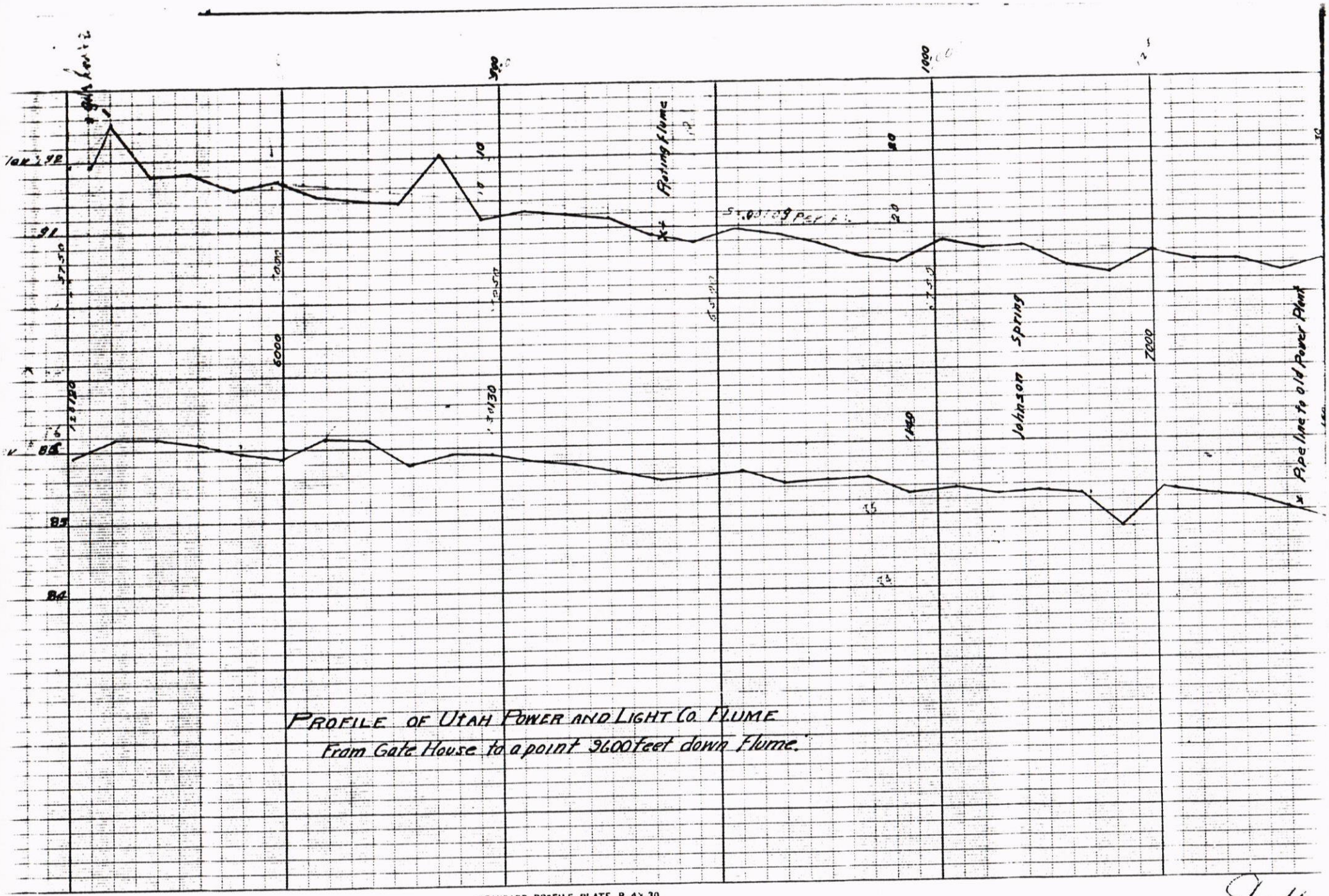
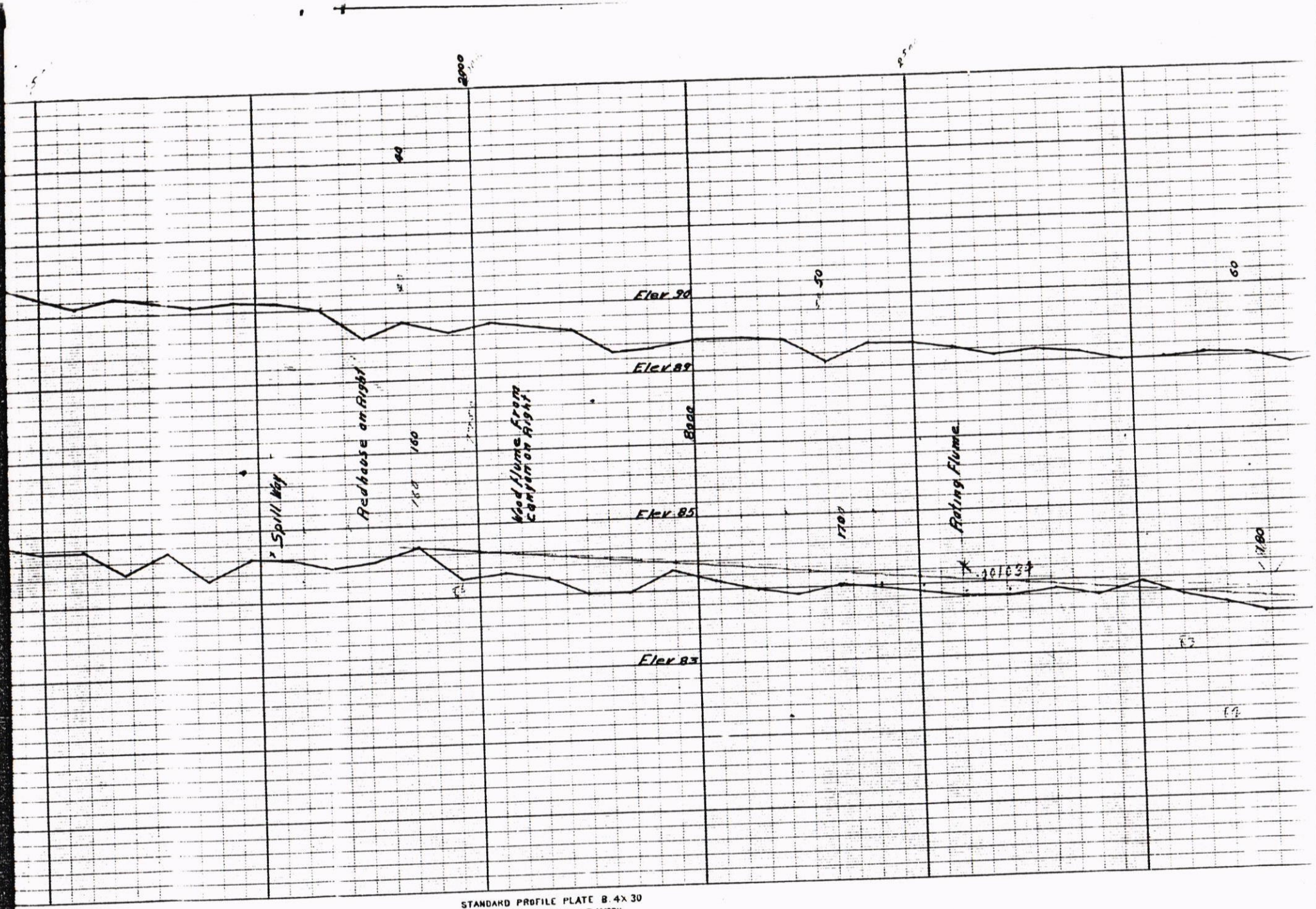


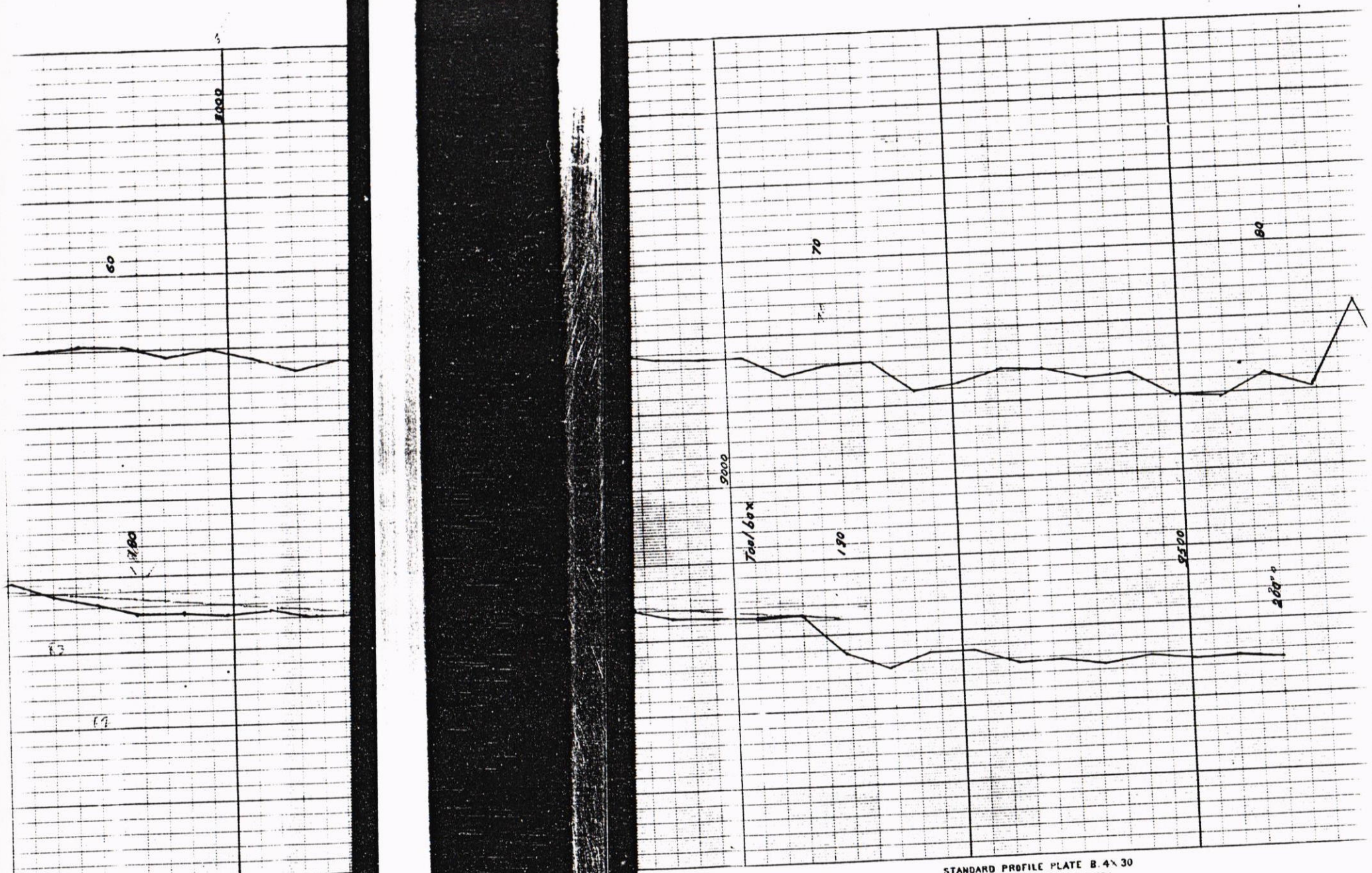
PROFILE OF UTAH POWER AND LIGHT CO. FLUME
From Gate House to a point 9600 feet down Flume.

STANDARD PROFILE PLATE B. 4 X 30
KEUFFEL & ESSER CO NEW YORK

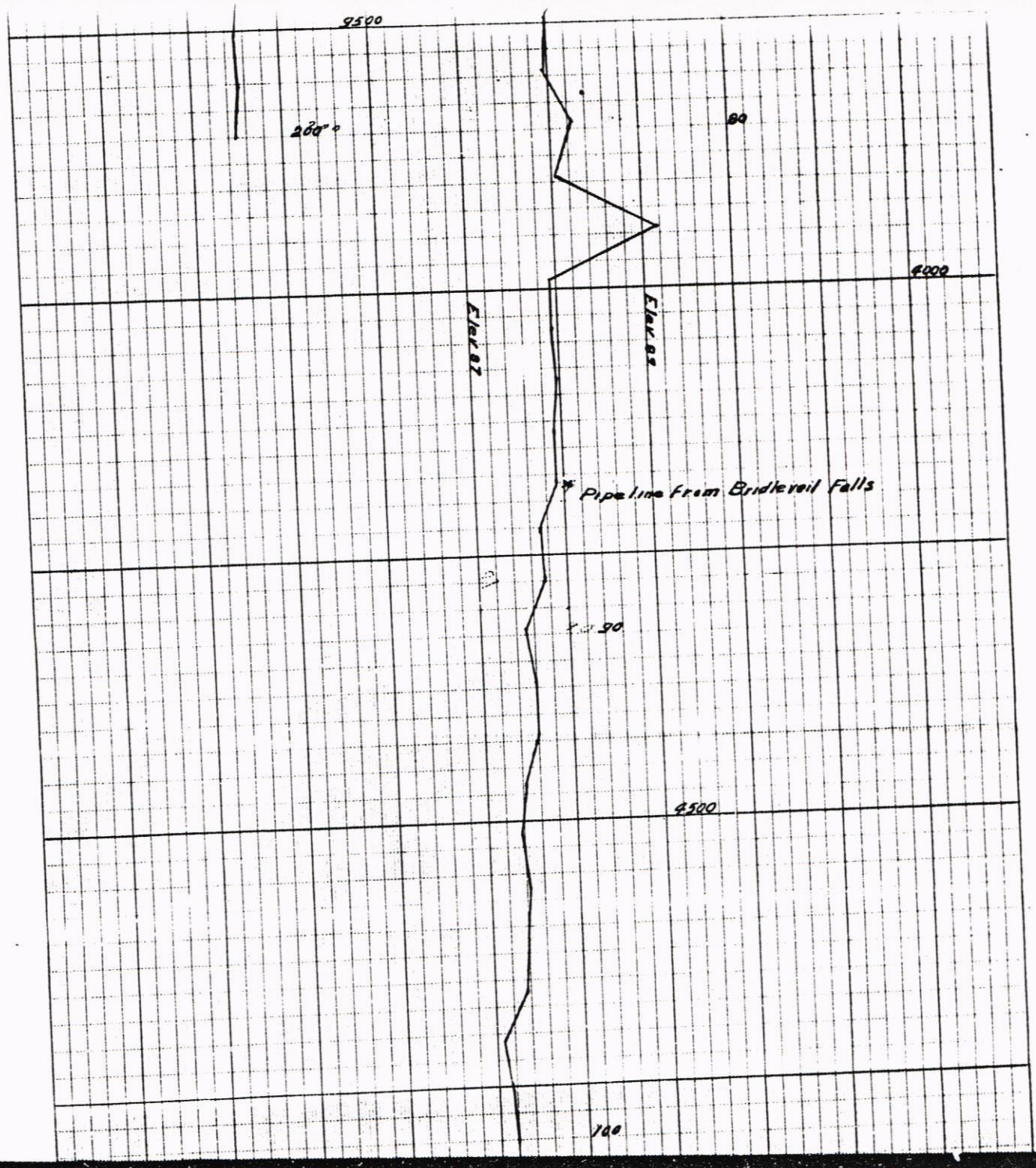
Ex 14

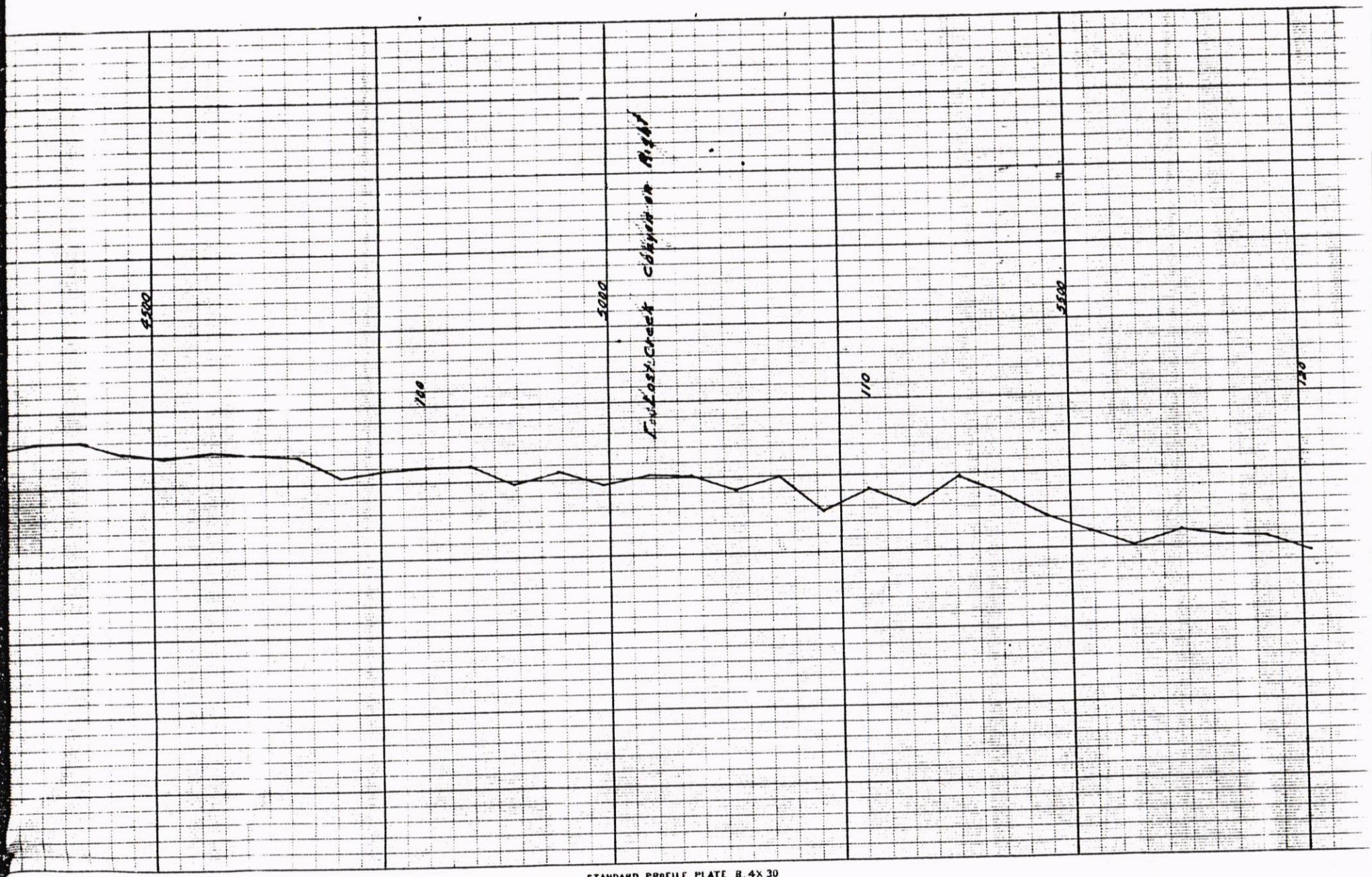


STANDARD PROFILE PLATE 8.4 X 30
KEUFFEL & ESSER CO NEW YORK



STANDARD PROFILE PLATE B. 4 X 30
KEUFFEL & ESSER Co NEW YORK


9500
200°
80
4000
Elev 87
Elev 89
* Pipeline from Bridlevail Falls
90
4500
100



STANDARD PROFILE PLATE B. 4 X 30
KEUFFEL & ESSER CO NEW YORK

UNITED STATES GEOLOGICAL SURVEY. WATER RESOURCES BRANCH

Discharge, in second-feet, of Provo Co. 48 River at Provo Utah for 1915

Frank Dusenberry

square miles.

UNITED STATES GEOLOGICAL SURVEY. WATER RESOURCES BRANCH

Daily gage height, in feet, and discharge, in second-feet, of South Fork Provo River near Provo, Utah for 1915

Frank Dusenberry

Drainage area ..... square miles.

Day	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.65	40	2.65	40	2.57	34	2.59	35	2.56	33
2	2.65	40	2.64	42	2.58	34	2.59	35	2.56	33
3	2.65	40	2.66	41	2.62	38	2.59	35	2.56	33
4	2.65	40	2.70	44	2.60	36	2.59	35	2.56	33
5	2.65	40	2.69	43	2.59	35	2.58	34	2.56	33
6	2.65	40	2.70	44	2.57	35	2.58	34	2.56	33
7	2.65	40	2.69	43	2.60	36	2.58	34	2.56	33
8	2.65	40	2.68	42	2.60	36	2.59	35	2.56	33
9	2.65	40	2.65	40	2.60	36	2.57	34	2.56	33
10	2.65	40	2.65	40	2.59	35	2.55	32	2.56	33
11	2.65	40	2.65	40	2.60	36	2.55	32	2.57	34
12	2.65	40	2.65	40	2.60	36	2.52	30	2.57	34
13	2.65	40	2.65	40	2.60	36	2.52	30	2.57	34
14	2.65	40	2.63	38	2.61	37	2.56	33	2.58	34
15	2.65	40	2.62	38	2.60	36	2.54	33	2.57	34
16	2.65	40	2.63	38	2.60	36	2.56	33	2.57	34
17	2.65	40	2.61	37	2.60	36	2.56	33	2.57	34
18	2.65	40	2.62	38	2.60	36	2.56	33	2.58	34
19	2.65	40	2.62	38	2.60	36	2.56	33	2.58	34
20	2.65	40	2.59	35	2.60	36	2.56	33	2.58	34
21	2.65	40	2.60	36	2.59	35	2.56	33	2.57	34
22	2.65	40	2.60	36	2.58	34	2.56	33	2.57	34
23	2.65	40	2.63	38	2.58	34	2.56	33	2.58	34
24	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
25	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
26	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
27	2.65	40	2.58	34	2.58	34	2.56	33	2.58	34
28	2.65	40	2.57	34	2.58	34	2.56	33	2.58	34
29	2.65	40	2.57	34	2.59	35			2.60	36
30	2.65	40	2.58	34	2.59	35			2.60	36
31			2.59	35	2.59	35			2.60	36
Total		1200		1191		1100		930		1050
Mean		40.0		38.4		35.5		33.2		33.9
Max.		2380		2360		2,180		1,840		2,080
Min.		40		44		38		36		36
Acre-feet		40		84		34		30		33

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	2.58	34	2.60	36	2.50	28	0.50	28	0.51	29	0.56	33
2	2.58	34	2.60	36	2.53	30	.50	28	.50	28	.58	34
3	2.58	34	2.60	36	2.53	30	.50	28	.50	28	.64	39
4	2.57	34	2.58	34	2.46	25	.50	28	.54	31	.60	36
5	2.60	36	2.58	34	2.50	28	.48	27	.52	30	.58	34
6	2.64	39	2.56	33	2.50	28	.50	28	.52	30	.58	34
7	2.68	42	2.56	33	2.50	28	.44	24	.50	28	.58	34
8	2.68	42	2.56	33	2.55	32	.50	28	.52	30	.58	34
9	2.63	38	2.56	33	2.57	34	.48	27	.50	28	.58	34
10	2.68	42	2.56	33	2.57	34	.48	27	.52	30	.60	36
11	2.68	42	2.57	29	2.52	30	.48	27	.52	30	.60	36
12	2.68	42	2.57	29	.52	30	.45	24	.52	30	.60	36
13	2.57	34	2.50	28	.52	30	.50	28	.54	31	.58	34
14	2.56	33	2.50	28	.50	28	.50	28	.58	34	.58	34
15	2.58	34	2.48	27	.50	28	.50	28	.58	34	.58	34
16	2.59	35	2.42	22	.48	27	.48	27	.56	33	.60	36
17	2.57	34	2.48	27	.50	28	.48	27	.50	28	.60	36
18	2.58	34	2.50	28	.50	28	.50	28	.58	34	.60	36
19	2.58	34	2.52	30	.48	27	.50	28	.54	31	.60	36
20	2.60	36	2.55	32	.48	27	.50	28	.54	31	.58	34
21	2.61	37	2.50	28	.52	30	.48	27	.44	24	.58	34
22	2.60	36	2.50	28	.54	31	.47	26	.44	24	.60	36
23	2.59	35	2.50	28	.54	31	.48	27	.48	27	.54	31
24	2.58	34	2.51	29	.48	27	.50	28	.48	27	.56	33
25	2.58	34	2.52	30	.44	24	.48	27	.48	27	.56	33
26	2.58	34	2.55	32	.43	23	.48	27	.56	33	.59	35
27	2.58	34	2.55	32	.53	30	.52	30	.56	33	.54	31
28	2.59	35	2.55	32	.53	30	.48	27	.56	33	.54	31
29	2.60	36	2.55	32	.52	30	.60	36	.54	31	.58	34
30	2.60	36	2.55	32	.50	28	.50	28	.56	33	.58	34
31			2.55	32			.50	28	.60	36		
Total		1084		956		864		857		936		1,032	12,445
Mean		36.1		30.8		28.8		27.6		30.2		34.4	34.1
Max.		2,150		1,890		1,710		1,700		1,860		2,050	24,700
Min.		42		36		34		36		36		39	44
Acre-feet		33		22		23		24		24		31	22

Gage ht. taken from obs. book. Discharge applied by [illegible]

Computed by [illegible] Discharge checked by [illegible]

Checked by [illegible] Gage ht. checked by [illegible]

UNITED STATES GEOLOGICAL SURVEY. WATER RESOURCES BRANCH

Gage height, in feet, and discharge, in second-feet, of Provo Co. Fk. River near Provo Utah for 1915

Drainage area ..... square miles.

Frank Dusenberry

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.63	38	2.65	40	2.65	40	2.57	34	2.59	35	2.56	33
2	2.63	38	2.65	40	2.64	41	2.58	34	2.59	35	2.56	33
3	2.68	42	2.65	40	2.66	41	2.62	38	2.59	35	2.56	33
4	2.70	44	2.65	40	2.70	44	2.60	36	2.57	35	2.56	33
5	2.64	39	2.65	40	2.69	43	2.59	35	2.58	34	2.56	33
6	2.64	39	2.65	40	2.70	44	2.59	35	2.58	34	2.56	33
7	2.62	38	2.65	40	2.69	43	2.60	36	2.58	34	2.56	33
8	2.62	38	2.65	40	2.68	42	2.60	36	2.59	35	2.56	33
9	2.67	42	2.65	40	2.65	40	2.60	36	2.57	34	2.56	33
10	2.65	40	2.65	40	2.65	40	2.59	35	2.55	32	2.56	33
11	2.67	42	2.65	40	2.65	40	2.60	36	2.55	32	2.57	34
12	2.67	42	2.65	40	2.65	40	2.60	36	2.52	30	2.57	34
13	2.67	42	2.65	40	2.65	40	2.60	36	2.52	30	2.57	34
14	2.65	40	2.65	40	2.63	38	2.61	37	2.56	33	2.58	34
15	2.63	38	2.65	40	2.62	38	2.60	36	2.54	33	2.57	34
16	2.64	39	2.65	40	2.63	38	2.60	36	2.56	33	2.57	34
17	2.66	41	2.65	40	2.61	37	2.60	36	2.56	33	2.57	34
18	2.65	40	2.65	40	2.62	38	2.60	36	2.56	33	2.58	34
19	2.65	40	2.65	40	2.62	38	2.60	36	2.56	33	2.58	34
20	2.65	40	2.65	40	2.59	35	2.60	36	2.56	33	2.58	34
21	2.65	40	2.65	40	2.60	36	2.59	35	2.56	33	2.57	34
22	2.65	40	2.65	40	2.60	36	2.58	34	2.56	33	2.57	34
23	2.65	40	2.65	40	2.63	38	2.58	34	2.56	33	2.58	34
24	2.65	40	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
25	2.65	40	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
26	2.65	40	2.65	40	2.60	36	2.60	36	2.56	33	2.58	34
27	2.65	40	2.65	40	2.58	34	2.58	34	2.56	33	2.58	34
28	2.65	40	2.65	40	2.57	34	2.58	34	2.56	33	2.58	34
29	2.65	40	2.65	40	2.57	34	2.59	35			2.60	36
30	2.65	40	2.65	40	2.58	34	2.59	35			2.60	36
31	2.69	43			2.59	35	2.59	35			2.60	36
Total		1245		1200		1191		1100		930		1050
Mean		40.2		40.0		38.4		35.5		33.2		33.9
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet		2,470		2,380		2,360		2,180		1,840		2,080
Maximum		44		40		44		38		36		36
Minimum		38		40		34		34		30		33
Accuracy		C		C		C		C		C		C

UNITED STATES GEOLOGICAL SURVEY. WATER RESOURCES BRANCH

Daily gage height, in feet, and discharge, in second-feet, of South Fork Provo River near Provo, Utah

Drainage area ..... square miles.

Frank Dusenberry

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	2.58	34	2.60	36	2.50	28	0.50	28	0.51	29	0.56	33
2	2.58	34	2.60	36	2.53	30	.50	28	.50	28	.58	34
3	2.58	34	2.60	36	2.53	30	.50	28	.50	28	.64	39
4	2.57	34	2.58	34	2.46	25	.50	28	.54	31	.60	36
5	2.60	36	2.58	34	2.50	28	.48	27	.52	30	.58	34
6	2.64	39	2.56	33	2.50	28	.50	28	.52	30	.58	34
7	2.68	42	2.56	33	2.50	28	.44	24	.50	28	.56	34
8	2.68	42	2.56	33	2.55	32	.50	28	.52	30	.58	34
9	2.63	38	2.56	33	2.57	34	.48	27	.50	28	.58	34
10	2.68	42	2.56	33	2.57	34	.48	27	.52	30	.60	36
11	2.68	42	2.57	29	2.52	30	.48	27	.52	30	.60	36
12	2.68	42	2.57	29	.52	30	.45	24	.52	30	.60	36
13	2.57	34	2.50	28	.52	30	.50	28	.54	31	.58	34
14	2.56	33	2.50	28	.50	28	.50	28	.58	34	.58	34
15	2.58	34	2.48	27	.50	28	.50	28	.58	34	.58	34
16	2.59	35	2.42	22	.48	27	.48	27	.56	33	.60	36
17	2.57	34	2.48	27	.50	28	.48	27	.50	28	.60	36
18	2.58	34	2.50	28	.50	28	.50	28	.58	34	.60	36
19	2.58	34	2.52	30	.48	27	.50	28	.54	31	.60	36
20	2.60	36	2.55	32	.48	27	.50	28	.54	31	.58	34
21	2.61	37	2.50	28	.52	30	.48	27	.44	24	.58	34
22	2.60	36	2.50	28	.54	31	.47	26	.44	24	.60	36
23	2.59	35	2.50	28	.54	31	.48	27	.48	27	.54	31
24	2.58	34	2.51	29	.48	27	.50	28	.48	27	.56	33
25	2.58	34	2.52	30	.44	24	.48	27	.48	27	.56	33
26	2.58	34	2.55	32	.43	23	.48	27	.56	33	.59	35
27	2.58	34	2.55	32	.53	30	.52	30	.56	33	.54	31
28	2.59	35	2.55	32	.53	30	.48	27	.56	33	.54	31
29	2.60	36	2.55	32	.52	30	.60	36	.54	31	.58	34
30	2.60	36	2.55	32	.50	28	.50	28	.56	33	.58	34
31			2.55	32			.50	28	.60	36		
Total		1084		956		864		857		936		1,032
Mean		36.1		30.8		28.8		27.6		30.2		34.4
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet		2,150		1,890		1,710		1,700		1,860		2,050
Maximum		42		36		34		36		36		39
Minimum		33		22		23		24		24		31
Accuracy		C		C		C		C		C		C

MAP OF SEC

SHOWING

ENTRY OF JOHN BATES

Surveyed Aug 10 [illegible]

Scale 5 ch

CLASSES OF LAND

MEADOW SURVEYED No [illegible] 274 [illegible]

ESTIMATED No [illegible]

IRRIGATED SINCE 1906 Nos [illegible] Grain [illegible]

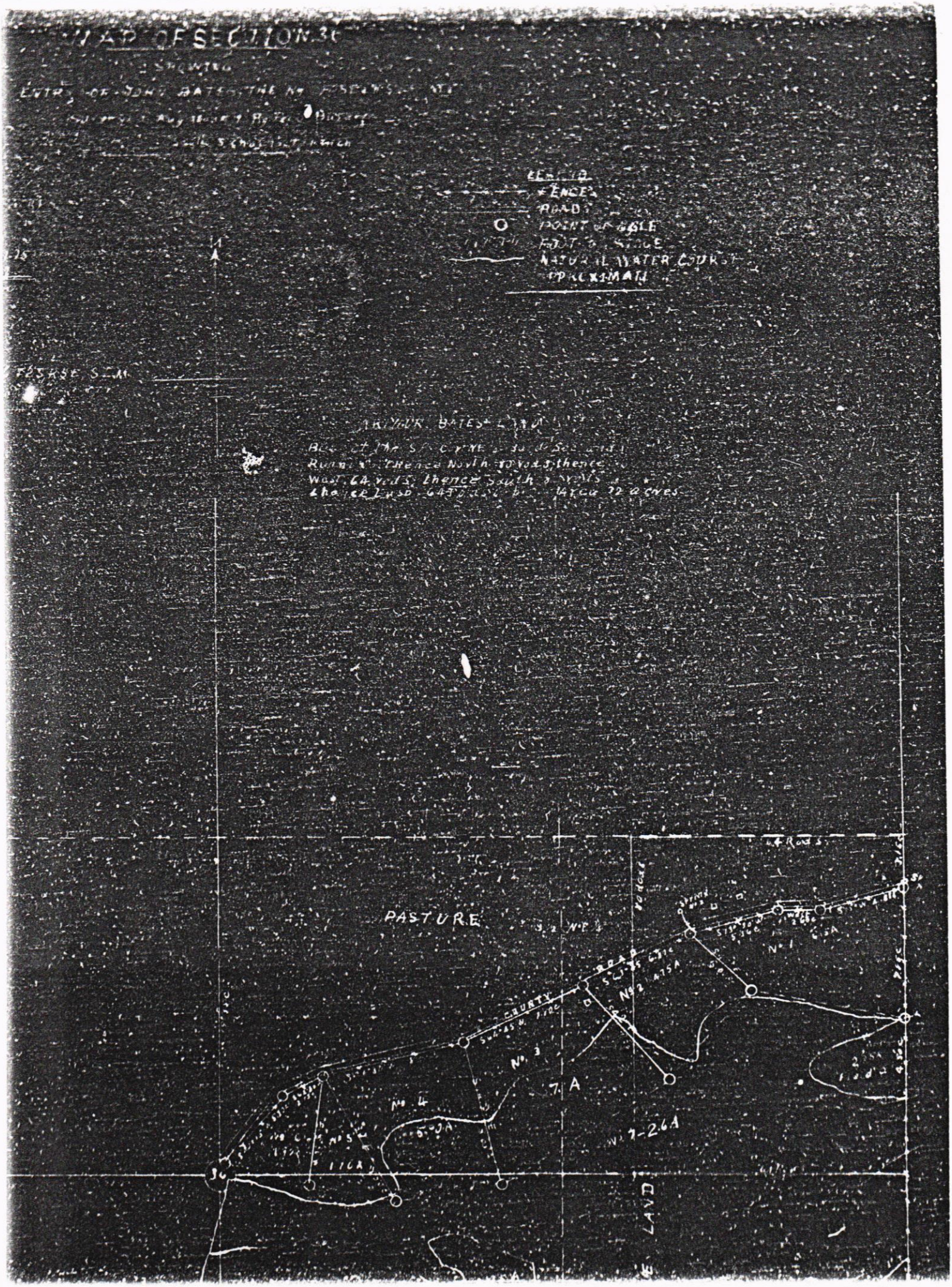
[illegible] NATURAL WATER COURSES [illegible]

Nos IRRIGATED NORTH SIDE 18 SOUTH 24 - 62

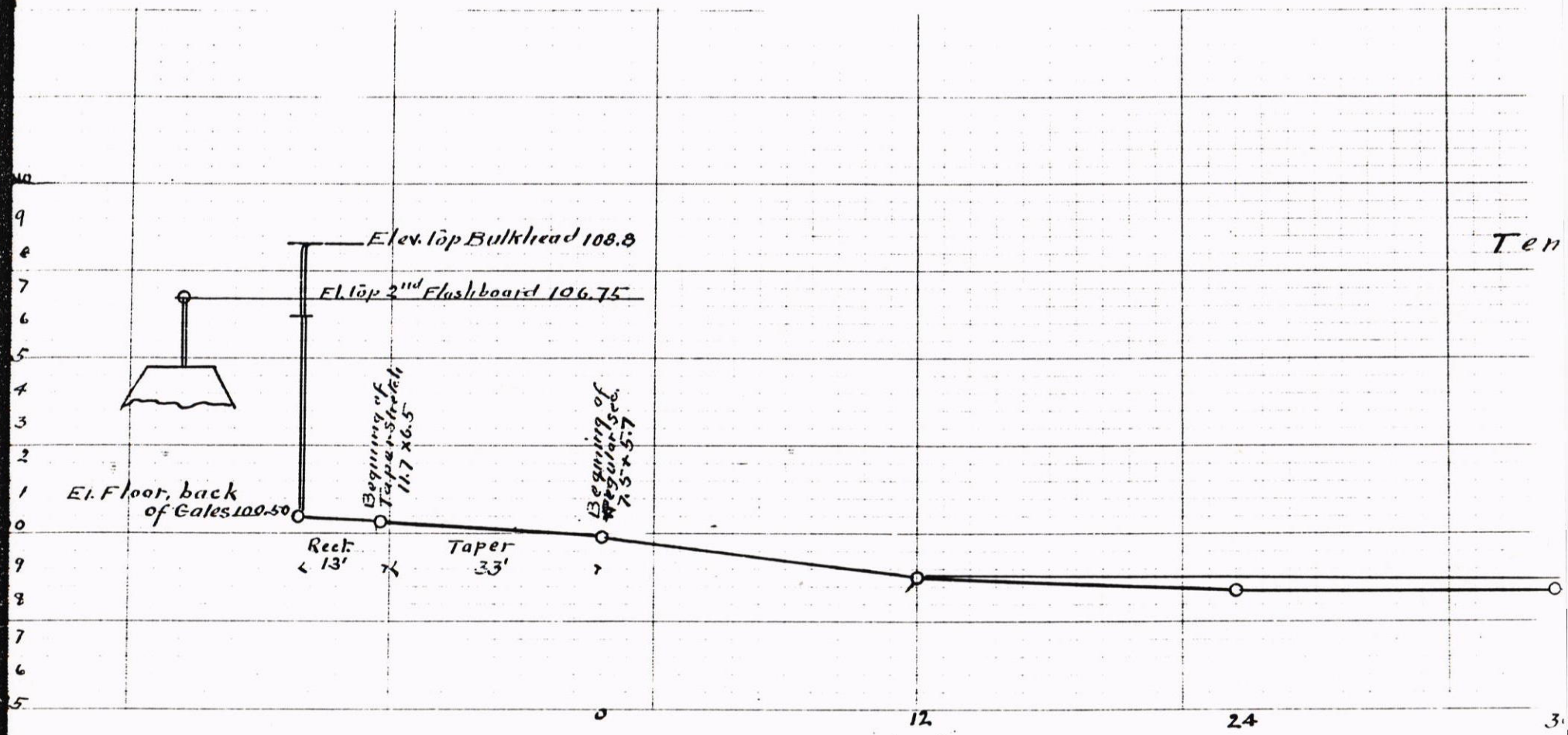
TOTAL 160

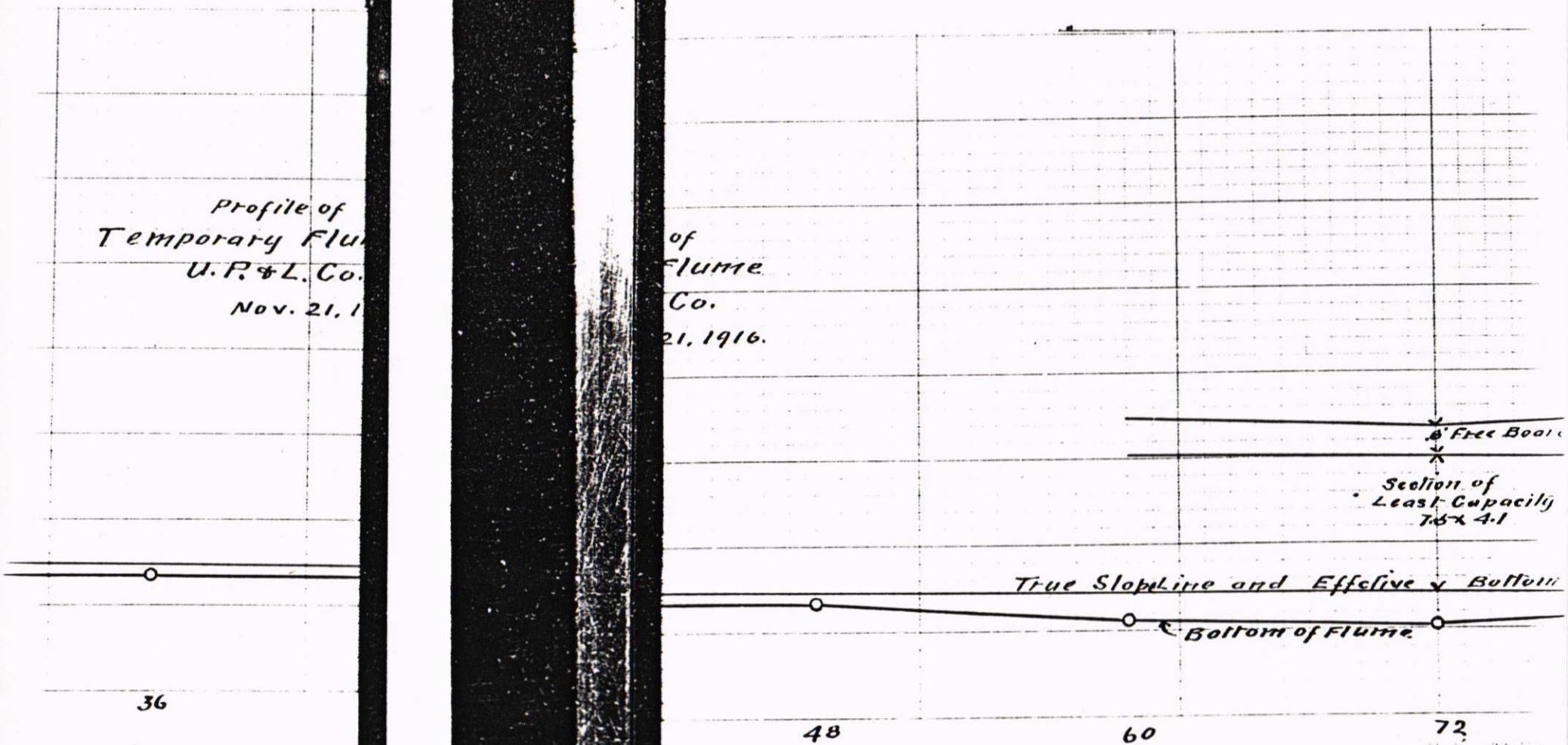
LOCATION OF SPRINGS

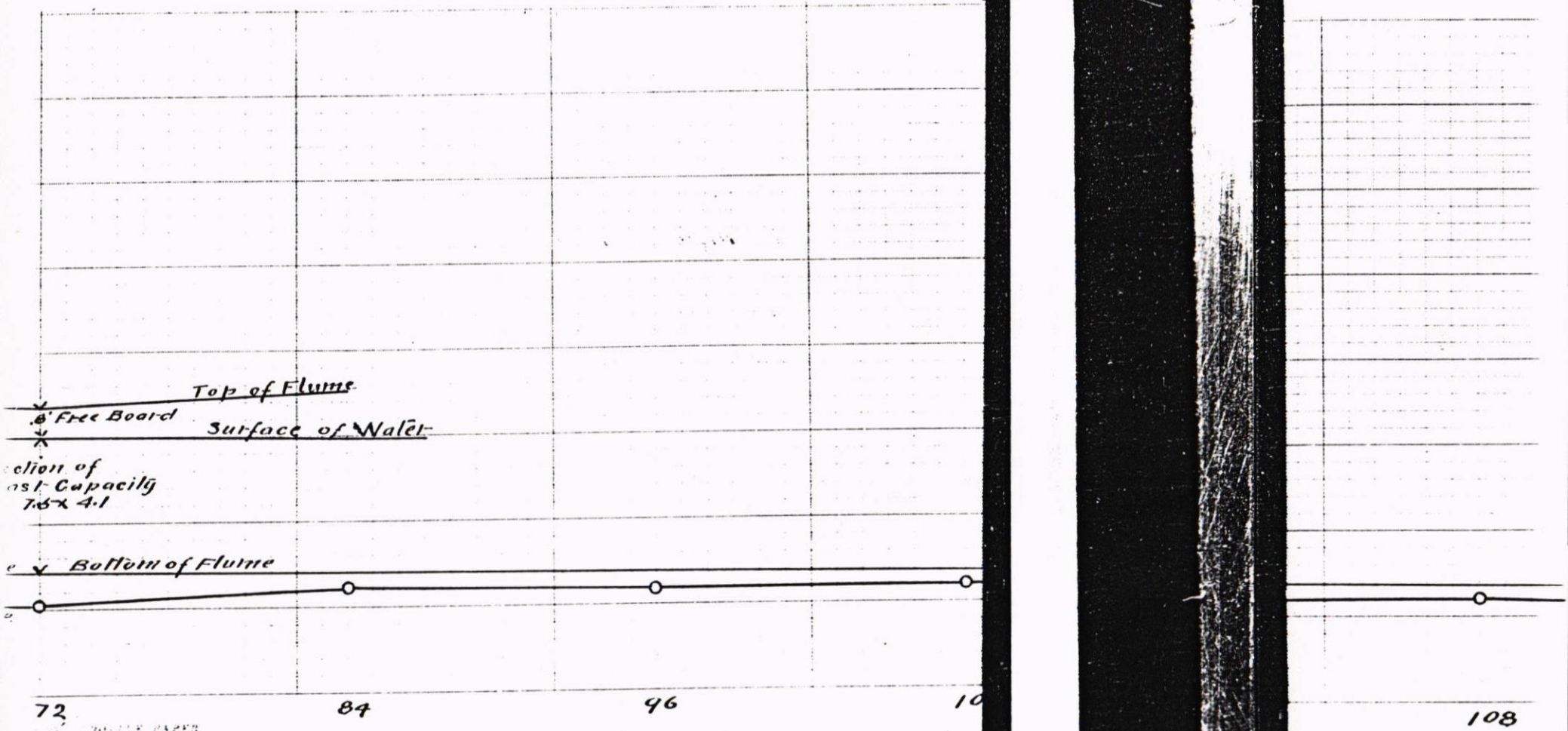
SPRING No 1 3152 feet [illegible] 36 T 23 R 5 E S.L.M.

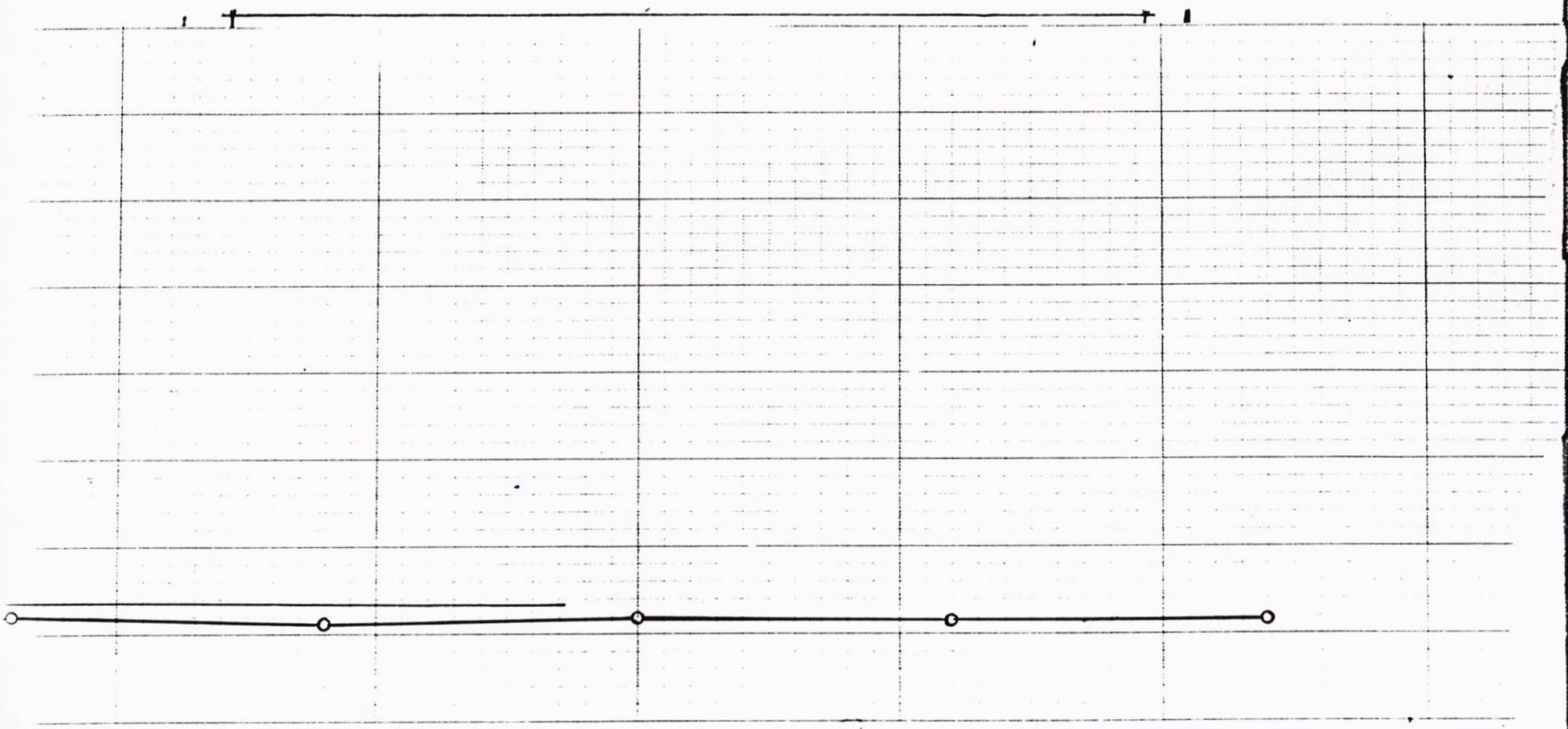

MAP OF SECTION 36
SHOWING
ENTRY OF JOHN BATES THE No
FENCE
ROAD
POINT OF ANGLE
FOOT OF STAGE
NATURAL WATER COURSE
APPROXIMATE
ARTHUR BATES LAND
Running thence North 80 rods, thence
West 64 rods, thence South
Area 32 acres
PASTURE
COUNTY ROAD
No 1
No 2
No 3
No 4
7 A
No 7-26A
LAND

21x


Elev. top Bulkhead 108.8
El. top 2nd Flashboard 106.75
El. Floor, back of Gates 100.50
Beginning of Taper-Steel 11.7 x 6.5
Beginning of Regular Sec. 7.5 x 5.7
Rect. 13'
Taper 33'
Ten
0
12
24


Profile of
Temporary Flu
U.P.&L. Co.
Nov. 21, 1
of
Flume
Co.
21, 1916.
Free Boa
Section of
Least Capacity
7.5 x 4.1
True Slopeline and Effective Bottom
Bottom of Flume
36
48
60
72


Top of Flume
.8' Free Board
Surface of Water
ction of
ast Capacity
7.8 x 4.1
Bottom of Flume
72
84
96
108



08

PROFILE PAPER
PLATE
EUGENE DIETZGEN CO.