

EASTS

CROSS SECTION

30075

No. 395

W225

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**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.

Start Grade 1937

1970 grade

00111

1946  
1946

24700

19458  
19462

23750

19306  
19388

23700

19336

19205

19188

22750

19254

19279

23700

19294

19270

19200

21750

19261

21700

19279

19230

19199

19171

20775

19215

20750

19322

20725

19318  
19334

19750

19416

19725

19468

19700

19518

19725 Loose Rock + D-7

2 E1, 19536

19700

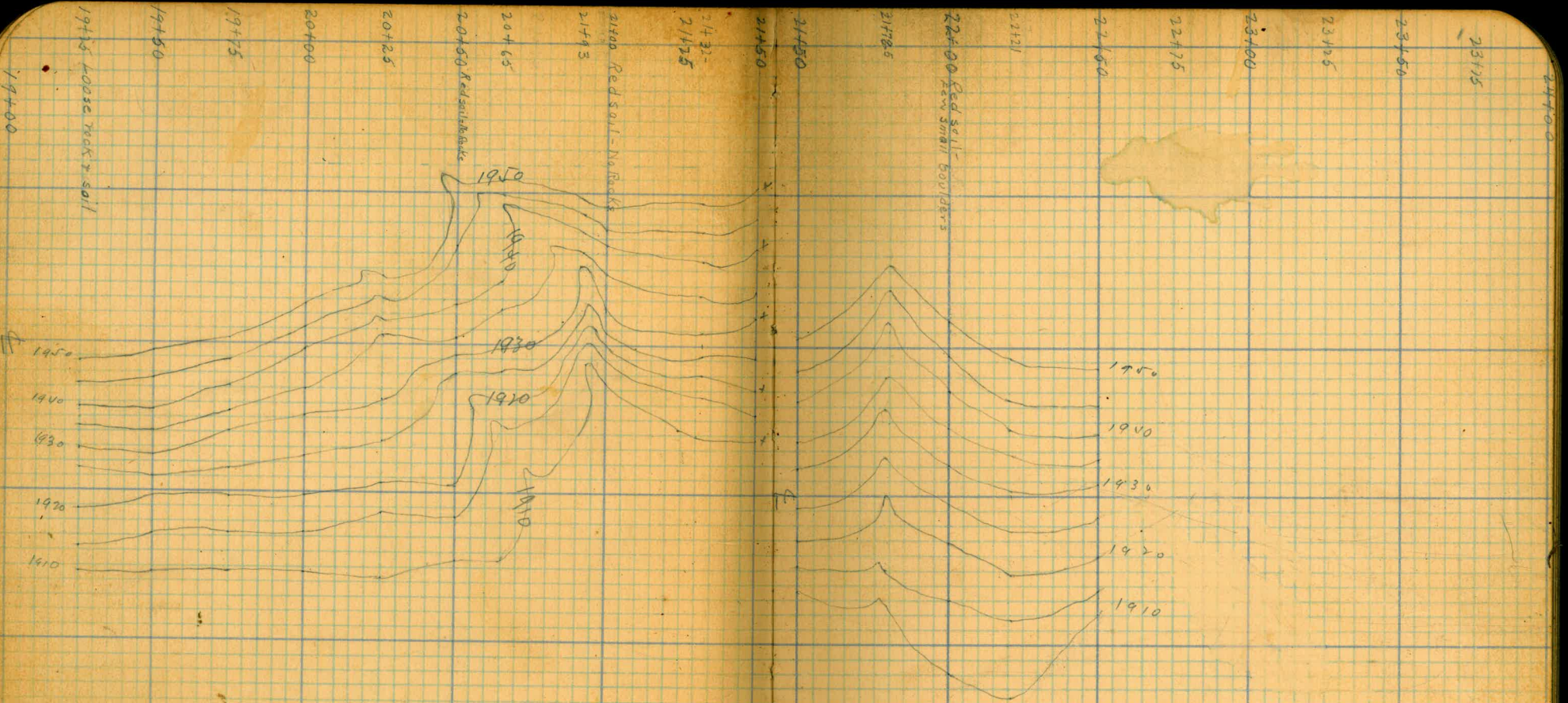
Wed 8-10-27  
Bliss - Trust  
Lundy - Chair  
Mottson - Chair

Scale  
1 in = 50'  
1 in = 100' →



Creek Bottom - E. El. 19200

Creek Bottom - E. El. 1993-19141



19475

19450

19425 Small graduate rocks and soil

1950	1945	1940	1935	1930	1925	1920	1915	1910
6	83	73	59	74	91	101	120	138

1950	1945	1940	1935	1930	1925	1920	1915	1910
12	28	43	57	72	84	112	138	163

7



Station Elev.

3+00

2+50

2+00

1+50

1+00

0+50

0+00



Elev.  $\phi$ Elev  
 $\phi$ 

Topog. on Hill

P.O.G.  
Elliott  
Brooks  
Bailey

Sept. 6-27

27+37.5  
1931.80

22.4

22.4

27+25  
1931.82

23.7

23.7

27+14  
1931.84

25.1

25.1

27+00  
1931.87

21.8

21.8

26+75  
1931.92

17.1

17.1

26+67.5  
1931.93

15.6

15.6

Grade = 0.19 %  
Earth side Hill slope26+51.46  
1931.9618848  
125.21945  
46.01940  
39.51935  
13.51930  
8.71920  
4.

16.8

1915  
121910  
28.51905  
41.81900  
53.91895  
66.21890  
79.31885  
92.01880  
104.41882.0  
113.4East Side  
Road

29+00  
1931.49

Large Roads

19534  
33

1935  
9.0

30.9

1930  
13

1925  
10.0

1920  
22.0

1915  
29

28+68<sup>80</sup> EC  
1931.55

1955  
27.5

1950  
18.0

1945  
9.0

1940  
11.3

39.3

1935  
9.2

1930  
17.6

1925  
27.0

1920  
35.0

1915  
37.6  
20

1910  
47.1

1910  
63.6

West side Road

East side Road

28+50  
1931.58

417

28+23<sup>20</sup> BC  
1931.64

39.9

↓

Earth side H //

28+00  
1931.68

1945  
357

1945  
11.5

1940  
4.0

30.8

1930  
5.0

1925  
15.5

1920  
24.3

1915  
27.7

1910  
48.7

1910  
54.5

West side Road

East side Road

27+51<sup>75</sup>  
1931.77

30.8

X- Section thru Sta  
27+45.3

27+42<sup>43</sup> EC 19286  
1931.79

1940  
27.0

1935  
12.5

30.6

1930  
1.0

1925  
5.5

1920  
29.0

1915  
35.0

1910  
43.5

1905  
54.5

West side Road



30+14<sup>23</sup>BC  
1931.27

1950  
7.0

45.1

45  
0.2

1940  
100

19258  
35.9

30+00  
1931.30

45.2

29+90  
1931.32

44.3

29+83  
1931.33

39.1

29+77<sup>16</sup>  
1931.34

1955  
220

1950  
170

1945  
117

19428  
6.5



single Rock

1933.9  
7

1930  
115

1925  
19.2

29+68  
1931.36

36.8

Large Rocks

29+50  
1931.39

35.2

32+00 1915  
1930.92

31+84.5

1950.0 45 40.35 1930 1925 20.2 1920 1915 1910  
57.0 43.6 35.2 22.9 12.4 10.0 8.5 10.5 20.2

31+61 18.3  
1930.99

Earth side hill

31+50 11.8  
1931.01

31+38 Gully → 1930 1925 1919 20 15 10 1905 1900 1897 7  
70.2 40.0 23.4 19.0 14.6 12.5 8 0.8

1895 West Side Road  
18.0

1890 East Side Road  
7.60

Gully →

31+00 10.1  
1931.11

\* Section thru Sta

30+95.2 1944.8  
30+92 54.3  
1931.13 1910.0

1920 1915 1910 1905 1900 1895 1890 1885 1880  
12.0 9.4 2.0 0.9 6 21.7 25.5 59.2 55.0 55.8

West Side Road  
1895

Large Rocks

30+56<sup>93</sup> EC 36.3  
1931.19

30+25 1944.3  
1931.25

9-7-27

33+25  
1930.68

	24.4
	1 2 8
HI 193	7.2
	3.
19	34.2
	7.8
	42.0

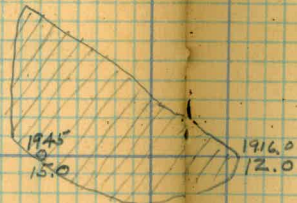
ground  
slow  
west end  
of Rock

19420  
200

24.4

1920  
6.01915  
17.533+00  
1930.73

35.6

32+91.5  
1930.75

25.0

32+75  
1930.78

21.4

32+50  
1930.82

17.0

1946.7  
54.01925  
1651920  
65

17.0

1915  
6.01910  
19.032+25  
1930.87

17.8

32+08<sup>14</sup> BC 1919.1  
1930.90

34+75  
1930.40

↑

30.0

34+50  
1930.44

Rock

29.4

1945 1940 1935  
22.2 18.7 11.7

1930  
2.5

28.4  
1920 1925  
4.8 9.0

34+25  
1930.49

∇  
↑

24.9

34+00  
1930.54

20.5

Earth

33+85  
1930.57

18.3

33+75  
1930.59

24.2

1945 1940 1935 1930  
41.5 38.0 25.0 14.4

1925  
1.5

25.2

33+50  
1930.63

∇

19.241

33	36+74 <sup>75</sup> BC	25.8	1945	1940	1935	1930	1925	1920
19	1930.02	$\begin{matrix} 13.2 \\ 49.0 \end{matrix}$	17.8	7.7	1.5	10.1	19.0	.

34	36+50	33.5						
19	1930.06							

34	36+00	29.2						
19	1930.16	$\begin{matrix} 10.6 \\ 1.5 \\ 28.6 \end{matrix}$						

35+90

1940	1935	1930	1925	1920
21.8	12.3	3.5	10.0	16.0

34	35+50	30.9						
19	1930.25							

35+42.7

1945	1940	1935	1930	1925
19.5	10.5	1.0	9.5	12.5

33	35+37 <sup>72</sup> EC	34.5						
193	1930.28							

33	35+25	33.0						
193	1930.30							

33	35+00	29.0						
19	1930.35							

41+50



32.6

1930	1925	1920
5.7	20.5	30.0

9.7627

Even stops between both "H" lines interpolate for contours according to respective Elev.

19.5
4.5
79.0

38+50

Earth

1935	32.3
8.0	

1930	1925	1920	1915
8.7	19.0	34.5	53.0

38+00

1929.78



486

37+75

1929.83

49.0

1920	1955	1950	44.0
27.0	15.0	2.5	

1945	1940	1935	1930	1925	1930	Flat Rock
7.9	22.5	39.7	51.3	60.9	62	
	1.5	1.6				

37+50

1929.87

47.2

37+25

1929.92

42.3

2.2

44.5

1955	1950	1945	42.3
19.5	19.5	3.0	

1940	1935	1930	1925
4.5	9.5	20.0	27.0

37+00

1929.97



1939.3

Rock



46+00

1930 26.0  
4.71925 7.0  
1920 14.0

9-7-27

45+50

1935  
17.31930  
8.0

26.4

1925  
3.01920  
11.5

45+00

1935  
17.81930  
7.8

28.8

1925  
1.01920  
8.51915  
17.2

44+50

1930  
3.3

23.8

1925  
2.01920  
14.7

44+00

1935  
7.0

31.5

1930  
2.51925  
7.51920  
22.5

43+68

1930  
3.6

27.4

1925  
3.21920  
17.51915  
28.0

43+32.42

1940  
4.4

37.4

1935  
3.31930  
10.41925  
16.31920  
38.8

42+50

1930  
5.4

26.5

1925  
8.41920  
17.51915  
34.7

Soil

Soil

52+00

1920 1915 1910

1905

1905

1900

1895

1890

9-7-27

21.5

13.5

0.5

0.7

19.7

17.4

28.9

4.0

51+5.0

1925  
8.51920  
1.5

19.5

1915  
13.01910  
23.7  
22.51905  
35.51900  
46.2

50+88.4

1930  
6.0

28.9

1925  
3.11920  
15.71915  
24.7

50+46.22

1935  
18.71930  
5.2

28.7

1925  
5.6  
26.3  
32.11920  
20.01915  
32.1

1910

49+50

1935  
13.41930  
2.3

28.9

1925  
4.51920  
19.51915  
30.0

48+54.4 EG

21.3

1920  
4.41915  
19.01910  
36.31905  
56.01900  
73.7

47+50

96.9

1895  
2.51890  
8.21887/1  
22.51890  
22.51895  
37.51895  
59.5  
+1.31890  
106.2

47+00

1910  
10.51910  
1.9

12.9

1910  
3.01905  
14.0

9-7-29

44.6  
12.15  
32.00

56+00

1935  
4.8

361

1930  
3.0

1925  
1.0

1920  
23.2

1915  
31.5

1910  
42.7

✓

55+16

201

54+50

1940  
4.3

214

1935.0  
7.2

1930  
19.0

1925  
27.5

1920  
46.0

1915  
54.6

1910  
62.0

✓

38.6  
13.0  
22.60  
5.2  
27.8

53+84.76

1950  
3.0

115

1940  
9.0

1935  
17.6

1930  
27.8

1925  
35.6

1920  
49.6

✓

53+00

1925  
7.0

215

1920  
3.2

1915  
11.0

1910  
18.5

1905  
30.7

1900  
42.5

✓

52+62.15

1915  
13.5

1910  
4.2

215

1905  
12.2

1900  
26.3

1895  
37.7

1890  
50.4

✓

H Line Topog.

9-19-27  
 POG  
 Ethel  
 Bailey

175+38

1905 33.0  
 1908 24.5  
 1895 10.0  
 1928  
 1890 11.8  
 1885 18.5



174+80

1920 54.8  
 1915 45.2  
 1910 35.5  
 (1902 29.6)  
 1910 21.3  
 1915 5.8  
 1926  
 1915 2.0  
 1910 9.5  
 1905 14.2  
 1900 20.2  
 1895 26.5  
 1890 32.8 38.7



174+05

1910 17.8  
 1905 11.0  
 1900 5.8  
 1905 9.5  
 1895 1.0  
 1895 13.2  
 1900 17.5  
 1905 23.5  
 1910 27.5



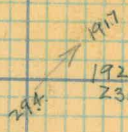
172+55

1925 22.9  
 1920 16.8  
 1915 10.7  
 1910 3.5  
 1920  
 1900 8.0  
 1915 15.5  
 1920 23.7  
 1915 30.0

Earth Boulder

171+87.65

1925 59.5  
 1920 51.0  
 1920 40.0  
 1920 29.4  
 1925 21.4  
 1930 14.5  
 1935 9.5  
 1940 6.3  
 1945 6.0  
 1950 13.7  
 1955 27.7



171+00

1920 99.0  
 1915 61.0  
 1910 59.2  
 1910 48.0  
 1910  
 1910 37.5  
 1915 23.5  
 1920 12.5  
 1925 3.5  
 1965 = N-side Road  
 21.9

ASSE Side Road

170+50

1965 116  
 1960 104.4  
 1960 84.0  
 N.S. Road  
 1960 44.0  
 1945 29.3  
 1970 8.0  
 1925

061  
 19.7  
 87.5

05  
 17.5  
 45.5

086  
 10.8  
 80.0

050  
 16.5  
 92.5  
 090  
 13.5  
 6.1

Sta. 172+97.2 Elev. 1904.6 - Grade

019  
 12.5  
 1.0

H line Topog

7-19-23

Post  
E. H. Bailey

183+00

1835 1850 1845 1840 1835 1830  
945 930 680 473 305 423

54  
76.5  
38.5

181+84

End of Rocky Mts. 1880  
84  
1975 1970 1965 1965 1965  
67.8 49.5 19.0 31.0 55.0

76.6  
11.6  
65.0

180+75

1915 1910 1900 90.5  
43.0 20.5 7.1

11.6  
13.1  
98.5

180+00

02.8 1905 1900 1895 1890  
11.8 25.7 43.0 60.0

04.0  
1905 1900 1895 1890  
6.6 24.0 58.1 89.0

177+50

07.8  
1905 1895 1890  
28.8 43.2 106.4 126.5

176+50

1915 1910 1910 1910 1910 1905 1895 1890  
96.0 78.8 62.0 10.8 7.6 27.8 34.6 41.6 49.4

Earth

Hill Top

9-19-27

P.O.G.  
E.M.H.  
Boyle

189+00

1905 1900 1895 1890 1889  
41.7 32.0 24.0 18.5 22.9

East Road

188+50

1915 1910 1905 1900 1895 1890  
40.2 29.0 16.0 11.0 14.8 15.7

E-S-Road

187+50

1915 1910 1905 1900 1895  
24.0 4.5 06.9 3.8 15.0 22.8

E.S. Road

186+50

1915 1910 1905 1900  
46.9 41.5 29.8 24.0

middle of Road

185+68

1920 1915 1910 1905 1900 1895  
45.5 33.0 27.0 12.0 19.0 21.00

Road

184+316

S-side 1895 1895 1895  
143 51 94.0 Road N-S 6.0 93.7

183+50

+ 200 m each brush 1900 58.6  
50.0

South of crest solid Rock top + Granite

18.8  
19.3  
46.1  
515.4

5.7  
3.4  
69.0

H line Topog.

194+20

1915 1910 1905  
20 21.0 6.6

192+28.7

1905 1900 1895 1890  
69.0 55.0 41.0 10.2

193+33

1915 1910 1905 1900  
19.0 37.4 22.5 1.8

191+50

1915 1910 1905 1900  
35.1 27.5 23.0 5

190+90

1905 1900 1905  
26.0 19.6 1.2

190+192<sup>5</sup> PI

1915 1910 1905 1900  
19 29.1 8.0 2.8

84+70

Rocks

1915 1910 1905 1900 1895 1890  
35.0 18.0 8.0 CIVIL 1.0

9-19-27  
P.O.G  
Bailey  
Ellis

E-S Road

1900 1895 1890  
2.0 12.0 13.5

E Road

CH  
12.9  
17.8  
15  
02.3

79.3  
14.2  
1913.5

E-S Road

1895 1890  
2.2 5.0

E-S Road

1895 1890  
3.1 2.0

108

E-S Road

1900 1895 1890  
2.0 8.0 1.5

98.2  
11.5  
102.9

E-S Road

1895 1890  
1.8 4.7

19.7  
29.2  
1589.5

E-S Road

"H" Topog

9-19-27

POG  
Elliot  
Bailey

199+25

1920	1915	1910	1905	1900	1895	1890	1885	1880	1875
122	128	118.0	113.0	111.5	105.5	88	480	220	30

ES Road

WS Road

1900

↑

↓

1895

198+30

1915	1910	1905	1900	1895	1890	1885
175.0	148	118.5	94.7	77.0	57.0	44.0

ES Road

WS Road

1906

11

226

14.7

197+27.6

1915	1910	1910	1910	1905	1900	1895	1890	ES Road
170	131.5	104.8	300	90	3.0	30	6.0	

50'

↑

↓

1915

196+50

1905	1900	1895	40	2
39.9	51.9	12.9		

ES Road

196+00

1905	1900	1895	90	6
27.5	16.5	8.0		

ES Road

195+20

1910	1905	1900	1895	1890	ES Road
28.5	14.8	15	13.8	15.8	

Rocks

194+69

1900	1895	1890	88.5	1890	ES Road
48.0	35.0	15		10.0	



"H" line Topog.

9-22-27

R.E.P.  
Elliott  
Breaks  
Bailey

207+16

1915	1910	1905	1900	1895	92.8
89.0	67.0	45.5	32.0	11.0	

ES Road  
5.0 50.0

205+50

1915	1910	1905	92.5
55.5	28.7	2.9	

ES Road  
1900 1895 1890  
13.5 19.0 80.0

204+50

1915	1910	1905	92.1
53.5	29.6	9.0	

ES Road  
1900 1895 1890  
7.0 11.0 26.5  
W.S. Road

203+00

1915	1910	1905	91.7
70.0	44.8	21.9	

ES Road  
1900 1895 1890  
8.0 26.0 22.0

201+75

1915	1910	1905	90.8
40.0	22.0	4.0	

ES Road  
1900 1895 1890  
11.5 25.0 29.5

200+34

1915	1910	1905	1900	1895	1890	90.8
102.5	86.0	65.0	52.0	42.0	4.0	

W.S. Rd

199+75

1915	1910	1905	1900	ES Road	W.S. Road	1895	1890	91.9
147.0	125.0	108	99.0	94.0	87.0	63.5	52	

73.0  
7.8  
6.5

H line Topog.

7-22-27

PAG  
E. S. Bailey

216+71

1895	1885	1880
74.8	32.0	2.0
1885		

82.3  
2.2  
79.5

215+<sup>35</sup>~~77~~

1905	1900	1895	1900	1895	1890	1885
123.0	145.0	106.0	60	209	10.3	27.2

214+00

Roof S

1915	1910	1905	1900	1895	1890
74.0	57.0	18.0	27.5	32.0	41.0

1907  
75.0

29  
24  
53

213+00

↑

Loose Boulder  
begin th. 21275

1910	1905	1900	1895	1890
34.0	11.0	7.5	7.5	30.8

211+67

1910	1905	1900	1895	1890	1885
84.5	72.0	32.4	7.0	24.0	48.0

209+50

s-Earth

1905	1910	1905	1900	1895	1890	E-S Road
168.0	48.0	43.3	7.0	42.0	76.0	78

208+00

1915	1910	1905	1900	1895
86.5	55.8	20.2	13.0	17.0

E-S Road

"H" line Topog.

9-22-27  
P.C.B.  
Elliott  
Brooks  
Bailey

224+50

87.6 1905 1900 1900 1900 1895  
5.7 14.2 26.0 46.0 50.0

223+75

14.0 1910 1905 1900 1895 1890  
2.0 4.7 17.3 37.3 42.5

223+00

1805 1900 1895 1890 85.8  
71.5 40.0 21.0 8.0

222+97.50  
1.72 8.72  
50.0000  
0.19  
9.5 1909.16  
9.0  
grade 18 97.66  
1.2  
1892.76  
1902.66  
222+97.02 19  
1894.66

221+83

925 1920 1915 1910 1905 1900 1895 ✓  
124.8 51.0 11.2 8.2 24.5 37.5 49.5

221+00

1910 1905 1900 90.9  
37.6 26.0 14.0

67  
26  
13.5

220+00

1905 1900 1895 92.3  
34.0 18.0 3.5

218+84 Rocky point

1920 1915 1910 1905 1900 1895  
63 37.0 6.5 9.2 27.7 50.2

Rocky Point

Earth Boulders

H line Topog.

9-22-27  
P.D.G.  
Elliott  
Bailey  
Brady

233+50

1900 1895 1890 1885 98.5  
30.0 22.0 14.0 2.5

232+50

1915 1910 1900 98.7 1895 1890  
38.0 24.0 4.0 16.6 41.0

1893.7

231+50

1910 1900 98.7 1895 1890 1885  
23.0 11.0 1.8 23 17.9

230+50

1900 1895 1890  
0.5 10.8 21.5

228+50

1925 1900 1895 1890  
7.0 20.0 30.8 39.0

226+50

1925 1900 1895 1890 1890 94.9  
57.4 48.0 39.7 28.5 9.8

225+22

22.0 1920 1915 1910 1905 1895  
12.0 24.7 37.8 50.0 69.1 78.8

"H" Lucie Topog

9-23-27

Elliott

Brooks

Bailey

292+50

1900 1895 1890 1885  
80.5 55.5 34.5 10.1

292+00 1905 1900 1895 1890 1885 1880 1875 1870 1865  
101.0 86.0 73.3 62.0 48.5 36.5 25.0 16.0 7.0

290+50

1905 1900 1895 1890 1885  
105.5 90.5 56.0 36.4 11.9

290+00

1915 1910 1905 1900 1895 1890 1885  
74.5 53.0 37.0 11.8 97.9 14.2 71.7 69.2

Earth

Small Gully

237+08.5 1865 1860 1855 1850 1845 1840 1835 1830 1825  
89.7 73.2 58.7 51.1 39.2 30.0 21.5 10.7 29.1

235+73

1905 1900 1895 1890 1885  
34.1 14.5 96.3 6.0 30.5 48.0

Earth & Boulders

234+41.5

1910 1905 1900 1895  
22.5 13.0 0.5 99.8

1895 1890 1885  
10 17.5 18.0

Rocky Point

H. Line Topog

9-23-27

Elliott

Brooks

Bailey

299+00	1905	1900	1895	99.2	1890	1885	1880
	37.1	23.5	9.2		95	23.8	40.0

247+75	Gigantic Boulder			90.7
	1905	1900	1895	
	5.0	4.5	4.0	

247+00	1910	1905	1900	96.9	1895	1890	1885
	19.8	12.8	7.7		20	12.5	25.0

245+50	1900	1895	1890	1885	1880	1875	1870	1865	61.2
	63.7	52.0	40.0	32.0	25.7	18.7	14.5	5.5	

Rock

244+50	1905	1900	1895	1890	57.1
	43.3	34.8	25.0	8.0	

243+50	1910	1905	1900	1895	1890	55.2
	80.0	66.0	27.0	17.5	9.5	

Earth

Earth

PK

PK

PK

Rock

243+00	1905	1900	1895	91.0
	95.5	67.0	28.0	

Earth

Earth

Earth

Rock

H<sup>o</sup> Line Topog

9-24-27  
P.O.P.  
Elliott  
Bailey

Solid Rock

256+50

1875 1870 1865 1860  
69.4 58.0 45.0 37.0

1865.4  
5.1  
1870.5 HI

Solid ledge of Rock

253+92

1835 1840 1840 1835  
165.0 105.2 7.6 62.0

HI  
1848.3

253+18

Soil Boulders 1885 1885 1880 1875 even slope  
57 117.5 191 25.0

252+66

1885 1890 1875 70.9 ✓  
172.3 27.7 14.2

252+10.65 Rock

1900 1895 1890 1885 88.6 1880 1875 1870 ✓  
19.0 13.0 5.0 2.3 5.7 14.0 26.5

Soil Boulders

250+96<sup>35</sup>

1910 1905 1900 1895 1890 88.1 1885 1880 1875 /  
45.5 36.0 23.0 12.0 7.0 5.5 14.0 21.5

9-23-27  
Elliott  
Brooks  
Bailey

250+00

03.0 1905 1905 1900 1895 1890 1885 ✓  
2.0 9.4 9.4 9.4 13.4 18.4

Rock

H line Tapan

9-24-27  
P.O.G.  
Elliott  
Bailey

265+81  
1885 1890 1875 1870 1865 1860 1855 57.2 ✓  
50 42.8 35.5 28.2 21.0 14.0 5.0

265+00  
1890 1885 1880 1875 1870 1865 1860 57.4 ✓  
69.0 41.2 33.5 45.5 34.5 25.0 16.8

272+77.22+1885.22

264+19 97  
1895 1890 1885 1880 77.3 1875 1870 1865 ✓  
47.3 36.0 24.3 9.5 7.5 24.0 44.0

77.3  
13.7  
91.0

262+00  
1900 1895 1890 1885 1880 78.6 1875 1870 ✓  
32.6 25.3 18.0 10.2 3.0 4.6 11.8

251+51

Cliff 20' high  
2.5 out

261+30

260+00  
1900 1895 1890 89.4 1885 1880 1875  
10.5 10.8 2.0 14.2 24.2 36.0

Solid Rock

257+00  
1890 1890 1885 1880 1875 1870 65.5  
13.5 89.5 69.0 49.0 21.6 12.5

Soil  
Soil & Boulder  
Soil



H<sup>o</sup> line Topog.

9-26-'27

ROG.  
E. Hunt  
Bulley

272+75

1890  
20.0

1885  
9.3

82.6

274+0

1895  
22.5

1890  
14.5

1885  
5.0

82.0

273+00

1895  
54.0

1890  
39.5

1885  
23.5

1880  
8.0

72.1

271+00

1895  
54.0

1890  
45.0

1885  
36.0

1880  
28.5

1875  
5.0

70.4 ✓

270+00

1895  
22.8

1890  
20.5

1885  
8.5

81.3 ✓

269+00

1885  
43.0

1880  
31.8

1875  
23.0

1870  
12.0

267+50

1885  
42.0

1880  
29.8

1875  
10.5

1870  
5.7

66.8 ✓

soil & boulders

37  
29  
27  
25

H line Topog.

9-26-27

POG  
Bailey  
Elliott

289+90

1900 1895 1890 1885  
65.5 57.5 53.0 8.0

286+69

1890 1885 1880 79  
68.0 43.8 17.0

284+50

1885 1880 1875 1870 1865 1860 54.5  
74.5 61.5 48.0 34.5 20.0 8.5

282+50

1885 1880 1875 1870 1865 60.9  
71.0 50.5 31.0 20.4 12.0

281+75

1885 1880 1875 1870 1865 60.5  
57.5 43.0 30.0 17.0 8.0

280+00

1885 1880 1875 1870 1865 1860 55.7  
52.5 41.0 30.6 29.2 19.0 9.0

277+50

2 1890 1885 1880 76.0  
24.8 17.0 8.0

27  
1.0  
6.0

30  
21.0  
6.0

H line Top 29

9-27-27  
P.O. 9  
Elliott  
Bailey

298+00

1890  
27.0

1885  
31.2

1880  
60

1875  
123

1870  
197

297+25

line is nearest here to base of cliff

1890  
135

1885  
135

1880  
135

75

296+50

1885  
42.8

1880  
35.6

1875  
30.0

1870  
18.5

1865  
8.0

57

14

75

Cliff



295+50

1885  
46.0

1880  
41.5

1875  
41.5

1870  
20.0

49

2

5

Rocky point

293+75

1890  
45

1885  
74

1880  
153

92

292+50

1890  
25.0

1885  
10.0

1880  
2.5

72

2

25

290+75

1890  
31.2

1885  
22.2

1880  
10.0

1875  
1.0

74

5

Boulders  
Cliffs  
Boulders

H' line Topog.

9-27-'27  
P.O.G.  
Elliott  
Bailey

309+00

1890 1885 1880  
47.3 3.0 4.0

307+75

1896 1885 1880 1870 1875 1870  
22.8 11.8 7.0 27.3 5.4

306+50

1885 1880 1875  
43.0 3.0 3.0

73.7  
11.3  
28.0

304+50

1910 1890 1895  
1835 150 80.0 12.2  
15  
1309

1893.3

303+50

1890 1885 1880  
102.0 92.5 83.0

301+50

1900 1895 1890 1885 1880  
72.0 8.5 15.0 27.5 42.0

299+50

1895 1890 1885  
48.0 29.5 3.0

Soil Profile

H line Topog.

10-4-27

9-26-27

P.O.G  
Elliott  
Bailey

321+50

1890 1885 1880 1875 71.5  
50.5 33.0 18.5 2.5

1870 1865 -1860 ✓  
18.7 32.5 49.5

85  
165  
124 32  
19  
13

757  
250  
23.6

320+91 E.L.

1890 1885 1880 1875  
48.8 37.7 26.5 13.0 71.1

1870 1865 1860 ✓  
1.8 13.0 30.0

89.8  
183.0

PI 18736

315+50

81.8

1890 1885 1880 1875 1870  
71.0 50 75.0 70.5 104.0

761  
139  
90.2

314+50

11.4

Rocky point

1815 1890 1885 1880 1870 1865  
29.4 38.0 50.5 68.0 92.0 130

114  
174  
29.0

313+50 Fairb

1835 1840 1845 75.7  
64.0 42.9 17.0

1844 1840 1835  
5.0 67.0 108.0

312+50

Rocky Point

1865 1870 75.0  
59.0 2.4

1870 1865  
4.2 63.7

310+00

1890 1885 1880 76.1 ✓  
42.9 25.0 8.0

331+00

1890	1885	1880	1875	1870	1865
65	272	60	85	22.6	35.7

1885	1870
2.7	11.2

329+03 Rocky point

1895	1890	1885	1880	1875	1870	1865
65.0	93.3	8.2	11.0	16.0	20.6	33.5

328+50 Earth

1885	1880	1875	1870
21.0	4.2	17.5	40.3

322+97.6 = 1875.6

327+00

1875	1870	1865	1860	1855
54.0	4.0	25.2	8.0	59.0

325+75

1890	1885	1880	1875	1870	1865
22.2	10.0	1.0	11.7	21.0	33.5

1885	1870
91.2	11.2

324+25

1890	1885	1880	1875	1870	1865
35.0	12.0	1.2	7.4	30.0	28.2

Soil &amp; Boulder

322+50

1880	1875	1870	1865	1860
44.0	32.6	23.0	9.5	60.1

H line Tapes

10-4-27  
P.O.G.  
Elliot  
Bailey

343+00 on enormous Rock slide

34A	1925 4.5	1920 7.0	1915 14.3	1890 60.5	1880 80	1875 9.12	1870 10.1	39.5 2.1 6.05
-----	-------------	-------------	--------------	--------------	------------	--------------	--------------	---------------------

340+94 on natural ground

1885 18.5	1880 7.7	1875 1.8	74.2	1870 2.6	1865 12.8	1860 21.0	✓	63.2 2.1 76.0
--------------	-------------	-------------	------	-------------	--------------	--------------	---	---------------------

339+50

1875 29.0	1870 12.5	1865 2.0	23.3	28.2 2.1 7.05
--------------	--------------	-------------	------	---------------------

338+20

1880 25.0	1875 18.0	1870 8.0	1865 2.0	24.5	1860 6.4	1855 20.0	1850 29.8	✓
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337+00

1875 68	1870 55.4	1865 19.0	1860 7.8	50.1	✓	180 102 78
------------	--------------	--------------	-------------	------	---	------------------

335+50

1880 136.5	1875 108	1870 75.5	✓
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332+00

1885 11.1	20.7	1880 0.8	1875 15.3	1870 78.0	1865 7.0
--------------	------	-------------	--------------	--------------	-------------

↙ Huge Boulders

Earth x Boulders

H line Topog.

12-4-27  
P. G. G.  
E. H. H.  
Bailey

354+56

1870 1865 1860 1855  
232 222.5 211 200.0

41.7  
14.3  
186.0

353+00 m big slide

1875 1870 1860 1850  
68 54.0 34.0 16.0

46.8  
14.2  
61.0

352+00 Natural ground

1875 1870 1865  
24.8 16.0 C.R.

35.0  
6.5

59.3  
14  
73.3

14.3

351+00 " "

1875 1870 1865 1860  
51.0 39.0 24.7 3.5

51.0

349+50 on natural ground

1875 1870 1865 1860 1855  
47.0 33.0 21.0 12.5 3.0

51.9

347+50 inaccessibly

1875 = 35 ft left approx.

345+73

46.5

190  
53

1860  
24.0

1880  
46.0

1815  
57.

1870  
28.0



H line Tapes

10-5-27  
P.O.G.  
Elliot  
Bailey

363+35

1875 1870 1865 1860 1855 1850  
38.7 20.7 4.0 26.0 43.0 57.6

20  
541  
10.9

361+06.7

1885 1880 1875 1870 1865 1860  
35 12.6 7.5 6.6 22.6 42.9

360+00

1875 1870 1865 1860  
64.5 43.4 19.0 41.6

75.0  
41.6  
13.6  
20.5  
63.3 4.2

358+50

Gullery  
100  
↑

1875 1870 1865 1860  
27.0 25.2 22.6 19.1 43.1

on tang. produced from PI

Gullery  
2.75 1855 1860 1865 1870 1875  
336. 327 359 371 383

→ tang. produced

x-section taken on point 200 East  
on tang. produced

1875 1870 1860 1850 1840  
76.7 68 43 16.8 42.0

41.7  
14.1  
55.8

X-sect. PI to PI  
355 + 74.7 PI

1875 1870 1865 1860 1855 1850  
120.5 102.0 90.8 48.5 34.0 18.5

H<sup>1</sup> line Topog.

10-5-27  
PDG  
Elliot  
Bailey

373+50

1875 1870 69.5 1865 1860 1855 ✓  
148 12 9.2 14.0 23.0

728  
14.2  
670

373+896

1875 1870 1865 1860 1855 59.8 ✓  
478 345 287 156 1.0

373+00

1875 1870 1865 60.0 1855 1850  
40.5 30 12 14 26.0

370+50

1870 1875 1870 67.8 1865 1860 1855  
27.5 20.5 9.0 7.6 23.5 37.5

368+33

1870 1875 1870 68.7 1865 1860 1855 ✓  
63 393 4.0 17.0 8.0 57.5

734  
7.1  
687

366+50

1870 1875 70.8 1870 1865 1860 ✓  
326 16.1 4.0 22.8 47.0

365+50

1875 1870 1865 64.0 1860 1855 1850  
326 227 3.5 11.5 25.5 39.0

Earth & Boulder

H line Topog.

10-5-27  
P.O.G.  
Elliott  
Bailey

387+75

1885	1890	1875	70.6	1870	1865	1860
57.0	36.5	78.0		31.5	11.0	20.

386+00

1870	185	1860	
51.5	36.5	20.5	

68.6

384+90

1875	1870	64.7	1860	1855	1840
52.0	24.6		36.5	78.5	96.0

383+50

1875	1860	1875	72.0	1870	1855	1860
95	50	18.7		11.8	45	69.3

382+00

1870	1865	1800	1855	61.9
41.0	30.0	16.8	6.2	

65.0  
57.2  
3.1

381+00

1875	1870	1865	1860	1855	1850	1845	44.4
71.0	60.5	49.0	39.0	25.5	16.5	2.0	

379+00

Rocky point

1860	1865	1870	1875	1880	1885	87.0
55	42	42	41.5	38.5	20	

H " Lime Topog

10-5-27  
P.O.G.  
Elliot  
Bailey

397+77

1880 1875 71.0 1870 1865 1860  
370 253 8.8 58.0 103.4

395+50

1885 1880 1875 74.4 1870 1865 1860  
61.0 37.9 37.2 22.0 47.0 59.5

394+50

1880 1875 1870 68.9 1865 1860 1855  
79.5 43.0 5 14.2 32.0 47.0

373 + 1866

81.1  
12.2  
68.9  
2.3  
71.2

391+75

1875 1870 1865 66.7 1860 1855 1850  
33.0 17.2 4.5 8.5 22.0 44.5

13.8  
68.7  
76.5

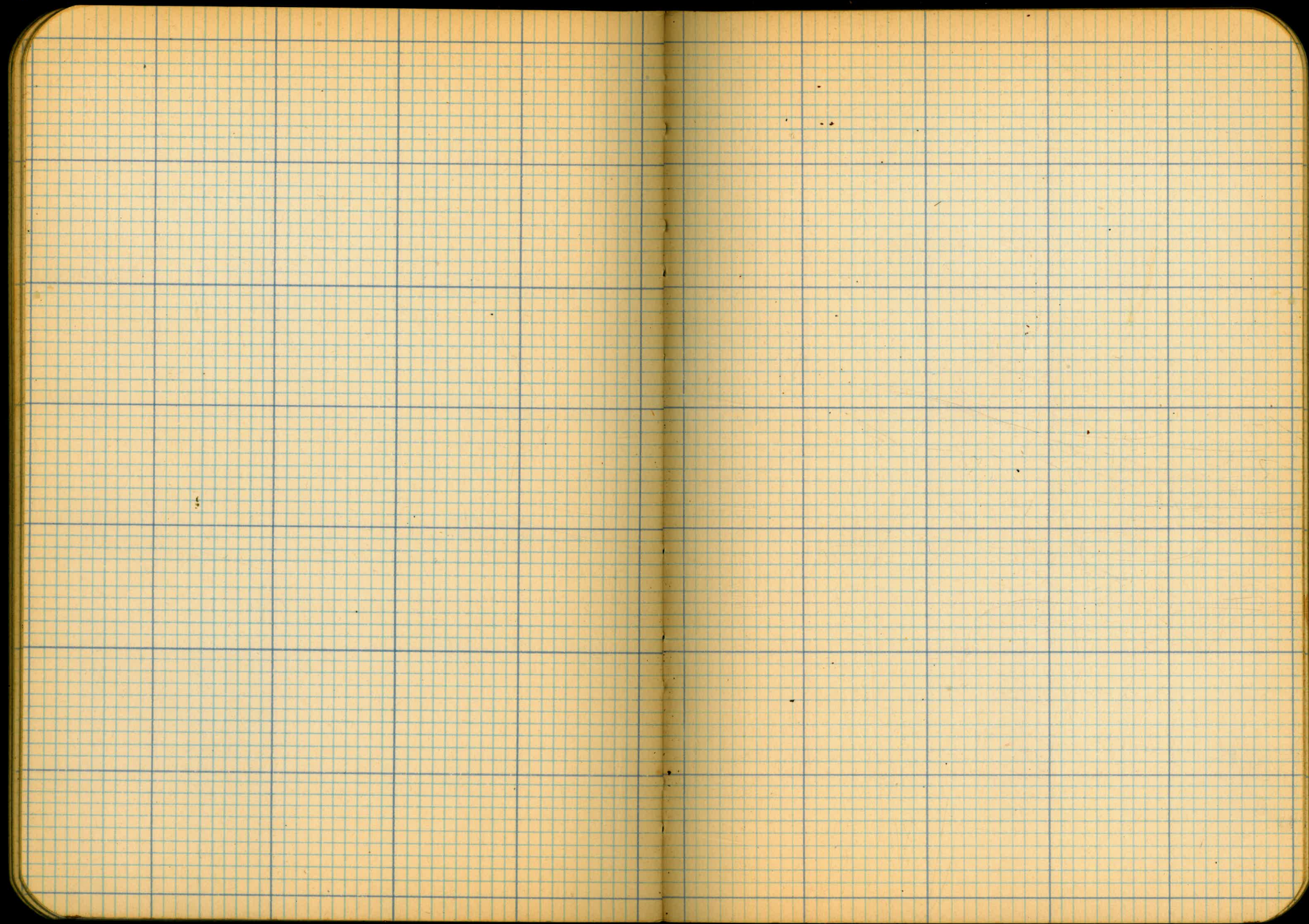
370+89

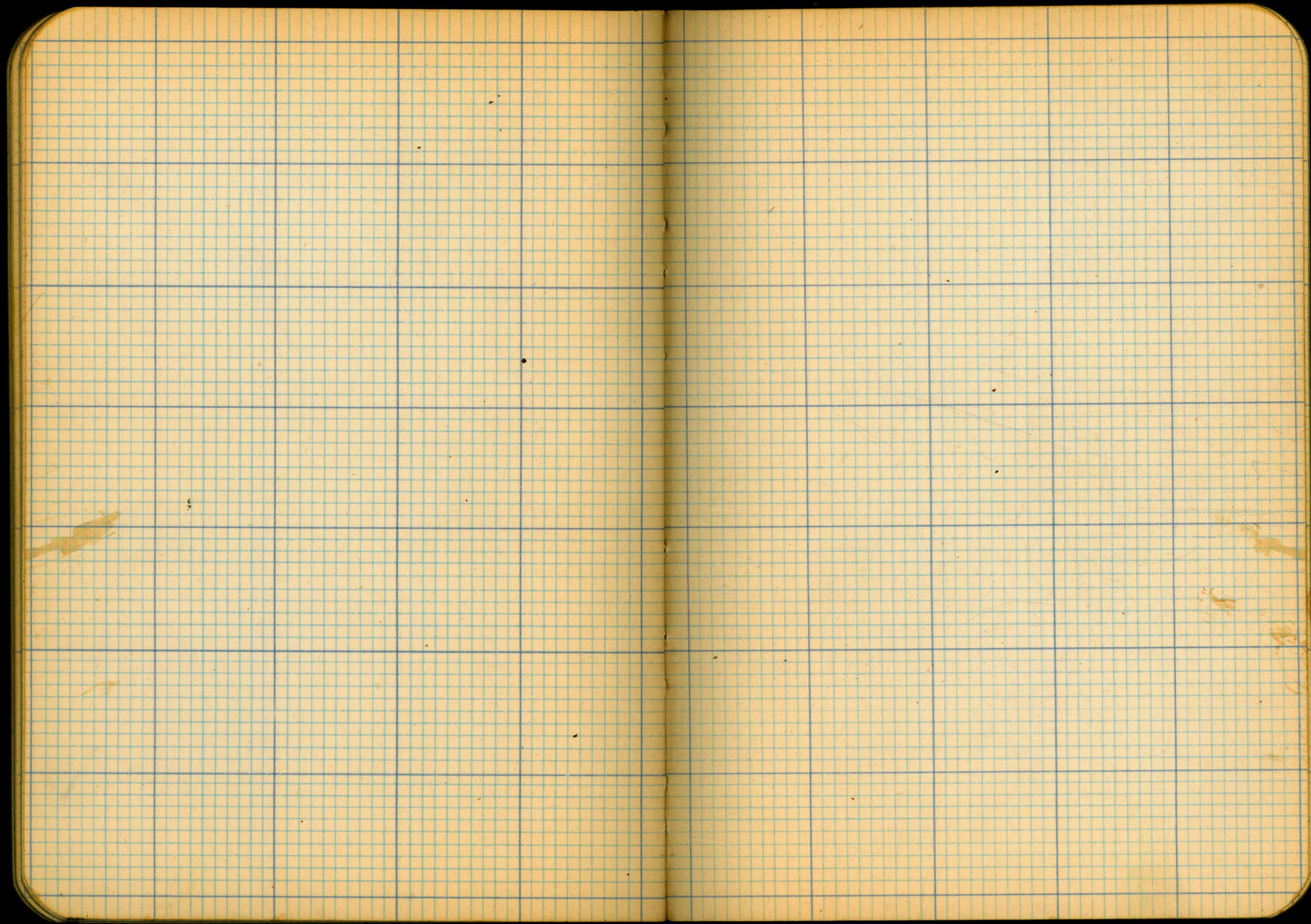
1875 1870 1865  
111.5 96.5 71

388+50

1885 1880 1875 1870  
240 210 118 98

120 Lime should  
be subtracted





Cross Sections H. Lize  
(Lower Line)

Party - Leach  
Good body

Oct. 28, 1927.

H Line

± Elev.

3+50 ↓ 1585 1590 1595 1600 1605 1610 1615  
 41 39 34 26 14 6

1  
 +.75 Earth and Rocks. 1585 1590 1595 1600 1602.3 1605 1610 1615  
 38 24 14 4 5 14 20

2+00 1585 1590 1595 1600 1604.0 1605 1610 1615  
 60 49 38 26 5 15 22

1+50 ↘ 1585 1590 1595 1599.8 1605 1610 1615  
 47 30 15 11 24 41

1+00 1595.6

Earth-  
 +.75 1600 1596.7 1600 1605 1610  
 72 21 42 57

0+00 ↘ 1605 1600 1598.3 1594 1601  
 79 44 60 100



H Line

E E.

754  
Earth and  
Rocks.

1585	1590	1595	1600	1605.2
79	66	46	24	

1610	1615
26	34

8+00

1585	1590	1595	1600	1605	1607.6
69	53	40	23	9	

1610	1615
90	24

7+00

1585	1590	1595	1600	1605	1610	1611.6
84	54	41	27	15	4	

1615
7

750  
Earth and  
Large Boulders.

1585	1590	1595	1600	1605	1610	1615	1616.6
54	50	41	33	27	16	5	

6+00

1585	1590	1595	1600	1605	1610.8
57	50	33	18	8 <sup>e</sup>	

1615
7

766

1585	1590	1595	1600
27	17	11	4

1605	1610	1615
3	14	20

4+00

1585	1590	1595	1600	1605	1608.2
43	35	28	22	12	

1610	1615
5	13

H' Line

± Elev.

1608.0

±50	Earth and Boulders	1585 14	1590 4	1592.1	1595 7	1600 11	1605 19	1610 27	1615 37
15+00	↑	1585 25	1590 12	1595.2	1600 9	1605 19	1610 29	1615 38	
13+75		1585 50	1590 36	1595 21	1600 9	1603	1605 4	1610 21	1615 36
12+00	Earth	1585 29	1590 21	1595 9	1599.4	1600 1	1605 12	1610 23	1615 33
11+00	✕	1585 34	1590 24	1595 14	1600 6	1602.9	1605 5	1610 15	1615 28
10+25	Earth and Rocks	1585 26	1590 22	1595 10	1598.1	1600 6	1605 20	1610 33	1615 39
9+50		1585 43	1590 25	1595 14	1600.2	1605 12	1610 23	1615 28	

H Line

± Elev.

22+50

Earth and Boulders.

1585  
13

1590.8

1595 1600 1605 1610 1615  
13 24 39 50 62

21+50

1585 1590 1592.2  
27 71595 1600 1605 1610 1615  
6 17 28 41 51

20+00

1585 1590 1595 1600 1605 1610 1612.2  
39 33 25 16 9 21615  
5

19+00

1585 1590 1595 1600 1605 1609.4  
68 57 48 38 141615  
7

18+00

1585 1590 1595 1600 1605 1610 1613.8  
73 58 50 26 15 71615  
816+90<sup>23</sup>

B.C.

1585  
121590  
A

1591.0

1595  
111600  
291605  
481610  
631615  
77

16+50

1580.5

1585  
111590  
211595  
331600  
421605  
501610  
601615  
68

H Line

Left

Cool and Cloudy -  
RightParty Leach.  
John Goodbody

31+50

1590 1595 1600 1603.9  
35 190 901605 1610 1615 1620  
2° 18 32 39

30+50

Earth

159 1595 1600 1605 1606.9  
50 34 22 101610 1615 1620  
12 29 43

28+50

↑

1590 1595 1600.7  
24 111600 1605 1610 1615 1620  
2 16 29 40 52

26+25

1590 1595 1600  
33 21 41605 1610 1615 1620  
8 29 37 69

25+50

1590 1595 1598.0  
15 51600 1605 1610 1615 1620  
8° 21 39 72 103

+37

Earth and Boulders

1585 1590 1595 1600 1605 1609  
94 80 65 48 201610 1615  
3° 33

Oct. 29, 1927

24+00

1585 1590 1595 1600 1601.6  
91 77 57 361605 1610 1615  
18 41 51

H' Line

Nor.

Party

Leach  
Bate

Good body -

38+00

1590 1595 1600 1604.2  
43 29 131605 1610 1615 1620  
2 14 29 44

37+00

1590 1595 1600 1605 1607.3  
45 36 28 81610 1615 1620  
8 20 30

Nov. 4, 1927

36+50

1590 1595 1599.8  
28 151605 1610 1615 1620  
20 34 52 63

35+75

1590 1595 1600 1605  
37 25 120 001610 1615 1620  
120 25 41

34+75

1590 1595 1600 1602.8  
38 24 111605 1610 1615 1620  
6 26 44 6133+04<sup>15</sup>1590 1595 1600 1605 1608.7  
43 34 24 131610 1615 1620  
5 39 84

Solid Rock out cropping

32+50

1590 1595 1597.2  
39 91600 1605 1610 1615 1620  
90 31 47 62 72

Earth and Rock.

Earth and Rock.

44+25	1590 36	1595 16	1599.1	1600 4	1605 22	1610 37	1615 52	1620 64
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43+50	1590 57	1595 28	1600 10	1604.0	1605 20	1610 21	1615 38	1620 56
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41+71 <sup>60</sup>	1590 42	1595 21	1600 6	1602.6	1605 5	1610 17	1615 29	1620 39
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41+25	1590 25	1595 12	1598.5	1600 3	1605 16	1610 23	1615 34	1620 42
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40+50	1590 29	1595 22	1600 14	1605 62	1607.6	1610 4	1615 12	1620 19
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39+50	1590 45	1595 31	1600 17	1605.7	1610 15	1615 26	1620 38
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38+90	Small wash.	1590 20	1595.7	1600 11	1605 26	1610 37	1615 48	1620 57
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Earth and Rock.

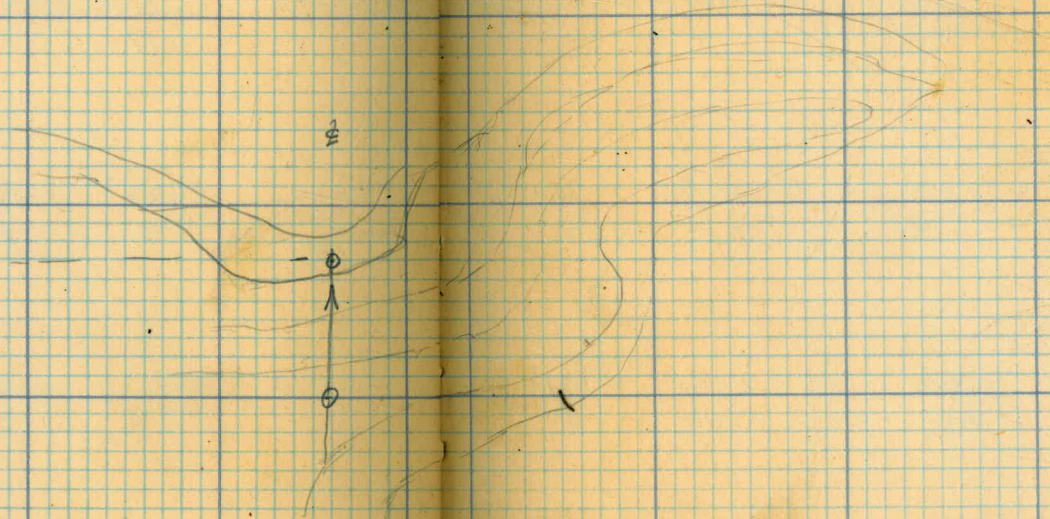
47+50	1590	1595	1600	1605	1610	1612.1	1615	1620
	162	115	70	37	12		13	27

46+50	1590	1595	1600	1599.3	1595	1590
	140	128	38		28	38

Earth and Rock.

46+50 →

45+91 ↗



45+90 <sup>89</sup>	15880	1590	1595	1600	1605	1610	1615	1620
		19	35	50 <sup>2</sup>	66	84	105	119

Solid Rock.

45+04 <sup>46</sup>	1590	1595	1600	1603.2	1605	1610	1615	1620
	41	27	8		7 <sup>2</sup>	17	30	35

57+00

1595 1595.8  
4

1600 1605 1610 1615 1620 1625  
11 21 31 40 49 57

56+40

1595 1600 1605  
22 18 8

1610 1615 1620 1625  
8 23 43 47

55+00

1595 1601.5  
9

1605 1610 1615 1620 1625  
14 21 26 34 42

53+50

1595 1600 1605 1610 1611.6  
40 28 16 5

1615 1620 1625  
9 21 33

52+50

1595 1600 1605 1610 1614.1  
39 31 22 11

1615 1620 1625  
12 11 22

51+50

1595 1600 1605 1609.2  
37 25 11

1610 1615 1620 1625  
12 10 19 24

48+50

1590 1595 1600 1605 1610 1615 1614.8  
61 41 31 18 13 4

1620  
15

Earth and Rock



£

1595  
74

63+50    1600    1605    1610    1613.0  
55        31        8

1615    1620    1625  
5        20        29

62+50    1595 1600 1605 1610 1615 1620 1622.2  
65    51    37    26    15    8

1625  
6

Rock

61+00    1590.6

1595 1600 1605 1610 1615 1620 1625  
10.5 21.5 34.5 50.5 56.5 64.5 74.5

1595  
44

59+85    1600    1605    1610    1611.1  
31        19        7

1615    1620    1625  
13.5    27        38.5

59+34    1595    1600    1606.4  
38        20

1605    1610    1615    1620    1625  
6        22        30        38        51

Earth & Rock

59+00    1595 1600 1605 1610 1611.5  
44.5    31    16.5    4.5

1615    1620    1625  
7.5    16.5    20.5

58+00    1595 1600 1605 1607.2  
27    16    4

1610    1615    1620    1625  
5        16        27        39

68+0	1595 60	1600 46	1605 30	1610 15	1613.5	1615 4	1620 20	1625 34
67+38	1595 80	1600 61	1605 45	1610 40	1615 20	1618.9	1620 5	1625 24
66+50	1595 55	1600 37	1605 23	1610 1	1610.3	1615 17	1620 33	1625 49
66+0	1595 95	1600 70	1605 42	1610 20	1615 1	1615.3 1620	1620 21	1625 41
65+50	1595 88	1600 55	1605 40	1610 15	1615	1618.0	1620 7	1625 26
64+75	1595 51	1600 44	1605 34	1610 20	1615 1	1615.4	1620 13	1625 33
64+0	1600 66	1600 50						
64+0	1605 33	1610 19	1615 5		1616.0	1620 9.5	1625 26.5	

Earth + Large Rock = Solid Rock

Solid + Decomposed  
granite

Earth + Large Rocks

H' line

¢

Warm and Cloudy

Party  
Leach  
Bate  
Goodbody-

Nov. 5, 1927.

72+50	1595	1600	1605	1610	1615	1620	1625
↑ Solid Rock	46	33	23	12	5	8	20
71+00							
71+50	1595	1600	1605	1610	1610.6	1615	1620
	56	39	23	3		19	23
							1625
							33
70+52 <sup>53</sup>	1595	1600	1605	1610	1615	1620	1625
	66	47	30	13	72	19	33
70+12	1595	1600	1605	1610	1615	1620	1625
Nov. 5, 1927	80.5	53.5	30.5	4.5	10	23	36
69+50	1595	1600	1605	1610	1615	1620	1625
↑ Earth + Rocks	82	66	51	31	24	4	22
69+0	1595	1600	1605	1610	1615	1620	1625
	74	58	42	22	4	10	25
68+50	1595	1600	1605	1610	1613.1	1615	1620
	76.5	45.5	28.5	12.5		8	26
							1625
							39

Earth + Rocks

E

78+19	1595	1600	1605	1610	1615	1920	1625
	54	41	31	18	11 <sup>2</sup>	0.0	12

77+50	1595	1600	1605	1610	1613.7	1615	1620	1625
	50	42	27	13		4 <sup>2</sup>	16	29

77+00	1595	1600	1605	1610	1615	1615.6	1620	1625
	49	36	25	13	3		17	30

76+00	1595	1600	1605	1610	1613.2	1615	1620	1625
	58	35	23	10		5 <sup>2</sup>	14	25

75+00	1595	1600	1605	1610	1615	1616.9	1620	1625
	44.5	36.5	29.5	18.0	5.5		12	27

74+12 in (P.I.)	1595	1600	1605	1610		1615	1620	1625
	37	26	20	5		12	22	49

73+50	1595	1600	1605	1610	1612.7	1615	1620	1625
	45	38	25	10		5	20	32

Earth and Rock.

Solid Rock.

85+196	1595	1600	1605	1608.9	1610	1615	1620	1625
	44	30	11		3 <sup>2</sup>	20	36	49

85+00

↑

84+50	1595	1600	1605	1610	1615	1620	1620.7	1625
	55	45	35	16 <sup>2</sup>	11 <sup>2</sup>	12		8.5

83+75

↑

83+64	1595	1600	1605	1608.2	1610	1615	1620	1625
	47	35	16		2 <sup>2</sup>	16	30	41

83+00	1595	1600	1605	1610	1614.8	1620	1625	
	70	63	50	28		13	33	

82+40	1595	1600	1605	1610	1610.4	1615	1620	1625
	71	57	38	2 <sup>2</sup>		15	29	49

81+77	1595	1600	1605	1610	1615	1620	1625	
	102	89	78	59	41	20	3.5	

80+00	1595	1600	1605	1610	1615	1620	1625	
	72	59	47	33	19	7 <sup>2</sup>	8	

Solid Rock.

Earth and Rock.

Nov 7, 1927.

Party - Leach.  
Bate  
Good body.

89+00	1595 96	1600 63	1605 40	1610 18	1613.2	1615 6°	1620 26	1625 40
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88+50

→ 29.5 ←

88+25

→ 10.5 ← Outcropping of Rock 20' High.

88+00

Earth and Rock.

1595 42	1600 23	1604.1	1605 2	1610 13	1615 26	1620 37	1625 44
------------	------------	--------	-----------	------------	------------	------------	------------

87+50

1595 51	1600 29	1605 12	1610 3	1613.7	1615 12	1620 13	1625 21	30	40
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Solid Rock Outcropping ↗

86+75.01

1595 61	1600 33	1605 17	1610 4	1611.4	1615 11	1620 24	1625 40
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Nov 7, 1927

86+25 v

1595 56	1600 33	1605 12	1608	1610 6°	1615 25	1620 37	1625 53
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♀

95+04 <sup>64</sup> B.C.	1600 143	1605 97	1610 42	1614.6	1615 12	1620 16 <sup>2</sup>	1625 40	1630 67
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94+00	1600 88	1605 40	1610 7	1610.8	1615 22	1620 118	1625 147	1630 174
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93+50	Earth			1597.8	1600 6	1605 30	1610 58	1615 75	1620 96	1625 118	1630 136
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93+00	1600 35	1605 22	1610 8	1611.3	1615 31	1620 55	1625 80	1630 100
-------	------------	------------	-----------	--------	------------	------------	------------	-------------

91+88 <sup>71</sup> P.I.	1600 97	1605 66	1610 44	1615 112	1620 22	1625 44	1630 61
--------------------------	------------	------------	------------	-------------	------------	------------	------------

91+00	1595 171	1600 122	1605 56	1610 29	1615 7	1616.3	1620 145	1625 33
-------	-------------	-------------	------------	------------	-----------	--------	-------------	------------

90+00	1595 45	1600 225	1605 75	1611.7	1615 75	1620 29	1625 345
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Earth

Earth and Rock

+50 ↑

99+00

15939

1595

1600

1605

1610

1615

1620

1625

1630

8

52

97

120

171

185

194

203

98+00

1600

1605

1610

1614<sup>2</sup>

1615

1620

1625

1630

83

55

33

3

34

55

77

97+50

1600

1605

1610

1615

1620

1620.9

1625

1630

107

81

56

25

25

25

54

96+00

1600

1605

1610

1615

1620

1620.2

1625

1630

126

98

65

38

12

28

63

Plowed Field



H Line 122

23  
22

108+50	1600 76	1605 47	1610 21	1613.2	1615 9	1620 34	1625 54	1630 72
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107+75	1600 181	1605 148	1610 107	1615 69	1620 32	1623.5	1625 9	1630 50
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Earth

106+75	1600 156	1605 116	1610 96	1615 55	1620 3	1620.7	1625 39	1630 80
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105+25	1600 115	1605 70	1610 32	1614.3	1615 5	1620 39	1625 56	1630 84
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103+50	1600 94	1605 61	1610 21	1612.0	1615 24°	1620 61°	1625 103	1630 128
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102+00	1600 84	1605 71	1610 55	1615 37	1620 32	1620.6	1625 19	1630 64
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Earth

100+50	1600 144	1605 105	1610 72	1614.9	1615 12	1620 47	1625 80	1630 109
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114+50 1600 1605 1610 1615 1619.0 1620 1625 1630  
162 109 67 31 9 36 59  
28

113+50 1600 1605 1610 1615 1620 1625 1626.9 1630  
156 119 89 61 36 14 18

113+00 1600 1605 1610 1615 1620 1625 1627.8 1630  
206 147 120 90 56 21 18

112+60 ~~Abandoned Rd.~~ 1619.7

112+40 1600 1605 1610.5 1615 1620 1625 1630  
88 41 31 63 101 140

112+00 1600 1605 1610 1615 1616.8 1620 1625 1630  
12 51 41 72 13 50 80

110+50 1600 1605 1610 1615 1616.1 1620 1625 1630  
120 82 51 12 37 65 99

Earth

122+25

1610  
29

1615  
12

1615.4

1620  
31

1625  
66

1630  
103

1635  
146

1640  
188

121+50

1610  
65

1615  
25

1618.1

1620  
11

1625  
55

1630  
82

1635  
128

1640  
168

120+80

1610.0

120+00

1600  
180

1605  
122

1610  
72

1615  
32

1618.9

1620  
8

1625  
49

1630  
103

118+25

1600  
135

1605  
98

1610  
57

1615  
24

1617.6

1620  
20

1625  
50

1630  
91

117+50

1600  
170

1605  
116

1610  
69

1615  
36

1619.9

1625  
30

1630  
52

116+50

1600  
99

1605  
58

1612.7

1615  
16

1620  
27

1625  
43

1630  
58

116+16

1600  
127

1605  
103

1610  
82

1615  
61

1620  
12

1621.3

1625  
45

1630  
79

12425 1610 1615 1620 1625  
159 127 86 43

1630 1635 1640  
27 60 90

123+00

1610 1

1615 1620 1625 1630 1635 1640  
41 74 99 124 153 175

2.6

4.5

1.2

6.1

1612.7

1.8

1614.5

3.5

1604.2

6.3

1610.5

5.5

35

17

22

3

11.25

10.27

2.1

0.

2.4