

SAN PASQUAL - -
VALLEY WATER LEVELS

BOOK No 2

PASTS

LEVEL BOOK

No. 380

W325

MICROFILMED
JAN 14 1965

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.

92 FIFTH ST.
PORTLAND, ORE.

79 NEW MONTGOMERY ST.
SAN FRANCISCO, CAL.

AGENTS FOR

"BERGER" TRANSITS and LEVELS
"GURLEY" SURVEYING and HYDRAULIC INSTRUMENTS
"CHICAGO" STEEL TAPES, etc.

Well N^o 1

Bach Lower Pumping Plant - 2" pipe - 1.2' above ground.

Elev. top of pipe 366.80

Date	Dist. to water Surface	Elev. water Surface	Barometric Press.
------	---------------------------	------------------------	----------------------

Well N^o 2

W. end Bradbury N. fence. 2" pipe 1.4' above ground.
16' deep.

Elev. top of pipe 357.57

Date	Dist. to water Surface	Elev. of water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N^o 3

Center of Bradbury N. fence. 2" pipe - 2.2' above ground
17' deep.

Elev. top of pipe **358.76**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N^o 4

E. end of Bradbury N. fence. 2" pipe 0.7' above ground.
15' deep.

Elev. top of pipe **356.07**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N^o 5

E. shore of Wood Lake. 2" pipe 2.2' above ground 19' deep.

Elev. top of pipe **354.89**

Date	Dist. to Water Surface	Elev. of water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 6

N. side of road opposite Wood's House 4" casing 29' deep

Elev. top of casing **361.96**

Date	Dist. to Water Surface	Elev. of water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 7

Geo. Wood House Well 12" casing 30' deep. 2" cent pump 3.2 ft below ground. Reference Point, flange top of suction pipe. 1.21' above casing

Elev. of Ref. Pt. **361.21**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 8

On lane fence S. of Wood House 2" pipe 2' above ground 16' deep.

Elev. top of pipe **358.30**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 9

On lane fence S. of Wood's House 2" pipe 2.1' above ground 18.5' deep.

Elev. top of pipe **360.53**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 10

On lane fence S. of Wood's House. 2" pipe 1.7' above ground 20' deep.

Elev. top of pipe **361.05**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N°11

On lane fence S. of Wood's House 2" pipe 1.3' above ground 18.5' deep
near river

Elev. top of pipe **360.15**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N°12

W. bank of junction of Bach Creek with San Dieguito River. 2" pipe
15.5' deep

Elev. top of pipe **348.05**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

7/24/28	4.78		
---------	------	--	--

Pools

8/21/28	4.90		
---------	------	--	--

Pools

3/28/28	5.24		
---------	------	--	--

River Dry

2/27/29	4.40		
---------	------	--	--

10.0

5/9/29	4.35		
--------	------	--	--

2.0

6/27/29	4.54		
---------	------	--	--

Pools 0.02

Well N^o 13S. side of road near bridge over Bach's Cr. 2" pipe 2.4' above ground
19' deep.

Elev. top of pipe 352.74

Date	Dist. to water Surface	Elev. of water Surface	Barometric Press.
7/26/28	4.78		0
8/21/28	5.40		0
9/28/28	6.06		0
11/5/28	6.07		0

Well N^o 14Old Pratt Ranch Wind-mill & cent. pump. Ref. pt. top of 2"x12" 3.5'
above ground.

Elev. of Ref. Pt. 362.34

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	13.70		
8/21/28	14.02		
9/28/28	14.22		
11/5/28	14.42		
2/27/29	12.58		
5/9/29	11.81		

Well N^o 15

P. Menvielle old dug well. Ref. Pt. Top of cover 18' deep.

Elev. of Ref. Pt. 364.67

Date	Dist. to water Surface	Elev. of water Surface	Barometric Press.
7/26/28		12.60	
8/21/28		13.24	
9/28/28		14.03	
11/5/28		14.50	
2/27/29		13.65	
5/9/29		12.43	
6/27/29		12.95	

Well N^o 16

Jennings Wind-mill (Spaulding)

Elev. of Ref. Pt. 370.16

Date	Dist. to water Surface	Elev. of water Surface	Barometric Press.
9/28/28		14.88	

Well N^o 17

W. side of road S. of Mass Place. 2" pipe 2.2' above ground.
21' deep.

Elev. top of pipe 364.07

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	6.15		0
8/21/28	7.05		0
9/28/28	7.93		0

Well N^o 18

W. side of road S. of N^o 17. 2" pipe -2.1' above ground 18.5' deep.

Elev. of top of pipe 365.80

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	7.67		
8/21/28	8.59		
9/28/28	9.55		

Well N^o 19

Old windmill deserted house on Wood Place. Ref. Pt. 0.8' above ground

Elev. of Ref. Pt. **366.48**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	9.22		
8/21/28	12.05		
9/28/28	10.95		
11/5/28	11.43		
2/27/29	9.09		
5/9/29	7.58		
6/27/29	9.02		

Well N^o 20

S. of N^o 19 2" pipe 3.1' above ground 19' deep.

Elev. top of pipe **367.62**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	10.12		
8/21/28	10.86		
9/28/28	11.77		

Well N^o 21S. of N^o 20 2" pipe - 2.2' above ground. 19' deep.

Elev. top of pipe 367.01

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	9.64		
8/21/28	10.12		
9/28/28	10.78		

Well N^o 22S. of N^o 21 on bank of river. 2" pipe - 1.7' above ground. 19' deep.

Elev. top of pipe 366.09

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	7.74		0
8/21/28	8.20		0
9/28/28	8.70		0

Well N^o 23

Windmill old Hall Place. Ref. Pt. top of cover. 1.0' above ground. Cent. pump. Dug

Elev. of Ref. Pt. **370.98**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 24

Boyle House. Cent. pump. Ref. Pt. top of cover.

Elev. of Ref. Pt. **374.19**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

7/26/28 10.30

8/21/28 11.32

9/28/28 12.30

Well N^o 25S. side of road, opposite Boyle House. 2" pipe. 2.2' above ground
2' deep.

Elev. top of pipe 369.49

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	6.65		
8/21/28	6.68		
9/28/28	6.72		

Well N^o 26Boyle alfalfa field S. of N^o 25 2" pipe. 1.5' above ground

Elev. top of pipe. 368.07

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
7/26/28	6.02		
8/21/28	6.97		
9/28/28	8.28		

Well N^o 27S. of N^o 26 on S. side of wash. 2" pipe 1.7' above ground
17' deep

Elev. top of pipe. 367.22

Date	Dist. to W.S.	Elev. of W.S.	Barom. Press.
7/26/28	5.75		0
8/21/28	7.18		0
9/28/28	8.63		0

Well N^o 28E. of N^o 27. Below dam. 2" pipe. 1.4' above ground. 17' deep.

Elev. top of pipe. 368.79

Date	Dist. to W.S.	Elev. of W.S.	Barom. Press.
7/24/28	3.96		Pond spill = 0.2
8/24/28	4.99		Pond spill = 0.00
9/28/28	7.18		Pond dry

Well N^o 29

Boyle E. fence line. 2" pipe 0.35 above ground. 13' deep.

Elev. top of pipe 370.34

Date	Dist. to W.S.	Elev. of W.S.	Bar. Press.
7/26/28	4.75		
8/21/28	5.23		
9/28/28	5.90		

Well N^o 30Old wind Mill opposite Roberts. Reference Pt. south curb.
(new ref. pt. top of cover).

Elev. Ref. Pt (new) 379.53 old ref. pt. 0.15' lower.

Date	Dist. to W.S.	Elev. of W.S.	Bar. Press.
7/26/28	6.20		
8/21/28	6.70		
9/28/28	7.0		
2/27/29	5.95		
5/9/29	4.42		
6/27-29	4.70		

mud at 7.0

Well No 31

By side of No 30. 2" pipe. 1.8' above ground. 18.5' deep.

Elev. top of pipe. 380.16

Date	Dist. to W.S.	Elev. of W.S.	Bar Press.
7/26/28	6.52		
8/21/28	7.12		
9/28/28	7.77		
11/5/28	8.22		
2/27/29	6.67		
5/9/29	5.55		
6/27/29	6.55		

Irrig. ditch at

Ditch & Pools

Well No 32

Windmill. old creamery Ref. Pt. So. curb.

Elev. of Ref. Pt. 393.97

Date	Dist. to W.S.	Elev. of W.S.	Barom. Press.
7/26/28	17.65		
8/21/28	18.32		
11/5/28	19.60		
2/27/29	17.58		
5/9/29	16.30		

Reservoir
1/2 full

Well No 33

W. side of Fenton's ford N. bank. of river. 2" pipe 2.7' above ground. 17' deep.

Elev. top of pipe 384.28

Date	Dist. to W.S.	Elev. of W.S.	Bar Press.
7/26/28	5.92		0
8/21/28	6.11		0
9/28/28	6.70		0
11/5/28	6.98		0
2/27/29	4.44		12.0
5/9/29	4.25		10.0
6/27/29	4.78		0.3

Well No 34

S. bank of river. Fenton's road. 2" pipe. 2.5' above ground. 18' deep.

Elev. top of pipe 385.05

Date	Dist. to W.S.	Elev. of W.S.	Bar Press.
7/26/28	6.57		0
8/21/28	7.09		0
9/28/28	7.65		0

Well N^o 35S. of N^o 34 2" pipe 2.2' above ground 16' deep.

Elev. top of pipe 384.45

Date	Dist. to N.S.	Elev. of N.S.	Barom. Press.
7/26/28	6.27		
8/21/28	6.80		
9/28/28	7.38		

Well N^o 36S. of N^o 35 2" pipe 2.5' above ground.

Elev. top of pipe 385.33

Date	Dist. to N.S.	Elev. of N.S.	Bar. Press.
7/26/28	7.69		
8/21/28	8.28		
9/28/28	8.96		

Well N^o 37

7/26/28 5.81

0

8/21/28 6.53

0

9/28/28 7.02

0

Well N^o 38

7/26/28 4.93

0

8/21/28 5.28

0

9/28/28 5.82

0

Well N^o 39

7/26/28	7.74
8/21/28	7.70
9/28/28	8.61

irrig.

Well N^o 40

7/26/28	7.57
8/21/28	7.28
9/28/28	8.36

irrig.

Well No 41

7/26/28	4.13
8/21/28	4.46
9/28/28	5.05

Pool

7/26/28 4.85

0

Mud

8/21/28 5.26

0

Pond dry

9/28/28 5.81

0

Well No 42

Well N^o 43

Dug well Judson Dairy

Elev. of Ref. Pt. **420.30**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 44

Fence line N. of Marchus new house. 2" pipe
4.7' above ground 27' deep.

Elev. top of pipe **449.66**

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 47

Well N^o 48

On Trussel E. fence near road. 2" pipe - 2.1' above ground
22' 22" deep.

Elev. top of pipe 439.89

Date

Dist. to Water
Surface

Elev. of Water
Surface

Barometric
Press.

Well N^o 49

S. of N^o 48 2" pipe - 1.0 above ground 23' deep

Elev. to top of pipe 438.58

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N^o 50

S. of N^o 49 2" pipe 0.9' above ground 21' deep

Elev. top of pipe 437.51

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well N^o 51

Jorgeson dug well S. of N^o 50. - 6' casing, 2.0' below ground

Elev. top of casing 434.51

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well N^o 52

Trussel House 12' casing. Cent. pump. - 4.5' below ground
Ref. pt. top of casing.

Elev. of Ref. Pt. 429.32

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

Well No 53

Feet

Elev. of Ref. Pt. 425.48

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
9/28/28	1.30		
11/5/28	5.80		
2/27/29	4.61		
5/9/27	4.75		
6/27/29	5.15		

1. dry at br.

1.0

Well No 54

Wind mill Rockwood

Elev. of Ref. Pt. 432.49

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.

Well N^o 55

About 1200' N. of Rockwood House, on fence line. 2" pipe
1.5' above ground. 19' deep.

Elev. top of pipe **436.42**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

9/28/28	6.85		
---------	------	--	--

Well N^o 56

S. of N^o 55 near ranch road. 2" pipe, 0.6' above ground
12.5' deep.

Elev. top of pipe. **430.73**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

9/28/28	4.77		
---------	------	--	--

Well N^o 57

West of N^o 56, center of valley. 2" pipe, 1.0' above ground
17' deep.

Elev. top of pipe 431.12

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

9/28/28	5.85		
---------	------	--	--

Well N^o 58

West of N^o 57, on E. bank of Guejito Cr. 2" pipe
1.6' above ground, 19' deep.

Elev. top of pipe 432.83

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

9/28/28	7.78		
---------	------	--	--

Gr. dry

Well N^o 59

We Peet Place near mouth of Quejito Cr. 2" pipe
2.5' above ground 19' deep

E. Elev. top of pipe 424.48

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
8/21/28	7.69		
9/28/28	7.96		
11/5/28			

0
0
Creek dry
Main River dry
at br.

Well N^o 60

School House Top of cover

Elev. of Ref Pt. 396.20

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
8/21/28	7.34		
9/28/28	8.15		
11/5/28	8.32		
2/27/29	5.45		
5/9/29	6.00		
6/27/29	6.21		

1.0

Well No 61

P. Mervielle fence line N. side of road. 2" pipe
16' above ground. 16' deep.

Elev. top of pipe **363.22**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
8/21/28		9.16	
9/28/28		9.71	

Well No 62

Windmill, Moss, Co. road, house. Ref. Pt. top of
Cover.

Elev. of Ref. Pt **375.51**

Date	Dist. to water Surface	Elev. of Water Surface	Barometric Press.
------	---------------------------	---------------------------	----------------------

Well No 63

San Pasqual Ranch. Ref. pt. N. side of top stringer.

Elev. of Ref. Pt. 341.04

Date	Dist. to Water Surface	Elev. to Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

6/27/29	7.61		
---------	------	--	--

Well No 64

Old Trussel Dairy, near Fenton. Ref. Pt. top of 12" pipe

Elev. of Ref. Pt. 410.00

Date	Dist. to Water Surface	Elev. of Water Surface	Barometric Press.
------	------------------------	------------------------	-------------------

8/21/28	17.14		
---------	-------	--	--

9/28/28	17.88		
---------	-------	--	--

2/27/29	14.67		
---------	-------	--	--

5/9/29	13.84		
--------	-------	--	--

6/27/29	14.80		
---------	-------	--	--

Guejito Creek

Discharges

by F.E.Green

Date

2/27/29 0.2

5/9/29 0.1

6/27/29 0.3

Remarks

Santa Maria Creek

Discharges

by F.E.Green

Date

2/27/29 0

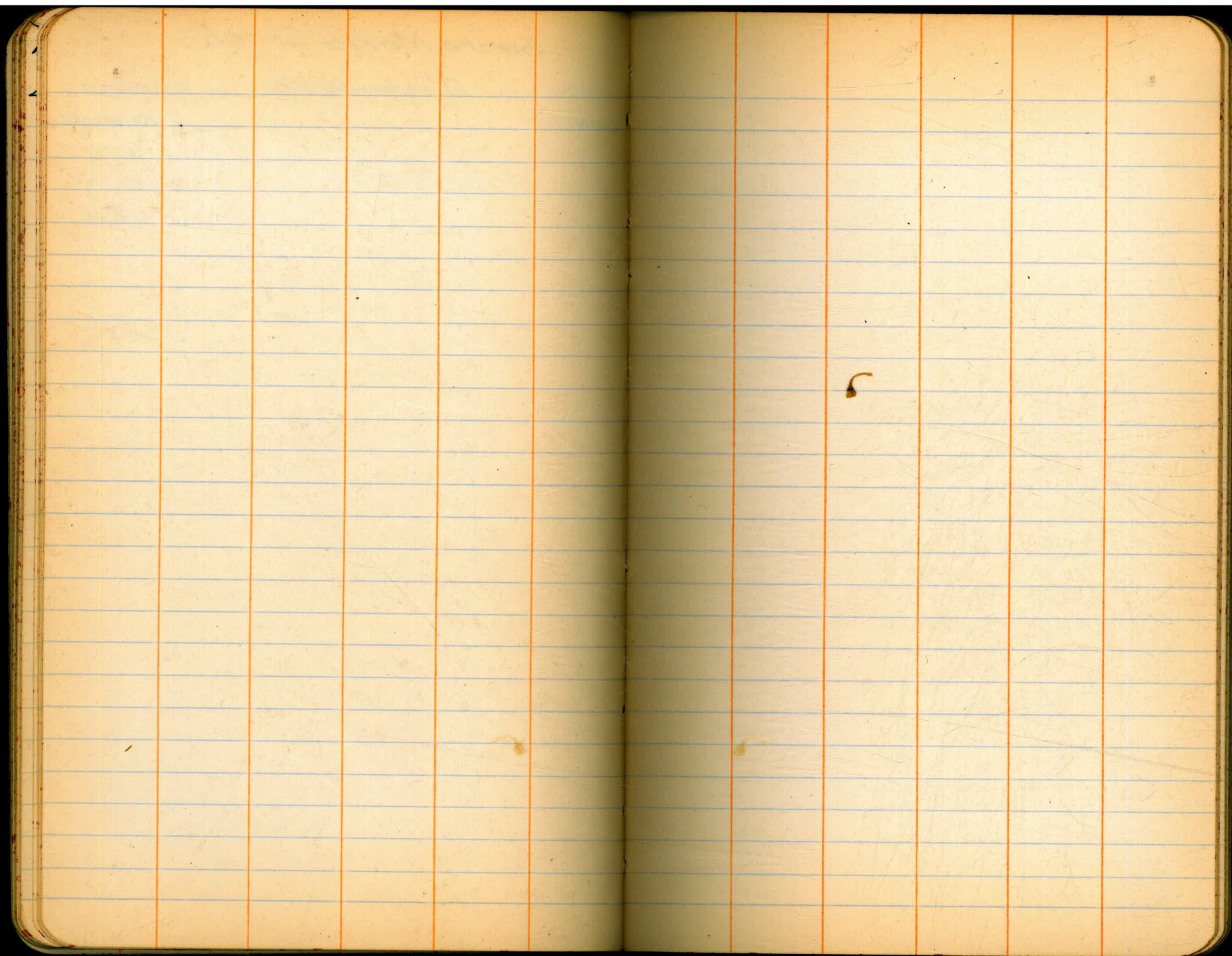
5/9/29 0

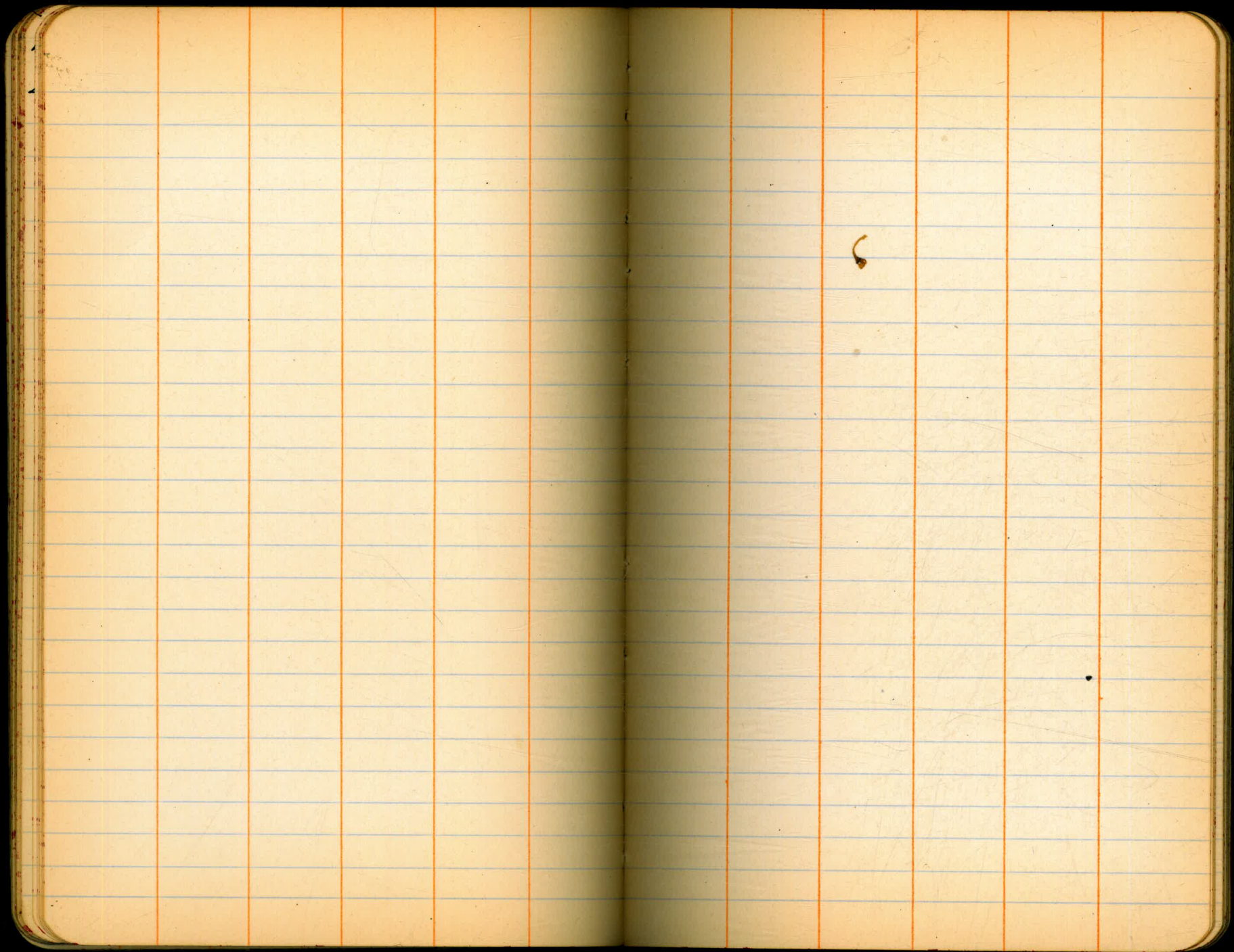
6/27/29 0

Remarks

Winkles

" " "





DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in

of table in same row and column gives distance

IMPROVED TABLES

level estimate the difference in elevation between the side stake and slope stake lower target by this amount if cut, elevate if fill. Add this amount

AND

to cut or fill and find distance in table. Set up rod at target. If it does not make the slight adjustment

INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add connection found in column of connections.

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.

