Level AND Contour Lines.

IN

City Park.

2

F.B. 620

620

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

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

PUBLISHED BY
EDWARD DENNY & CO.
DRAWING PAPER & MATERIAL, MATHEMATICAL INSTRUMENTS, ETC.,
STATIONERS AND PRINTERS,
SAN FRANCISCO, CAL.

MICROFILMED
DEC 14 1964

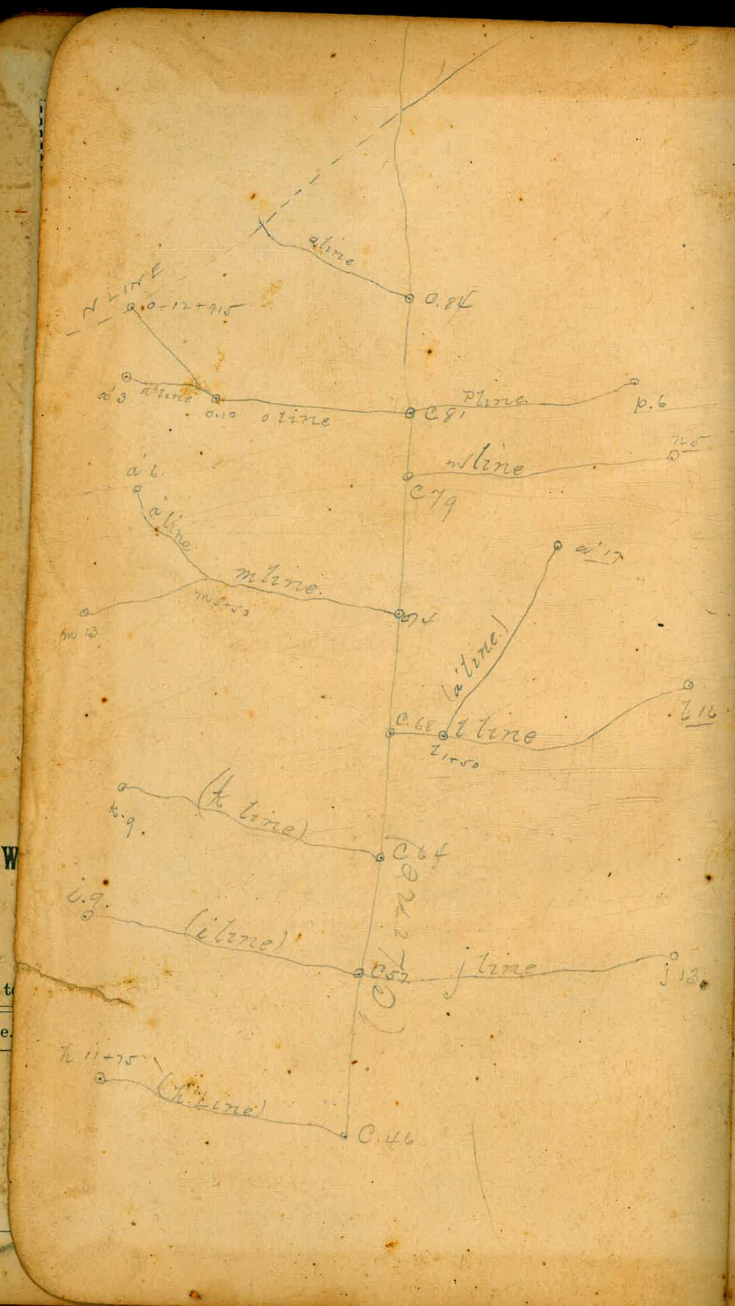
Table for Running on Slopes.

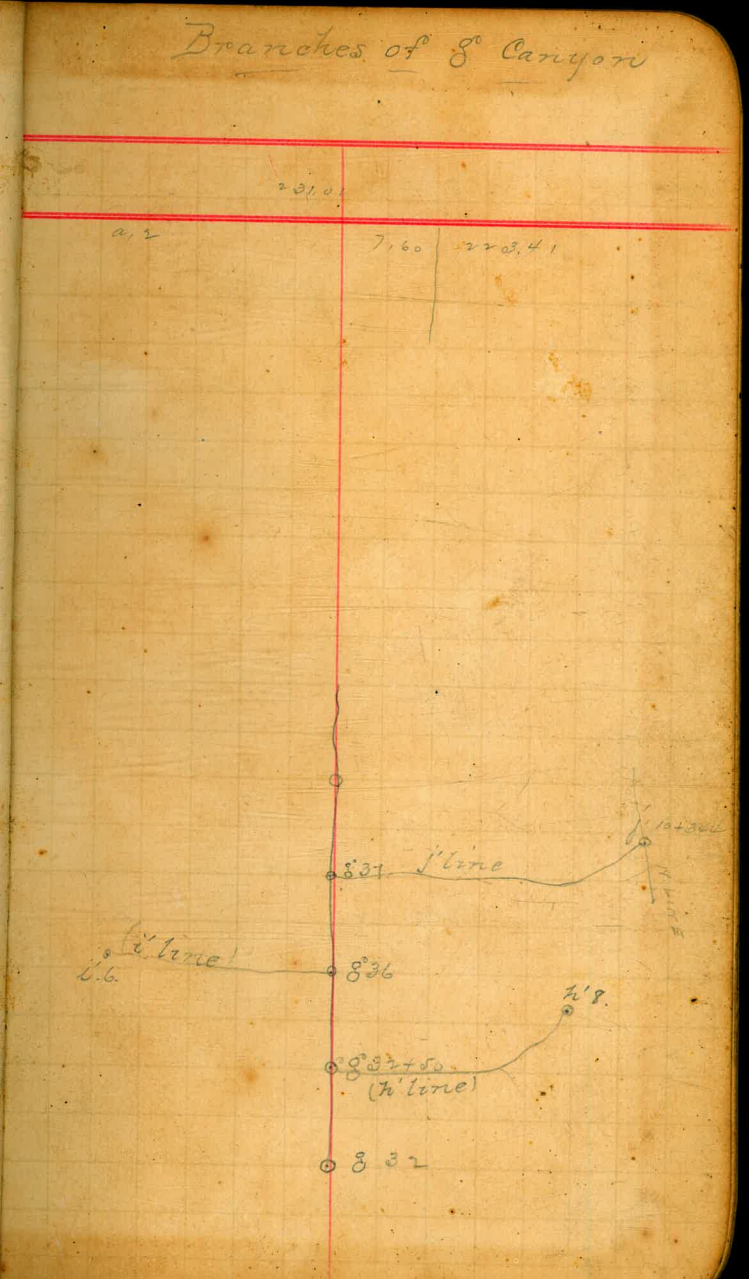
In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

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

Level Notes
for
Switzer Canyon
AND
Branches

R. T. Larthrop
F. Miller


a line
0.84
0-12+91.5
d'3
d line
0.10
o line
C.81
p line
p.6
n.5
a'6
n line
C.79
a' line
m line
m 13
m 8+50
a'17
(r line)
C.68
l line
l 16
l 1+50
k.9
(k line)
C.64
i.9
(i line)
C.52
j line
j 13
(C.52 line)
h 11+75
(h line)
C.46


Branches of g Canyon
231.01
a.2
7.60
203.41
g 37
j line
10+30
(i line)
i.6
g 36
h'8
g 37+50
(h line)
g 32

Lauther 9/12/57 Miller

Sta	+	HI	−	Elev		
BM				217.94		
	4.92	222.86				
h'-0+50			12.00	210.86		
h'.1.			8.00	214.86		
TP			0.39	222.47		
	10.56	233.03				
h'.2.			10.00	223.03		
h'2+50			6.00	227.03		
TP			0.78	232.25		
	11.12	243.37				
h'.3.			11.20	232.17		
h'3+50			7.10	236.27		
TP			0.07	243.30		
	10.93	254.23				
h'4			13.30	240.93		
h'5			2.50	251.73		
TP			0.02	254.21		
	12.25	266.46				
h'.6.			6.20	260.26		
h'7 TP			0.80	265.66		
	6.41	272.07				

Remarks

(h' of ℄ line)

n Top of Stake ℄ 36.

(℄ 32+50 = h'.0.) h'0+50 at mouth of Canyon

Lawthen 9/12/87 Miller

Sta	+	HI	-	Elev.		Remarks.
		272.07				
h' 8			2.80	269.27		
BM			2.38	269.69		on top of stake h' 8
		i' line of 8				
8 37 BM				221.02		8 36 = i' 0.
	10.21	231.43				
i' 0+70			12.50	218.93		
i' 1			8.80	222.63		
TP			0.30	231.13		
	12.13	243.26				
i' 1+50			13.20	230.06		
i' 2			11.70	231.56		
i' 2+50			7.20	236.06		
i' 3			2.30	240.96		
TP			0.30	242.96		
	12.20	255.16				
TP			0.70	254.46		
	12.05	266.51				
i' 4			11.00	255.51		
i' 5			3.50	263.01		
i' 6			0.40	266.11		
BM			0.02	266.49		on top of i' 6.

Lawther 9/13/87 Miller

Sta	+	HI	−	Elev		
837 BM				221.02		
	11.62	232.64				
j'0+60			11.10	221.54		
j'1			8.00	224.64		
j'2			3.20	229.44		
TP			0.32	232.32		
	11.87	244.19				
j'3			8.40	235.79		
j'4			2.40	241.79		
TP			0.07	244.12		
	12.29	256.41				
j'5			8.70	247.71		
j'6			0.90	255.51		
TP			0.09	256.32		
	12.89	269.21				
j'7			6.00	263.21		
TP			0.00	269.21		
	12.40	281.61				
j'8			12.00	269.61		
j'9			6.10	275.51		
TP			0.04	281.57		

Remarks.

(837 = j'0)

Lawther 9/18/87 Miller

Sta	+	HI	−	Elev		Remarks
TP				281.57		
	12.26	293.81				
j'10			10.90	282.91		
j'10+34.6			8.00	285.81		(a in North boundary)
	(h canyon of C. line)					
C46 BM				127.26		(C46 = h10)
	16.18	143.44				
h.1,			16.90	126.54		
h.2,			8.00	135.44		
TP			0.21	143.23		
	16.20	159.43				
h.3,			13.30	146.13		
h.4,			3.80	155.63		
TP			0.21	159.22		
	16.18	175.40				
h.5			11.20	164.20		
h.6			2.40	173.00		
TP			0.05	175.35		
	15.65	191.00				
h.7.			8.60	182.40		
TP			0.04	190.96		

Lawther 9/13/87 Mutter

Sta	+	HI	−	Elev.			Remarks	
TP				190.96				
	15.82	206.78						
L8			14.00	192.78				
L9			4.30	202.48				
TP			0.12	206.66				
	16.31	222.97						
L10			5.80	217.17				
TP			0.12	222.85				
	15.30	238.15						
L 10+50			8.30	229.85				
L 11+75				286.54			Elev of L 11+75 taken from e.11 at head of ar	
			(i of Canyon)					
C57 BM				147.19			(in Rock 1' left of stake) (C.57 = i.0.)	
	15.58	162.77						
i.1.			20.30	142.47				
i.2.			10.00	152.77				
TP			0.20	162.57				
	16.22	178.79						
i.3.			13.30	165.69				
i 4			2.60	176.19				
TP			0.06	178.73				

Laather 9/13/57 (Miller)

Sta	+	HI	−	Elev			Remarks	
TP				178.73				
	14.79	193.52						
L 5			3.30	190.22				
TP			0.03	193.49				
	16.05	209.54						
L 6			5.80	200.74				
TP			0.08	209.46				
	15.38	224.84						
L 7			9.10	215.74				
TP			0.05	224.79				
	16.11	240.90						
L 7+60			8.10	232.80				
TP			0.11	240.79				
	14.95	255.74						
L 8			11.00	244.74				
TP			0.11	255.63				
	14.62	270.25						
L 8+60			3.40	266.85				
TP			0.30	269.95				
	14.82	284.77						
L 9			1.50	283.27				
BM			0.98	283.79				

m top of stake L 9 at head of Canyon

(Lauthen) 9/20/87 (Miller)

Sta	+	HI	−	Elev			(Remarks)	
C.57 BM				147.19			(on Rock 1' left of stake C.57,) C57=J0	
	13.78	160.97						
j.1.			7.00	153.97			(Cen. of canyon	
TP			0.01	160.96				
	14.64	175.60						
j.2.			14.80	160.80				
j 3			8.60	167.00				
j 4			2.20	173.40				
TP			0.47	175.13				
	13.78	188.91						
BM			0.75	188.16			on Rock by second canyon of j.	
j 5			6.90	182.01				
TP			0.02	188.89				
	14.56	203.45						
j.6.			15.60	187.85				
j 7			5.20	198.25				
TP			0.31	203.14				
	16.13	219.27						
j 7+70			12.70	206.57				
j 8			8.10	211.17				
TP			0.80	218.47				

Lawthers 9/20/87 Miller

Sta	+	HI	-	Elev			Remarks
TP				218.47			
	14.71	233.18					
f 8+50			8.60	224.58			
f 9			2.50	230.68			
TP			0.11	233.07			
	15.42	248.49					
f 10.			7.10	241.39			
TP			2.17	246.32			
	14.92	261.24					
f 11			10.80	250.44			
f 12			3.30	257.94			
TP			0.95	260.29			
	12.49	272.78					
f 13.			8.50	263.98			
BM			6.68	266.10			BM = 8'.6.

Lawther 9/30/87 Miller

Sta	+	HI	−	Elev		Remarks (℄ of C. line)
C 65 BM				158.30		Top of stake C 65
	14.12	172.42				
K.1.			17.80	154.62		
k 1+75			14.70	157.72		Mouth Canyon
k 2.			7.00	165.42		
TP			0.01	172.41		
	16.12	188.53				
k 2+50			13.20	175.33		
k 3.			4.30	184.23		
TP			0.22	188.31		
	16.39	204.70				
k.4			6.20	198.50		
TP			0.15	204.55		
	16.21	220.76				
k5			6.60	214.16		
TP			0.15	220.61		
	15.73	236.34				
k5+50			12.20	224.14		
k.6.			1.20	235.14		
TP			0.21	236.13		
	16.02	252.15				

Larsthero 9/20/87 Miller

Sta	+	HI	−	Elev		Remarks
		252.15				
h 6+50			3.50	248.65		
TP			0.02	252.13		
	15.94	268.07				
h 7.			3.10	264.97		
TP			0.15	267.92		
	15.55	283.27				
h 8. TP			1.60	282.17		
	8.90	291.07				
h 9.			4.40	286.67		
BM			3.72	287.35		(on stake h9)

9/20/87

Sta	+	HI	−	Elev		
C.65 BM				158.30		
	14.03	172.33				
C.68			9.40	162.93		(C.68 = to)
t.1			4.00	168.33		
TP			0.14	172.19		
	13.72	185.91				
BM			10.30	175.61		(on side hill for a canyon)
t.2.			13.40	172.51		
t.3.			6.10	179.81		
TP			0.12	185.79		
	14.41	200.20				
t.4.			13.20	187.00		
t.5.			7.40	192.80		
t.6.			2.20	198.00		
TP			0.23	199.97		
	15.29	215.26				
t.7.			11.20	204.06		
t.8.			6.10	209.16		
TP			1.13	214.13		
	15.88	230.01				
t.9			14.80	215.21		

9/20/87

Sta	+	HI	−	Elev	
		230.01			
l 9+70			8.00	222.01	
l 10.			5.00	225.01	
TP			0.08	229.93	
	16.11	246.04			
l 11			12.90	233.14	
TP			0.22	245.82	
	15.93	261.75			
l 12			19.60	242.15	
l 12+50			15.20	246.55	
l 13.			7.70	254.05	
TP			2.00	259.75	
	12.88	272.63			
l 14			10.70	261.93	
l 15			4.90	267.73	
l 16.			3.40	269.23	
BM			2.80	269.83	(on stake l 16)

9/21/87

Sta	+	HI	−	Elev		
BM				175.61		on side hill for a canyon
	13.13	188.74				
a'0.			19.40	169.34		(a'0 = t 1+50)
a'1.			14.50	174.24		
a'2.			9.00	179.74		
a'3.			4.90	183.84		
TP			0.09	188.65		
	16.10	204.75				
a'4			16.70	188.05		
a'5			11.10	193.65		
a'6.			6.10	198.65		
TP			0.32	204.43		
	16.10	220.53				
a'7.			16.50	204.03		
a'8			12.70	207.83		
a'8+80			8.50	212.03		
a'9.			6.50	214.03		
TP			0.03	220.50		
	16.20	236.72				
a'10			17.50	219.22		
a'11			11.80	224.92		

9/21/87

Sta	+	HI	−	Elev	
		236.72			
a'12			6.90	229.82	
TP			0.09	236.63	
	15.21	251.84			
a'12+50			18.50	233.34	
a'13			15.60	236.24	
a'14			7.60	244.24	
TP			0.17	251.67	
	15.44	267.11			
a'15			13.10	254.01	
TP			0.88	266.23	
	8.60	274.83			
a'16			6.30	268.53	
a'17			3.50	271.33	
BM			3.03	271.80	on stake a'17.

9/21/87

Sta	+	HI	−	Elev		
BM				174.40		m Rock near @ 76 or 76+40
	16.22	190.62				
m.1.			15.30	175.32		(@ 74 = m.o.)
m 2			8.90	181.72		
m 2+25			7.00	183.62		mouth of Canyon.
m 3.			2.80	187.82		
TP			0.20	190.62		
	15.90	206.32				
m 4			13.80	192.52		
m 5			8.20	198.12		
m 5+50			7.60	198.72		
BM+TP			0.22	206.10		for a'
	14.59	220.69				
m.6			16.60	204.09		
m.7.			9.70	210.99		
TP			0.02	220.67		
	16.40	237.07				
m 8			17.70	219.37		
m 8+70			7.00	230.07		
m.9.			3.70	233.37		
TP			0.00	237.07		

9/21/87

Sta	+	HI	−	Elev.
TP				237.07
	15.94	253.01		
m 9+50			6.70	246.31
TP			0.28	252.73
	16.30	269.03		
m 10			9.70	259.33
TP			0.04	268.99
	15.38	284.37		
m 11			7.50	276.87
m 12			1.60	282.77
TP			0.60	283.77
	13.10	296.87		
m 13			5.90	290.97
	a' of m			
BM				206.10
	14.15	220.25		
a' 1			11.90	208.35
a' 2			1.30	218.95
TP			0.42	219.83
	15.65	235.48		
a' 3			3.60	231.88

9/21/87

Sta	+	HI	−	Elev		
		235.48				
TP			1.00	234.48		
	16.11	250.59				
a'4			0.00	250.59		
BM				282.77		
	10.11	292.88				
a'4+60			17.50	275.38		
a'5			11.90	280.98		
a'6.			0.50	292.38		
		W Canyon of C.				
C80 BM)				182.29		
	10.62	192.91				
TP			0.04	192.87		
	16.24	209.11				
W0+80			15.5	193.61		
W.1.			13.2	195.91		
W.2.			1.40	207.71		
TP			0.20	208.91		
	14.30	223.21				
TP			0.28	222.93		
	16.10	239.03				

Elev taken from mt Canyon

head of canyon

mouth of Canyon

9/21/87

Sta	+	HI	-	Elev		
		239.03				
W3.			12.60	226.43		
TP			1.80	237.23		
	15.32	252.55				
W4			13.40	239.15		
W5			2.60	249.95		
			(9/21/87)	0 of ℄ line		
BM. C80				182.29		
	14.72	197.01				
0-1.			14.80	182.21		
0-1+70			11.00	186.01		
0-2			5.80	191.21		
TP			0.05	196.97		
	16.22	213.19				
0-3			15.40	197.79		
0-4			7.40	205.79		
0-5			3.80	209.39		
TP			0.65	212.54		
	16.31	228.85				
0-6			11.80	217.05		
0-7.			3.1	225.75		

head of Canyon.

(C.81 = 0.-0)

mouth of Canyon.

Lanthi 9/22/87 Miller

Sta	+	HI	−	Elev			Remarks
		228.85					
TP			0.23	228.62			
	16.10	244.72					
0-8			12.40	232.32			
0-9			5.60	239.12			
TP			0.21	244.51			
	16.35	260.86					
0-10			15.60	245.26			
0-11			1.60	259.26			
TP			0.08	260.78			
	15.80	276.58					
0-11+60			6.80	269.78			
TP			0.02	276.56			
	15.12	291.68					
0-12			10.10	281.58			
0-12+91.5	.60			292.28			(4.38 m R boundary = 0-12+91.5)
		a' of alinc					
a'-1				260.86			
a'-1+60				275.78			
a'2				284.68			
a'3				291.68			

(Lamther) 9/22/03 (Miller)

Sta	+	HI	−	Elev			Remarks.
BM	0.80			182.29			
	16.32	198.61					
P0+60			7.20	189.41			mouth of canyon
p.1			5.30	193.31			
TP			0.20	198.41			
	15.72	214.13					
p.2			14.00	200.13			
p.3			0.30	213.83			
TP			0.07	214.06			
	15.60	229.66					
TP			0.21	229.45			
	16.32	245.77					
p.4			17.90	227.87			
TP			0.18	245.59			
	15.42	261.01					
p.5			12.50	248.51			
p.6			0.60	260.41			head of canyon

Lanthier 9/22/87 Miller

Sta	+	HI	−	Elev			Remarks
BM				198.84			(10' S. of N. line)
	10.65	209.49					
2.1			23.40	186.09			
2.2			15.80	193.69			(Mouth of Canyon)
2.3			7.00	202.49			
2.3+50.7			1.40	208.09			
		(9/23/87)					
Canyon D and its Branches.							
BM				80.82			Sp. in Tel. pole East of C12
	12.50	93.32					
D1			11.70	81.62			(C12 = D0)
D2			10.30	83.02			
D3			8.70	84.62			
D4			7.20	86.12			
D5			5.90	87.42			
D6			4.40	88.92			
D7			3.00	90.32			
BM (TP)			2.48	90.84			on Stake D7
	14.12	104.96					
D8			12.50	92.46			
D9			10.20	94.76			

Lanther 9/23/87 Miller

Sta	+	HI	−	Elev			Remarks.
		104.96					
D.10			9.00	95.96			
D.11			7.60	97.36			
D.12			6.10	98.86			
BM			3.40	101.56			Sp. in Teleg. pole opps. b. canyon.
D 13			3.90	101.06			
D 14. TP			2.12	102.84			
	10.03	112.87					
D. 15			8.40	104.57			
D. 16			6.80	106.07			
D. 17			4.90	107.97			
D 18			2.50	110.37			
TP			0.08	112.79			
	14.55	127.34					
D.19			16.00	111.34			
D 20			13.40	113.94			
BM			12.73	114.61			on Stake D.20
D 21.			12.20	115.14			
D 22			10.10	117.24			
D. 23.			8.20	119.14			
D. 24			6.10	121.24			

Lanches 9/28/67 Miller

Sta	+	HI	−	Elev			Remarks
		127.34					
D.25			4.40	122.94			
TP			0.60	126.74			
	14.03	140.77					
D.26			16.30	124.47			
D27			13.90	126.87			
BM			9.31	131.46			Near 027 for side cangon (plug on ground)
D28			10.30	130.47			
D29			9.40	131.37			
D30			8.00	132.77			
D31			6.00	134.77			
BM			6.07	134.70			Rock off from stake
D32			3.40	137.37			
TP			0.53	140.24			
	20.40	160.64					
D33			12.20	138.44			
D34			9.30	141.34			
D35			6.50	144.14			
BM			5.98	144.66			
D36			5.50	145.14			
D37			4.30	146.34			

Lambert 9/25/87 Miller

Sta	+	HI	−	Elev		Remarks
		150.64				
D38			2.40	148.24		
BM (TP)			1.94	148.70		(on Stake D38.)
	16.25	164.95				
D39			13.80	151.15		
D40			6.30	158.65		
D41			11.60	153.35		
D42			9.50	155.45		
D43			6.00	158.95		
D44			4.80	160.15		
D45 TP			2.55	162.40		
	9.81	172.21				
D46			7.40	164.81		
D47			6.50	165.71		
BM			6.00	166.21		(on stake D47)
D48			5.20	167.01		
D49 TP			2.75	169.46		
	7.66	177.12				
D50			5.20	171.92		on East Boundary of Park
BM			4.45	172.67		BM – Stake 116 on East Boundary

Lanthy 9/9/87

Sta	+	HI	−	Elev			Remarks
							a of D
BM (II.7)				90.84			
	13.30	104.14					
a-1			12.90	91.24			(D.4 = a-0)
a-1+50			9.40	94.74			(mouth of canyon)
a-2			4.00	100.14			
TP			0.13	104.01			
	15.58	119.59					
a-3			7.20	112.39			
TP			0.08	119.51			
	16.02	135.53					
a-4			10.00	125.53			
a 4+50			1.70	133.83			
TP			0.04	135.49			
	15.14	150.63					
a-5			6.90	143.73			
TP			0.02	150.61			
	16.16	166.77					
a-5+40			10.90	155.87			
TP			0.16	166.61			
	15.50	182.11					
a 5+70			18.60	163.51			

Lamthes 9/24/87 Miller

Sta	+	HI	−	Elev		Remarks
						a of D
		182.11				
a-6			7.70	174.41		
TP			0.17	181.94		
	15.79	197.73				
a-6+25			10.20	187.53		
TP			0.19	197.54		
	15.03	212.57				
a-6+50			13.70	198.87		
a-7			3.20	209.37		
BM			2.83	209.74		on stake a-7 at head of canyon
	b of D Canyon					
BM				101.56		Dikes poley opposite Sp. on b canyon
	16.62	118.18				
b-1			15.10	103.08		
b-2			9.40	108.78		
b-3			4.70	113.48		
TP			0.82	117.36		
	14.94	132.30				
b-4			14.20	118.10		
b-5			7.70	124.60		
TP			0.21	132.09		

(Lantern Line) 9/21/87 (Miller Rod)

Sta	+	HI	−	Elev			Remarks
TP				132.09			
	15.32	147.41					
b-6			13.40	134.01			
b-7			14.10	133.31			
BM			4.12	143.29			(on a rock opp b 7 on side hill)
b-8			11.80	135.61			
b-9			4.40	143.01			
b-10 (TP)			0.03	147.38			
	15.44	162.82					
BM			5.54	157.28			rock on hill side near a b.10
b-11			10.40	152.42			
b-12			3.70	159.12			
TP			0.25	162.07			
	14.80	177.87					
b-13			10.40	167.47			
BM			0.90	176.97			(" " " " " " a b 13)
b-14			5.10	172.77			
TP			0.08	177.79			
	13.70	191.49					
b-15			12.90	178.59			
BM			1.80	189.69			" " " " " b-15

(Lambert Lind) (9/21/87) (Miller Rod)

Sta	+	HI	−	Elev			Remarks
		191.49					
b-16			9.50	181.99			
b-17			5.30	186.19			
TP			0.17	191.32			
	14.25	205.57					
b-18			7.40	198.17			
b-18+77.6			2.80	202.77			on East Boundary of Park
		a' of b					
BM				143.29			
	16.00	159.29					on side hill opp b-7
a'-1			16.20	143.09			
a'-2			7.50	151.79			
TP			0.02	159.27			
	16.41	175.68					
BM			1.24	174.44			
a'3			14.60	161.08			on side hill for canyon a,
a'3+80			8.00	167.68			
a'4			4.60	171.08			
TP			0.05	175.63			
	15.24	190.87					
a4+50			12.10	178.77			

(Lawton Level) 9/21/87 (Miller Rod)

Sta	+	HI	−	Elev		Remarks
		190.87				
a'5			6.20	184.67		
TP			0.39	190.48		
	16.00	206.48				
a'5+50			9.60	196.88		
TP			0.18	206.30		
	15.05	221.35				
a'6			6.00	215.35		
TP			1.44	219.91		
	10.83	230.74				
a'7			3.00	227.74		head of Canyon
		(a₁ of a')				
BM				174.44		(on side hill for a₁)
	15.41	189.85				
a₁-0+50			19.00	170.85		
a₁-1			9.30	180.55		
a₁-1+30			0.40	189.45		
a₁-2	Elev taken from head of a' Canyon			223.04		
a₁-2+10				226.14		head of Canyon

Lamches Girl 9/25/50 (Miller Rod)

Sta	+	HI	−	Elev	Remarks
					b' of b
BM				150.28	
	11.82	168.60			Rock in side hill near b.10
b'-1.			18.50	150.10	
b'-1+50			10.60	158.00	
TP			0.11	168.49	
	15.52	184.01			
b'2			17.90	166.11	
b'2+40			5.90	178.11	
TP			0.22	183.79	
	16.05	199.84			
b'3.			6.20	193.64	
TP			0.10	199.74	
	15.79	215.53			
b'3+60			7.70	207.83	
TP			0.02	215.51	
	14.11	229.62			
b'4			10.70	218.92	
b'4+30			4.50	225.12	head of Canyon

9/26/87

Sta	+	HI	−	Elev			c' of b
BM				157.28			on side hill near ∆ b-10
	15.19	172.47					
c'-1			15.90	156.57			
c'-2			3.50	168.97			
TP			0.44	172.03			
	16.20	188.23					
c'2+70			5.10	183.13			
c'-3	3.70			191.93			(Elev c'-3 is 3.70 higher than HI.)
c'-4	Elev taken from b' carry on at head.			221.42			
c'-4+60				225.62			
	(d' of b)						
BM				176.97			rock on side hill near ∆ b.13.
	13.71	190.68					
d'0+50			25.40	165.28			
d'-1			18.50	172.18			
d'1+50			6.80	183.88			
TP			0.18	190.50			
	15.33	205.83					
d'2			12.70	193.13			
TP			0.30	205.53			
	14.95	220.48					

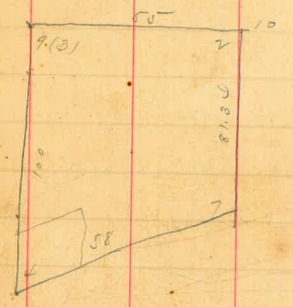
9/26/07

Sta	+	HI	−	Elev.		
		220.48				
d' 2+50			13.50	206.98		
TP			0.55	219.93		
	5.30	225.23				
d' 4			2.00	223.23		
		(l' of b)				
BM				176.97	rock on side hill near b.13.	
	16.22	193.19				
l' 0+60			18.40	174.79		
l' 1.			10.30	182.89		
l' 1+50			0.00	193.19		
l' 2				211.63		
l' 3	Elev taken from head of d' canyon			220.13		
		(f' line of b)				
BM				189.69	rock " " " b.15	
	15.80	205.49				
0+60					mouth of canyon	
f' 1.			19.00	186.49		
f' - 2			4.60	200.89		
TP			0.37	205.12		
	15.55	220.67				

9/14/87

Topog. Survey Lot 15 Ex. Mission

Sta	+	HI	−	Elev		
BM.0.				300.00		NW Cor of Lot
	5.02	305.02				
1			3.40	301.62		
2.			5.36	299.72		
TP			11.62	293.40		
	0.02	293.42				
3.			4.40	289.02		
4			16.40	277.02		But of Drain
5.			19.20	274.22		" " "
TP.			11.90	281.52		
	2.25	283.77				
6.			7.40	276.37		
BM			6.71	277.06		on top of stake 6.
7			11.70	272.07		
TP.			11.09	272.77		



Topog. Survey of Lot 15. (Ex Mission)

9/14/87

Sta	+	HI	−	Elev			Remarks
T.P				272.77			
	0.13	272.90					
8			11.60	261.30			
TP or BM			10.62	262.28			on Top of stake 8.
	2.01	264.29					
8+95			20.10	244.19			Bot. of Drain
9			17.20	247.09			
10			8.00	256.29			
11			8.20	256.09			
12			3.20	261.09			Bot " "
13.			12.70	251.59			
BM or TP			11.01	253.28			on Post near 13.
	0.73	254.01					
14			9.10	244.91			
TP			11.38	242.63			
	0.23	242.86					
15			6.80	236.06			
TP			11.62	231.24			
	0.68	231.92					
15+90			11.70	220.22			Bot of ravine.
16			10.40	221.52			

9/14/87

Topog. Survey Lot 15 Ex Mission

Sta	+	HI	−	Elev		(Remarks)
		231.92				
16+80			9.80	222.12		
17			7.00	224.92		1' South of road on canyon
TP			0.38	231.54		
	11.42	242.96				
TP			0.21	242.75		
	11.21	253.96				
18			9.90	244.06		
BM			9.12	244.84		top of stake 18.
TP			0.21	253.75		
	11.00	264.75				
TP			0.21	264.54		
	7.34	271.88				
19			7.30	264.58		
19+50			3.00	268.88		
20			4.00	267.88		
TP			11.82	260.06		
1	0.91	260.97				
21			7.20	253.77		
22 TP			11.38	249.59		
	0.41	250.00				

Topog Survey Lot 15. Ex Mission

9/15/07

Sta	+	HI	−	Elev.			Remarks
		250.00					
23			7.80	242.20			
TP			11.39	238.61			
	0.80	239.41					
24			12.50	226.91			
24+30			17.00	222.41			Bot of Drain.
24+50			12.00	227.41			
TP			0.07	239.34			
	10.46	249.80					
25			8.00	241.80			
26			4.10	245.70			
B.M			3.33	246.47			on Top of stake 26.
TP			12.00	237.80			
	0.30	238.10					
27			4.10	234.00			
28			11.90	226.20			
28+40			14.70	223.40			Bot of Drain.
29			6.60	231.50			
TP			0.07	238.03			
	11.25	249.28					
29+75			4.60	244.68			Top of hill

Topog. Survey Lot 15 Ex. Mission

9/14/87

Sta	+	HI	−	Elev			Remarks
		249.28					
30			5.70	243.58			
BM			4.97	244.31			Top of Stake 30.
31			7.40	241.88			
TP			0.20	249.08			
	10.97	260.05					
32			7.50	252.55			
33			6.40	253.65			
34			6.20	253.85			
35			7.80	252.25			
TP			11.78	248.27			
	1.29	249.56					
36			9.00	240.56			
BM			8.32	241.24			on top of stake 36.
TP			11.92	237.64			
	0.09	237.73					
37			9.90	227.83			Bot of Drain.
38			2.20	235.53			
39			11.80	225.93			
39+80			15.80	221.93			" " "
BM.			5.21	232.52			Near 40. on post.

Topog. Survey Lot 18 Ex Mission

9/14/97

Sta	+	HI	−	Elev		
		237.73				
40			3.10	234.63		
TP			0.02	237.71		
	11.94	249.65				
TP			0.15	249.50		
	8.22	257.72				
41			6.80	250.92		
42			4.10	253.62		
43			6.40	251.32		
45			7.80	249.92		
44 + 94.4			9.60	248.12		
46			9.90	247.82		
B.M			8.80	248.92		

Remarks

m Tch of (S) 44 + 94.4

9/26/87

Sta	+	HI	−	Elev		
		220.69				
S' 2+50			14.10	206.59		
S' -3.			3.10	217.59		
		c of D. canyon				
BM				114.61		
	11.07	125.68				
C. 0+80			14.80	110.88		
C-1			14.40	111.28		
C-2			7.50	118.18		
C-3			1.70	123.98		
TP			0.10	125.58		
	14.21	139.79				
C-4			12.00	127.79		
C-5			7.40	132.39		
TP			0.09	139.70		
	16.30	156.00				
C-6			16.70	139.30		
C-7			11.00	145.00		
C-8			4.50	151.50		
TP			0.04	155.96		
	13.98	169.94				

mouth of canyon

9/26/87

Sta	+	HI	−	Elev
		169.94		
C. 9			11.30	158.64
C-10			5.60	164.34
TP			0.10	169.84
	16.18	186.02		
C-11			15.50	170.52
C-12			4.00	182.02
TP			0.05	185.97
	13.65	199.62		
C 12+50			13.80	185.82
C-13			10.40	189.22
C-13+50			5.60	194.02
TP			0.34	199.28
	15.90	215.18		
C-14			14.30	200.88
C-14+50			5.40	209.78
TP			0.00	215.18
	14.88	230.06		
C-15			13.20	216.86
C-16			0.70	229.36
BM			0.00	230.06

On stake C-16

9/26/87

Sta	+	HI	−	Elev		Remarks
BM				131.46		
	13.10	144.56				plug in ground near ⊙ 27
d-1			16.60	127.96		
d-2			10.80	133.76		mouth of canyon
d-3			8.10	136.46		
d-4			6.50	138.06		
d-5			4.40	140.16		
BM + TP			0.23	144.33		on side hill for Canyon d
	11.35	155.68				
d-6			13.00	142.68		
d-7			11.50	144.18		
d-8			9.00	146.68		
BM + TP			0.44	155.24		" " near ⊙ d.8
	10.82	166.06				
d-9			15.90	150.16		
d-10			11.70	154.36		
d-11			10.50	155.56		
B.M			0.12	165.94		on side hill near ⊙ d.11
d-12			8.40			
TP			2.60	163.46		
	11.69	175.15				

9/26/87

Sta	+	HI	-	Elev.		Remarks
		175.15				
d-13			12.60	162.55		
d-14			9.90	165.25		
d-15			3.90	171.25		
TP			2.94	172.21		
	8.62	180.83				
d-15+72			0.80	180.03		in East Line of Park
		9/27/87 (a' of d)				
BM				144.33		
	12.95	157.28				
a'0+60			14.00	143.28		
a'1.			10.00	147.28		
TP			0.04	157.24		
	14.32	171.56				
a'-2			14.00	157.56		
TP			0.48	171.08		
	14.52	185.60				
a'-3			15.80	169.80		
TP			0.08	185.52		
	14.55	200.07				

9/27/[illegible]

Sta	+	HI	−	Elev		
		200.07				
a'-4			9.30	190.77		
TP			0.51	199.56		
	15.52	215.08				
a' 4+50			11.40	203.68		
TP			0.08	215.00		
	16.01	231.01				
a'-5			14.60	216.41		
a'-5+50			2.50	228.51		
		(a, of a')				
		Elev taken from a' canyon				
a'-3				169.80		
a_1-3+60				175.50		
a_1-1				185.60		
a_1-2				223.41		

9/27/87

Sta	+	HI	−	Elev
BM				155.24
	10.68	165.92		
6'0+80			13.00	152.92
6'-1			10.90	155.02
6'-2			2.10	163.82
TP			0.26	165.66
	16.39	182.05		
6'-3			10.10	171.95
TP			0.27	181.78
	15.34	197.12		
6'3+70			17.00	180.12
6'-4			12.70	184.42
TP			0.30	196.82
	14.72	211.54		
6'4+50			20.90	190.64
6'5			3.90	207.64
TP			0.11	211.43
	12.94	224.37		
6'6			6.00	218.37

on side hill near ⊿ 58.
(d-8 = 6'-0)

9/27/87

Sta	+	HI	−	Elev		c' of d.
BM				165.94		w side hill near ⊥ d-11.
	15.15	181.09				
c'-1			11.30	169.79		
TP			0.18	180.91		
	16.07	196.98				
c'-2			14.40	182.58		
TP			3.21	196.77		
	15.25	212.02				
c'-3			10.40	201.62		
TP			1.13	210.89		
	9.06	219.95				
c'-4			7.50	212.45		
c'-5			3.70	216.25		
			l of D			
BM				131.46		plug in ground near ⊥ D-29
T	14.15	145.61				
l-1			17.30	128.31		
l-2			4.10	141.51		
TP			0.53	145.08		
	15.19	160.27				
l-3			5.40	154.87		

9/27/87

Sta	+	HI	−	Elev		
		160.27				
TP			0.10	160.17		
	15.90	176.07				
e-4			5.90	170.17		
TP			0.28	175.79		
	15.70	191.49				
e-5			1.60	189.89		
TP			0.15	191.34		
	16.39	207.73				
TP			0.10	207.63		
	15.85	223.48				
e-6			13.60	209.88		
TP.			0.01	223.47		
	16.69	240.16				
e-7			9.40	230.76		
e-8			5.40	234.76		

Milton (Cont.)

Oct. 10/87

Sta	+	HI	−	Elev	B.M.	Remarks
			g of D line			
	14.20	148.90			134.70	Rock 7' from Δ D 31.
g.1.			2.78	146.12		
	16.16	162.22				
g.2.			1.20	161.02		
T.P.			0.07	162.05		
	15.92	177.97				
T.P.			0.40	177.57		
	16.10	183.67				
g.3			13.00	170.67		
T.P			0.10	183.57		
	15.77	199.34				
g.3+50			13.80	185.54		
T.P.			0.00	199.34		
	15.77	215.11				
g.4.			13.30	201.81		
T.P.			0.16	214.95		
	8.00	222.95				
g.5			4.10	218.85		
			3.54	219.41	219.41 B.M.	top of stake Δ g.5.

Miller (Level)

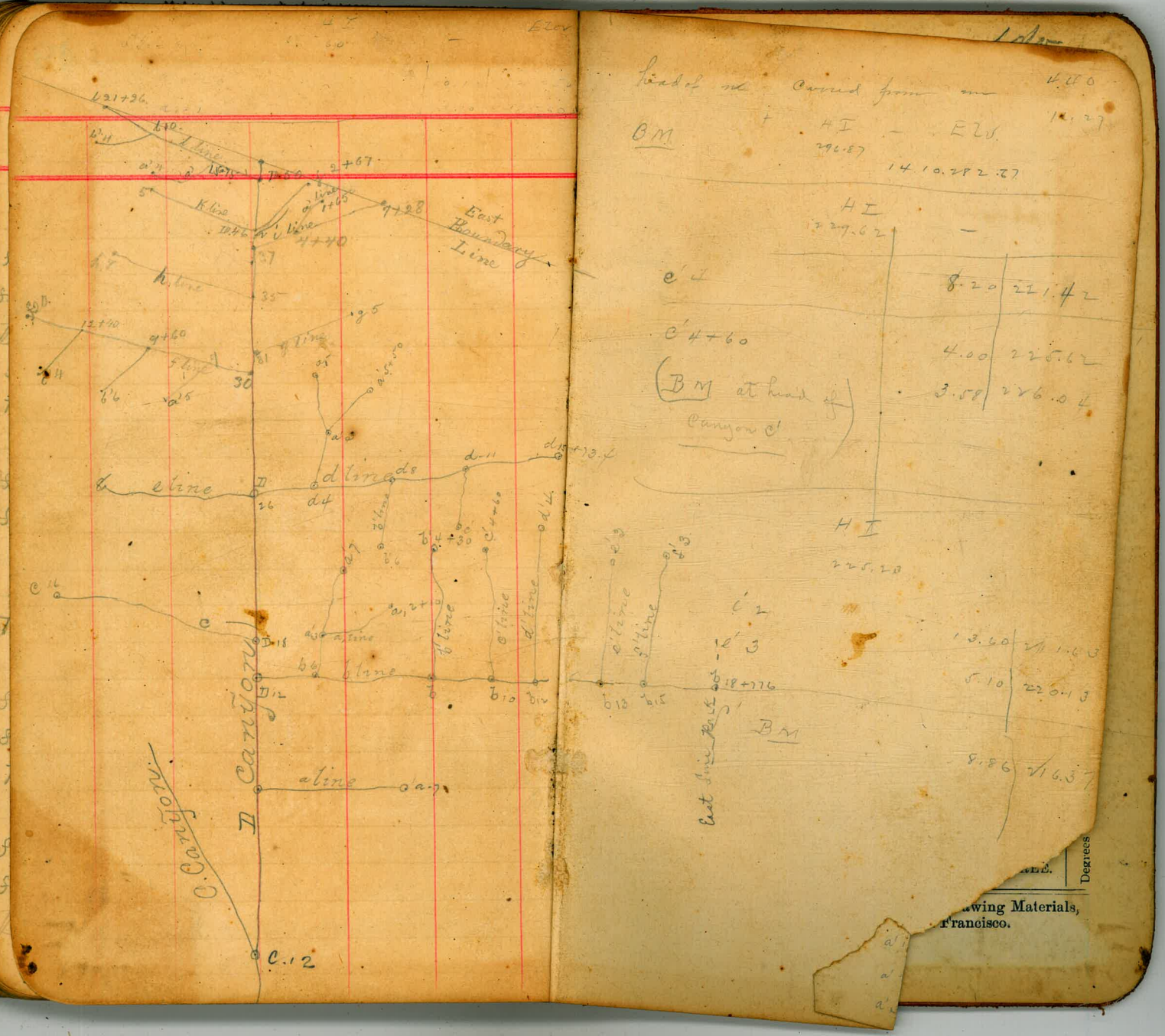
Oct 10/87

Δ	+	HI	—	Elev.		Remarks
			S of D line			
	13.05	147.75				
S1			13.70	134.05		
S2			6.40	141.35		
T.P			0.15	147.60		
	6.50	154.10				
S.3			9.40	144.70		
S4			6.10	148.00		
BM			2.56	151.54	151.54	BM on top of stake 6' right
	16.10	167.64				
S.5			14.20	153.44		
S.6			10.30	157.34		
S 7			4.60	163.04		
T.P.			3.47	164.17		
	13.87	178.04				
BM			2.25	175.79	175.79	BM on rock left of S.7.
S.8			10.50	167.54		
S 9			8.00	170.04		
S 9+60			5.30	172.74		
BM.			0.40	177.64	177.64	BM on rock left of Δ 9+60
	16.20	193.84				
S 10			18.60	175.24		

Miller (Level)

Oct 10/87

△	+	H.I.	—	Elv.			Remarks
S 11		193.84	14.70	179.14			
S.12			8.90	184.94			
S.12+40			6.50	187.34			
BM			1.47	192.37	192.37		BM on south left of 12+40
S.13			13.60	190.24			
T P			0.40	193.44			
	16.30	209.74					
S 14			11.80	197.94			
S.15			3.40	206.34			
	15.60	221.94					
S.16			10.40	211.54			
T.P.			0.27	221.67			
	14.83	236.50					
S.17			17.20	219.30			
S 18			2.70	233.80			
T. P.			2.50	234.00			
	12.10	246.10					
S 19			7.40	238.70			
S 20			3.10	243.00			
BM			2.40	243.70	243.70		BM on top of △ S.20


East Boundary Line
D Canyon
C. Canyon
C.12
BM
HI
Elev
Degrees
Drawing Materials,
Francisco.

TRAVERSE TABLE FOR TRANSIT BOOK,

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

Published by Edward Denny & Co., Stationers, Drawing Materials, Mathematical Instruments, Etc., San Francisco.