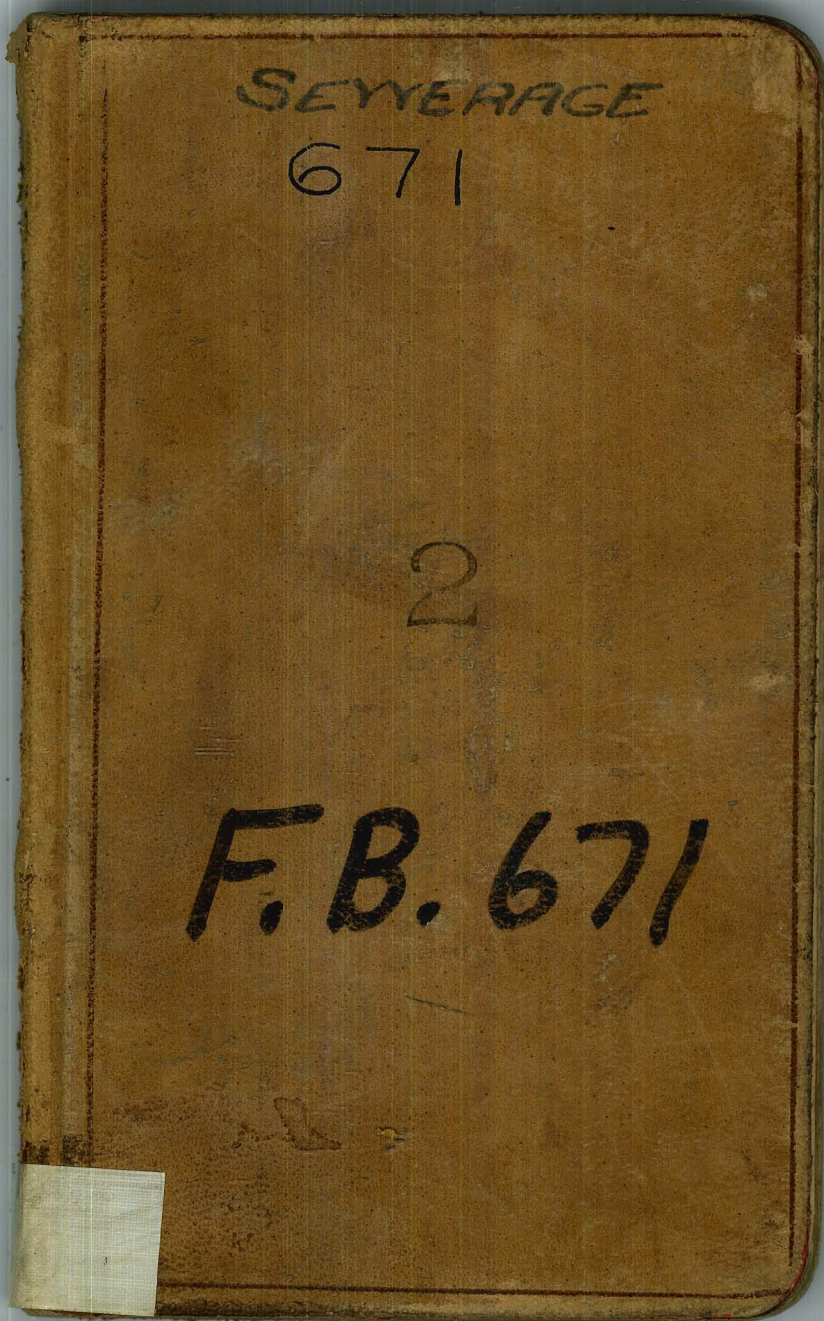


SEYERAGE

671

2

F.B. 671



671

Showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

275
1100
60

Hamilton
Pool
17
63

St + 49 - Clev

Bm	5.45	5.16	-0.29
+19.1		2.45	2.71
+31.6		2.96	2.70
+44.1		3.14	1.94
+56.6		2.95	2.21
+69.1		3.16	2.00
+75		3.24	1.92
1		3.40	1.36
+25		4.10	1.06
+50		4.52	0.94
+75		4.50	0.66
2		4.71	0.95
+25		4.65	0.51
+50		4.92	0.24
+75		4.98	0.14
3		5.16	0.00
#	4.54	3.73	5.97 -0.81
Bm		5.00	-1.27

PT

W L Atl

Chicago

W L bul

Levels on H St (Final)

Stn	+	H ₂	-	Elev
B.M.	3.14	4.85		-0.29
0				
+19.1				
+31.6				
+44.1				
+56.6				
+69.1				
+75				
1			3.50	1.35
+25			3.79	1.06
+50			4.01	0.84
+75			4.20	0.65
2			4.94	-0.09
+25			5.10	-0.25
+50			5.10	-0.25
+75			5.53	-0.68
3			5.41	-0.50
+25			5.50	-0.65
+50			5.35	-0.50
+75			5.15	-0.30
#	5.93	4.85	5.93	0.90
B.M.			6.10	-1.25

W & A St

Changed to S side ditch

W & California

3 + 97.5 bal st

S & California

Main Line C Atll

Sta	+	H ₂	-	Obs
		4.10		
BM	5.38	4.13		-1.25
4.25			4.46	-0.33
+25			4.47	-0.34
+50			4.52	-0.12
+75			4.08	+0.05
5			4.23	-0.10
+25			4.07	+0.06
+50			4.20	-0.07
+75			4.10	+0.03
6			4.24	-0.11
+25			4.04	+0.09
+50			3.87	+0.26
BM	5.92	5.12	4.93	-0.80 - 0.20
+75			4.86	0.26
7			4.63	0.49
+25			4.48	0.64
+50			4.41	0.71
+75			4.54	0.58
8			4.26	0.86
+25			4.19	0.93

-0.83

W L Arctic

S + 12.5 Arctic

C L Arctic

BM Arctic & H

Sta	+	HD	-	Obs
8+50		5.72	4.06	1.06
Bm	4.44	7.08	2.92	2.20
+75			5.89	1.19
9			5.37	1.71
+25			5.82	1.96
+50			5.01	2.07
+75			4.94	2.14
10			4.81	2.27
+25			4.32	2.76
+50			3.83	3.25
+75			3.64	3.40
11			3.41	3.67
+25			3.19	3.89
Bm	9.41	11.12	3.36	3.72 3.71
+50			7.13	3.99
+75			6.73	4.39
12			6.55	4.57
+25			6.40	4.72
+50			6.01	5.11
+75			5.75	5.37

W L India St
India & H St

S L India

W L Columbia St
Colum & H St

S L Colum

13	11.12	3.03	5.29
+25		4.93	6.19
+50		4.44	6.68
Blm	4.27	11.31	3.88
+625		4.66	6.85
13+72		4.57	6.94
+43		4.13	7.38
+9.4		4.40	7.11
14+4		4.24	7.27
+15		4.20	7.31
+25		4.02	7.49
+36		4.12	7.39
+46		5.46	6.05
+57		4.03	7.48
+67		3.90	7.61
18001		4.12	7.39
13+05		4.54	6.97
+30		4.72	6.79
+5.5		5.10	6.41
+88		5.49	6.02

H & State
PC

777

6 State Rep. H & I

6

Sta	+	HO	-	0
16405		11.51	5.75	5.75
+30			6.62	4.89
+55			6.33	5.18
+90			6.81	4.70
17705			7.42	4.09
Bm#	9.04	10.61	9.48	1.53
Bm			0.78	9.83 98.1
Bm	3.99	5.52		1.53
+20.01			1.76	3.76
+35.02			8.87	-3.35
+50.03			9.13	-3.61
+65.04			8.60	-3.08
+80.05			8.08	-2.56
+95.06			8.52	-3.00
18+10.07			8.96	-3.44
+25.08			8.79	-3.22
+40.09			8.80	-3.28
+63			5.50	0.02
+84			2.25	3.27
H	6.24	9.59	2.17	3.35

FC

Granite Monument Sta 6 & I
 W. m. & H

PT

Con I to Trust

Sta	+	HO	-	Clear
19+13		9.59	6.16	3.43
+38			6.00	3.59
+63			5.86	3.73
+88			5.05	4.54
B.M.	4.10	9.17	4.52	5.07
20+13			4.21	4.96
+38			4.29	4.89
+63			4.95	4.23
+88			4.56	4.61
21+13			4.11	5.06
+38			3.90	5.27
+63			3.74	5.43
+88			3.48	5.69
22+13			3.40	5.77
+38			3.39	5.78
+63			3.23	5.94
#	4.30	10.50	2.97	6.20
B.M.			4.75	5.75

W. L. Union St
 Union & I de aft post

E. L. Union St

W. L. Front St

Front & I

8 Nov 29 A Hamlin
A Hamlin

8

Main Line

Sta	+	HO	-	Elev
		12.782		
BM	1317	12.78		11.465'
25+20.5			5.05	7.73
+3271			4.84	7.94
+44.17			4.70	8.08
+54.63			4.66	8.12
+65.09			4.50	8.28
+75.53			4.45	8.33
+86.01			4.53	8.25
+99.17			4.71	8.07
26+06.93			4.69	8.09
+17.35			4.69	8.09
+27.85			4.80	7.98
+38.21			5.07	7.71
#	2840	10.401	5.021	7.761
+53			3.00	7.40
+74			3.46	6.94
27+03			3.92	6.48
+28			4.43	5.97
+53			5.09	5.31
+78			5.58	4.82

PC

I St.

Y 6x24

26+03 Y 4x24 W
26+36 Y 4x24 E
PT

26+53 Y 4x24 W

26+78 Y E

27+03 Y W 4x24, (10 cc 2) - 3

Nov 29 H. Hamilton
A. Hamilton

Main Live First St

9

No	+	HD	-	6 lev
28+05		10.401	6.04	4.36
+28			6.72	3.69
+53			7.28	3.12
28+69			7.69	2.71
Bm			7.38	3.02
Bm	4.751	7.771		3.015
+78.46			5.19	2.58
+86.92			5.58	2.19
+99.38			5.41	2.36
29+9.84			5.39	2.88
+2030			6.21	2.56
+30.76			6.25	2.62
+41.22			5.39	2.38
+51.68			6.38	2.39
+62.14			5.36	2.41
+72.60			5.07	2.70
183.06				
29+45.81			4.74	3.03
Bm			3.125	4.645
Bm	3.01	8.215		5.205
		8.22		

Dec 5

PC 28+67 (min-hole) (Dec 6)

PT

On J to 3rd

10 Dec 3 H Hamlin
 A Hamlin
 Main Line J to 3rd

Sta	+	HD	-	Elev
		8215		
30+11		8.22	3.29	2.93
+56			5.14	3.08
+61			5.12	3.10
+86	HD		5.02	3.20
31+11	832		3.09	3.23
+56			4.97	3.25
+61			4.27	3.95
+69	Y 6x24		2nd St.	
B.M.			3.57	4.645
B.M.	2.04	6.09	6.59	4.645
+86			2.62	4.07
32+11			3.18	3.51
+56			4.42	2.27
+61			5.05	1.64
+86			5.11	1.58
33+11			5.51	1.19
+56			5.22	1.47
+61			5.33	1.36
+86			5.30	1.39
+96			5.21	1.48
B.M.			3.33	3.36

31+68 Y 6x24 2nd St.

20215

PC

Dec 7 H Hamlin
A Hamlin
Main Lane

Sta	+	HI	-	Elev
BM	2,815	6.191		3.376
30	94+646		4.66	1.53
31	+16.92		5.15	1.04
32	+27.58		5.04	1.15
33	+37.84		4.88	1.31
34	+48.30		5.16	1.03
35	+58.76		5.16	1.03
36	+69.22		4.92	1.27
37	+79.68		4.88	1.31
38	+90.14		4.70	1.49
39	3570060		4.70	1.49
40	+10.06			
41	+13.81		4.56	1.63
BM			2.81	3.380
BM	1885	5.261		3.376
42	+39		3.97	1.29
43	+64		4.26	1.00
44	+89		4.50	0.76
45	36+14		4.75	0.51
46	+59		4.94	0.32

Lower J to J build

PT

gull to K

Sta	+	H.I.	-	Clear
36+69		5.261	5.23	0.03
+89			5.17	0.09
37+14			5.22	0.04
+39			5.28	-0.02
37+44			5.41	-0.15
BM			3.78	1.481
BM	3.68	5.17		1.49
+54.46			5.06	0.11
+64.92			5.01	0.16
+75.38			5.05	-0.12
+85.84			5.00	0.17
+96.30			5.17	1.50
38+06.76			5.45	-0.28
+17.22			5.30	-0.13
+27.68			4.79	0.38
+38.14			4.54	0.63
+48.60			4.65	0.52
+59.06				
46+51			4.63	0.54

PC

Bonne 3rd to K.

PT

13

12/27 94, 74
A, 74

K to 5th

13

Sta	+	HI	-	6 lev
	5.71	5.20		1.49
+87			4.26	1.00
39+12			4.41	0.79
+37			4.26	0.94
+62			4.24	0.96
B.M. 243	5.71			3.28
+87			4.54	1.17
40+07.5			4.47	1.24
+28			4.12	1.54
+53			4.38	1.33
B.M. 284	6.16	4.83		3.28 1.35
B.M. 108	4.51			7.43
+71			6.52	1.99
+96			6.51	2.00
41+16.5			6.81	1.70
+37			6.34	1.97
+62			5.93	2.58
+87			5.34	3.17
42+12			5.50	3.51
+57			4.41	4.10

40+67 4th St

14

K to 6th St

14

Sta + 9+9 - Elev

+62		851	3.93	4.54
+67			3.62	4.89
43+12			3.37	5.14
BM	6.37	9.65		3.28
43+12			4.50	5.15
BM	3.34	10.77		7.43
+37			5.63	5.14
+62			5.69	5.08
+97			5.54	5.23
44+12			5.92	4.85
+37			5.70	5.07
+62			5.49	5.28
+97			5.24	5.53
45+12			4.97	5.80
+37			4.67	6.10
+52	5.76	11.81	4.72	6.05
BM			3.29	4.53
BM	2.32	11.06		4.54
+6246			4.37	6.49
+72.92			4.34	6.62

W Line 5th St

DC

13

1477 Jan 21 1890
A. N.

15

Census R to 6th St.

St.	+	HO	-	Ch
+93.34		11.06	4.91	6.15
+93.84			4.69	6.37
46+0930			5.06	6.00
+14.76			5.17	5.89
+25.22			5.13	5.93
+35.64			5.05	6.01
+46.14			5.09	5.97
+56.60			5.00	6.56
+67.06				
46+6981			5.07	5.99
Blm			7.13	9.43
Bm 209	10.68			8.34
+95			4.96	5.57
47+10			5.29	5.34
+35			5.59	5.04
+60			5.91	4.72
+84			6.03	4.60
19+10			6.35	4.28
+33			6.70	3.93
+60			6.87	3.76

PT

Sum of to L 11

Sta	+ HD	-	Clear
+95	10.63	7.19	3.44
49+10		7.45	3.19
+25		7.42	3
#	3.76	7.52	6.57
BOM	5.82	7.74	3.92
49+17		4.50	3.29
+26		4.57	3.17
136		4.73	3.01
+45		3.65	2.09
+55		4.97	2.77
+64		4.94	2.76
+73		5.15	2.59
+83		5.12	2.62
49+92		5.11	2.63
50+07		5.07	2.68
BOM	134	8.98	4.64
		6.30	2.68
BOM	452	8.44	3.92
+17		3.66	2.78
+42		3.32	3.12

FC

FC

PT

S. St. C. of 7th

Sta.	+	HD	-	Clear
56+67		8.44	4.85	3.59
+92			4.74	3.70
57+17			4.31	4.13
+42			3.87	4.57
+67			3.74	4.70
+32			3.44	5.06
Ben	1.79	10.43		

26.6
 7.14
 3.50
 4.30
 1.28
 9

101.5
 174
 55

W line 7th St

7th St

O line 7th St

18

18

66.00

S St above 12

Sto + HD - Elev

Bm	2.17	11.57	9.40
66+01			
+13		2.07	4.50
+38		2.50	9.07
+63		4.66	6.91
+88		6.83	4.74
67+10		7.90	3.67
+38		8.41	3.16
+63		8.77	2.80
+88		9.09	2.48
68+18		8.44	2.73
+38		8.92	2.65
+63		8.45	3.12
+81	Y 13 St	7.75	3.82
+86		7.50	4.07
Bm		3.62	7.95
Bm	5.61	13.56	7.95

Dist above 13th St

Str	+	NO	-	Clear
69+13		13.56	7.26	6.30
+58			8.24	5.82
+63			7.69	5.87
+88			6.86	6.70
70+13			5.86	7.60
+38			5.37	4.19
+63			4.90	4.66
+84			4.89	4.67
Bm			6.00	7.56
				<u>7.57</u>

11.25 25

Nov 29 H Hamlin
A Hamlin

22

S. St. C 12th St

22

Sta	+	HI	-	Obs
Bm	359	12.99		9.40
66+13			3.54	9.45
+38			4.09	8.90
+63			6.16	6.83
+84			8.24	4.75
67+13			9.30	3.69
+38			4.42	3.17
+63			10.18	2.81
+84			10.50	2.49
68+13			10.38	2.61
+38			10.33	2.66
+63			9.94	3.01
+84	Y	6x18	13th St.	
+64			8.90	4.09
69+13			6.69	6.30
BM			5.035	7.955
BM	6.035	13.99		7.95
+38			8.66	5.33
+63			8.10	5.89
+84			7.29	6.70

Y 4x18 N

Back 1.75 = 686 + 79.3

23

Nov 29 H. Hamlin

A Hamlin

S St C 12th St

70+13	13.99	6.40	7.59
+38		5.80	8.19
+63		5.32	8.67
+84		5.31	8.64
71+13		5.61	8.34
+84		7.76	6.23
+61	Y 6x18	14th St	
+63		8.98	5.01
Bm		6.43	7.56
Bm	6.20 13.77		7.57
+84		7.75	6.02
72+13		6.66	7.11
+38		6.48	7.29
+63		6.36	7.41
+84		6.26	7.51
73+13		6.51	7.26
134		5.89	7.88
+63		5.26	8.51
+84		5.06	8.71
74+13		5.31	8.46

23

Y 4x18 N & S
70+37 N 20+38.5 S

Dec 2
71+13 Inspection 10x24 Y
71+60 6x106 Y 14 St

Dec 3
72+12 Y 4x18 N

24

S above 12th

24

Stk + H9 - Elev

74+58 1377 5.18 8.59

+63 5.23 8.54

+88 5.25 8.52

75+13 5.47 8.30

+38 5.31 8.46

+63 5.43 8.34

+84 4.11 9.66

76+13 2.64 11.13

+35 Y 6x18 15th St

+38 0.71 13.06

BM 2.55 11.22 11.23

BM 1041 21.64 11.23

+63 7.05 14.59

+84 5.91 15.73

77+13 5.66 15.98

+38 5.35 16.29

+63 5.40 16.24

+84 5.16 16.49

78+13 4.59 17.05

+38 3.36 18.29

+58 2.36 19.28

15th St

25

Sta	+	HJ	=	Clear
-----	---	----	---	-------

BM		21.69		
		31.0		18.54

26.

Main Line Road to Front

Stk	+	HI	-	B
BM	5.72	11.47		5.75
22+85			5.31	6.16
23+07			4.96	6.51
+29			4.95	6.52
+51			4.64	6.79
+76			4.43	7.04
24+01			4.14	7.28
+26			3.96	7.51
+51			3.59	7.94
+76			3.24	8.23
25+01			2.85	8.62
+17			2.71	8.76
BM	1.17	12.64		11.47 H.O
+33.71			4.10	8.59
+44.17			3.93	8.71
+54.63			3.92	8.72
+65.09			4.17	8.47
+75.53			4.21	8.43
+86.01			4.14	8.50

Front St

D.L. Front

$$\begin{array}{r} 12.64 \\ 4.93 \\ \hline 7.71 \text{ PC} \end{array}$$

$$FC = 25 + 20.5$$

For old line

27

27

Sto

Bm	5.91	10.98	5.07
+41.5		3.91	7.07
+01		4.07	6.91
+20		4.34	6.60

28

Sto	+	HJ	-	⊖	
Ban	2.66	11.30		8.64	
51+92			6.51	4.99	
52+12			6.07	5.23	
+92			5.67	5.63	
+62			6.20	5.10	
+72			5.42	5.44	
+97			5.54	5.92	
53+22			5.06	6.29	
+47			4.73	6.57	
+72			4.43	6.87	
+97			4.26	7.04	
54+22			4.26	7.04	
+47			4.03	7.27	
+72			3.43	7.47	
Bm	5.58	14.53	2.14	9.10	9.15
+92			6.49	7.64	
55+12			6.64	7.89	
+52			6.31	8.22	
+52			6.17	8.36	

W L 7th St.

7th St.

C L 7th

W L 8th St.

L C 8th St.

8th St.

C L 8th St.

57

25

29 - 25⁷⁷ St 6 8th

Sto	+	H2	-	6
55+77		14.53	6.01	8.52
56+02			5.48	9.05
+27			5.32	9.21
+52			4.95	9.69
+77			4.63	9.93
57+02			4.45	10.08
+27			3.96	10.57
+52			3.68	10.85
Bm			2.77	11.76
Bm	6.18	15.33		9.15
+72			4.33	10.98
+92			4.40	10.93
58+12			4.26	11.07
+32			4.02	11.31
+57			3.85	11.48
+42			3.71	11.62
59+07			3.34	11.99
+32			2.90	12.43
+57			2.57	12.76

W 2 9th St
 2 8th
 8th & 2

9th St

6 2 9th St

30 Main Line C. 8th

Str	+	HD	-	Obs
39+82		15.33	2.26	13.07
360+07			1.92	13.41
+32			2.24	13.09
Bm# 4119		18.45	1.07	14.26
Bm# 0.10		16.05	2.50	15.95
Bm			6.65	9.40
Bm 3.76		18.02		14.26
+52			4.93	13.09
+72			4.72	13.30
+92			4.75	13.27
61+12			4.57	13.65
+37			4.23	13.79
+62			4.04	13.98
+87			3.73	14.29
02+12			3.95	14.07
+37			3.37	14.65
+62			3.33	14.69
+87			3.30	14.72
63+12			3.34	14.68
Bm 1.13		17.08	2.07	15.95

W & 10th St

N W spk to 10th St

11 & 2 N E spk to

13 & 2 S W spk to

10th St

10th St

W & 11th St

3) Main Line C 11th

Sta + H₂ - Elev

	17.08		
63+32	2.25	14.83	
+32	2.23	14.85	
+72	1.66	15.42	
+92	1.78	15.80	
64+17	2.59	14.49	
+42	3.35	13.73	
+67	3.88	13.20	
+92	4.50	12.58	
65+17	5.03	12.05	
+42	5.77	11.31	
+67	6.70	10.38	
+92	7.26	9.82	
66+22	7.68	9.40	
B.M.	7.68	9.40	

11th St

C.D. 11th

W.D. 12th St

12th St

3

3

36

37

38 Gralles for Flushing Inlet

At + π - B

BM 250 4.03 153

Y 8.99 = 4.95

Set grade out side road

9.23 for Inlet pipe

lev - 3.20

+ 5.03 0.00

Bottom man-hole - 4.95

Inlet to man-hole - 4.70

12 x 34 17 x 30 Stable & L

Man-hole

Sta. Butt. Board Rod

25	13	5.3 $\frac{3}{4}$ "	+	8 $\frac{1}{4}$ "	6'		
+38	5	5 $\frac{1}{4}$ "		6 $\frac{3}{4}$ "			
+65	5	3 $\frac{3}{8}$ "		8 $\frac{5}{8}$ "	6/7	up	1 ft
+88	6	6 $\frac{7}{8}$ "		5 $\frac{1}{8}$ "	7/08	up	1 ft
76	13	8 00"		11	8/10	up	2 ft
+38	9	10 $\frac{3}{4}$ "	1'	1 $\frac{1}{2}$ "	10/11	up	1 ft
+60	11	4 $\frac{3}{4}$ "	-	4 $\frac{3}{4}$ "	11/12	up	1 ft
+88	12	5 $\frac{1}{8}$ "	-	5 $\frac{1}{8}$ "	12/13	up	1 ft
77	12	7"	+	5"			
+38	12	9 $\frac{1}{2}$ "		2 $\frac{1}{2}$ "			
+60	12	7 $\frac{3}{4}$ "		4 $\frac{1}{4}$ "			
+88	12	9 $\frac{3}{8}$ "		2 $\frac{5}{8}$ "	13/14	up	1 ft
58	13	5"		9"	14/15	up	1 ft
+38	14	4 $\frac{5}{8}$ "		7 $\frac{3}{8}$ "			
+38	15	5 $\frac{3}{8}$ "	-	5 $\frac{3}{8}$ "			

40 First bet. J & D

Itv

26+00	Y 4x24	W.	
26+36	" "	E.	
+53	" "	W.	
+74	" "	E.	
27+03	" "	W.	
+24	" "	E.	
+34	" "	W.	
+78	" "	E.	
28+04	" "	W.	lbe 5
+25	" "	E.	=
+55	" "	W.	
28+67	Mem-hole		lbe 6
+905	Y 4x24	E.	
30+25	lbe 7		
+57	Y 4x24	N.	
+535		S.	
31+17	lbe 8		
31+68	Y 6x24	2nd st	
32+11	lbe 15		
+96	" 16		

33+36	Y 4x24	N.	
33	" "	S.	
33+38	lbe 20		
33+46	Mem-hole		
34+27	Y 6x24	3rd st	
34+78	Y 4x24	W.	
35+12	Y 4x24	E.	
+34	Y	W.	
+67		E.	
+84	" "	W.	
36+13	" "	E.	
+35		W.	
+64		E.	
+89		W.	
37+14		E.	
+37		W.	
+44	Mem-hole		
+64	lbe 27		
38+25	Y N 4x24		
+27	Y S 4x24		

41

K to 6th

39+34

Dec 28

40+38

Y 6 X 24 N 4th St

+39

" " " 31st St

40+40

Dec 31

+71

Jan 2 1888

41+96

Jan 19

42+20

" 20

+54

" 21

41

$$\begin{array}{r} 41163 \\ 205 \\ \hline 40968 \end{array}$$

$$\begin{array}{r} 86 \\ 28 \\ \hline 68 \end{array}$$

Below 12th St

67+63 Y 4x18 N
 68+79 " 6x18 N 13th St
 70+37 " 4x18 N
 +39 " 4x14 S
 71+13 Inspection 10x18 Y
 +60 Y 6x18 14th St Dec 3
 72+12 " 4x18 N
 +38 Dec 5
 73+13 " 7x18 S
 +63 Dec 6
 74+13 Y 4x18 N
 75+13 4x18 S
 +63 Dec 7th
 +47 Y 4x18 N
 76+34 Y 10x14 15th St 76+44
 Jan 11 76+44 - 76+63
 " 12 77+13
 " 13 +45
 " 14 +75
 16 78+15
 17 +34 Jan 16 76+58

43 Curve Twist to J.

Stw R. d. Out Board

28+68	7	6.7 $\frac{3}{4}$	+ 4 $\frac{5}{8}$
+78.96		6.5 $\frac{5}{8}$	+ 6 $\frac{3}{8}$
+88.92		6.0 $\frac{2}{4}$	+ 11 $\frac{1}{4}$
+99.98		6.2 $\frac{3}{8}$	+ 9 $\frac{3}{8}$
29+9.89		6.2 $\frac{5}{8}$	+ 9 $\frac{3}{8}$
+20.50		6.4 $\frac{2}{4}$	+ 7 $\frac{1}{4}$
+30.76		6.4	+ 8
+41.22		6.2 $\frac{1}{8}$	+ 9 $\frac{7}{8}$
+51.68		6.2	+ 10
+62.14		6.2 $\frac{1}{8}$	+ 9 $\frac{7}{8}$
+72.60		6.5 $\frac{3}{8}$	+ 6 $\frac{5}{8}$
29+95.81		6.9 $\frac{1}{8}$	+ 2 $\frac{7}{8}$
30+11		6.7 $\frac{1}{2}$	+ 4 $\frac{1}{2}$
+36		6.8 $\frac{2}{8}$	+ 3 $\frac{1}{8}$
+61		6.8 $\frac{5}{8}$	+ 3 $\frac{5}{8}$
+86		6.9 $\frac{1}{2}$	+ 2 $\frac{1}{2}$
31+11		6.9 $\frac{3}{8}$	+ 2 $\frac{3}{8}$
+36		6.9 $\frac{1}{2}$	+ 2 $\frac{3}{4}$
+61	7	5 $\frac{1}{4}$	- 5 $\frac{1}{4}$
+86	7	6 $\frac{1}{8}$	- 6 $\frac{1}{2}$

PC

P.T.

44

Len Rod but Board

32+11	7	6 11 + 1	"	
+36		5 7 ³ / ₄ + 1 4 ¹ / ₄	— 1	
+61	6	4 11 ³ / ₄ + 1	4 ¹ / ₄	
+86		4 10 ³ / ₄ + 1 1 ³ / ₄	— 1	
35+11	5	4 5 ³ / ₄ + 6 ³ / ₄		
+36		4 8 ³ / ₄ + 3 ³ / ₄		
+61		4 6 ³ / ₄ + 5 ³ / ₄		
+86		4 6 ³ / ₄ + 5 ³ / ₄		
33+96		4 7 ¹ / ₂ + 4 ¹ / ₂		
34+64.6		4 7 ⁷ / ₈ + 4 ¹ / ₄	*	
+16.92		4 1 ⁷ / ₈ + 10 ⁶ / ₈		
+27.34		4 3 + 9		
+37.84		4 4 ³ / ₄ + 7 ¹ / ₄		
+48.30		4 1 ¹ / ₄ + 10 ³ / ₄		
+58.76		4 1 ¹ / ₈ + 10 ⁷ / ₈		
+69.22		4 3 ³ / ₄ + 8 ¹ / ₄		
+79.68		4 4 ¹ / ₈ + 7 ⁷ / ₈		
+90.14		4 6 + 6		
35+06.6		4 5 ⁷ / ₈ + 6 ¹ / ₈		

PC

X

45

45

4135
273

Sto Rod Clew Board

35+13.81	5	4, 7 3/8 + 4 5/8"
+39		4 2 3/4 + 9 1/4"
+64		3 10 3/4 + 1' 1 1/4"
+89		3 7 5/8 + 1' 4 3/8"
36+14		3, 4 1/8 + 1' 7 7/8"
+39		3 1 1/2 + 1' 10 1/2"
+64		2 9 1/2 + 2' 2 1/2"
+89		2, 9 7/8 + 2' 2 1/8"
37+14		2, 8 3/4 + 2' 3 1/4"
+39		2, 7 5/8 + 2' 4 3/8"
+44		2, 5 7/8 + 2' 6 1/8"
+54		2, 8 3/4 2, 8 1/4
+65		2, 9 1/4 2, 2 3/4
+75		2, 8 3/8 2, 8 3/4
+86		2 9 2 8
+96		2, 6 7/4 2, 5 1/4
38.07		2, 5 1/4 2, 8 3/4
+17		2 4 3/4 2, 7 1/4
+28		2, 10 3/4 2, 1 1/4
+38		3 1 3/4 1, 10 1/4

PT

PC

4:6 Along K to 8th

Stk	Rod	but	Board
49	5	3 0 1/4	1 11 7/8
61.86		3 0 1/8	1 11 7/8
+87		3 5 1/8	1 6 7/8
39+12		3 2 1/4	1 9 3/4
+37		3 5 5/8	1 9 3/4
+62		3 5 1/2	1 8 1/2
+87		3 5 1/2	1 6 1/2
40+07		3 5 3/4	1 6 1/8
+28		3 8 3/4	1 2 1/4
+53		3 6 1/4	1 5 3/4
+71		4 1 3/4	10 1/4
96		4 1 1/2	10 1/2
41+16		3 9 3/8	1 20 3/4
+57		4 0 5/8	11 3/4
+62		4 7 5/8	4 3/4
+97	6	5 2 1/4	- 2 1/4
42+12		5 5 7/8	+ 6 1/8
+57	7	6 0 1/2	- 0 1/2
+62		6 5 7/8	+ 6 1/4
+97		6 9 1/4	2 3/4

PT
K to 3-11

x

at 1'

at 1'

47

17

95412

▽

6

11 3/4

0 1/4

"

+37

+66

+89

48

3.20 6.48

328

6.48
2.43
8.91

48

-2.18
25
2.43

48

Stc + H₂O - Elev

BN 6.64 6.35 -0.29

0 3.84 2.47

+10 3.43 3.92

+20 4.06 2.29

+30 4.38 1.97

+40 4.78 1.57

+50 5.03 1.32

+60 5.72 0.63

0

4.21 3.14 m.l.

49

Y on Mana line

86 4x 24 Y^s1 15x 24 Y^s18 6x 24 Y^s2 8x 24 Y^s1 12x 24 Y^s

already land

2 6x 24 Y^s27 4x 24 Y^s

	+	HW-	-	Colo	
Bm	5.45	10.32		497	
o Bm#	2.97	9.55	3.54	6.38	
+ Bm#	42.84	5.614	9.02	133	
+ Bm#	5.40	6.119	4.895	0.719	
+ Bm#	5.852	5.477	6.480	-0.361	1498 N
+ Bm#	9.168	10.809	3.83	1.641	158 N
+ Bm#	7.88	17.136	1.553	9.256	
+ Bm#	0.217	20.583	2.77	14.366	
#	7.743	26.626	1.710	14.883	
Bm			1.475	25.151	
Bm					
o Bm	5.44	5.64		2.20	
Bm			6.44	-4.80	
Bm	2.94	5.14		2.20	
Bm	5.25	4.45	5.94	-0.80	netio
Bm#	5.14	3.83	5.70	-1.25	bal
Bm			4.16	-0.27	AtL

10 8 N
 -11 8 N N E Iron from old
 -12 8 N N W Iron from 11
 -13 8 N S E Iron from 11
 S E Sph in plug
 16 8 N S W Sph est. test
 16 8 N S W Sph est. test

Survey of 21, 22, 23, 24,

242 S & T Co

314
 125
 389

Batts

916
 389
 -0.27

