

W 328

*May 20, 1950 - San Diego 2<sup>nd</sup> Hill Field Lab*

328

MICROFILMED  
JAN 4 1965

858

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.
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- 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.

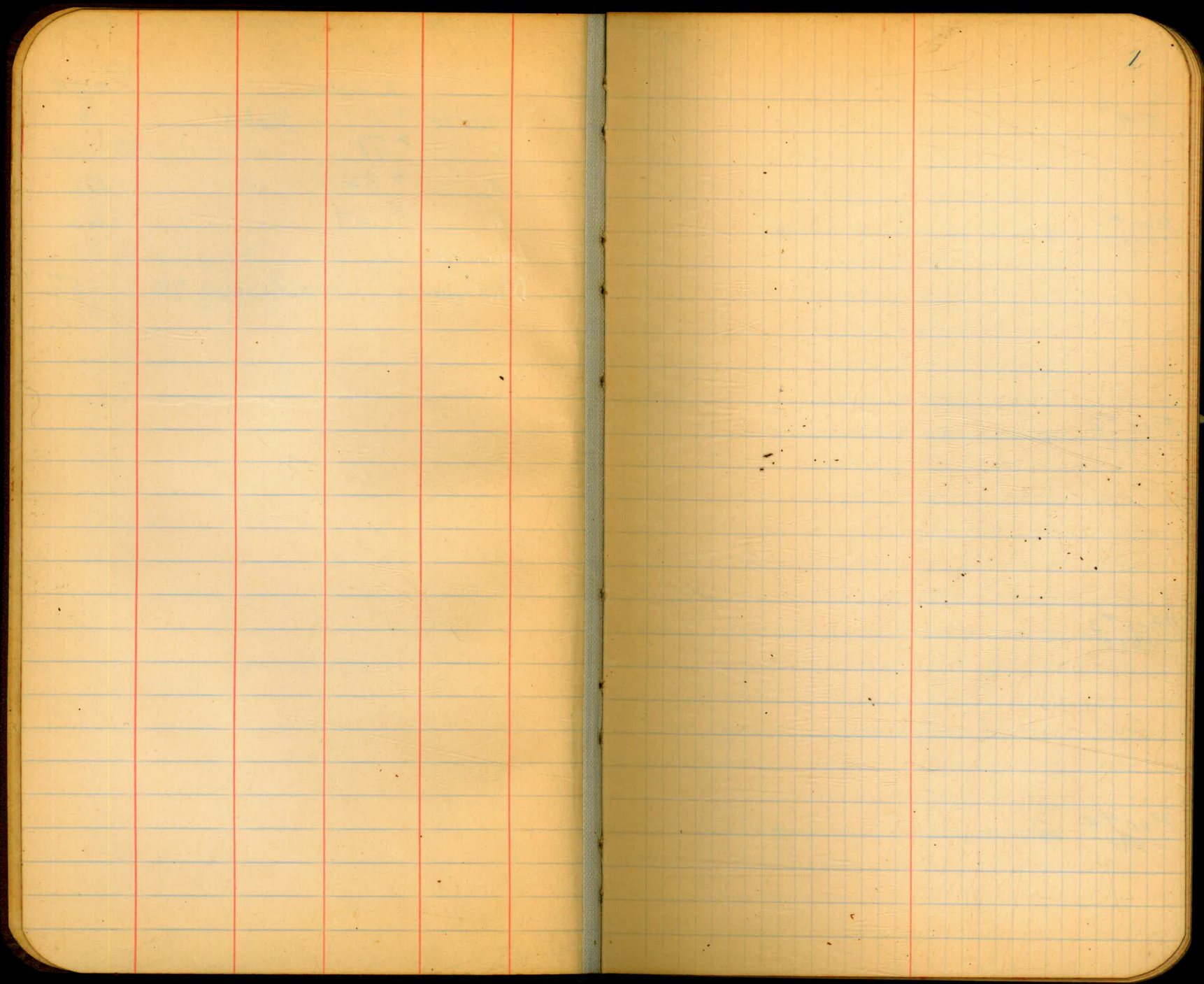
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**THE FREDERICK POST CO.**  
*ENGINEERING and DRAFTING SUPPLIES*  
IRVING PARK STATION  
CHICAGO, ILL.

Otay Res. to San Diego 2<sup>nd</sup> Main Pipeline  
Trestles #1 -

	Index	Page
Trestle #1	- Stakes	2
" #78	.	38-40
" #82	"	42
" #27	.	562
Lower Otay Dam Pressure Grouting		53
Otay (Jamul) Creek Gauging Sta.		55



Trestle

#1

2

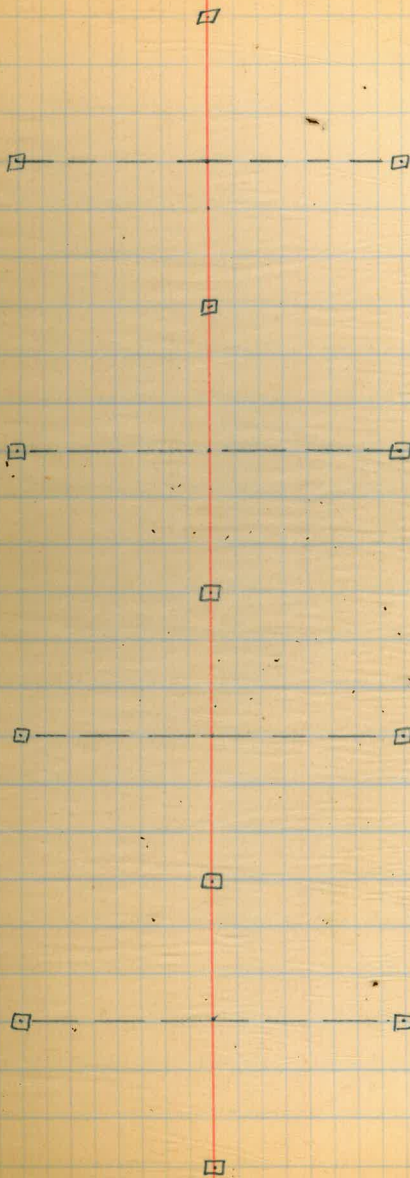
B.M.<sup>#</sup>

Pier #1  
1+09.0

Pier #2  
1+19.0

Pier #3  
1+34.0

Pier #4  
1+49.0





Trestle #2

4

Pier 1  
10+80.4

Pier 2  
10+95.4



tooth

5



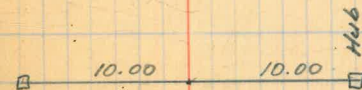
Pier 1

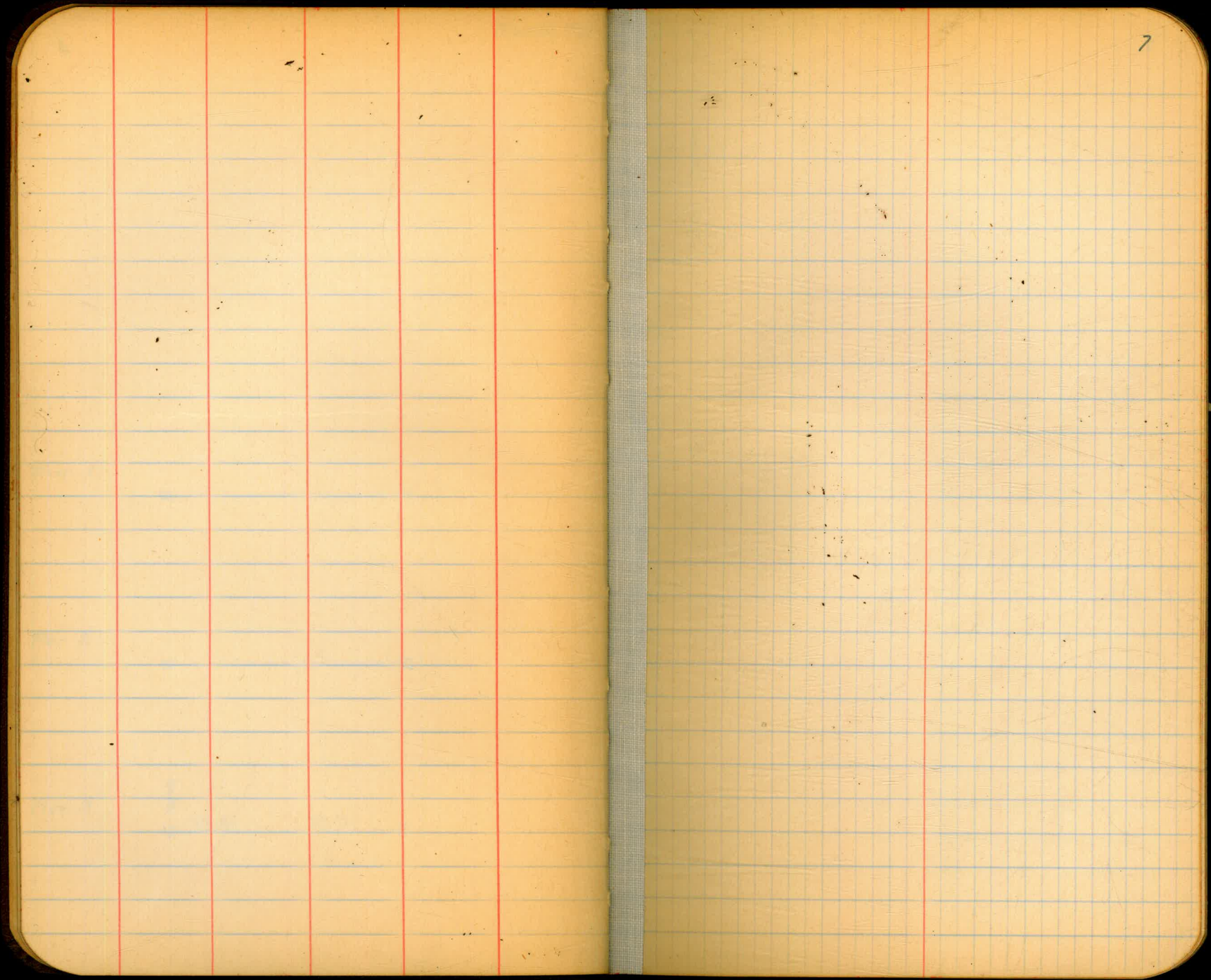


Pier 2



Pier 3

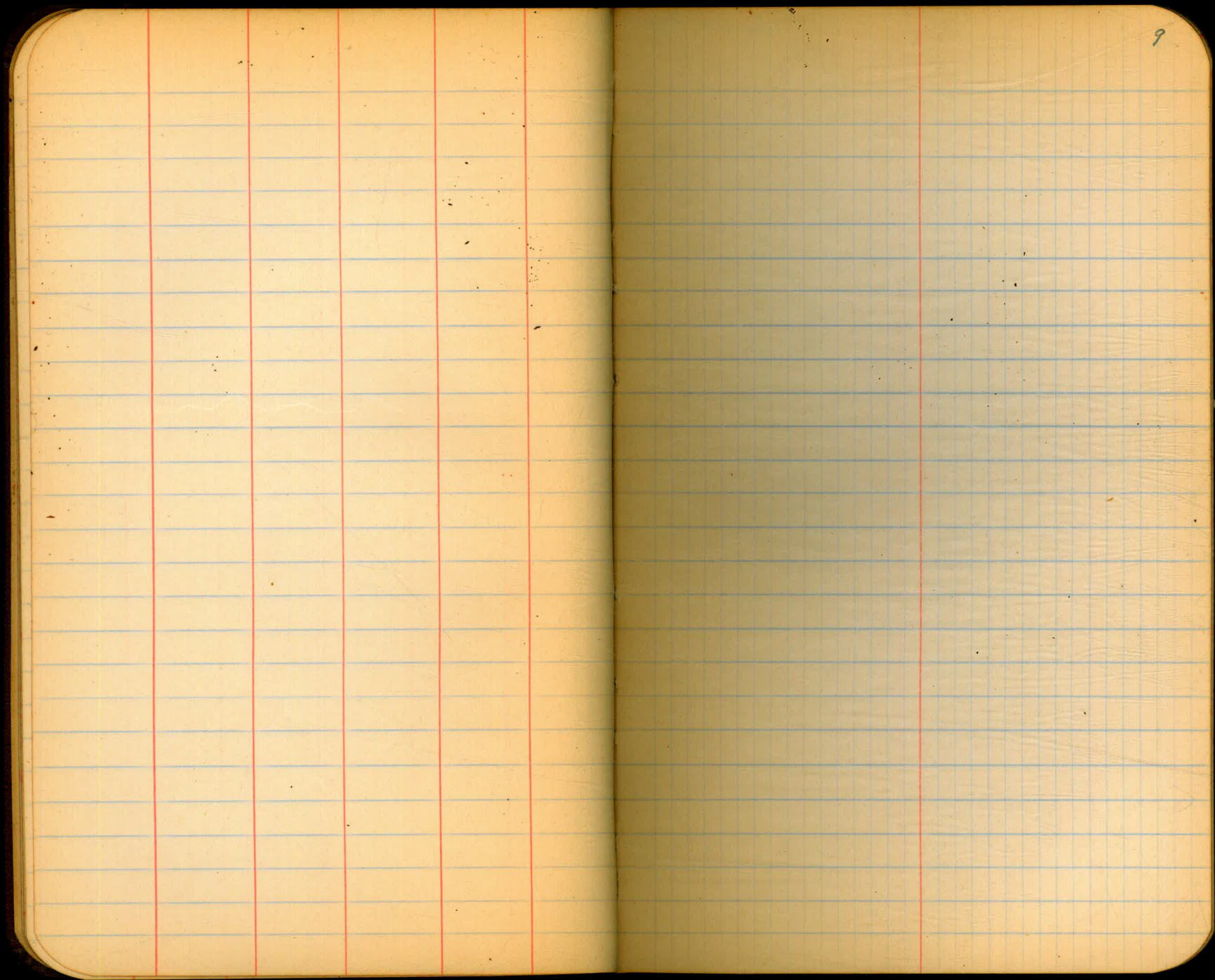




7

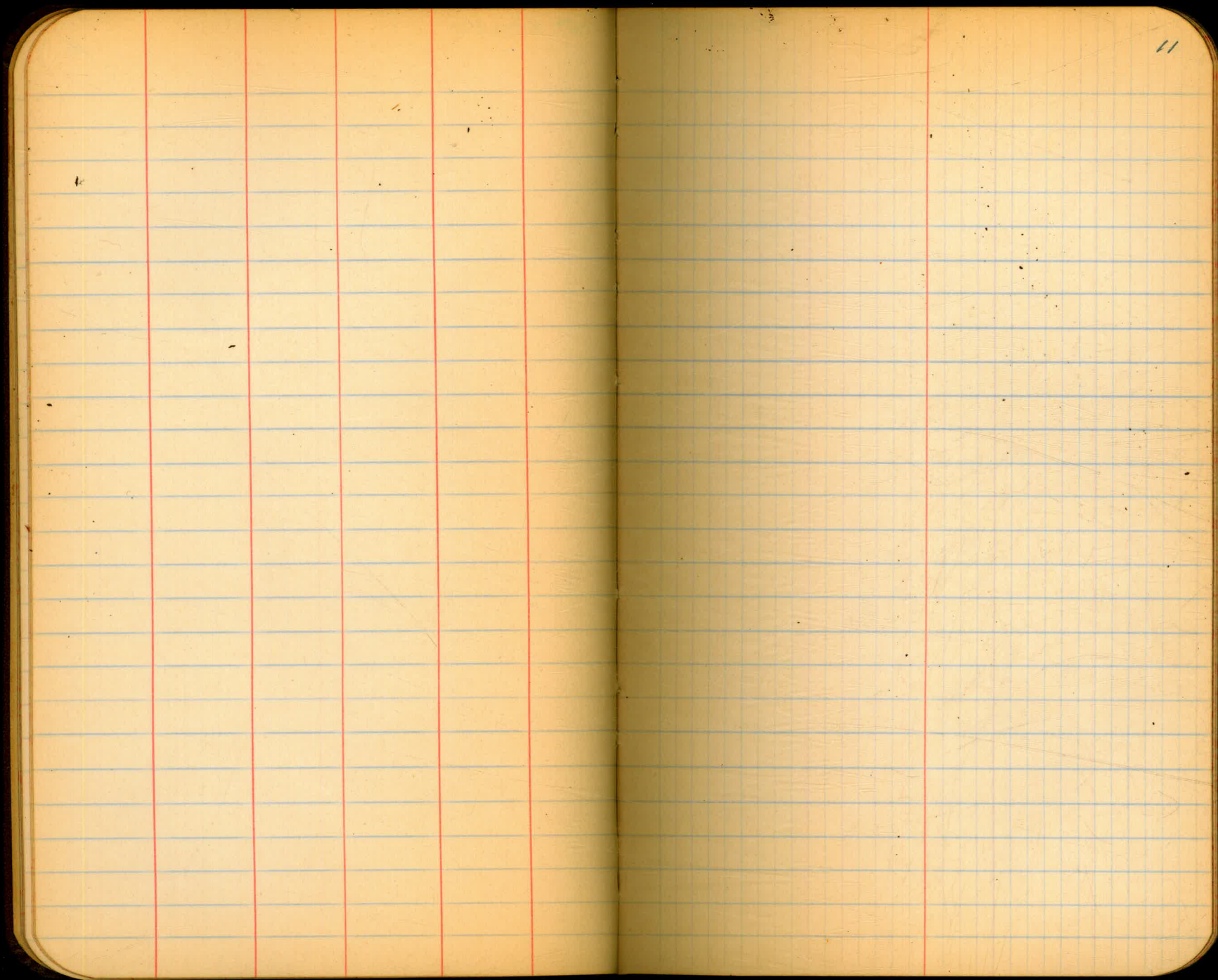
Trestle #4

8



Trestle #5

10



Trestle #6

12





Trestle #7

12



Trestle # 8

16



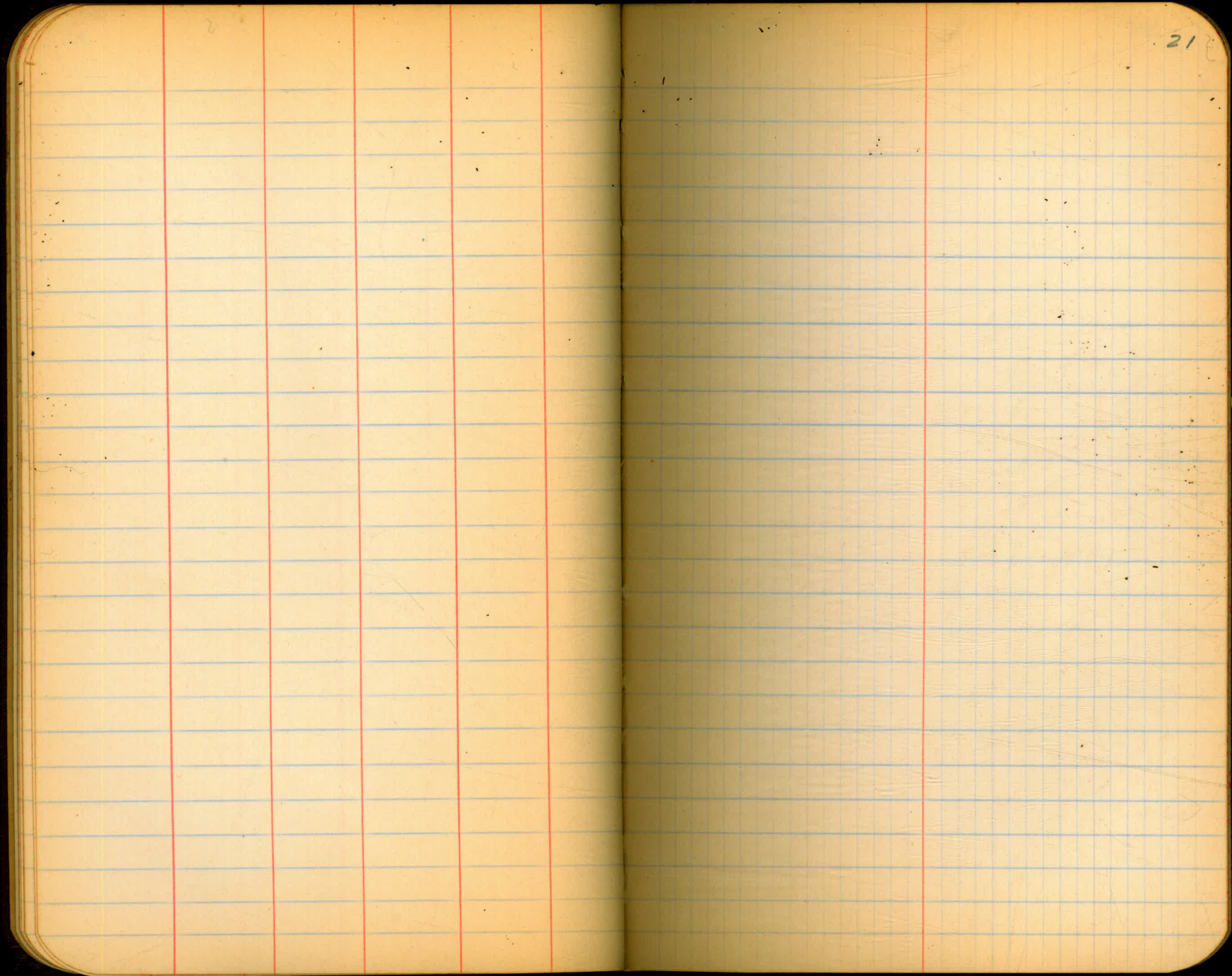
Trestle #9

18



Trestle 10

20





Trestle 11

22



Trestle 12

24



Trestle 13

26



Trestle #14

28

| | | | |

| | | | |



Trestle 15

30



Trestle 16

32



Trestle 17

34



Trestle 18

36





June 13, 1930  
 Cloudy - Cool

Trestle 20

Elliott  
 Jacobson  
 Bailey

38

Elev. Pipe Grade

B.M. #78

161.26

0.68 161.94

T.P.

12.27 149.67

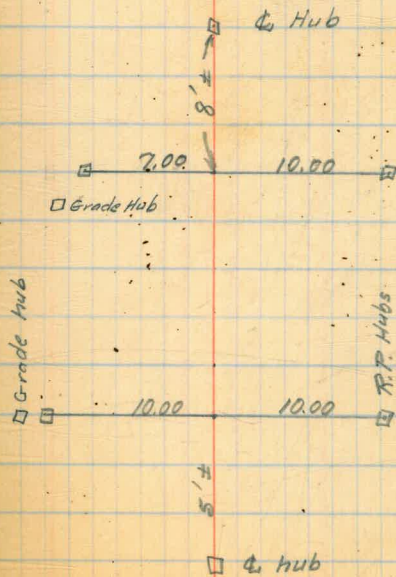
0.31 149.98

Top of hub 8' West + 1/3 of 1/2 Pier #2 9.21 140.77 140.77

Pier #2  
 492 + 50.5

Top of hub 11' W. of 1/2 pier #1 9.32 140.66 140.66

Pier #1  
 492 + 43.5



Teeth

39

## Trestle #21

June 13, 1930

Cloudy - Cool

Elev. Pipe Grade

Elliott Notes Trans #40  
Jacobson Hd. Ch. Levels  
Bailey Hd. Ch. Rod

B.M. #78

161.26

0.68

161.94

T.P.

12.27

149.67

0.31

149.98

R.P. Hub 10' Lt

6.00

143.98

Cut 0.58

143.40

" 10' Rt

6.58

143.40

Grade

143.40

Pier #2

493+630

Top R.P. Hub 10' Lt

4.75

145.23

Cut 2.58

142.65

" 10' Rt

10.50

139.48

Fill 3.17

142.65

Pier #1

493+980

T.P.

0.42

149.56

12.70

162.26

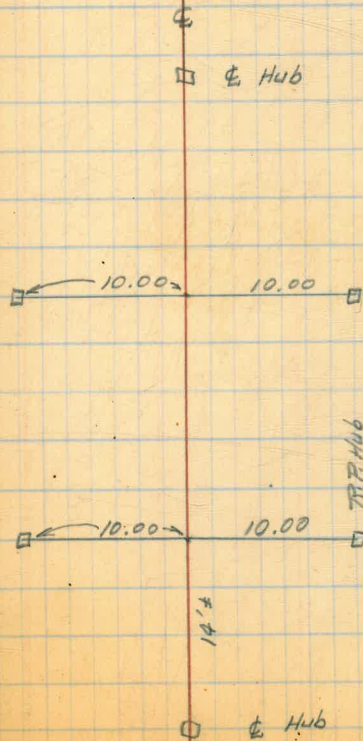
B.M. #78

0.99

161.27

Record

161.26





Cloudy - Cool  
June 13 - 1930

Trestle 22

Elev. <sup>Rise</sup> Grade

Elliott Notes Tring  
Jacobson &  
Bailey Ch.

B.M. #82

175.35

3.53 178.88

R.P. Hub Rt Pier #1

7.22 171.66 170.31

R.P. Hub Lt Pier #1

10.21 168.67 170.31

R.P. Hub Rt Pier #2

10.20 168.68 170.00

R.P. Hub Lt Pier #2

11.77 167.11 170.00

R.P. Hub Rt Pier #3

11.10 167.78 170.00

R.P. Hub Lt Pier #3

10.29 168.59 170.00

R.P. Hub Rt Pier #4

9.84 169.04 170.33

R.P. Hub Lt Pier #4

7.36 171.52 170.33

B.M. #82

Cut 1.35

Fill 1.64

Pier 1

516+96.5

Fill 1.32

Fill 2.89

Pier 2

516+61.5

Fill 2.22

Fill 1.41

Pier 3

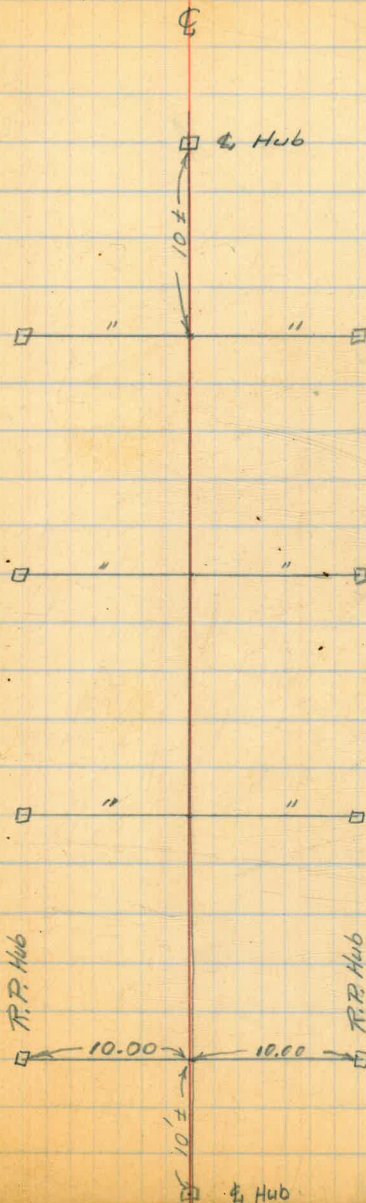
516+76.5

Fill 1.29

Cut 1.19

Pier 4

516+91.5





Trestle 23

44





Trestle

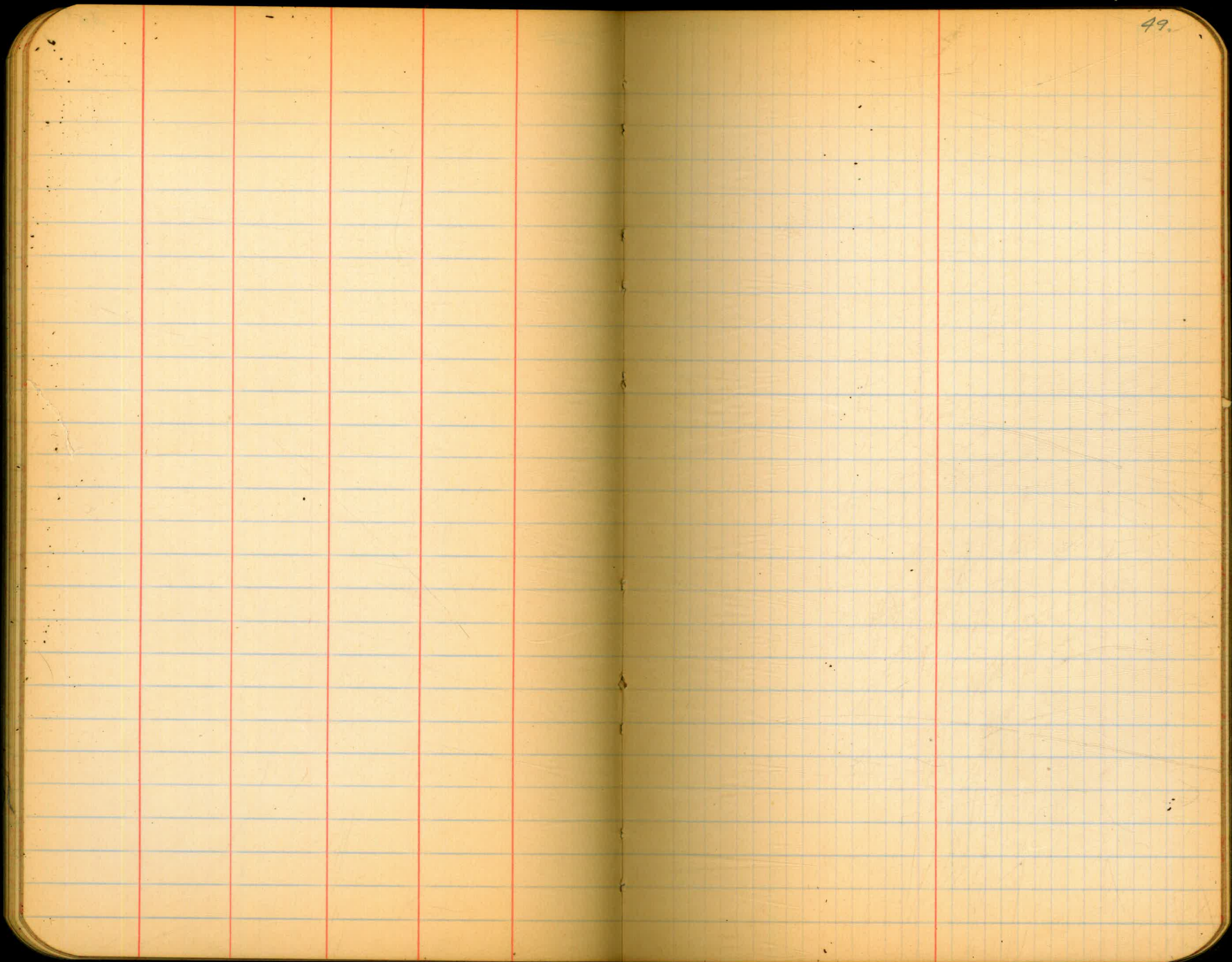
24

46



Trestle #25

48



Trestle 26

50



June 11, 1930  
Clear - Warm

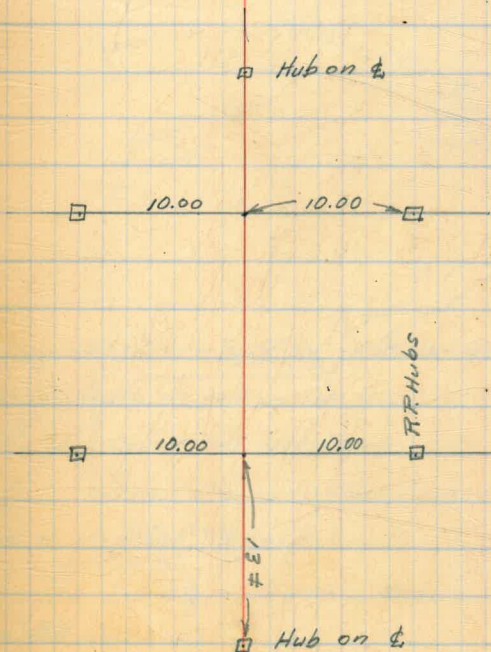
Trestle 27

52

Elliott  
Jacobson  
Bailey

Pier #2  
571 + 27.0

Pier #1  
571 + 12.0



Lower Otay Dam Pressure Grouting

P.B.

R.C.W.

(Mexican Helper)

Warm + Sunshine

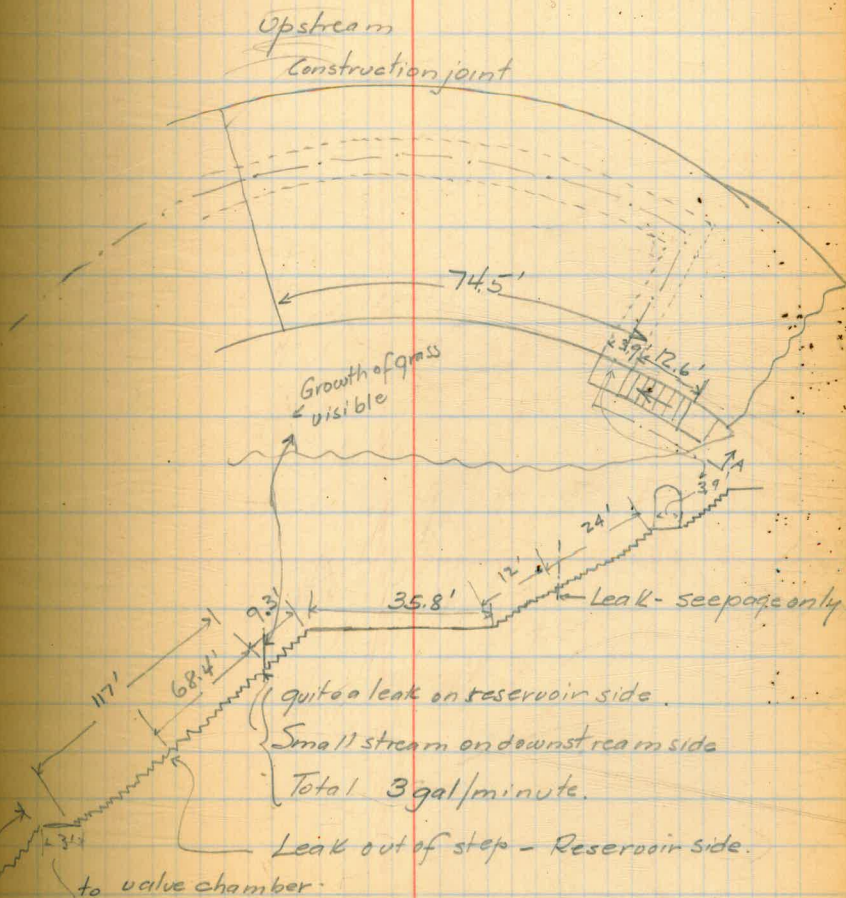
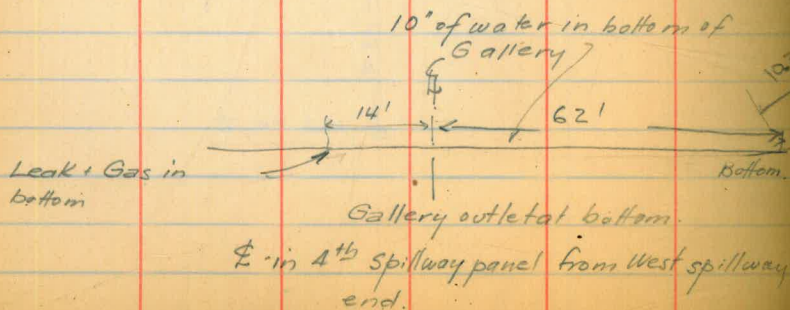
Distance from deck to ground surface in Reservoir  
at the leaking construction joint = 49 feet.

Depth of water at construction joint 33 feet.

Leaking construction joint occurs in 4<sup>th</sup> spillway  
panel from east end (end toward independent  
spillway)

74.5' to crack measured at downstream edge, top of dam  
from east end of passage entry.

Large Leak in gallery must be about elevation as  
where visible from outside on downstream face.



Section A-A



SA

3/23/34

P. Beermann

N. Gote.

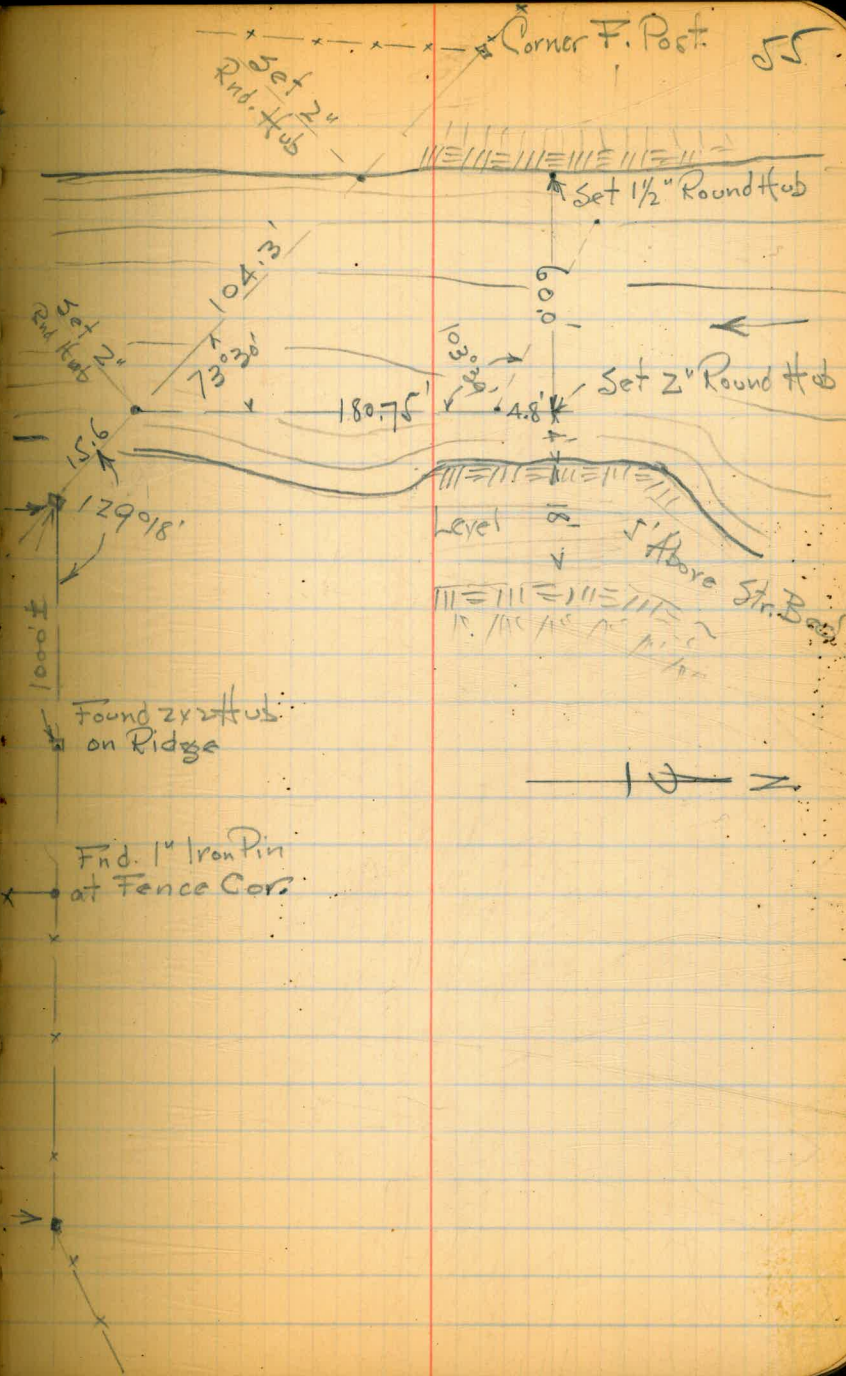
# OTAY CREEK GAUGING STA

12/18/39  
 Beermann  
 Scott  
 Kemmen

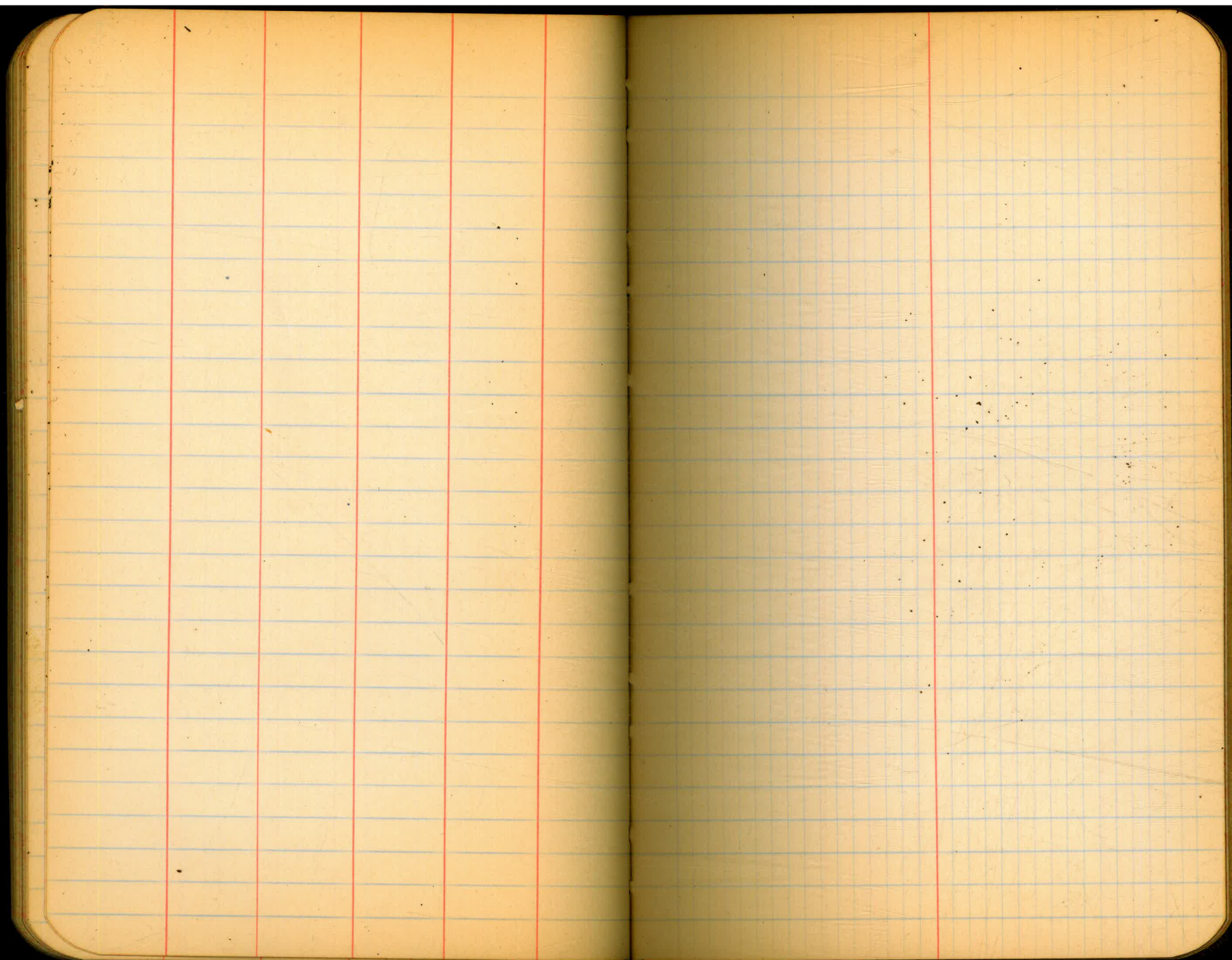
R.J. 1  
 Found 3" x 6" Post  
 in Md. of Rock in  
 Natural Rock Dike  
 6' ± Above Str. Bed  
 Level -

See L.S. N° 430 - Rancho Jamul  
 " File # 510 for 100' Condemned Strip.

R.J. 2 -



52



DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope  $1\frac{1}{2}$  to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

from side stake to slope stake. If ground is not level, the side stake and slope stake, lower target by the amount it cut, elevates it fill. Add this amount to cut or fill and find distance in table. Set up rod at this point and line of sight should cut target.

**IMPROVED TABLES  
AND  
INFORMATION**

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given  $L$  may be found by dividing tangent (or external), opposite  $L$  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.

557  
222