3.47	510.99	6.50	504.49
4.15	508.64	5.19	503.45
3.85	507.30	5.22	502.08
6.18	508.26	6.08	502.18
3.37	505.55	8.31	497.24
12.40	509.64	5.78	503.86
3.58	507.44	8.71	498.73
2.81	507.54	7.25	500.29
11.30	511.59	8.75	503.34
2.48	505.82	(5.20)	500.62
		11.16 TP	494.66
1.16	495.82	6.50	489.32
9.32	498.64	5.06	493.58
0.62	494.20	4.13	490.07
1.37	491.44	6.00	485.44
9.00	494.40	11.08	483.36
89.54	487.37	115.77	

check on B.M. in Oak Grove spk in Oak Tree 510.77

Check on B.M. SPK in Oak Tree 150 ft east of Where Power Poles leave Road + Turn north to River Elev. 500.58



+	π	-	Elev.
	487.37	6.22	481.14
1.63	482.77	1.71	481.06
7.98	489.04	6.57	482.47
0.11	489.58	0.11	482.93
12.54	501.470	0.385	501.085
5.950	507.035	5.345	501.690
0.10	501.790	9.865	491.925
0.205	492.130	11.105	481.025
0.450	481.475	12.570	468.905
1.640	470.545	3.275	467.270
3.72	466.820	3.140	466.805
1.86	468.865	5.425	463.240
7.82	471.06	3.50	467.56
1.10	468.660	7.035	461.625
3.295	465.020	6.74	458.28
4.12	462.400	6.705	455.695
2.585	458.220	2.63	455.65
1.43	457.08	2.98	454.10
7.39	461.49	8.91	452.58
0.71	453.29		

check on B.M.

End of June 28/21  
check on B.M. in Cluster of Sycamores B.M. 455.67

	453.29	3.74	449.55
2.400	451.95	7.28	444.67
2.760	447.43	5.76	441.67
2.150	443.82	4.31	439.51
2.510	442.02	6.43	435.59
4.020	439.67	1.29	438.38
7.880	446.26	0.70	446.06
13.040	459.10	0.40	458.70
11.840	470.540	0.285	470.255
11.710	481.965	3.850	478.115
0.655	478.770	11.98	466.79
5.480	472.27	6.14	466.13
		6.41	465.86
0.09	465.95	12.75	453.20
0.23	453.43	8.38	445.05
3.28	448.33	7.48	440.85
0.78	441.63	12.90	428.73
1.22	429.95	9.34	420.61
3.60	424.21	6.54	417.67
1.11	418.78		

check on B.M. in Power Pole # 74389 B.M. 466.32

check on B.M. on Bridge

B.M. 417.89

	412.78		9.03	409.75
1.65	411.40		7.55	405.85
3.05	406.90		4.79	402.110
3.475	405.585		2.195	403.390
			5.870	399.515
2.42	402.135		3.910	398.225
9.050	407.275		7.480	399.795
4.710	404.505		7.170	397.335
10.600	407.935		3.310	404.625
6.575	411.200		5.82	405.38

check on B.M

check on B.M 405.12 BX # 22 1/2 H.W

405.72  
28  
34

1st 2/3

Harbor

15

for 2.5 etc

...

... 46

...

...

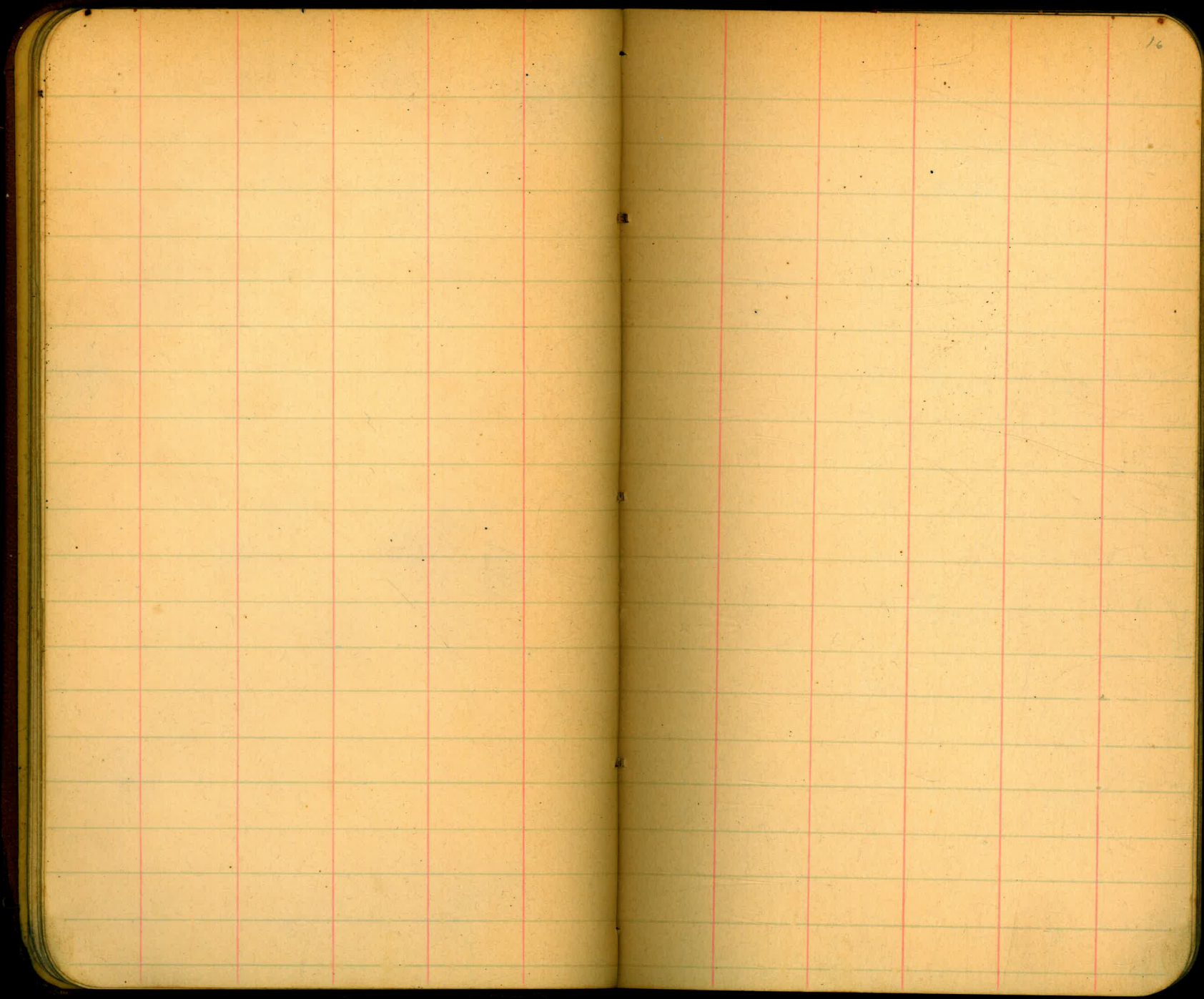
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16

Levels on  $\pm$  Stream Chocolate Creek

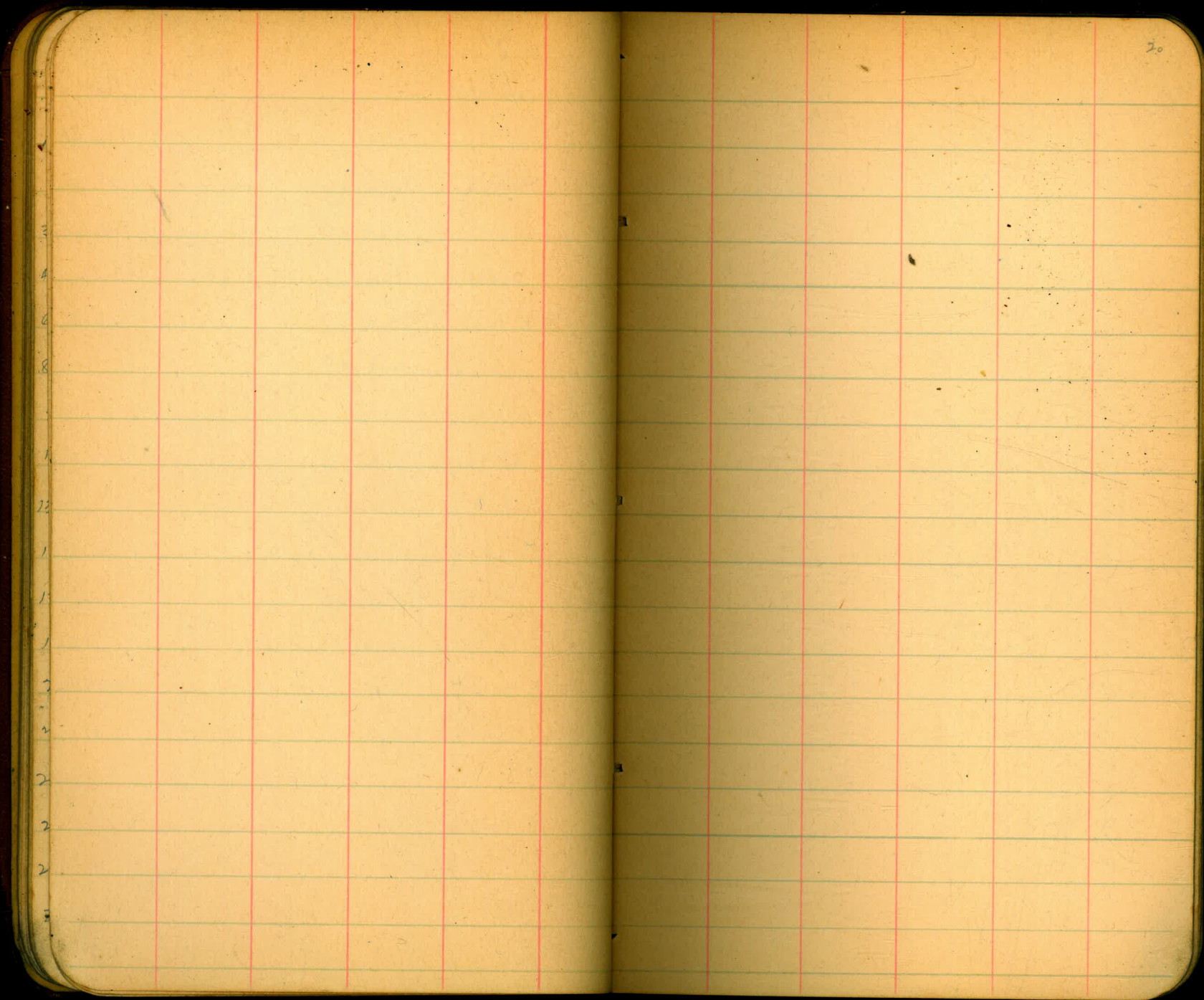
	+	$\pi$ -	-	Elev.
126+13.85	San Diego River =			578.85
0+00	Chocolate Creek			
	10.72	589.57		
3+00			7.0	582.6
4+50°	A		4.79	584.78
6			3.6	586.0
8+70°	A		1.07	588.50
	9.83	T.P. 598.33		
9			10.2	588.1
12			6.2	592.1
13+90°	A		4.40	593.93
15			3.5	594.8
17+50	A		1.80	596.53
	11.44	T.P. 607.97		
18			11.3	596.7
21			6.85	601.12
24			2.5	605.5
26+10°	A		1.27	606.70
	7.96	T.P. 614.66		
27			6.2	608.5
27+50°	A		4.83	609.83
28+40°	A		1.36	613.30
	6.95	T.P. 620.25		
29+85.8			4.80	615.45

	+	⊗	-	Elev.
		620.25		
1 30			4.9	615.3
31+40° Δ	8.83	T.P. 626.10	2.98	617.27
3 31+50.15 Int			7.80	618.30
4 32+70° Δ			5.16	610.94
6 33			3.4	622.7
8	8.66	T.P. 633.86	0.90	625.20
34+10 Δ		Ground	8.5	625.4
1 35+29° Δ			4.78	629.08
13 36	8.01	T.P. 639.57	2.20	631.56
1 36+40° Δ			6.49	633.08
15	8.12	T.P. 646.90	0.79	638.78
1 37+65° Δ			7.12	639.78
3 39+00° Δ	10.80	T.P. 655.32	2.38	644.52
2 40+70° Δ			4.41	650.91
2 42			1.7	653.6
2 43+09° Δ	8.89	T.P. 663.46	0.75	654.57
2 44+80° Δ			4.43	659.03
2 45			4.8	658.7
46+70° Δ		T.P. 662.39	1.07	662.39

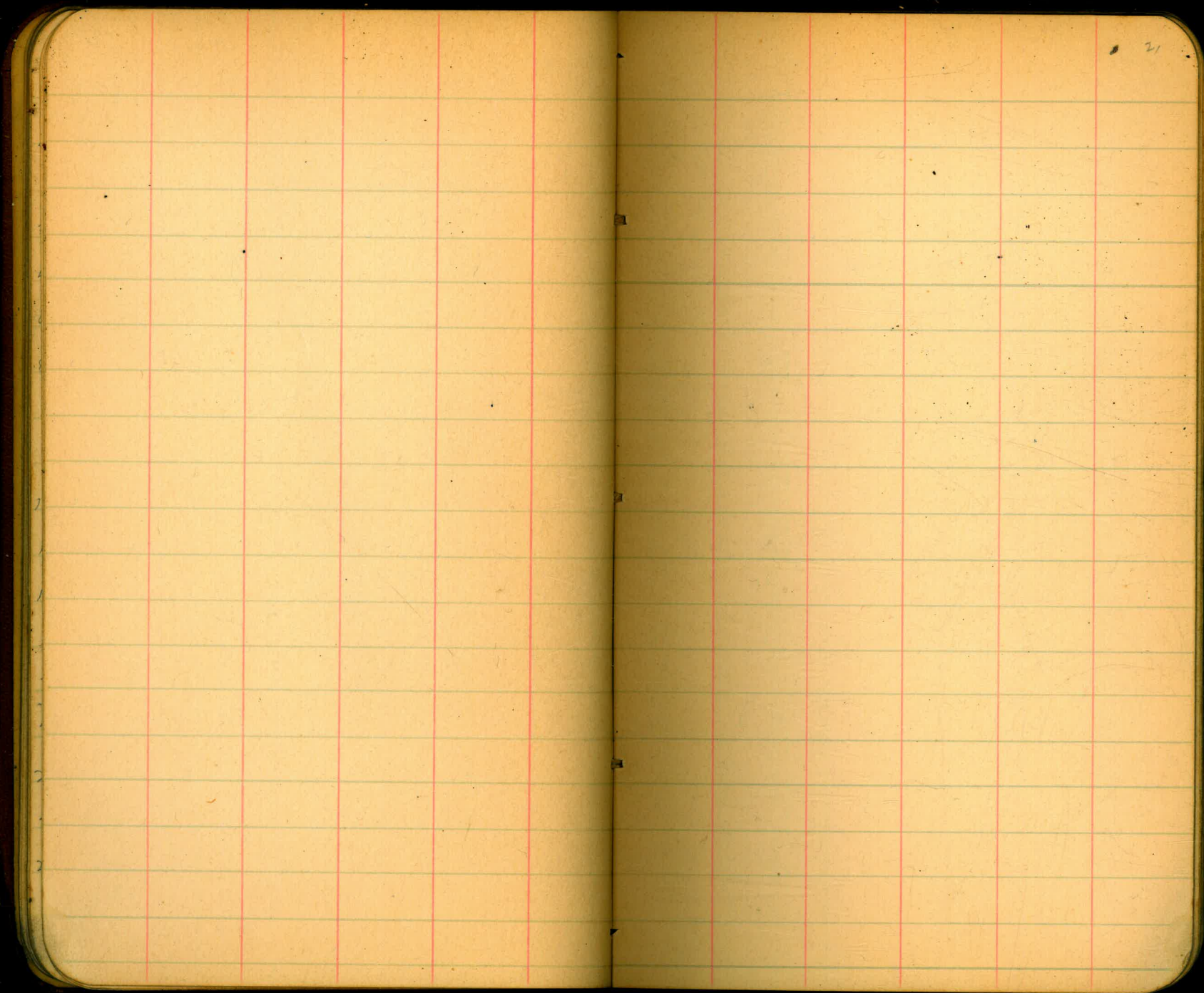
	+	⊗	-	Elev.
	10.50	672.89		662.39
1 47+45° A			4.55	668.34
48	12.25	683.64	T.P. 1.50	671.39
2 50+60° A	8.71	690.35	T.P. 2.00	681.64
A 51			6.9	683.5
4 52+00° A			4.28	686.07
8	6.31	696.22	T.P. 0.40	689.91
53+15° = W. Branch 0+00			4.48	691.74
1	9.65	705.56	T.P. 0.31	695.91
33 54			7.7	697.9
1 54+40° A			7.5	698.1
1 55+50° A	11.83	715.85	T.P. 1.54	704.02
1 57			6.2	709.6
2 57+85°			2.11	713.74
2			1.70	714.15

- Sta 675

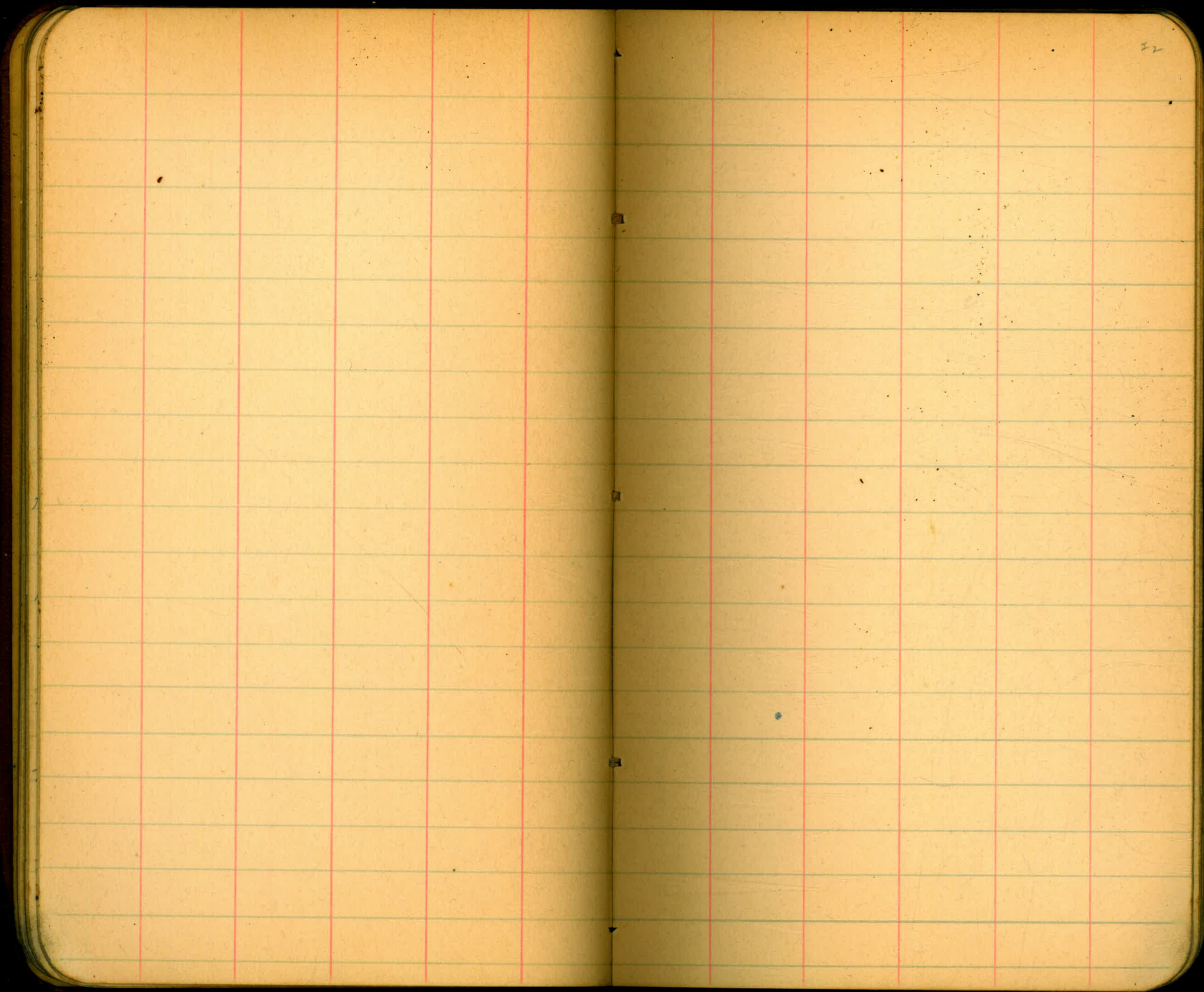


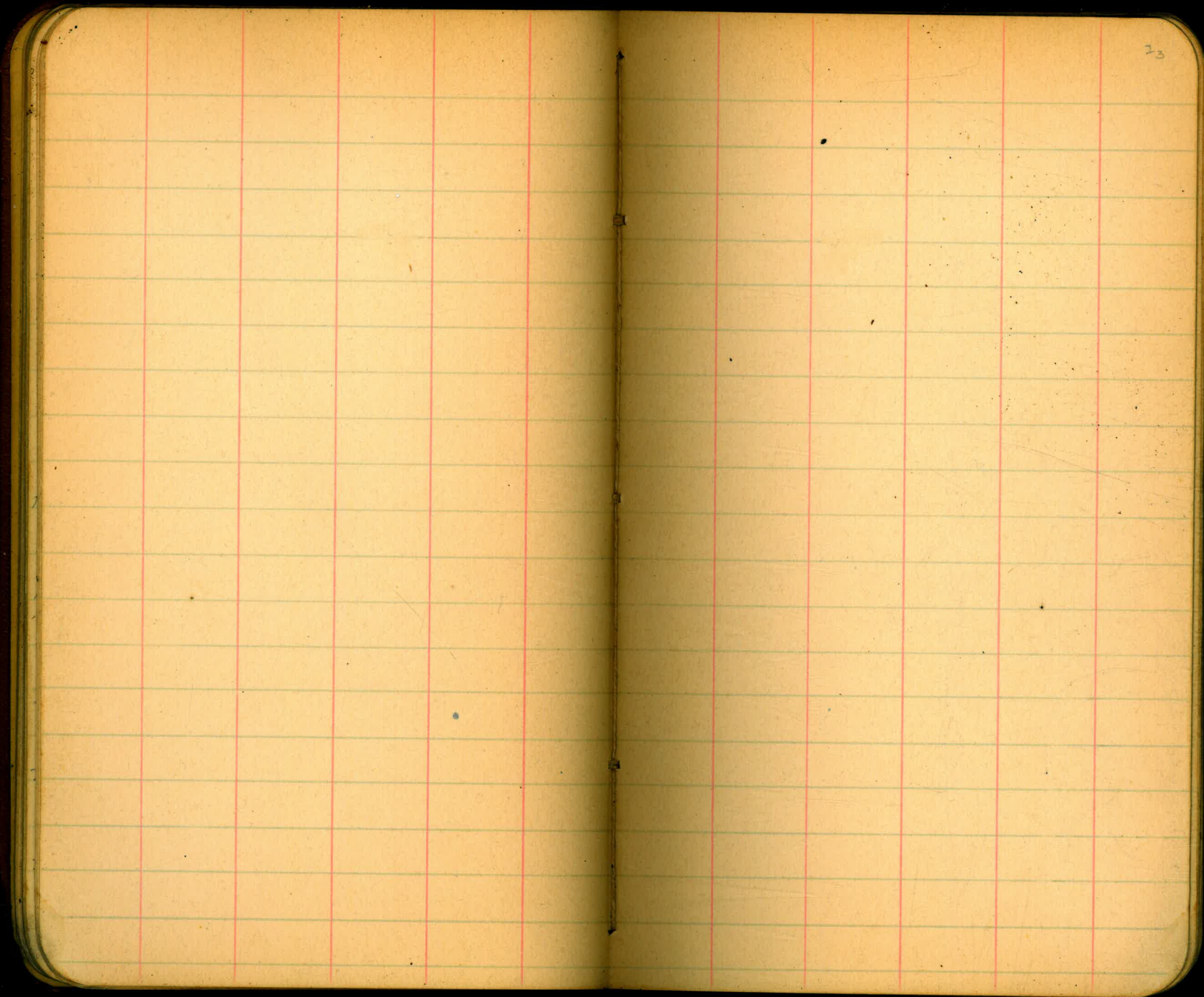


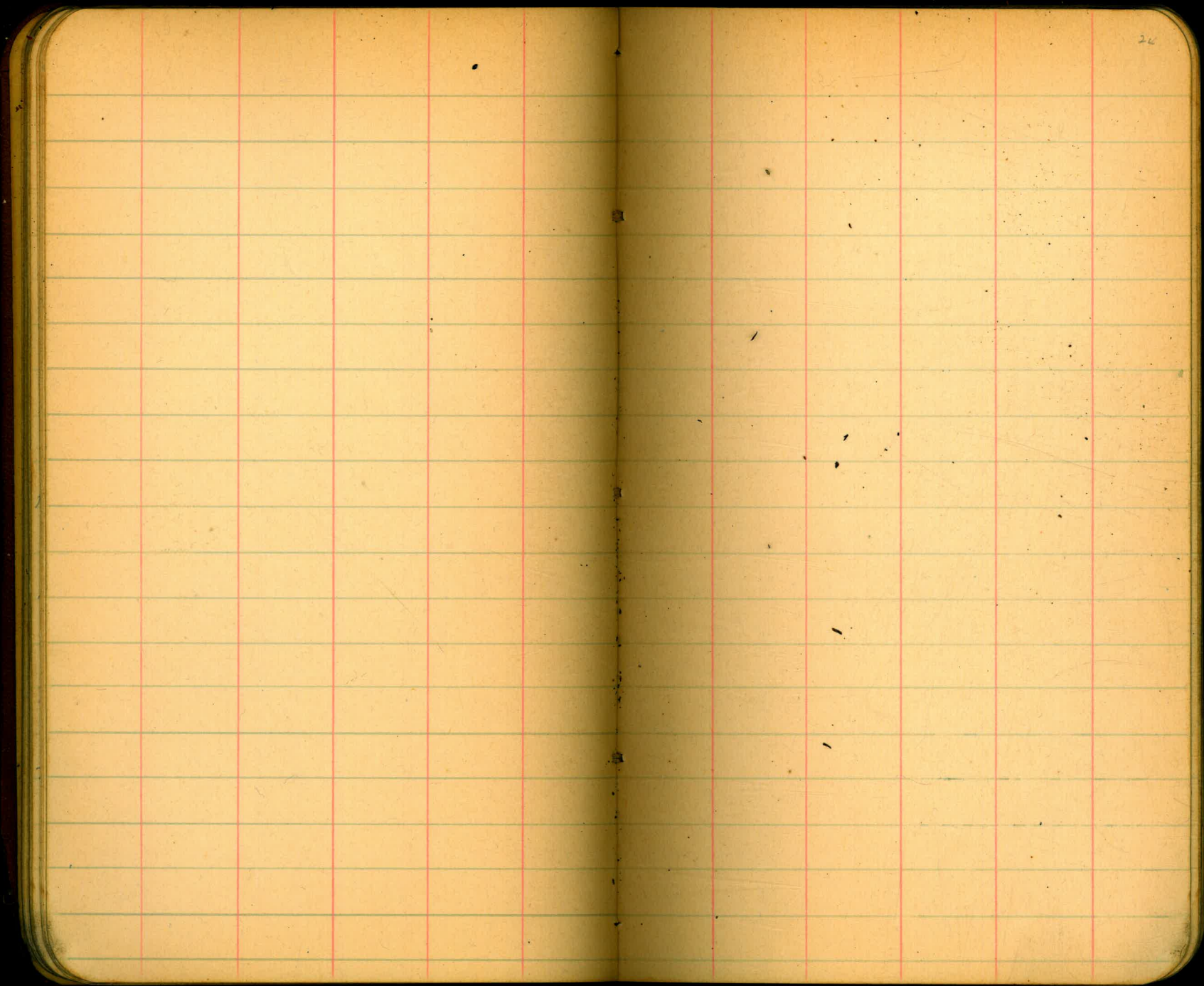
3  
4  
6  
8  
1  
12  
1  
1  
1  
2  
2  
2  
2  
2

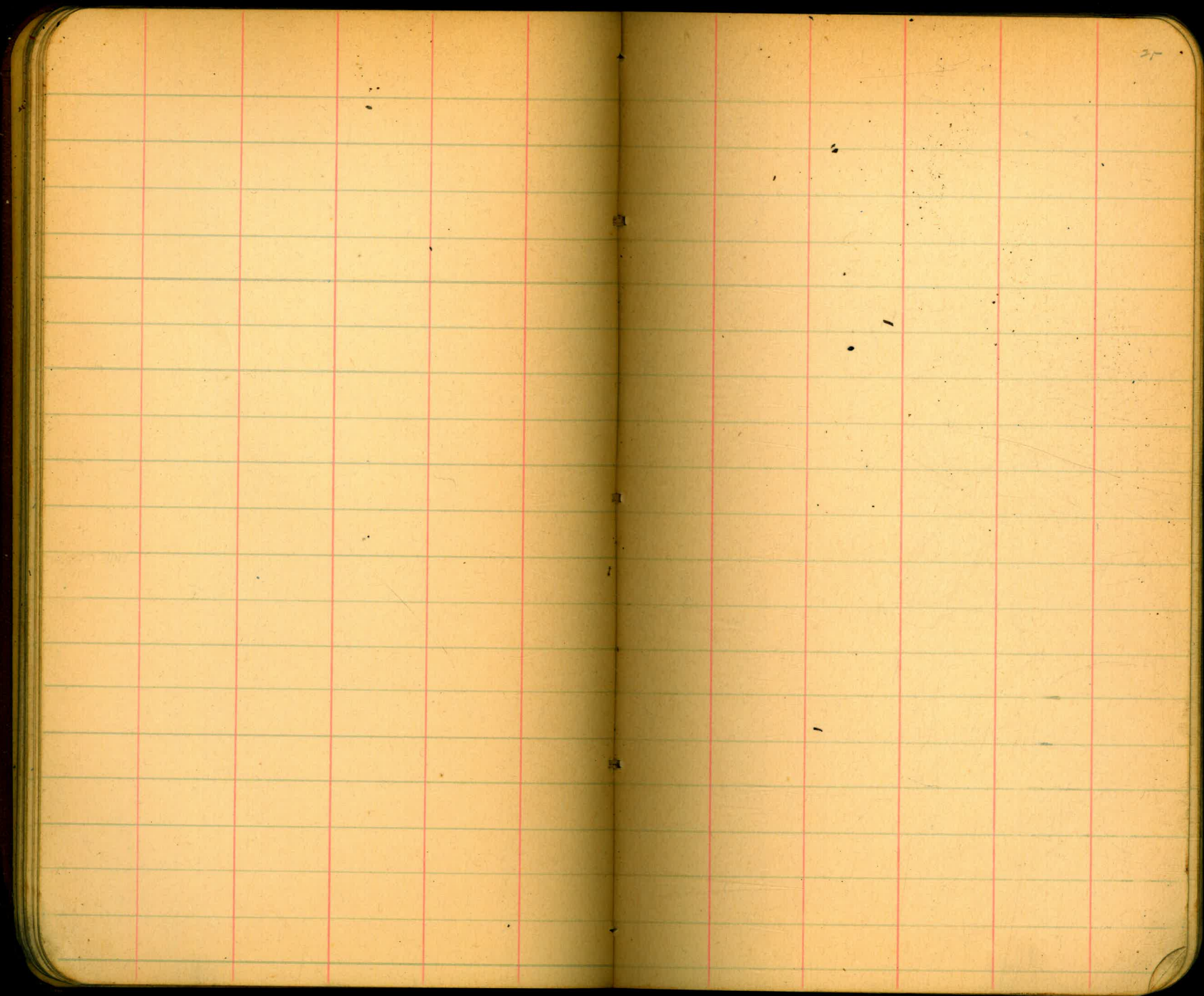


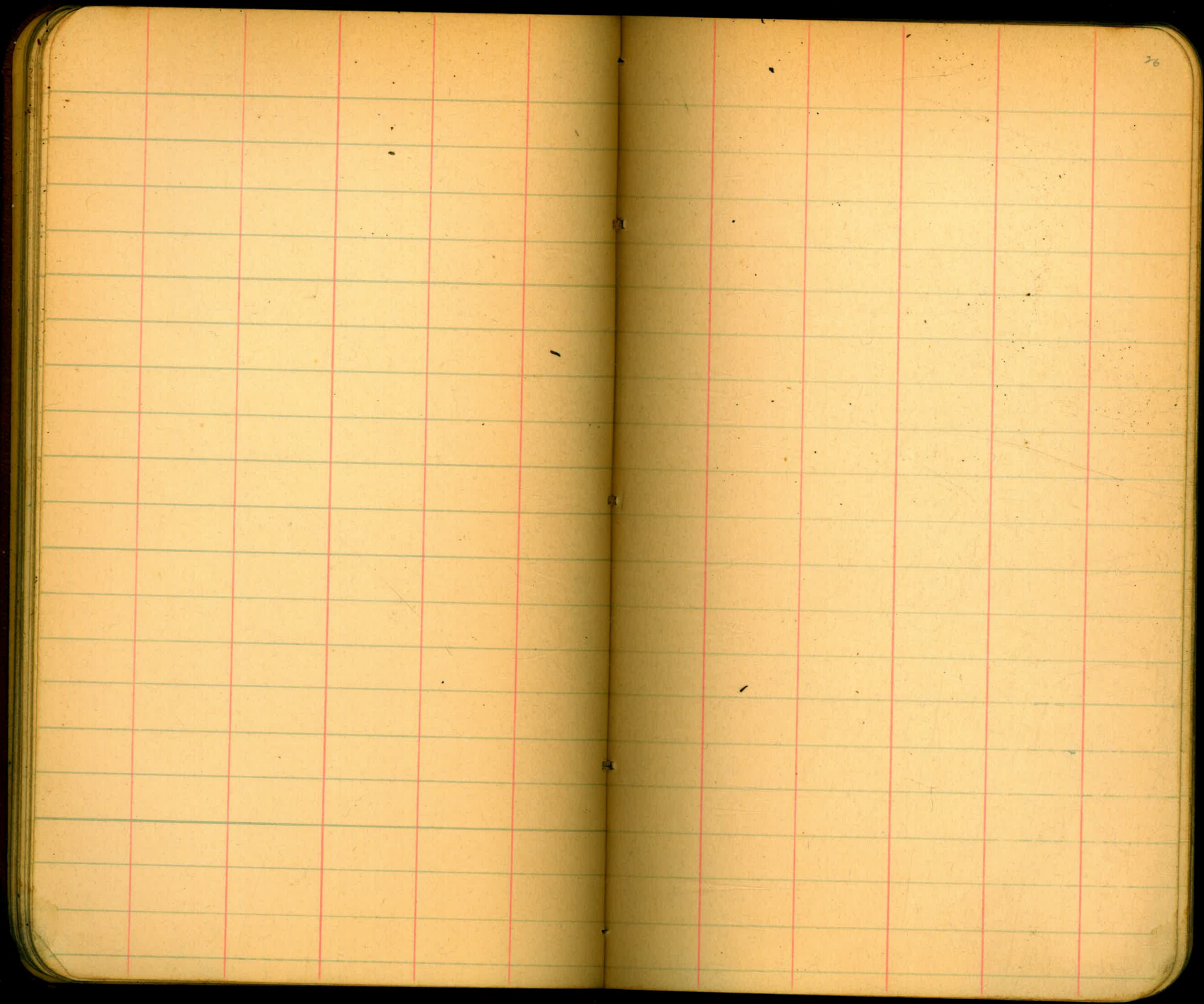
21

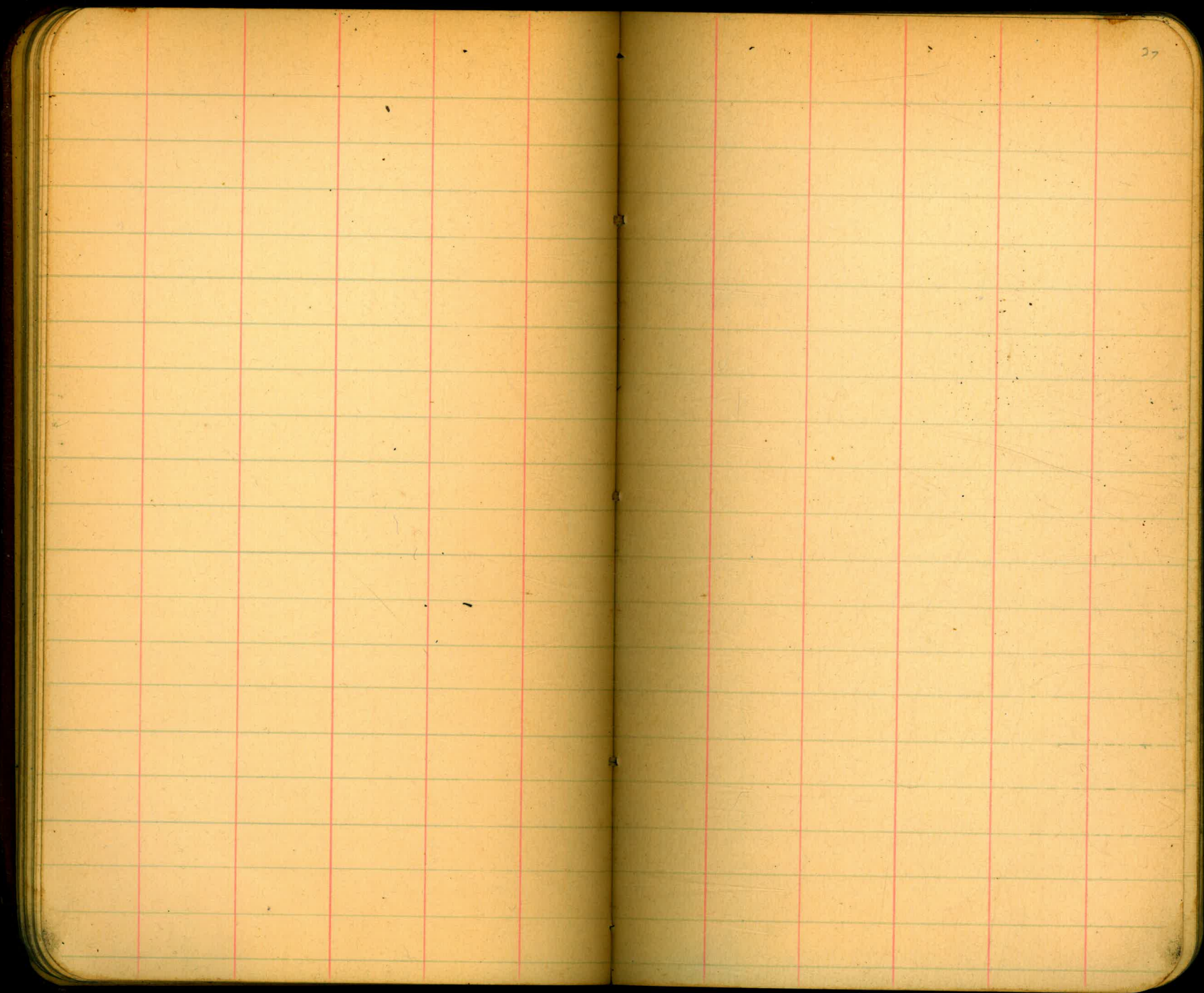




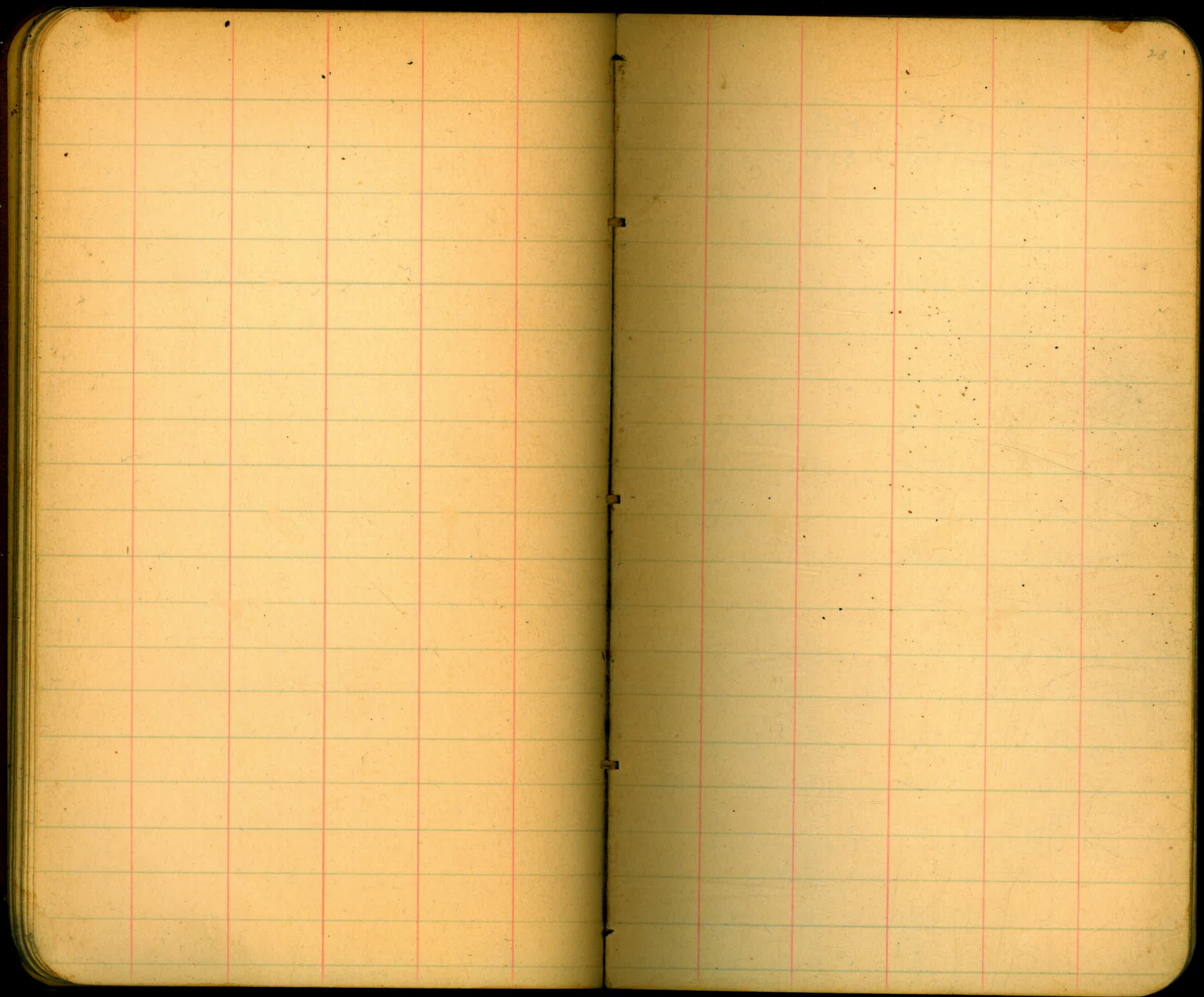












Levels for High Water Line South Side of

Canyon

725.86  
4.85  
714.01

714.37  
713.17  
1.70

29

571.46

553.17 @ Stream  
753.17 700 foot contour -  
713.17 160 foot Contour

764	579.100	0.225	578.875
12.810	591.685	0.450	591.235
13.000	604.235	0.275	603.960
12.485	616.445	0.335	616.110
12.705	628.315	0.045	628.270
12.33	640.60	0.08	640.52
12.03	652.550	0.115	652.435
12.625	665.120	0.045	665.075
12.270	677.345	0.460	676.905
14.665	689.570	0.02	689.550
12.955	702.505	0.200	702.305
12.565	714.870	1.70	713.17
12.69	725.86	0.11	725.75
12.48	738.23	0.28	737.95
12.58	750.53	0.49	750.040
7435	757.475	4.305	753.170
		3.640	753.835

4.12 Inverted Rod

Bottom floor  
of flume

Set Peg 160 foot above stream bed

set 700 foot contour set three nails in mud sill  
of flume opposite end of brushed line

@ Top insulator BM. 761.565 761.495

Levels for High Water Line North  
 Dam site #2 Streamflow = 553.17  
 H.W. = 713.17

8.79	580.25	1.31	578.94
12.03	590.97	0.25	590.72
12.86	603.580	0.015	603.565
12.570	616.075	0.020	616.055
12.530	628.585	0.035	628.550
12.665	641.215	0.265	640.950
12.190	653.040	0.170	652.870
10.805	663.675	9.970	653.705
		9.570	654.105
		0.200	663.475
13.015	676.490	0.000	676.490
12.800	689.290	0.000	689.290
12.815	702.105	0.250	701.855
12.515	714.370	1.200	713.170
12.795	725.965	0.295	725.670
12.550	738.22	0.160	738.06
12.90	750.960	0.015	750.945
10.560	761.505	8.335	753.170

Side Canyon Begin June 30 - 71

Williams  
 Riddle

30

571.46 B.M. in Oak Tree Dam  
 Site #2

Drill Hole #2 with screw sleeve furthest one West in Trail  
 Drill Hole #3 no sleeve " " East in Trail

Set Hub at 160 Contour

Set Hub 200 Contour

H.I. 761.505 is level with Center  
 Top Insulator on flume line

160' Contour North side San Diego River Beginning at Dam Site #2 and running East

51

			713.17
10.70	723.37		
		10.40	713.17
6.89	720.06		
		6.89	713.17
9.30	722.47		
		9.30	713.17
9.59	722.76		
		9.59	713.17
12.02	725.19		
		12.02	713.17
12.82	725.99		
		12.82	713.17
4.08	717.35		
		4.08	713.17
7.46	720.63		
		7.46	713.17
8.46	721.63		
		8.46	713.17
10.35	723.52		
		10.35	713.17
10.23	723.40		
		10.23	713.17
2.44	715.61		
		2.44	713.17
4.20	717.47		
		4.20	713.17
11.68	724.85		
		11.68	713.17
10.53	723.70		
		10.53	713.17
10.72	723.89		
		10.72	713.17
10.63	723.80		
		10.63	713.17
12.60	725.77		
		12.60	713.17
11.16	724.33		

July 5-31

Williams  
Riddle  
Edwards

34

	724.33	11.16	713.17
8.67	721.84	8.67	713.17
12.28	725.45	12.28	713.17
4.59	717.76	4.59	713.17
10.68	723.25	10.68	713.17
11.10	724.27	11.10	713.17
9.74	722.89	9.74	713.17
12.64	725.79	12.64	713.17
8.07	721.24	8.07	713.17
11.45	724.62	11.45	713.17
10.63	723.80	10.63	713.17
12.43	725.60	12.43	713.17
10.65	723.82	10.65	713.17
4.53	712.70	4.53	713.17
11.20	724.47	11.20	713.17
12.35	725.52	12.35	713.17
10.94	724.09	10.94	713.17
10.44	723.61	10.44	713.17
7.20	720.37	7.20	713.17
11.26	724.43	11.26	713.17

July 6, 1921

Williams  
Riddle  
Edwards

33

			713.17
11.44	724.59	11.44	713.17
11.39	724.56	11.39	713.17
7.17	740.34	7.17	713.17
13.04	726.21	13.04	713.17
12.28	725.45	12.28	713.17
10.83	724.00	10.83	713.17
9.65	722.89	9.65	713.17
10.31	723.48	10.31	713.17
6.67	719.84	6.67	713.17
8.16	721.33	8.16	713.17
12.35	725.52	12.35	713.17
10.40	723.57	10.40	713.17
12.97	726.14	12.97	713.17
12.11	725.28	12.11	713.17
12.53	725.70	12.53	713.17
11.96	725.13	11.96	713.17
11.53	724.70	11.53	713.17
12.95	726.19	12.95	713.17
8.78	721.95	8.78	713.17

July 6, 1941

34

			713.17
11.20	724.37	11.20	713.17
12.53	725.70	12.53	713.17
10.39	723.56	10.39	713.17
12.94	725.91	12.94	713.17
12.19	725.36	12.19	713.17
9.13	722.20	9.13	713.17
4.24	717.41	4.24	713.17
6.98	720.15	6.98	713.17
12.58	725.75	12.58	713.17
5.59	718.76	5.59	713.17
4.78	717.95	4.78	713.17
11.76	724.93	11.76	713.17
2.87	722.04	2.87	713.17
12.65	725.82	12.65	713.17
12.60	725.77	12.60	713.17
4.73	717.90	4.73	713.17
4.71	717.88	10.19	707.69
8.28	715.97	1.80	713.17
9.88	723.05	9.88	713.17

River Bed

July 8, 1921 Williams  
Riddle  
H. J. Edwards

35

			713.17
8.30	721.47	8.30	713.17
9.09	722.76	9.09	713.17
7.00	720.17	7.00	713.17
3.88	717.05	3.88	713.17
9.07	722.74	9.07	713.17
9.08	722.25	9.08	713.17
9.67	722.84	9.67	713.17
6.13	719.30	6.13	713.17
8.00	719.17	8.00	713.17
12.78	725.95	12.78	713.17
8.70	721.87	8.70	713.17
13.10	726.77	13.10	713.17
11.09	724.74	11.09	713.17
6.43	719.60	6.43	713.17
2.96	716.13	2.96	713.17
7.54	720.71	7.54	713.17
5.16	718.33	5.16	713.17
9.81	722.98	9.81	713.17
10.54	723.71	10.54	713.17



July 11, 1921

Williams  
Riddle  
Edwards

26

+	T	-	Elev.
			713.17
2.90	717.07	3.90	713.17
10.75	723.92	10.75	713.17
11.60	724.77	11.60	715.67
9.10	722.57	9.10	713.17
8.53	721.70	8.53	713.17
8.54	721.71	8.54	713.17
12.88	726.05	12.88	713.17
12.50	725.67	12.50	713.17
8.28	721.48	8.28	713.17
11.33	724.50	11.33	713.17
10.27	723.44	10.27	713.17
12.47	725.64	12.47	713.17
11.26	724.43	11.26	713.17
5.67	718.84	5.67	713.17
9.26	722.43	9.26	713.17
6.89	720.06	6.89	713.17
12.13	725.30	12.13	713.17
12.65	725.82	12.65	713.17
12.35	725.52	12.35	713.17

10.20	723.37	10.20	713.17
12.22	725.39	12.22	713.17
10.88	724.05	10.88	713.17
12.37	725.54	12.37	713.17
12.07	725.24	12.07	713.17
10.54	723.71	10.54	713.17
9.72	722.89	9.72	713.17
9.66	722.83	9.66	713.17
10.67	723.84	10.67	713.17
11.43	724.60	11.43	713.17
12.42	725.59	12.42	713.17
11.41	724.58	11.41	713.17
4.00	717.17	4.00	713.17
10.17	723.34	10.17	713.17
9.62	722.79	9.62	713.17
12.63	725.80	12.63	713.17
12.41	725.58	12.41	713.17
10.13	723.30	10.13	713.17
12.75	725.92	12.75	713.17
9.87	723.04	9.87	713.17

July 12, 1921 Williams  
Riddle  
Edwards

38

			713.17
9.37	722.54		
		9.37	713.17
12.68	725.85		
		12.68	713.17
12.35	725.52		
		12.35	713.17
12.49	725.66		
		12.49	713.17
12.60	725.77		
		12.60	713.17
12.13	725.30		
		12.13	713.17
12.70	725.87		
		12.70	713.17
9.55	722.72		
		9.55	713.17
4.57	717.74		
		4.57	713.17
9.75	722.92		
		9.75	713.17
12.50	725.67		
		12.50	713.17
10.13	723.30		
		10.13	713.17
12.90	726.07		
		12.90	713.17
13.13	726.30		
		13.13	713.17
11.41	724.58		
		11.41	713.17
12.79	725.96		
		12.79	713.17
12.03	725.20		
		12.03	713.17
12.51	725.98		
		12.51	713.17
10.90	724.07		
		10.90	713.17

July 13-1921 Williams  
Riddle  
Edwards

July 14 - 1921

			713.17
11.84	725.01		
		11.84	713.17
11.55	724.72		
		11.55	713.17
11.79	724.96		
		11.79	713.17
			713.17
9.51	722.68		
		9.51	713.17
13.41	726.58		
		13.41	713.17
12.48	725.65		
		12.48	713.17
12.84	726.01		
		12.84	713.17
13.32	726.49		
		13.32	713.17
11.87	725.04		
		11.87	713.17
6.04	719.21		
		6.04	713.17
8.32	721.49		
		8.32	713.17
11.92	723.09		
		11.92	713.17
8.57	721.74		
		8.57	713.17
10.59	723.76		
		10.59	713.17
12.08	725.25		
		12.08	713.17
11.78	724.95		
		11.78	713.17

check on 713.17 Hub Runup from B.M. 571.46  
 Cotton line checks 714.01

July 15 - 1921 Williams Beginning Chocolate  
 Riddle Creek  
 Edwards East End

Beginning of Southfork

11.33			713.17
12.43	724.50	11.33	713.17
	725.60		
13.04	726.21	12.43	713.17
8.56	741.73	13.04	713.17
11.03		8.56	713.17
4.49	724.20		
	717.66	11.03	713.17
7.59	720.76	4.49	713.17
6.14	719.31	7.59	713.17
3.60	716.77	6.14	713.17
9.37	722.54	3.60	713.17
13.01	726.18	9.37	713.17
7.47	720.64	13.01	713.17
7.78	720.95	7.47	713.17
11.60	726.77	7.78	713.17
8.64	721.79	11.60	713.17
12.98	726.15	8.64	713.17
7.89	721.06	12.98	713.17
		7.89	713.17

Aug 4 - 1921

Williams  
 Edwards  
 Harber  
 Hodgert  
 Wright

40

Williams  
Harper  
Hodgett

Sept 29-21

41

Levels on Traverse of San Diego River Stream Bed from Dam Site #2 to an intersection with

(160' contour above Sand Creek

B.M. #20 Iron pin in Oak tree S. Side S.D. River Pool  
West of Johnson's Cabin at Dam Site #2  
Elev. Carried up & checked from Sweet Water B.M.

Elev. B.M. #20 571.4

Sta	+	x	-	Elev.	B.M.'s
	0.51	571.97			
	3.335	567.575	17.73	559.74	
76+34.4 Hub Int. Axis #2 Dam Site			5.48	557.09	
± S.D. River N. of Pt. 76+34.4 flow line			9.40	553.17	
77+19.2 Hub			T.P. 3.96	558.61	
	6.70	565.31			
78+00			T.P. 6.80	558.51	
	10.33	568.84			
81			8.9	559.9	Oct 3, 21
84			6.0	562.8	
85+28.9 Hub pot			5.3	563.5	
85+41.45 Int. Seeline			6.4	564.6	
85+62.0			6.0	564.0	
86+55.7 B			T.P. 7.07	561.77	
	4.55	566.32			
87			4.7	561.6	
88+85.6 Hub pot.			4.60	564.12	
90+00			6.3	560.0	

Sta	+	T	-	Elev
		566.32		
93			4.9	561.4
95+65.4 Δ			T.P. 3.67	562.65
	9.23	571.88		
96			8.8	563.1
98+04.1 Δ			Top of Nail in pipe	566.49
99			7.9	564.0
101+10.0 Δ			T.P. 4.88	567.00
	6.28	573.28		
102			5.9	567.4
105			5.1	568.2
107+50.0 Δ			Hub 3.56	569.72
108			3.6	569.7
109+50			T.P. 1.03	572.25
	4.64	576.89		
110+50 Δ			Hub 4.70	572.19
111			5.20	571.5
			T.P. 1.80	575.09
	5.80	580.89		
114			5.5	575.4
114+20 Δ			6.0	574.9
117			5.0	575.9
118+80 Δ			T.P. 4.15	576.74
	6.41	583.15		
120			6.7	576.5
122+60 Δ			4.75	578.40
123			5.1	578.1

2/1	+	X	-	Elev.
		583.15		
126			4.9	578.3
126+73.85	Int & Chocolate Hub		4.30	578.85
129			3.4	579.8
129+80	Δ	T.P. 3.15		580.00
	6.70	586.70		
132			6.2	580.5
135			4.6	582.1
138			3.0	583.7
138+10.0	Δ	T.P. 2.80		583.90
	10.67	594.57		
141			8.0	586.6
142+10	Δ		4.70	589.83
144			5.4	589.2
146+82.0	Δ	T.P. 2.31		592.26
	4.89	597.15		
147			5.0	592.2
150			4.7	592.5
151+10.0	Δ		4.52	594.63
153			4.7	592.5
156			5.8	591.4
158+10	Δ	T.P. 4.62		594.53
	6.19	598.72		
159			6.0	594.7



Sta.	+	⊗	-	Elev.
		598.77		
160+42.4	Int. Section	Hub.	5.53	593.19
162			4.9	593.8
164+50	Δ		4.60	594.12
163+16.3	Int. fence		4.5	594.2
165			3.8	594.9
168		T.P.	2.67	596.05
	6.27	602.32		
171			5.0	597.3
172+30	Δ		4.76	597.56
174+00	Δ	T.P.	3.99	598.33
	7.08	605.41		
177+00	Δ		4.66	600.75
180+00	Δ	T.P.	3.47	601.94
	5.42	607.36		
183			4.70	602.7
186			3.6	603.8
186+60	Δ	T.P.	3.21	604.15
	5.26	609.41		
189			4.7	604.7
192			3.6	605.8
192+60	Δ	T.P.	3.50	605.91
	6.63	612.54		
194+50	Δ		4.79	607.75
195			4.6	607.9

	+	π	-	Elev
		612.54		
196+44.0 Δ	5.17	T.P. 3.92 613.79		608.62
197+35.0 Δ			4.15	609.64
198			3.7	610.1
198+56.0 Δ	5.57	T.P. 4.79 614.57		609.00
200+68.0 Int. S. Fork			5.13	609.44
201			5.2	609.4
202+30.0 Δ			4.75	609.82
204+51.0 Δ	5.25	T.P. 3.14 616.68		611.43
205+60.0 Δ Ground			4.8	611.9
207			4.3	612.4
207+30.0 Δ	6.14	T.P. 4.12 618.70		612.56
210			3.9	614.8
211+60.0 Δ	6.65	621.99	3.36	615.34
213			6.2	615.8
216			5.2	616.8
217+40.0 Δ			4.47	617.52
219			4.1	617.9
222+00.0 Δ	6.16	T.P. 2.63 625.52		619.36
225			5.0	620.5

	+	Σ	-	Elev.
		625.52		
225+20° Δ			5.05	620.47
228			3.7	621.8
228+52° Δ		T.P.	3.64	621.88
	5.47	627.35		
230+30 Δ			4.62	622.73
231			4.4	623.0
232+85° Δ		T.P.	3.75	623.60
	5.55	629.15		
234			5.1	624.1
234+35° Δ			4.78	624.39
236+55° Δ		T.P.	4.04	625.09
	5.41	630.50		
237			5.3	625.2
237+80 Δ			4.68	625.82
239+60 Δ		T.P.	3.84	626.66
	6.14	632.80		
240			6.1	626.7
242+75° Δ			4.75	628.05
243			4.6	628.2
246			3.5	629.3
248+00° Δ		T.P.	2.85	629.95
	5.69	635.64		
249			5.40	630.24
250+70° Δ			4.52	631.12

	+	⌈	-	Elev.
		650.56		
288			4.0	646.6
289+50° A	5.87	TP 652.89	3.54	647.02
291			5.5	647.4
294+100° A			4.20	648.69
296+30° A	5.56	TP 654.92	3.53	649.36
297			5.3	649.6
298+40° A			4.77	650.15
300			3.9	651.0
302+05° A	6.23	TP 657.76	3.39	651.53
303			5.9	651.9
306			4.8	653.0
309			3.7	654.1
309+80° A	6.01	TP 660.40	3.37	654.39
312			5.4	655.0
315			4.3	656.1
316+80° A	5.36	TP 662.66	3.10	657.30
318			4.9	657.8
321			4.6	658.1
324			3.5	659.2

	+	$\pi$	-	Elev
		662.66		
325+85° A	6.81	T.P. 2.85 666.62		659.81
327			6.4	660.2
330			5.0	661.6
333			4.1	662.5
336			3.0	663.6
336+80° A	5.41	T.P. 2.82 669.21		663.80
339			4.8	664.4
339+116° A			4.26	664.95
342			3.5	665.7
343+30° A	5.28	T.P. 2.75 671.74		666.46
345			5.1	666.6
345+40° A			4.67	667.07
348			3.8	667.9
348+95° A	4.91	T.P. 3.21 673.44		668.53
350+55° A			4.52	668.92
351			4.2	669.2
351+75° A	5.55	T.P. 1.23 677.76		672.21
354			5.5	672.3
357			5.5	672.3

	+	π	-	Elev.
		677.96		
358+95° Δ	5.92	T.P. 4.67 679.01		673.09
360			6.1	672.9
361+15° Δ			4.98	674.03
363			3.1	675.9
363+55° Δ	7.41	T.P. 3.48 682.94		675.53
365+45° Pof			4.9	678.0
366			5.2	677.7
366+55° Δ			4.73	678.21
369			5.2	677.7
370+45° Δ	5.02	T.P. 4.59 683.37		678.35
372+00° Δ			4.39	678.98
374+30° Δ	4.82	T.P. 3.46 684.73		679.91
375			5.1	679.6
376+50° Δ			4.30	680.43
378			3.6	681.1
381			2.4	682.3
383+05° Δ	6.96	T.P. 1.01 690.68		683.72
384			7.2	683.5
384+55° Δ			4.67	686.01

	+	T	-	Elev.
		690.68		
385			4.2	686.5
386+35° A	5.48	692.59	3.57	687.11
387			5.2	687.4
388+50° A			4.60	688.0
390			4.4	688.2
393			3.2	689.4
394+00° A	5.11	T.P. 7.83 694.87		689.76
396			5.0	689.9
396+60° A			4.56	690.31
399+00° A	5.53	T.P. 3.84 696.56		691.03
401+63° A			4.39	692.17
402			4.5	692.1
403+40° A	5.33	T.P. 3.91 697.98		692.65
405			4.8	693.2
405+75° A			4.52	693.46
408			4.0	694.0
406+90° A	7.06	T.P. 3.25 701.79		694.73
411			7.0	694.8
411+50° A			5.54	696.25

		701.79		
414			4.6	697.2
416+80° Δ	7.06	T.P. 707.12	3.73	698.06
417			8.6	698.5
418+60° Δ			4.67	702.45
420			4.7	702.4
421+50° Δ	4.29	T.P. 707.25	4.26	702.86
423			5.3	701.0
424+35° Int. Sand Creek			4.48	702.77
426			4.8	702.5
427+60°	5.45	T.P. 708.16	4.54	702.71
429+25° Δ			4.74	703.42
432+100° Δ	5.12	T.P. 711.63	1.65	706.51
433+90° Δ			4.79	706.84
		Int. 160° Contour Tang.	4.31	707.32
436+20	4.84	T.P. 713.16	3.31	708.32
438			3.72	709.44
440+17.4 Δ	4.99	T.P. 714.75	3.40	709.76
442+41.8 Δ			4.70	710.05
444+11.3 Δ	4.05	T.P. 716.36	2.44	712.31

52

7.80      707.32      707.32

Sta 340(160) Contour      715.12      1.64      (713.43)      713.17

.17  
26

check on original Hub.

End Oct 4-1921



+

-

-

Elev

716.20

446+25.9 Δ

4.87

711.49

447+56.5 Δ on Boulder

4.71

711.65

4.90

716.55

450+00

4.06

717.49

450+21.0

3.38

713.17

713.17 = 160' contour

53

Levels on flyline from Sta 4+29+25.0 = 0+00

0+00				703.42
	6.10	709.52		
0+68.9	Δ		4.83	704.69
1+92.0	Δ	T.P.	4.03	705.49
	6.14	711.63		
3+51.0	Δ		5.18	706.45
5+48.0	Δ	T.P.	4.40	707.23
	6.16	713.39		
8+48	pot.		4.57	708.82
9+18.0	Δ		4.63	708.76
12+18	pot.		2.63	710.76
14+70.0	Δ	T.P.	2.28	711.11
	4.89	716.00		
17+70	pot.		4.98	711.02
19+80.8 =			4.38	711.62
447+56.5				

Levels on  $\pm$  sand Creek from Sta  $\frac{424+35}{0+00}$  <sup>San Diego River</sup> <sub>sand Creek</sub>

0+00	12.97	715.74	702.77
3+00	A		5.21 710.53
4+49.8	Pat.	T.P.	2.57 713.17
	9.44	722.61	
6+00	A		6.64 715.97
9+00	A	T.P.	2.57 718.04
	6.35	716.39	
11+80°	A		3.26 723.13

set Hub on 160 Contour line

Point just west of San Diego - Julian Road Crossing

Levels on South Fork from Sta 200+68°

Pot on R. San Diego River

200+68° S.D. River =  
= 0+00 S. Fork

609.44

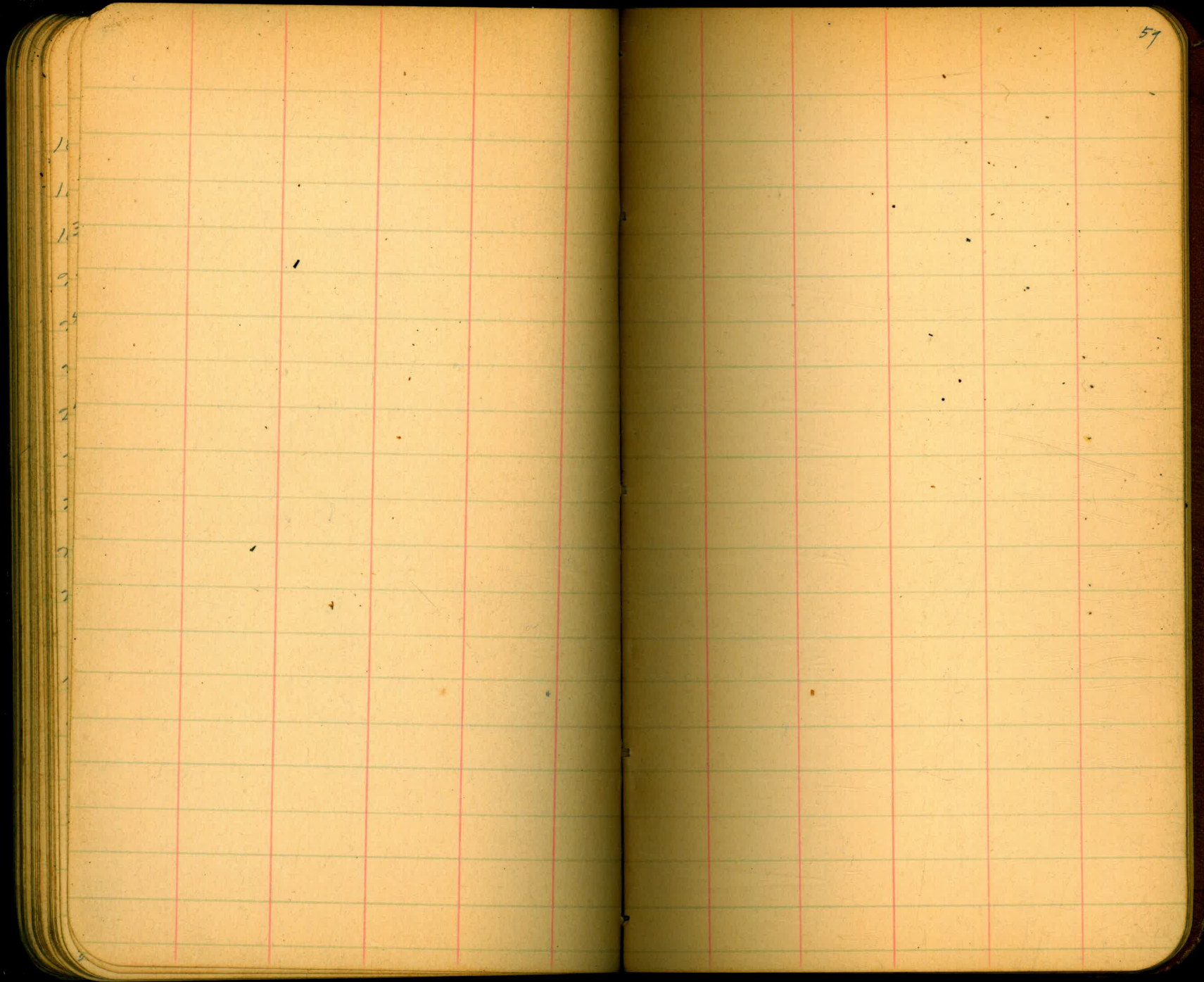
Elev

	+	X	-	Elev.
	8.95			618.39
2+00			5.4	613.00
2+80° Δ			4.87	613.52
4			3.6	614.8
5+30° Δ	6.08	T.P. 623.42	1.05	617.34
6			5.3	618.1
6+52° Δ			4.7	618.7
7+67° Δ	6.03	T.P. 627.96	1.49	621.93
8			6.1	621.9
9+40° Δ			4.76	623.20
10			3.2	624.7
10+60° Δ	7.68	T.P. 633.97	1.67	626.39
11+80° Δ			4.89	629.08
12			5.2	628.8
13+25.94	Int. outline			
14+00° Δ	4.76	T.P. 637.67	1.04	634.93
15+50° Δ			4.50	633.19
16			3.9	633.8

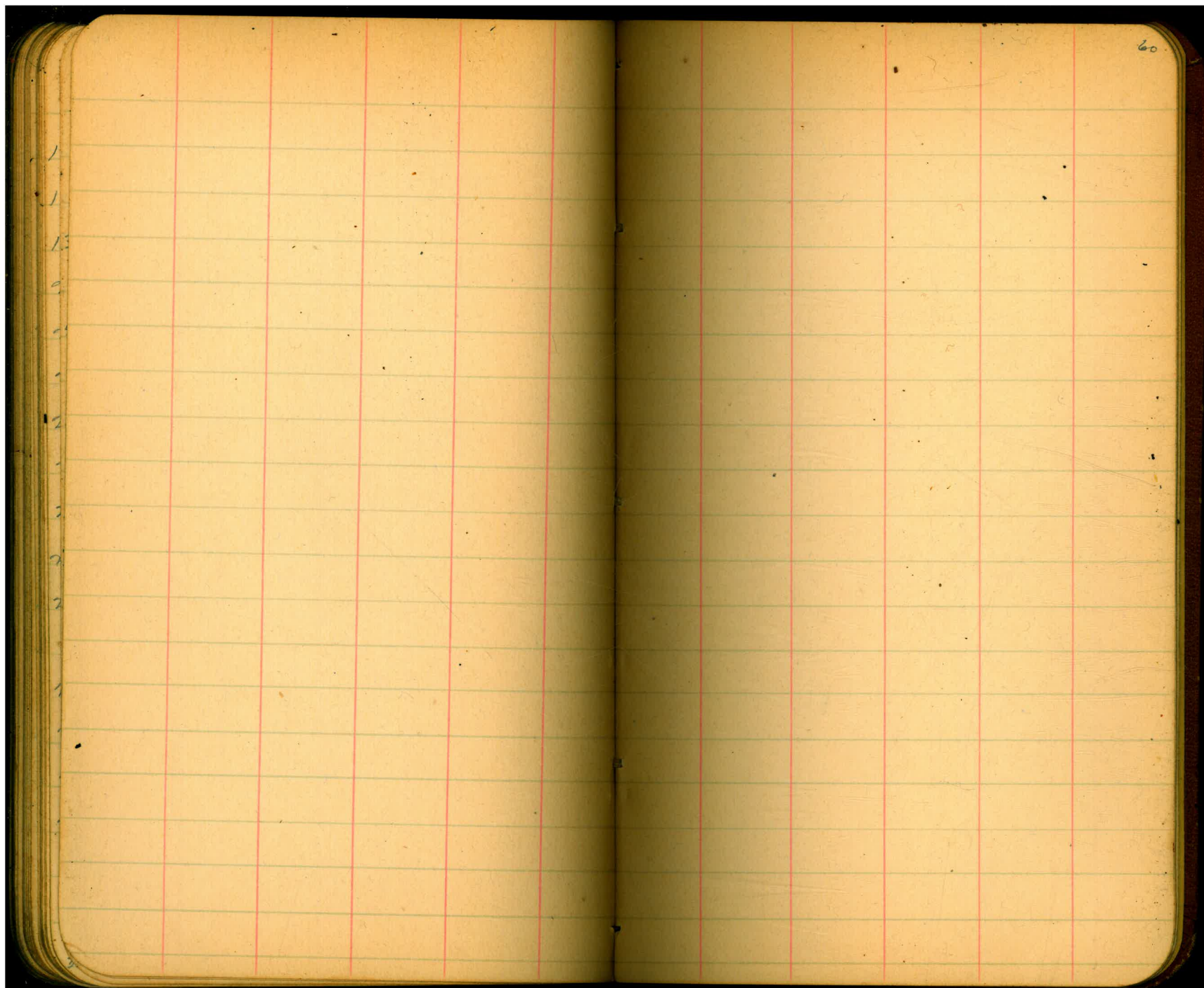
	+	Σ	-	Elev.
		637.64		
18	9.42	T.P. 646.37	0.74	636.95
18+58° Δ			6.63	639.74
19+70° Δ			4.59	641.78
20			4.0	642.4
21+70° Δ	4.49	T.P. 647.32	3.54	642.83
22+30° Δ			4.82	642.50
23+55° Δ	6.59	T.P. 649.79	4.12	643.20
24+50° Δ			4.29	645.40
25+43° Δ	6.88	T.P. 652.10	4.57	645.22
26+80° Δ			5.43	646.67
27+50° Δ			3.59	648.51
	11.25	T.P. 662.87	0.48	651.62
27+95 Pot. on rock			10.05	652.82
28+30° Δ			4.56	658.31
29+00° Δ	6.12	T.P. 664.88	4.11	658.76
29+79° Δ			4.80	660.1
32+39° Pot.			1.55	663.33
32+96° Δ	7.39	T.P. 670.64	1.63	663.25
35+04° Δ			5.75	664.89

	+	$\pi$	-	Elev
		670.64		
1	36+19° A	9.30	T.P. 2.80 677.14	667.84
1	37+34° A		4.71	672.43
1	38+84° A	10.48	T.P. 1.75 685.87	675.39
1	40+62° A		6.00	679.87
1	41+75° A	7.40	T.P. 1.84 691.45	684.05
1	42+65° A		4.71	686.74
2	43+35° A	8.31	T.P. 3.13 696.63	688.32
1	44+95° A		4.95	691.68
2		9.54	T.P. 0.81 705.36	695.82
2	46+07		7.00	698.36
2		9.73	T.P. 1.31 713.78	704.05
	46+19.1	Point on blar.	4.69	709.09
1			0.05	713.73
1	47+16° A	14.88	T.P. 8.22 718.44	705.56
1	48+21.0	pot.	5.27	713.17

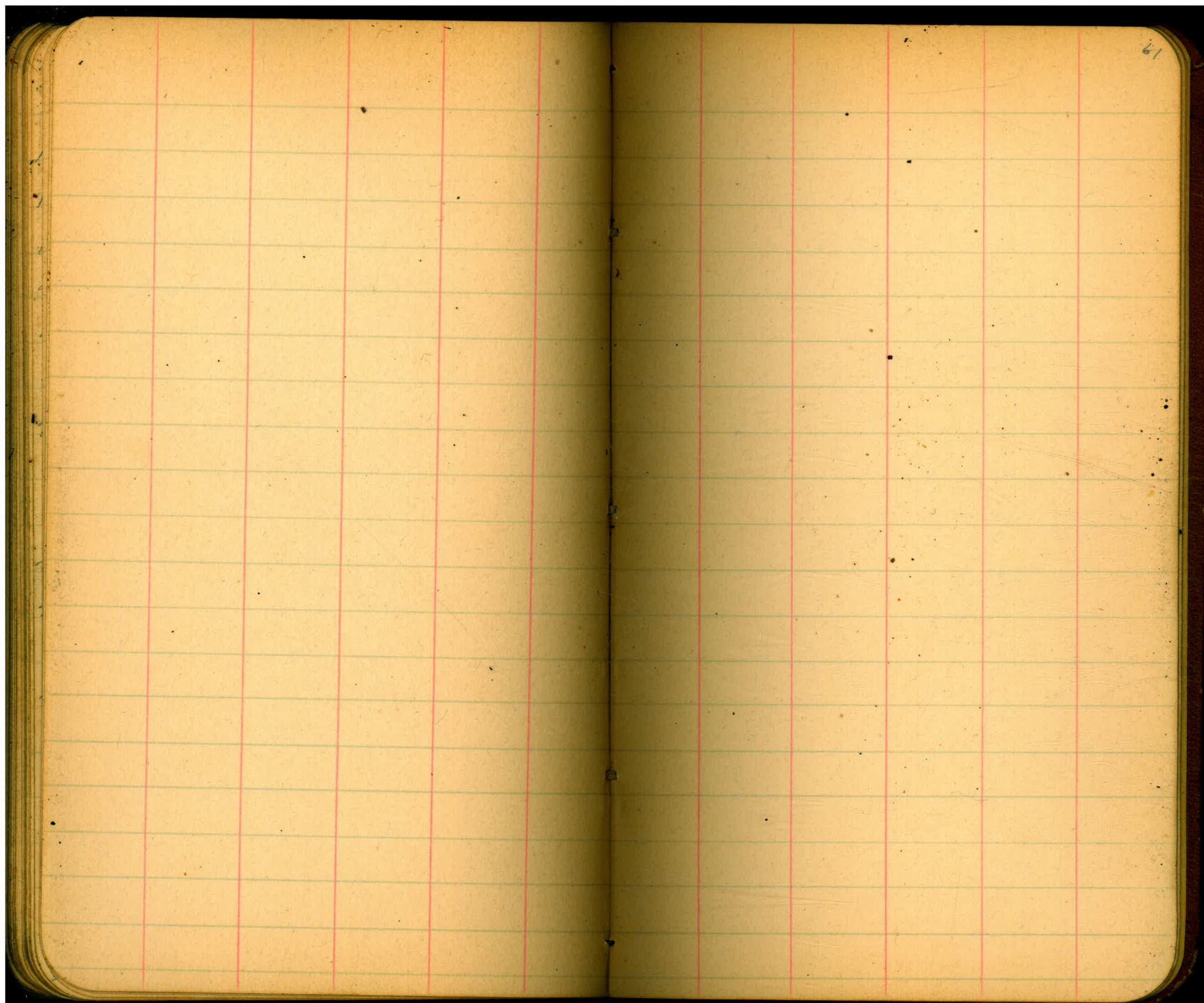
on Sta. 485 (160 Contour)



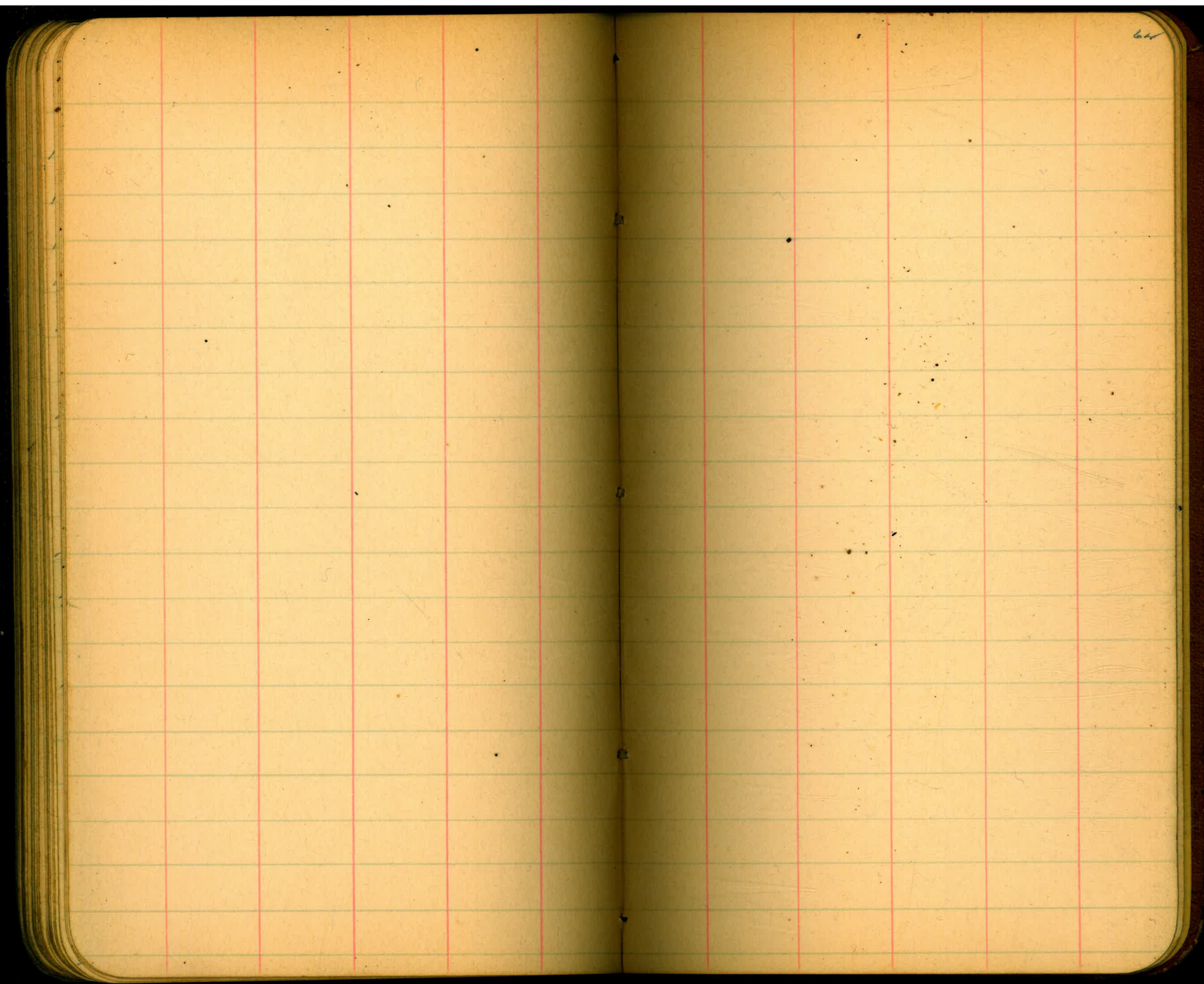
57







21

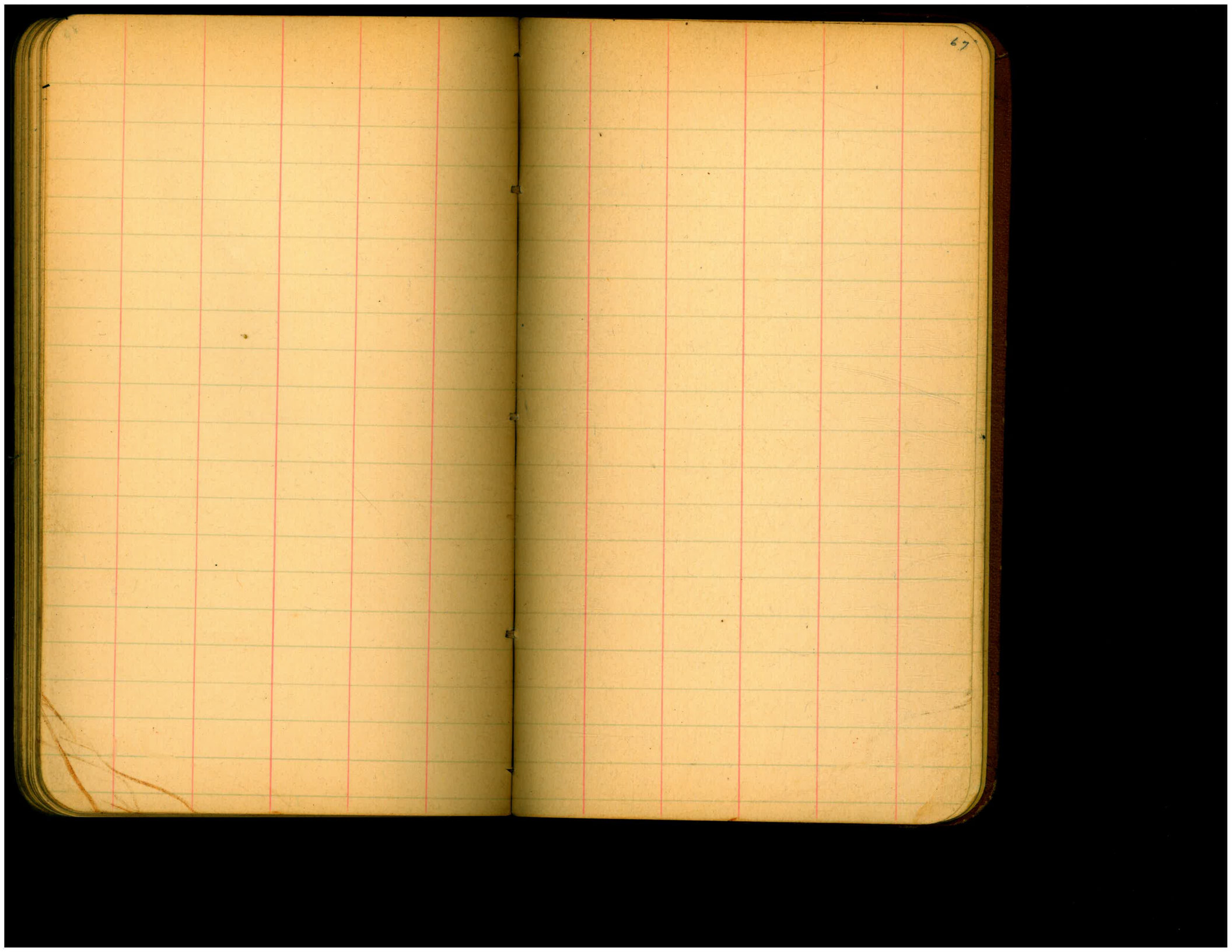










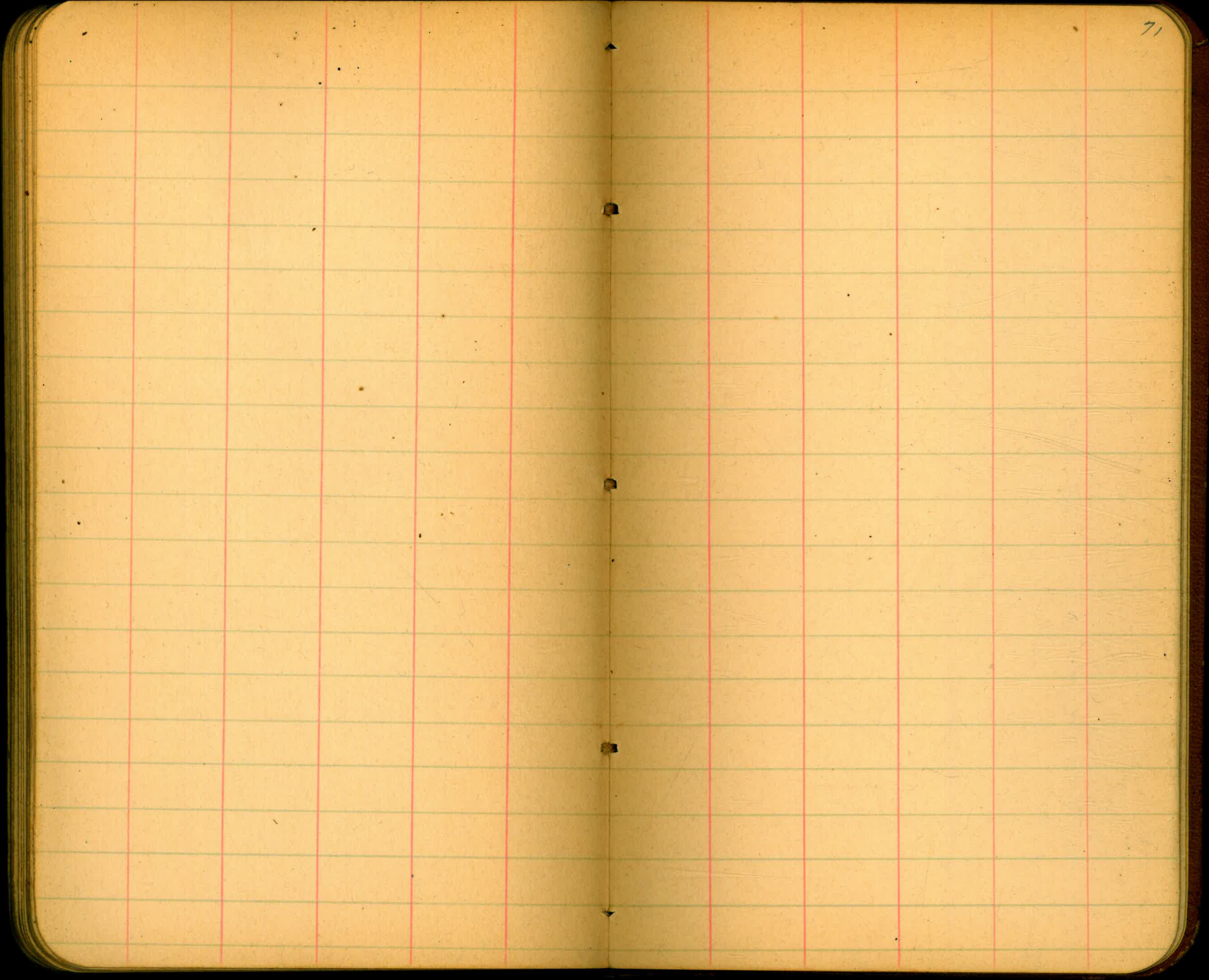


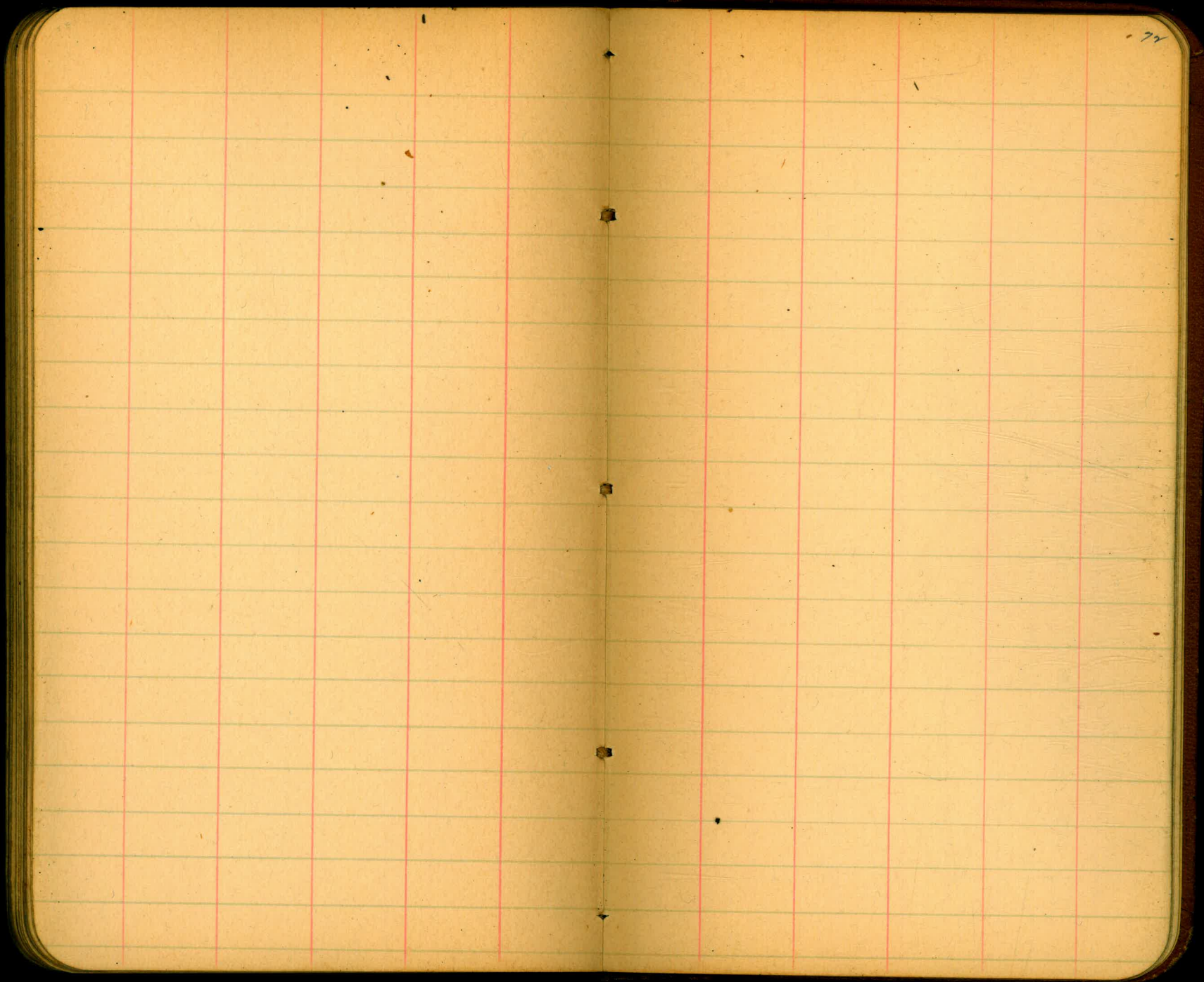


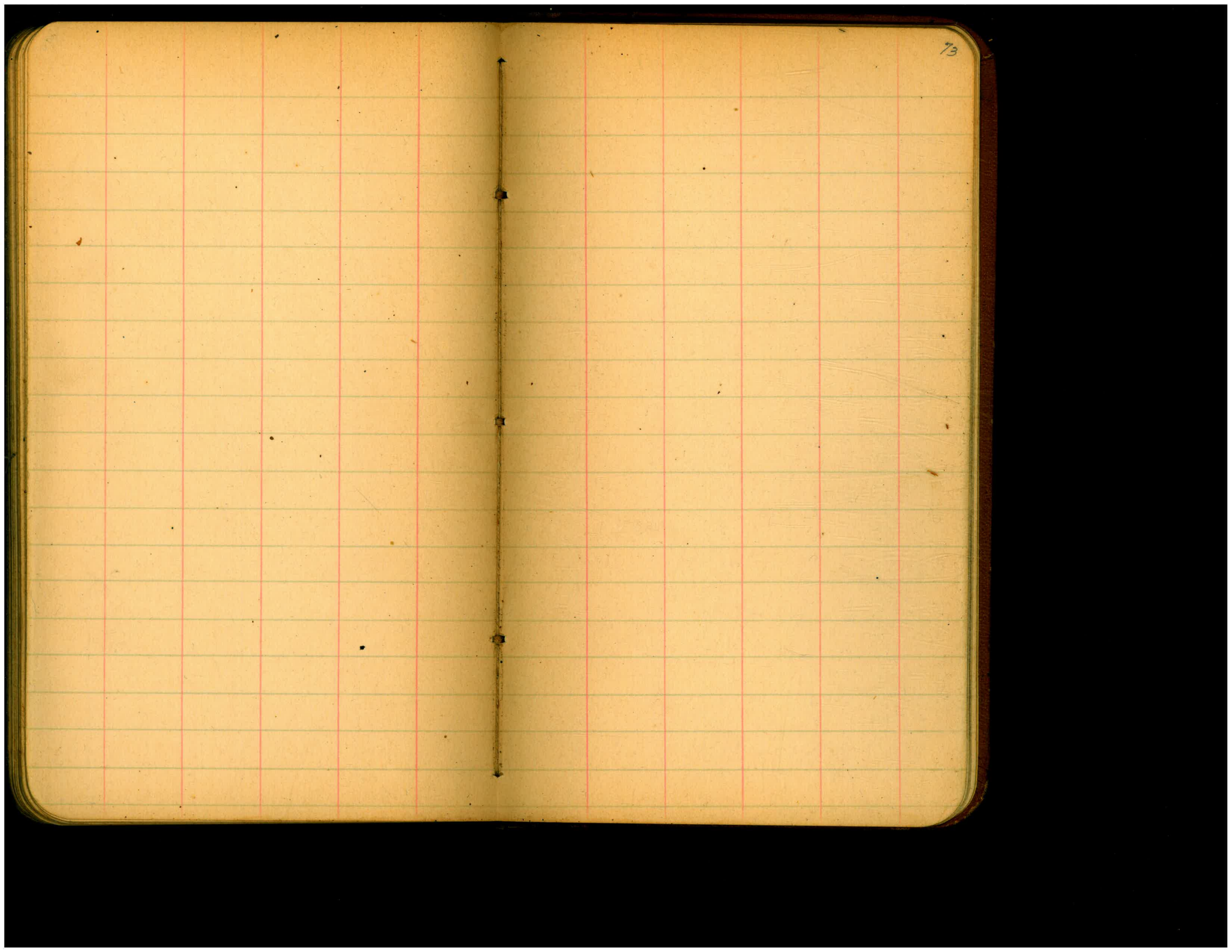














Elev.

B.M. 3 from Lake side to

El Capitan dam site Corrected

75

1 405.71

2 403.72

3 418.00

4 466.46

5 446.20

6 455.92

7 467.56

8 482.76

9 500.91

10 511.09

10 1/4 524.62

11 531.64

12 530.34

13 533.26

14 539.14

15 542.41

16 547.94

17 554.07

18 557.10

19 553.17 Hub &amp; S. River on Axis Dam Site #2

20 571.46 B.M. Belt in Oak Tree Dam Site #2

			466.33
2.20	474.53	0.44	470.25
10.79	485.08	11.75	473.33
0.805	474.135	11.875	464.260
1.075	463.335	11.985	451.350
0.54	451.87	9.41	442.46
1.98	444.44	8.81	435.63
4.13	439.76	3.69	436.07
5.57	441.64	3.78	437.86
6.30	444.16	4.48	439.68
6.18	445.86	3.41	442.45
4.89	447.340	1.265	446.075
5.450	451.525	1.600	449.925
2.490	452.415	2.260	450.155
3.980	459.033	1.370	457.665
11.60	458.225	4.670	454.205
3.045	457.250	1.43	455.82

B.M. in SDG+Elec. Co. Pole #74389

Check on B.M. 445.92 603+Elec Pole #72749

Check on B.M. in cluster of 5v corners



Mykrantz Realty Co.

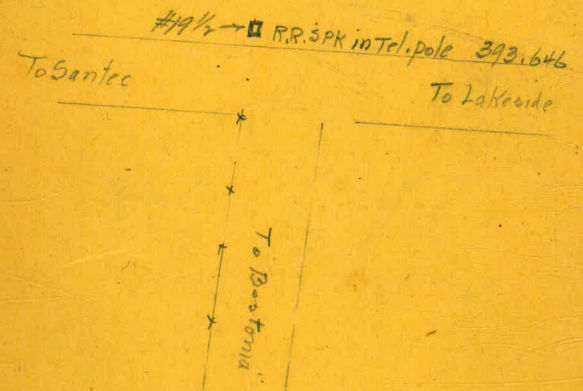
77  
visited location of dam now  
under construction Nov 7-1923  
at head waters of San Vicente  
Creek south portion of dam  
formed up about 12 feet high in  
center of creek and decreases  
in height to about 2 feet 200  
feet south, type of dam concrete  
plum and rubble dropped into  
sand & cement in forms.

proposed length of dam 900 feet  
maximum height 30 feet probably  
20 feet storage very small.

location is about 1000 feet east of  
west fence

bis  
 un T. 16.5 R. 1 W. on San Bernardino Meridian  
 ar 2 feet south of Northeast Corner Sec 36.  
 cre 400 feet north of Sweetwater River  
 for about 1 mile Northeast of forks of road  
 em La Presa and Jamul Iron post stamped  
 in "342.50" 342.413 ft  
 fee # 19 1/4 R.R. SpK in Tel. pole 393.646  
 ple 25' N.W. of Int. of fence W. side  
 ran Bostonia Road with Santee to  
 Lake Side Road  
 prop # 22 1/4 R.R. SpK in Pole North across St.  
 ma from Lake Side Store 405.71  
 20  
 loca  
 we

B.M.S. Gov.



Hut 551. W.

allayn Wright Jr.

48+76.<sup>0</sup>  
55  
21

⊕

581.17  
400.316  
170.814

711.65  
4.86

716.51  
5.02

711.49

594.20  
573.17  
41.03