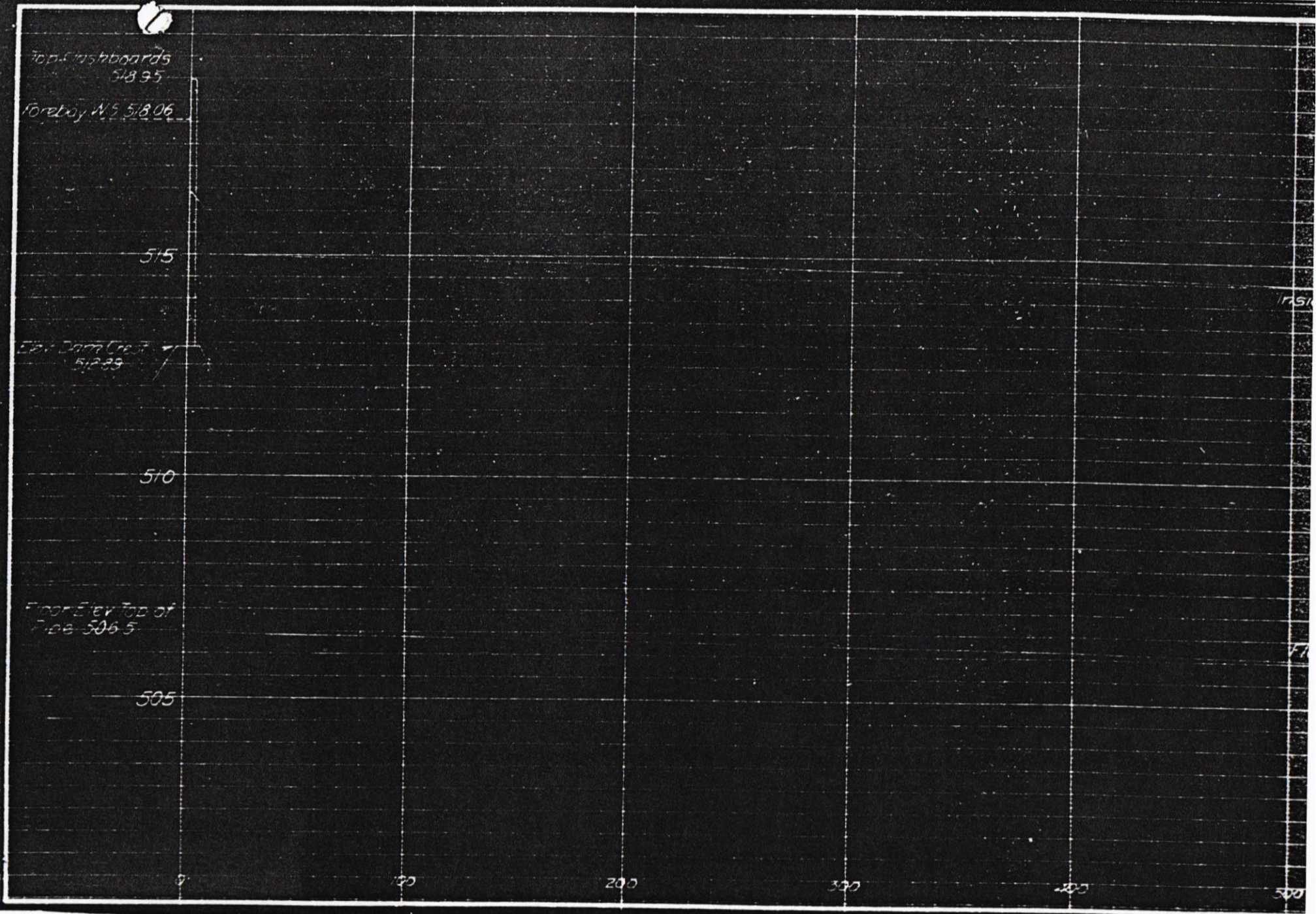
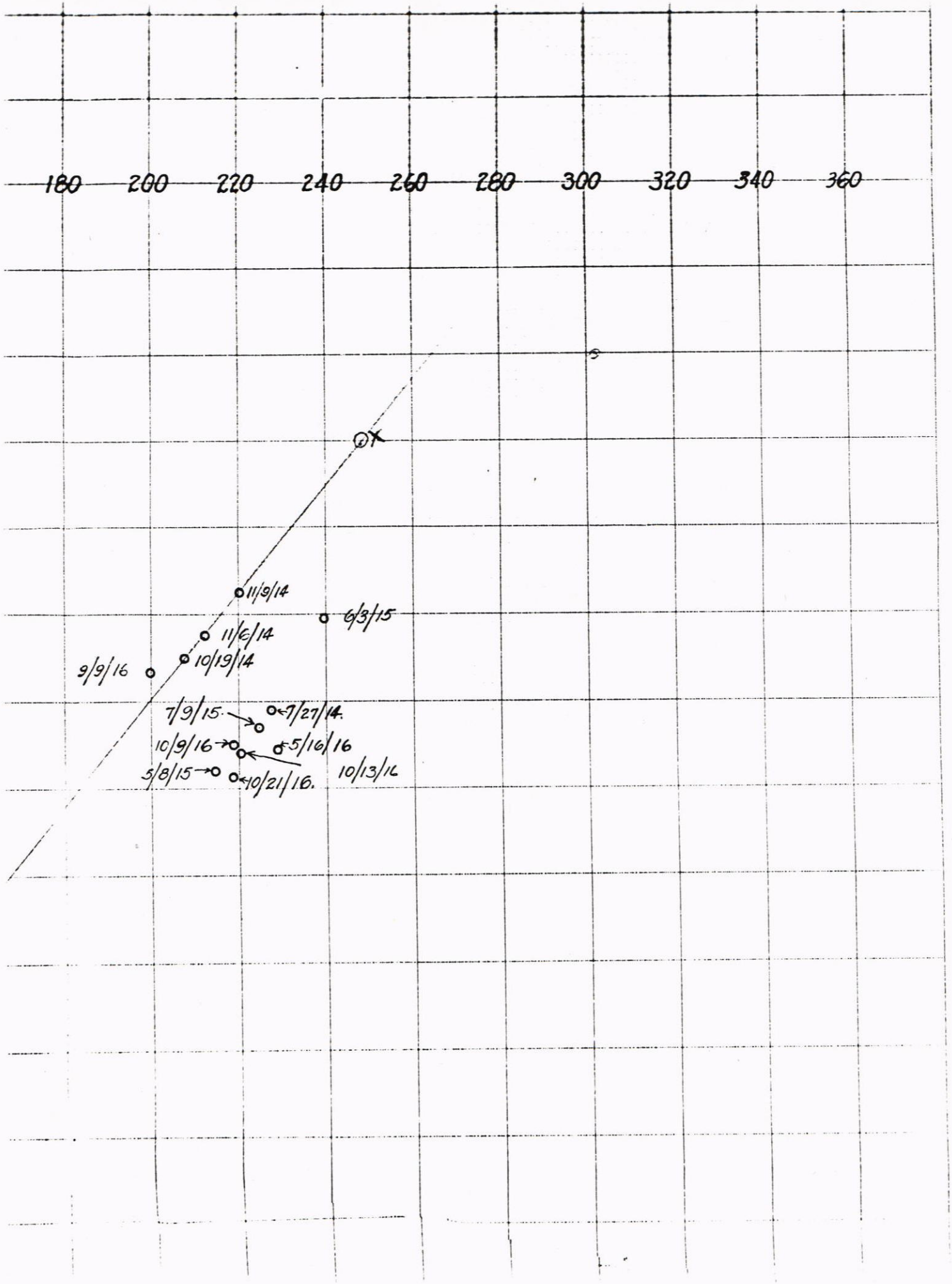

Top of Flashboards
518.95
Forebay W.S. 518.06
515
Elev. Dam Crest
512.89
510
Floor Elev. Top of
Pipe 506.5
505
0
100
200
300
400
500

Inside Top 8½ Corrugate Pipe
Floor 8½ Corrugate Pipe
Gate House
Elev from 10+00 on top of sill
under Flume Floor
Thickness of Floor 1 3/8"
10+70 top of sill 907.22

IDENTIFIED
HEADWORKS
PROFILE & ELEVATIONS OF DAM & CONCRETE PIPE
OF 1912
UTAH POWER & LIGHT COMPANY

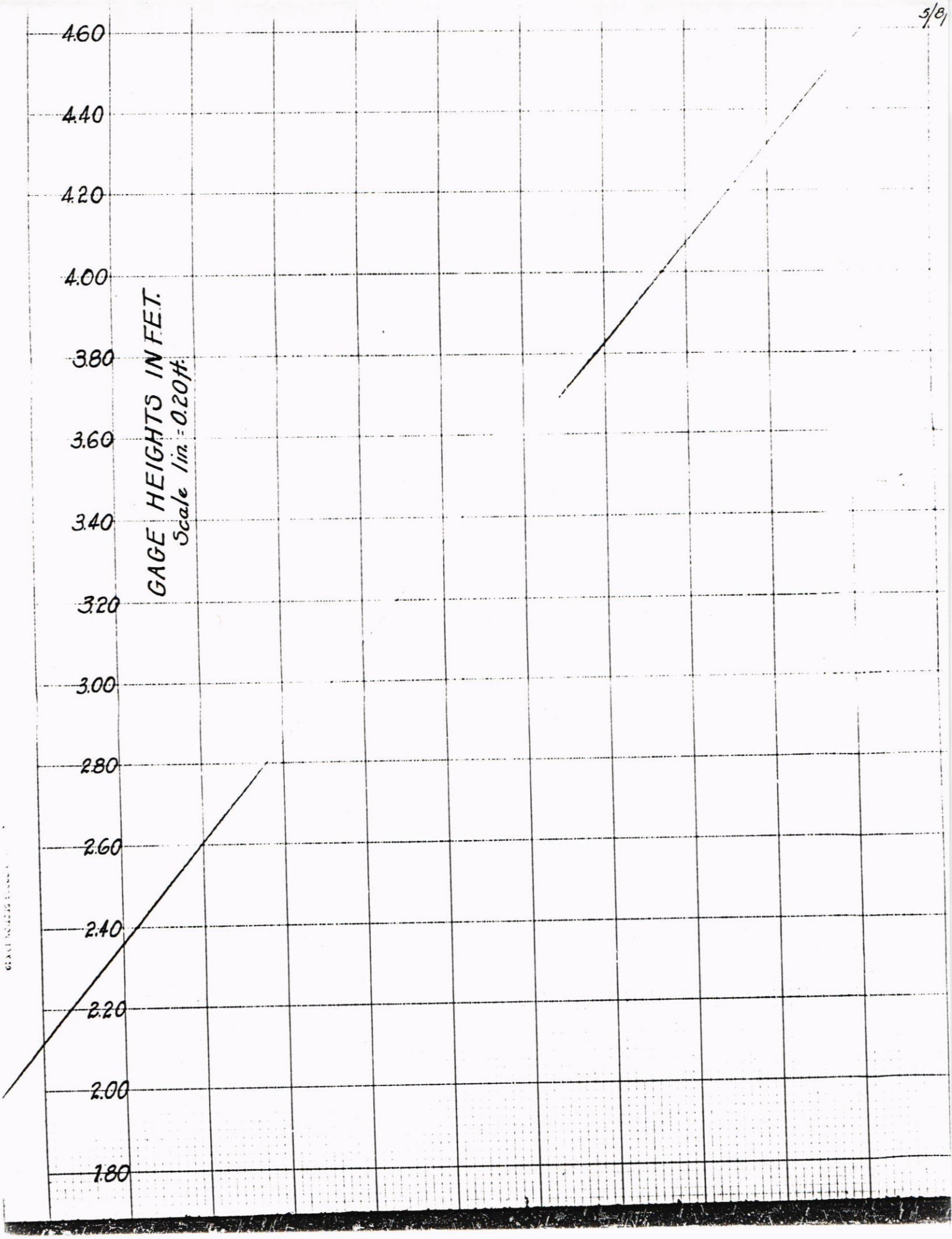
9

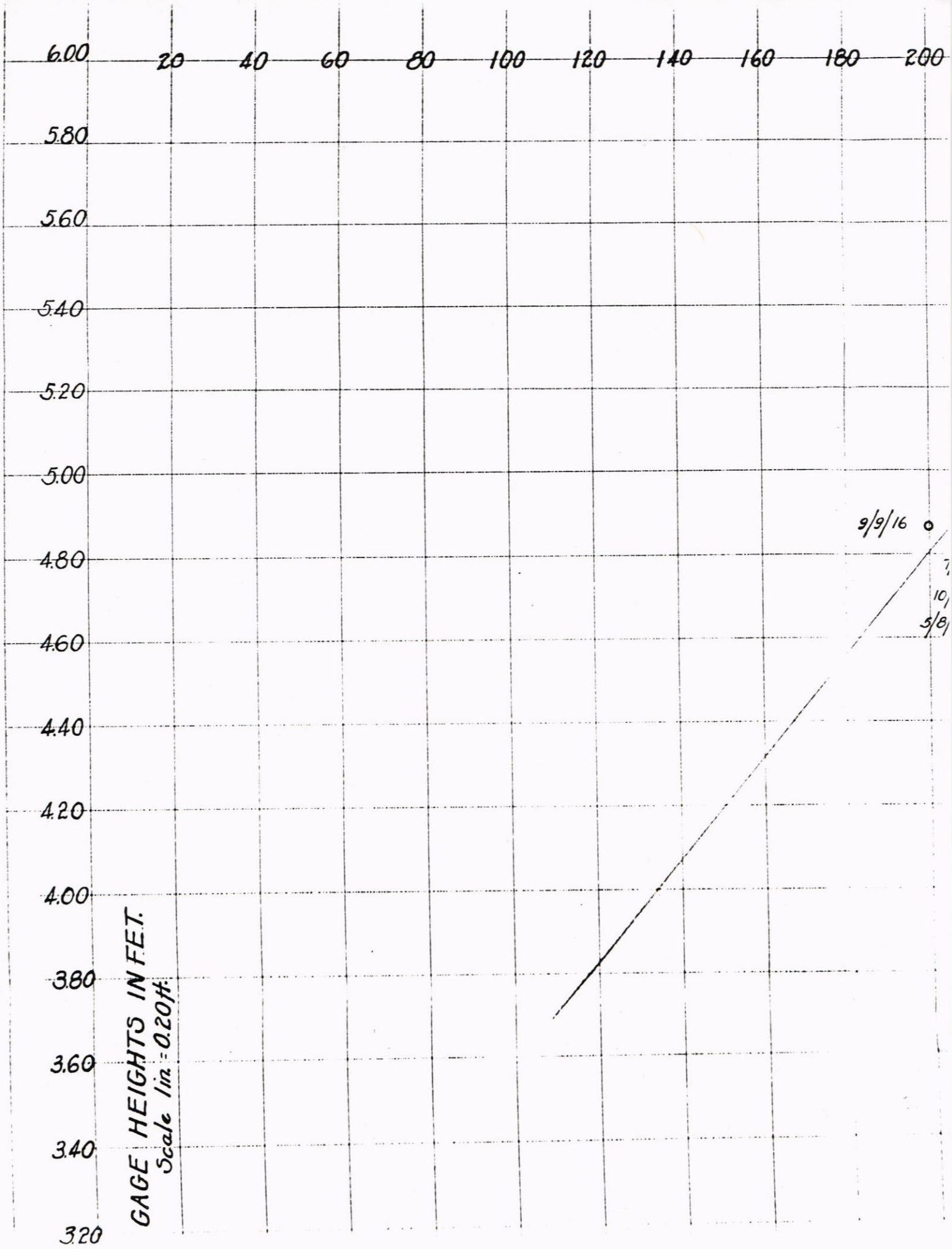
UB-10229

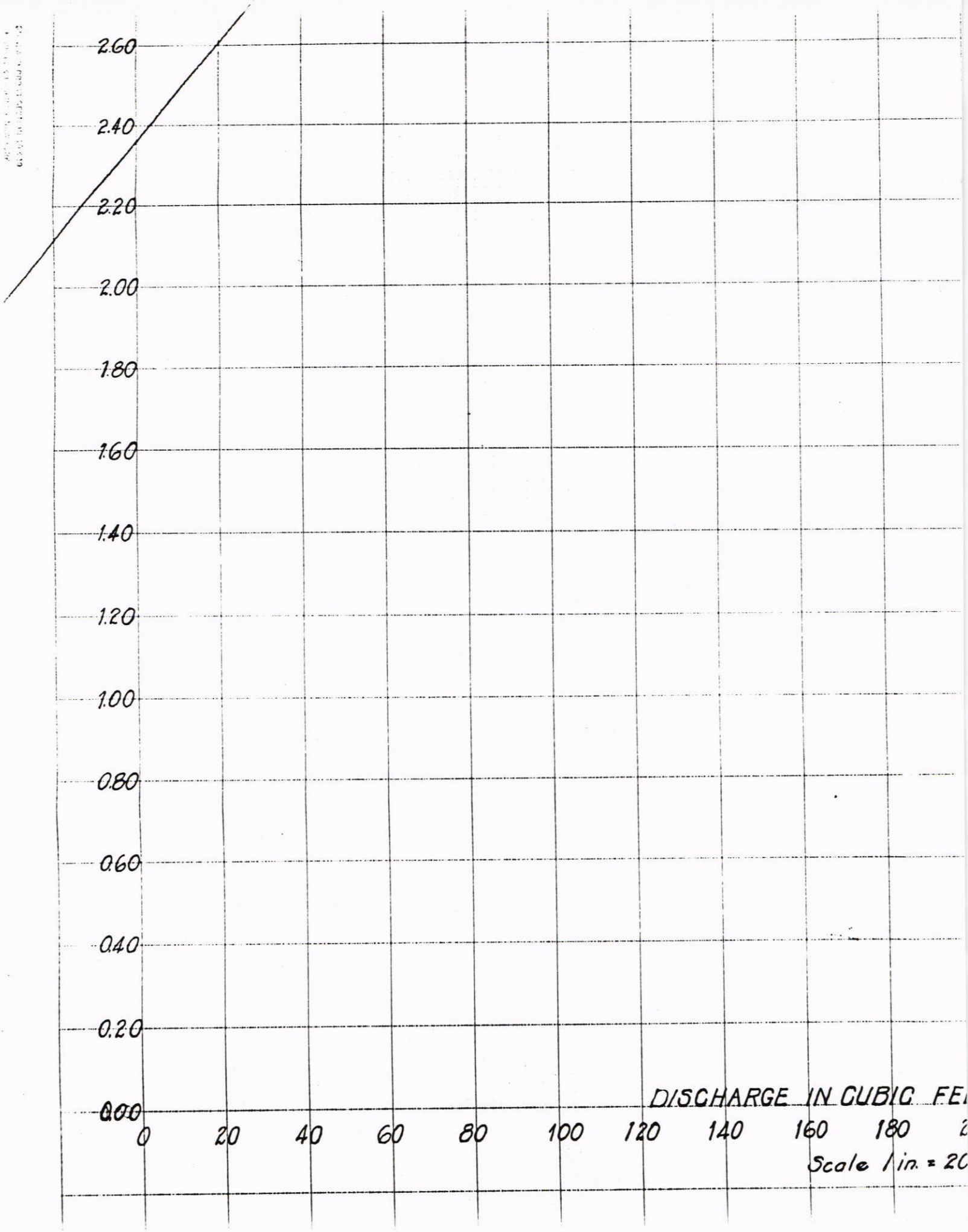

180
200
220
240
260
280
300
320
340
360
11/9/14
6/3/15
11/6/14
10/19/14
9/9/16
7/9/15
7/27/14
10/9/16
5/16/16
5/8/15
10/21/16
10/13/16

10/9/16 → 0 ← 0 5/16/16

5/8/15 → 0 0 ← 10/21/16. 10/13/16


4.60
4.40
4.20
4.00
3.80
3.60
3.40
3.20
3.00
2.80
2.60
2.40
2.20
2.00
1.80
GAGE HEIGHTS IN FEET.
Scale 1in. = 0.20ft.

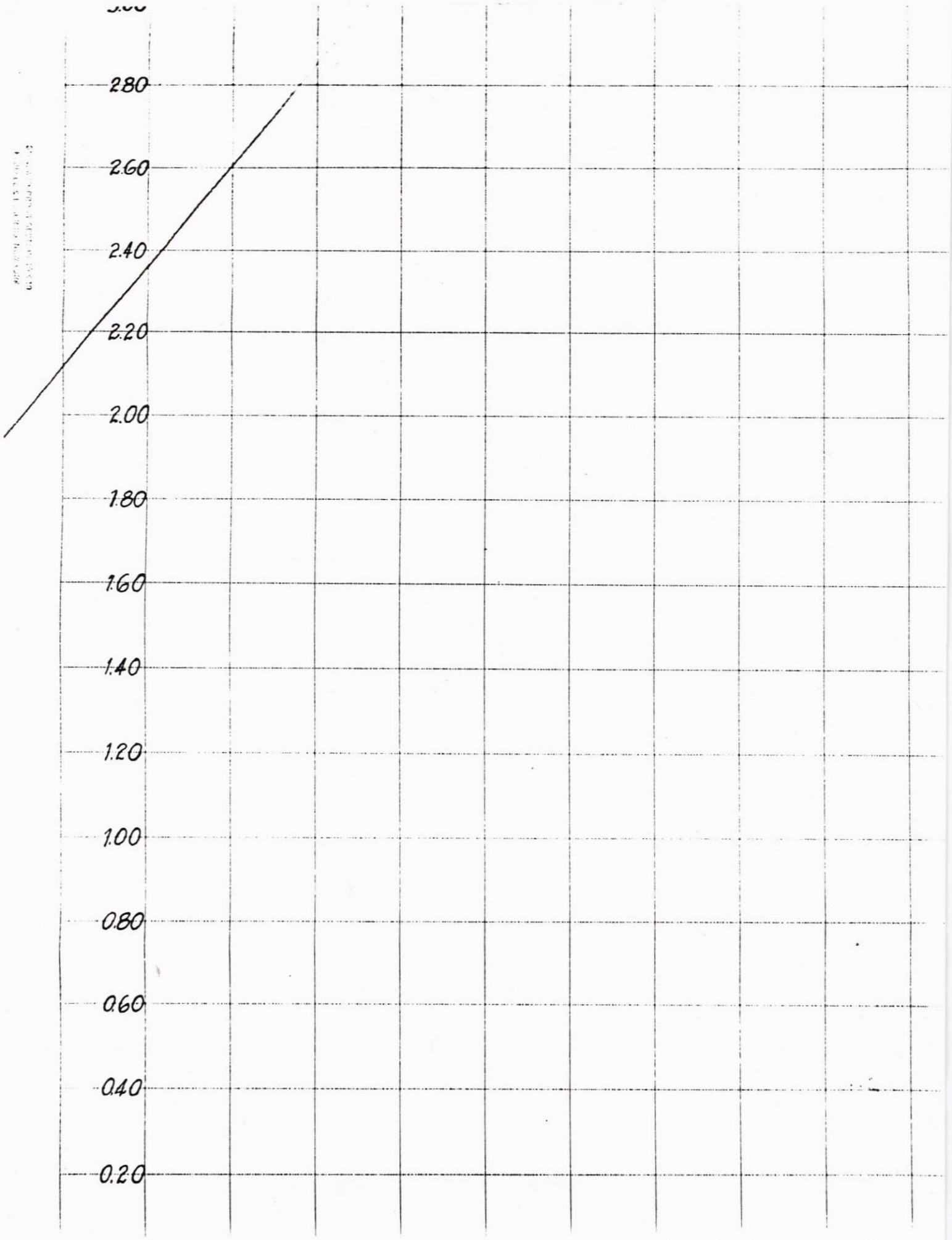

6.00
5.80
5.60
5.40
5.20
5.00
4.80
4.60
4.40
4.20
4.00
3.80
3.60
3.40
3.20
20
40
60
80
100
120
140
160
180
200
9/9/16
GAGE HEIGHTS IN FEET.
Scale 1in.=0.20ft.

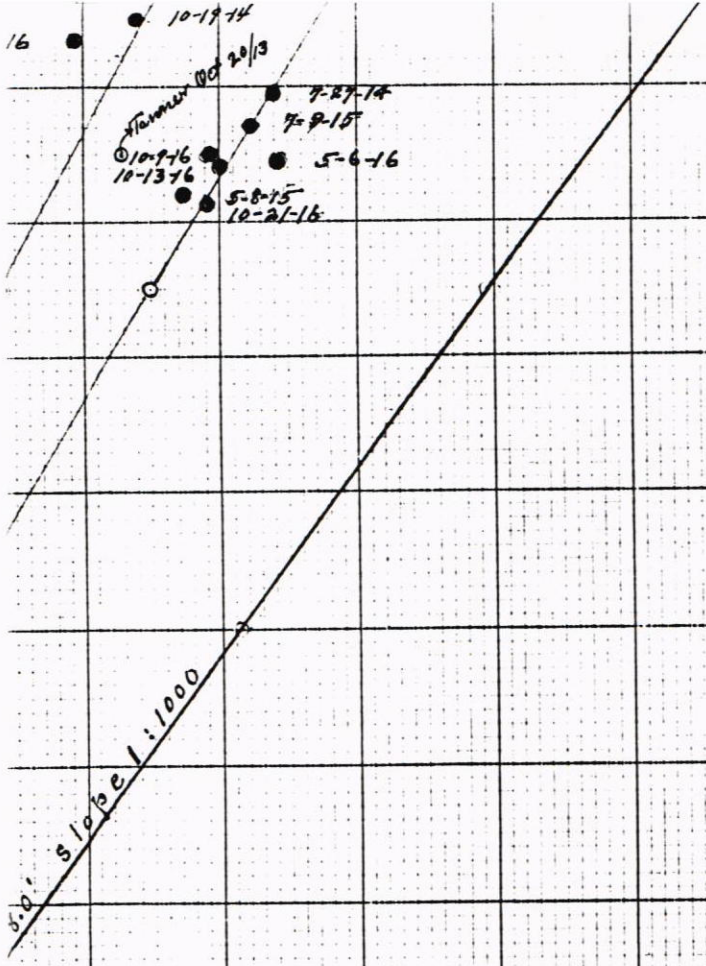

2.60
2.40
2.20
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
20
40
60
80
100
120
140
160
180
DISCHARGE IN CUBIC FE
Scale 1 in. = 20

IN CUBIC FEET PER SECOND.

160 180 200 220 240 260 280 300 320 340 360

Scale 1 in. = 20 Sec. Ft.

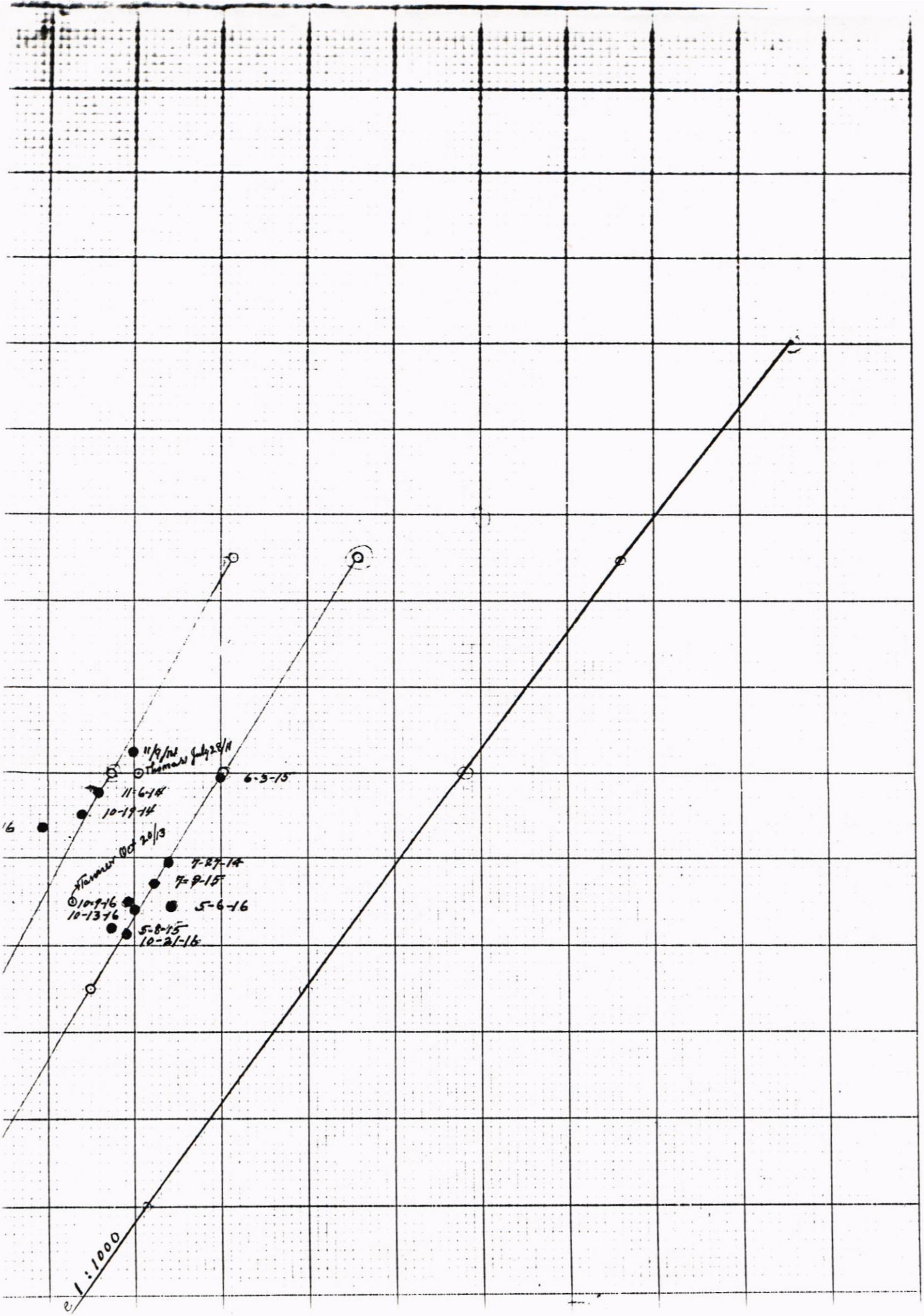

2.80
2.60
2.40
2.20
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20

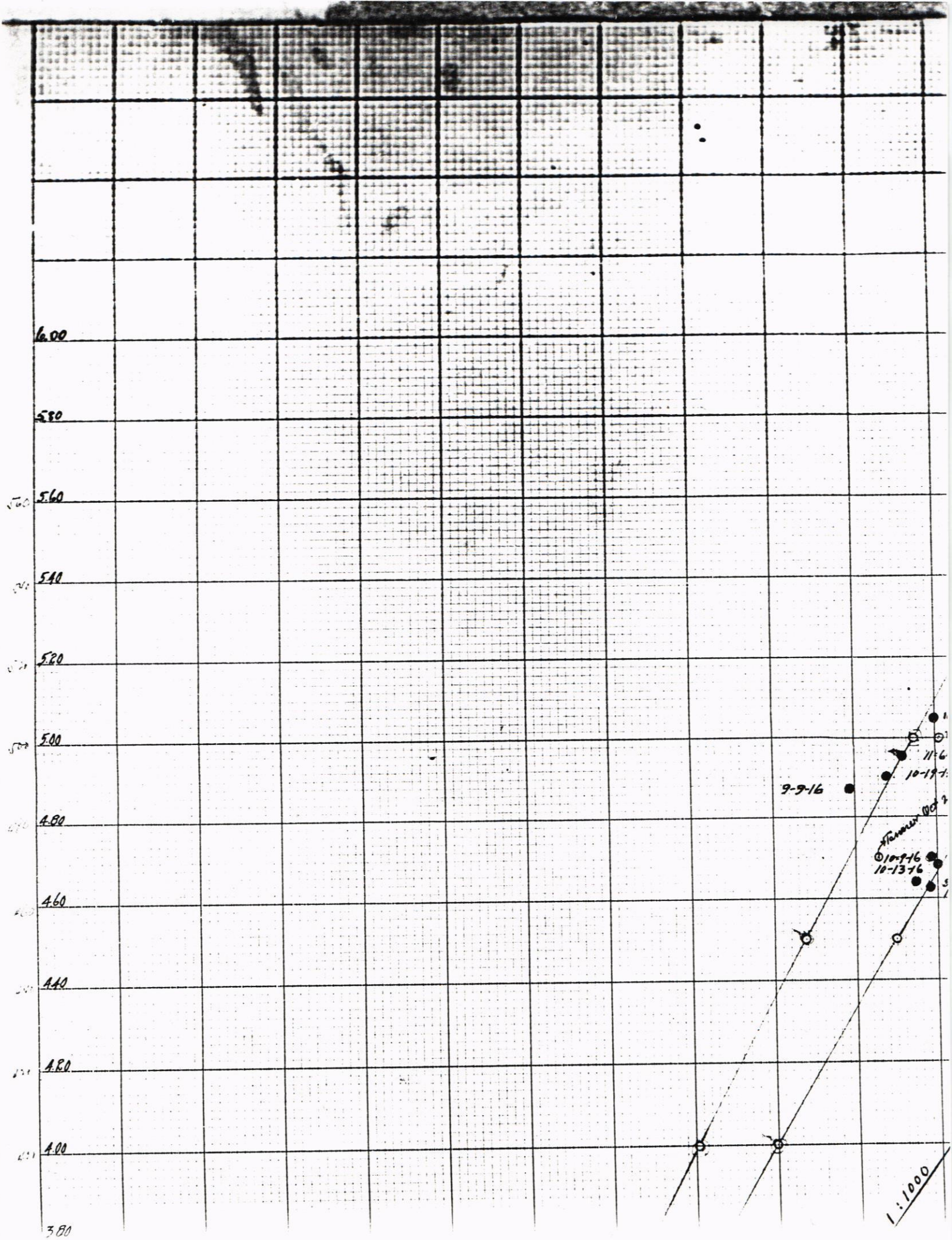


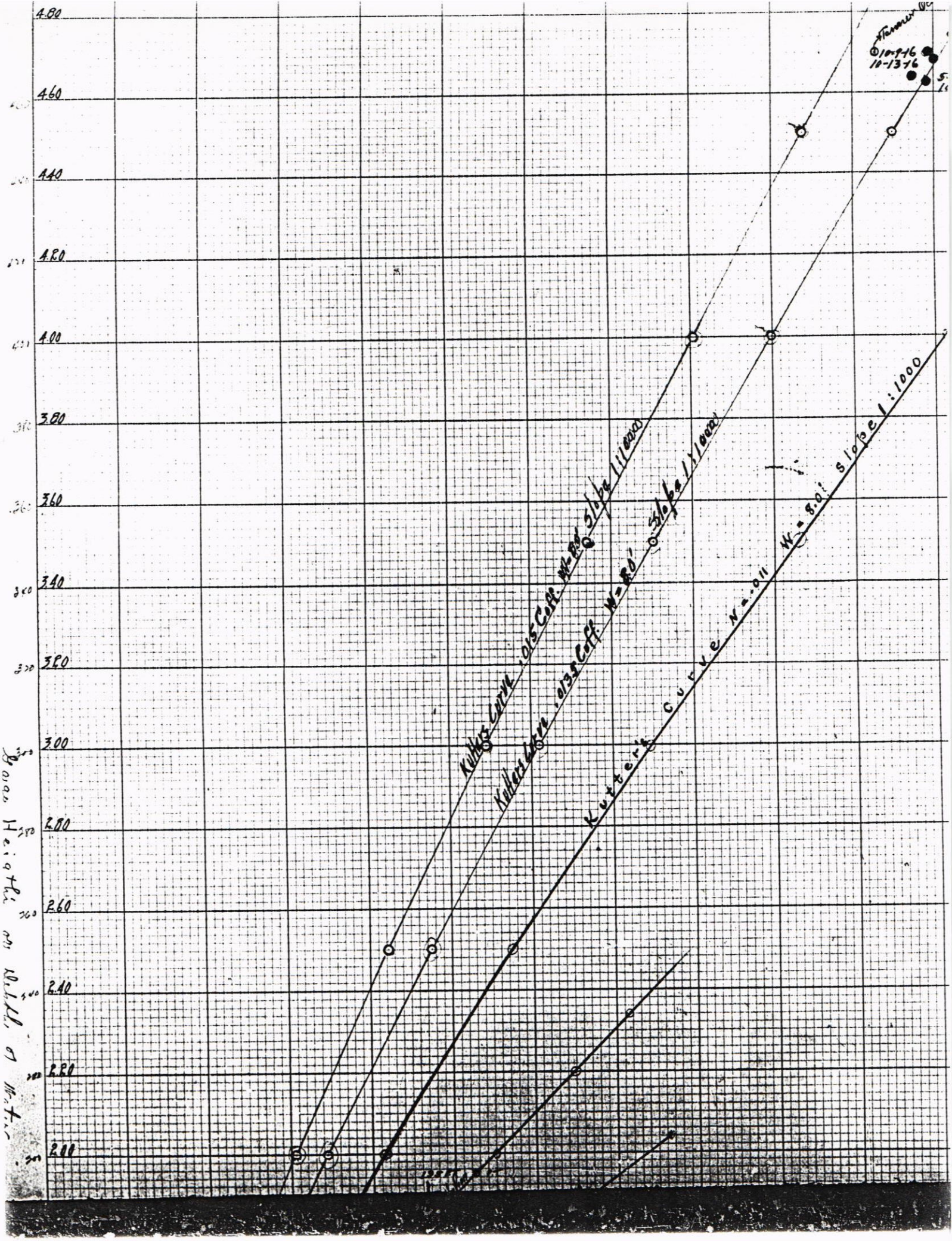
Three curves of Theoretical Discharge of a flume 8 feet wide with depths of water from 0 to 6 feet — Slope 1 foot per Thousand feet and for N = 0.015; N = 0.0135; N = 0.011

The gage readings and Volumes of Discharge observed by Water Commissioners Wert and Thomas and by Caleb Farmer. Flume

STANDARD CROSS SECTION 10 X 10
KEUFFEL & ESSER CO. NEW YORK


11/9/14
Thomas July 28/11
6-3-15
11-6-14
10-19-14
Hanover Oct 20/13
7-27-14
7-9-15
10-9-16
10-13-16
5-6-16
5-8-15
10-21-16
1:1000

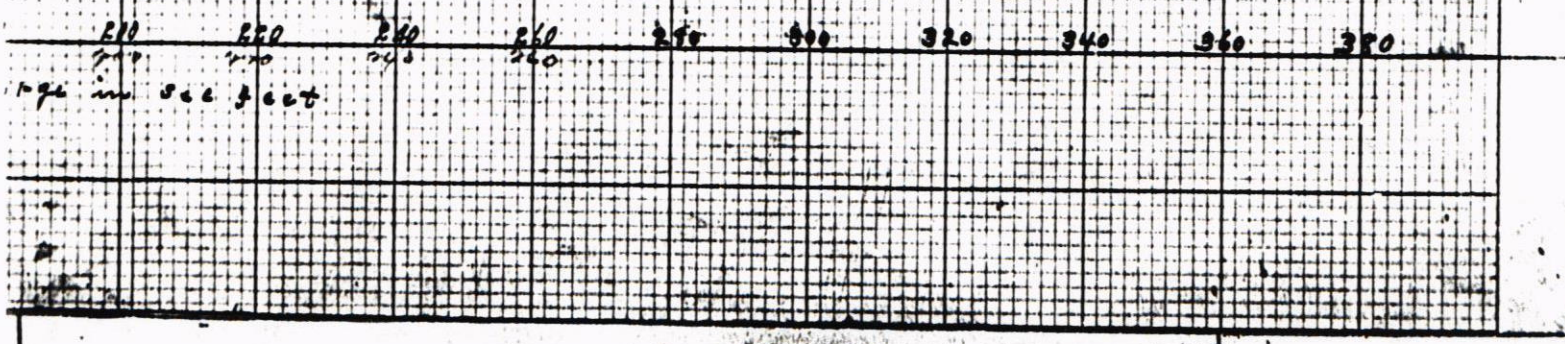

6.00
5.80
5.60
5.40
5.20
5.00
4.80
4.60
4.40
4.20
4.00
3.80
9-9-16
10-9-16
10-13-16
1:1000



4.80
4.60
4.40
4.20
4.00
3.80
3.60
3.40
3.20
3.00
2.80
2.60
2.40
2.20
2.00
10-9-16
10-13-16
Kutter's Curve N = .011 W = 8.0' slope 1:1000

feet and for N = 0.015 ; N = 0.0135 ; N = 0.011

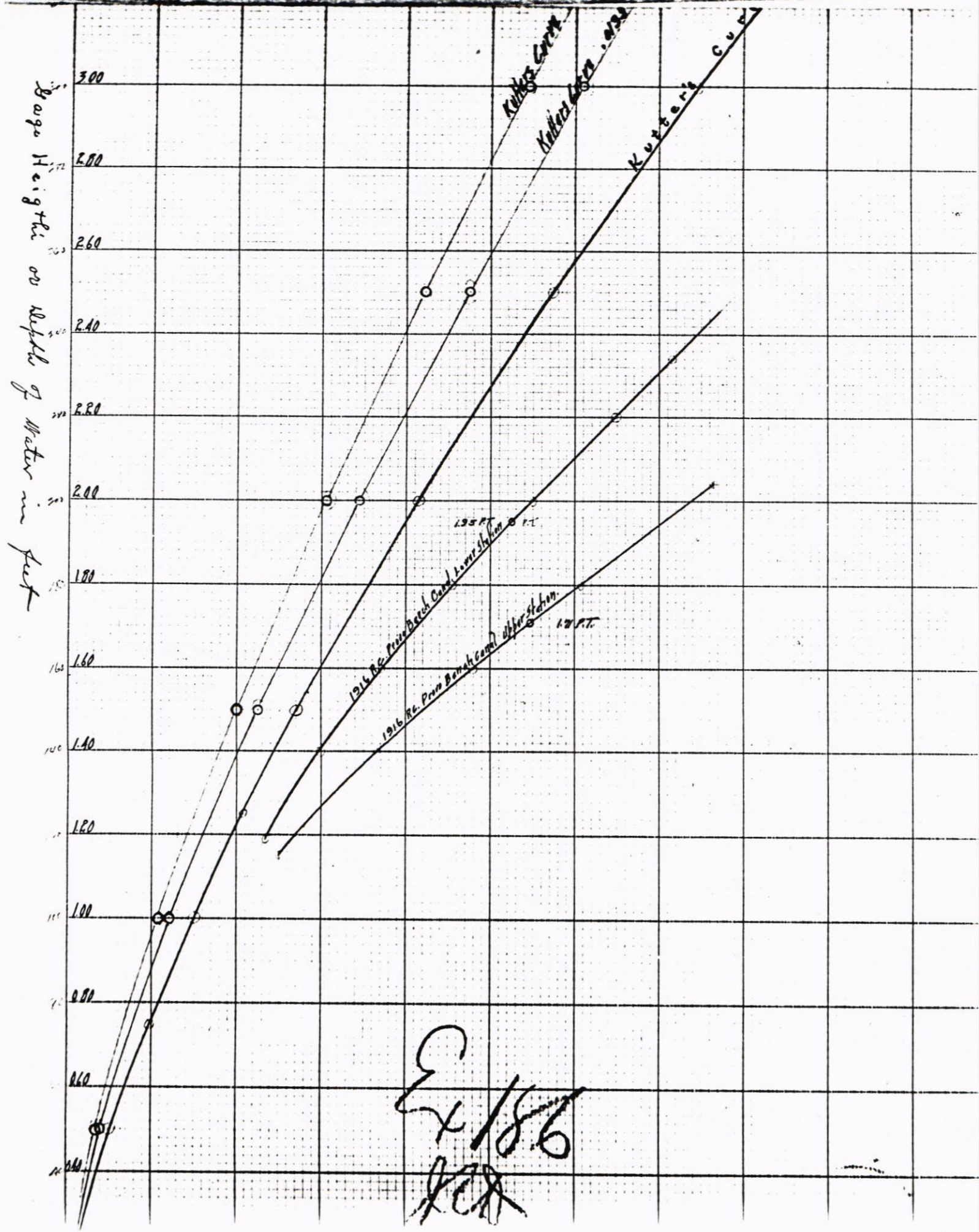
The gage readings and Volumes of Discharge observed by Water Commissioners Wentz and Thomas and by Caleb Tanner Swann by black dots having the dates of measurement opposite. Observations plotted are those made at the "Donnan Rating Station" on the Utah Power and Light Co's Flume in Provo Canyon

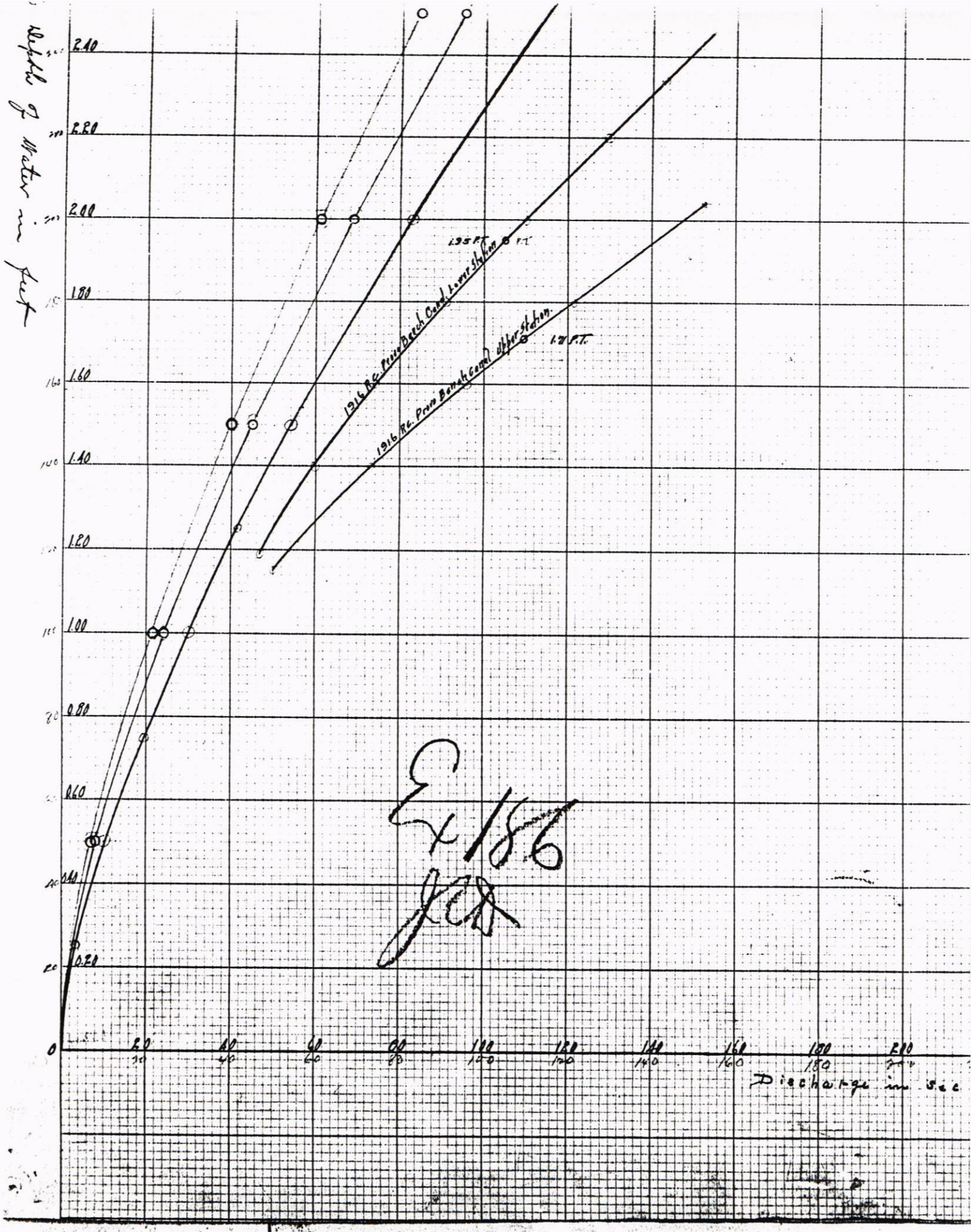

210 220 240 260 280 300 320 340 360 380
rge in sec feet

STANDARD CROSS SECTION 10 X 10
KEUFFEL & ESSER CO. N.Y.

Three curves of Theoretical Discharge of a flume 8 feet wide with depths of water from 0 to 6 feet — Slope 1 foot per Thousand feet and for N = 0.015 ; N = 0.0135 ; N = 0.011

The gage readings and Volumes of Discharge observed by Water Commissioners Wentz and Thomas and by Caleb Tanner shown by black dots having the dates of measurements opposite. Observations plotted are those made at the "Donnan Rating Station" on the Utah Power and Light Co's Flume in Provo Canyon


Gage Heigths or Depth of Water in feet
3.00
2.80
2.60
2.40
2.20
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
Kutter's Curve
Kutter's Curve
Kutter's Curve
1.95 P.T.
1.71 P.T.
1916 R.C. Prove Beach Canal Lower Station
1916 R.C. Prove Beach Canal Upper Station
Ex 186



Depth of Water in feet
2.40
2.20
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0
20
40
60
80
100
120
140
160
180
200
Discharge in sec
1916 R.C. Prove Beech Canal Lower Station
1916 R.C. Prove Beech Canal Upper Station
1.95 F.T.
1.71 F.T.
Ex 186