

BARRETT'S DAM

CONTOURS

14

LEVEL NOTES

WZ

Table showing the difference of latitude and departure in
running 100 yds. of any course from 1 to 60 minutes.

MICROFILMED

031

JAN 9 1965

MINUTES	LKS.	MINUTES	LKS.	MINUTES	LKS.
1	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 2/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

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
0		0		0		0	
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

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Contours of Barrett Dam site, on axis
from 180' to 340' Contour, E^{3/4} W. side
Pages 45 - 49

Contours right ^{and} left from above
Pages 1 - 17

Contours of Proposed new axis from
surface of water in creek up to the
600' Contour on E and W sides
Pages 18 - 25

Contours right ^{and} left from above
Page 26 - 41

Contours on Barrett Dam site

left and right
East side

Note - left is up stream right is down stream on axis

10.50 210.50 200.00

10.5

4.02 204.43 200.01

1.6 200.0

Contours on Barrett Dam
East side of Cottonwood
Creek.

180 ft Contour

9.8

189.8 180.

- 1 L
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 1 R
- 2
- 3
- 4
- 5
- 6
- 7
- 8

9.8

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

Left Side = up stream R. Side = down stream
Level set up on west side

Abandoned

March 16th 1897

190 Contour

	9.80		199.80	190
1	L	9.80		"
2		"		"
3	L	"		"
4		"		"
5	"	"		"
6		"		"
7	"	"		"
8		"		"
9	"	"		"
10		"		"
11	R			"
12	"			"
13	"			"
14	"			"
15	"			"
16	"			"
17	"			"
18	"			"

200 ft. Contour

	10.6		210.6	200.
1	L	10.6		"
2	"	"		"
3	"	"		"
4	"	"		"
5	"	"		"
6	"	"		"
7	"	"		"
8	"	"		"
9	"	"		"
10	"	"		"
11	"	"		"
12	"	"		"
13	"	"		"
14	11.9		211.9	200.0
15	R	11.9		"
16	"	"		"
17	"	"		"
18	"	"		"
19	"	"		"
20	"	"		"
21	"	"		"
22	"	"		"
23	"	"		"
24	"	"		"
25	"	"		"
26	"	"		"
27	"	"		"
28	"	"		"
29	"	"		"
30	"	"		"
31	"	"		"
32	"	"		"
33	"	"		"
34	"	"		"
35	"	"		"
36	"	"		"
37	"	"		"
38	"	"		"
39	"	"		"
40	"	"		"
41	"	"		"
42	"	"		"
43	"	"		"
44	"	"		"
45	"	"		"
46	"	"		"
47	"	"		"
48	"	"		"
49	"	"		"
50	"	"		"
51	"	"		"
52	"	"		"
53	"	"		"
54	"	"		"
55	"	"		"
56	"	"		"
57	"	"		"
58	"	"		"
59	"	"		"
60	"	"		"
61	"	"		"
62	"	"		"
63	"	"		"
64	"	"		"
65	"	"		"
66	"	"		"
67	"	"		"
68	"	"		"
69	"	"		"
70	"	"		"
71	"	"		"
72	"	"		"
73	"	"		"
74	"	"		"
75	"	"		"
76	"	"		"
77	"	"		"
78	"	"		"
79	"	"		"
80	"	"		"
81	"	"		"
82	"	"		"
83	"	"		"
84	"	"		"
85	"	"		"
86	"	"		"
87	"	"		"
88	"	"		"
89	"	"		"
90	"	"		"
91	"	"		"
92	"	"		"
93	"	"		"
94	"	"		"
95	"	"		"
96	"	"		"
97	"	"		"
98	"	"		"
99	"	"		"
100	"	"		"

210' Contour

Sta	B.S.	I.S.	H.S.	Elev.
---	1.8		221.8	220
1	L	11.8		"
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8		"		"
9		"		"
10	L	"		"
0		"		"
1	R	"		"
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8	R	"		"

220' Contour

	1.8		231.8	230.0
1	L	11.8		220.0
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8		"		"
9		"		"
10		"		"
11		"		"
12		"		"
13	L	"		"
	2.0		232.0	230.0
1	R	12.0		220.0
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7	R	"		"

Mar 18th 1897

230' Contour

March 18th 1897

	2.1		242.1	240.0
1	L	12.1		230.0
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8		"		"
9		"		"
10	L	"		"
0		"		"
<hr/>				
1	R	"		"
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7	R	"		"

240' Contour

March 19th 1897

	1.9		251.9	250.0
1	R	11.9		240.0
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7	R	"		"
0		"		"
1	L	"		"
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8		"		"
9		"		"
10		"		"
11	L	"		"

March 19th 1897

250' Contour

	19	261.9	260.0	
1	L		11.9	250.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11	L		"	"
12			"	"
13	R		"	"
14			"	"
15			"	"
16			"	"
17	R		"	"

260' Contour

	17	271.7	270.0	
1	R		11.7	260.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8	R		"	"
9			"	"
10	L		"	"
11			"	"
12			"	"
13			"	"
14			"	"
15			"	"
16			"	"
17			"	"
18			"	"
19			"	"
20	L		"	"

270' Contour

March 20th 1897

	2.1	282.1		280.0
1 L			12.1	270.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13 L			"	"
0 R			"	"
1			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9 R			"	"

	2.0	280' Contour	292.0	290.0
--	-----	--------------	-------	-------

1 R		12.0		280.0
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7 R		"		"
0 L		"		"
1		"		"
2		"		"
3		"		"
4		"		"
5		"		"
6		"		"
7		"		"
8		"		"
9		"		"
10		"		"
11		"		"
12		"		"
13 L		"		"

March 20th 1897

290' Contour

	19	311.9		300.0
1	L		11.9	290.0
2				"
3				"
4				"
5				"
6				"
7				"
8				"
9				"
10				"
11				"
12	L			"
1	R			"
2				"
3				"
4				"
5				"
6				"
7				"
8	R			"

300' Contour

1	R	12.0	312.0	12.0	310.0	300.0
2						"
3						"
4						"
5						"
6						"
7						"
8	R					"
9						"
10						"
11	L					"
12	L					"

310' Contour

March 22nd 1897

	2.3	322.3		320.0
1 L			12.3	310.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 R			"	"

320' Contour 320.0

	2.2	322.2	12.2	320.0
1 R	2.2	322.2	12.2	320.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13 L			"	"

March 22nd 1897

330' Contour

	2.0	242.0		340.0
1 L			12.0	230.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13			"	"
14 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 R			"	"

340' Contour 340.0

1 R	12.1	352.1	12.1	340.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13			"	"
14 L			"	"

End of Contours last side

Contours on Barnett Dam
West side Cottonwood Creek

Level set up on East side

Mar. 22nd 1897

Left side = down stream Right side = up stream

180' Contour

	2.2	192.2	190.0		180.0
1 R			12.2		
2			"		"
3			"		"
4			"		"
5 R			"		"
0			"		"
1 L			"		"
2			"		"
3			"		"
4			"		"
5			"		"
6			"		"
7			"		"
8			"		"
9			"		"
10			"		"
11			"		"
12			"		"
13			"		"
14 L			"		"

190' Contour

	2.0	202.0	200.0		190.0
1 L			12.0		
2			"		"
3			"		"
4			"		"
5			"		"
6			"		"
7			"		"
8			"		"
9			"		"
10			"		"
11			"		"
12 L			"		"
0			"		"
1 R			"		"
2			"		"
3			"		"
4			"		"
5			"		"
6			"		"
7 R			"		"

200' Contour

March 23rd 1897

	12.1	212.1	200.0
1 R			200.0
2			
3			"
4			"
5			"
6 R			"
7			"
8			"
9			"
10			"
11			"
12			"
13			"
14			"
15 L			"

pan of boulders, stake set 3' below grade

210' Contour

	11.8	221.8	210.0
1 L			210.0
2			
3			"
4			"
5			"
6			"
7			"
8			"
9			"
10			"
11			"
12			"
13			"
14 L			"
15			"
16 R			"
17			"
18			"
19			"
20 R			"

220' Contour

	11.6	231.6	220.0
1 R		11.6	220.0
2		"	"
3		"	"
4		"	"
5 R		"	"
6		"	"
7		"	"
8		"	"
9		"	"
10		"	"
11		"	"
12		"	"
13		"	"
14		"	"
15		"	"
16 L		"	"

230' Contour

	12.3	242.3	230.0
1 L		12.3	230.0
2		"	"
3		"	"
4		"	"
5		"	"
6		"	"
7		"	"
8		"	"
9		"	"
10		"	"
11		"	"
12		"	"
13		"	"
14 L		"	"
15		"	"
16 R		"	"
17		"	"
18		"	"
19		"	"
20 R		"	"

March 23rd 1897

no stake set

stake set 2' below grade

240' Contour

	12.3	252.3	240.0	
1 R			12.3	240.0
2			"	"
3			"	"
4			"	"
5			"	"
6 R			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12 L			"	"

250' Contour

	12.0	262.0	250.0	
1 L			12.0	250.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6 R			"	"

March 23rd 1897

face of cliff, stake set 1' above grade

Note - 260 280 290 feet
Contours were set with transit

	12.4	270' Contour 282.4	270.0	
1 R				270.0
2				"
3				"
4				"
5 R				"
0				"
1 L				"
2				"
3				"
4				"
5				"
6				"
7				"
8				"
9				"
10				"
11				"
12				"
13 L				"

	11.8	300' Contour 311.8	300.0	
1 L				300.0
2				"
3				"
4				"
5				"
6				"
7				"
8				"
9				"
10				"
11				"
12				"
13 L				"
0				"
1 R				"
2				"
3 R				"

April 1st 1897
 Note - 260 280 and 290' contours
 were set with transit

310' Contour

	12.1	322.1	310.0
1 R			310.0
2 R		12.1	"
3 R		"	"
0 L		"	"
1 L		"	"
2 L		"	"
3 L		"	"
4 L		"	"
5 L		"	"
6 L		"	"
7 L		"	"
8 L		"	"

320' Contour

	12.3	332.3	320.0
1 R			320.0
2 R		12.3	"
0 L		"	"
1 L		"	"
2 L		"	"
3 L		"	"
4 L		"	"
5 L		"	"
6 L		"	"
7 L		"	"
8 L		"	"
9 L		"	"

330' Contour

	12.2	342.2		330.0
1 L			12.2	330.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11 L			"	"
0			"	"
1 R			"	"
2 R			"	"

340' Contour

	12.1	352.1		340.0
1 R			12.1	340.0
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10			"	"
11			"	"
12			"	"
13 L			"	"

350' Contour (W.S.)

April 1st 1897

B.M. on E.S.

9.63 352.28 342.65

0.16 352.12

9.84 361.96

- 1 L
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15 L

12.0

350.0

"
"
"
"
"
"
"
"
"
"
"
"
"
"

"
"
"
"
"
"
"
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"
"
"
"
"
"

Contours on proposed new axis Barrett Dam from

		190.00
0.77	190.77	
	0.8	190.0
	10.8	180.0
B.M.	0.64	190.13
o	12.23	178.54
0.76	179.30	
	9.3	170.0
o	12.24	167.06
0.86	167.92	
	7.9	160.0
o	12.22	155.70
-0.16	155.54	
	5.5	150.0
o	12.01	143.53
0.52	144.05	
	4.0	140.0
o	12.31	131.74
0.18	131.92	
	1.9	130.0
	11.9	120.0
o	12.24	119.68
0.34	120.02	
	10.0	110.0
o	12.21	107.81

upper of water in creek to Contour E₃ & W sides

T.P. at 190' Contour on original axis of dam on east side

St stake marked C190 E.S.

" " C180

On telephone pole east side

st stake marked C170 E.S.

" " C160 E.S.

" " C150 E.S.

T.P. on top of road bank

St Stake marked C140 on upper slope of road bank

" " C130 both sides

" " C120 " "

" " C110 " "

			107.81
0.09	107.90		
		7.9	100.0
0		12.28	95.62
0.34	95.96		
		6.0	90.0
0		12.22	83.74
0.14	83.88		
		3.9	80.0
0		12.25	71.63
0.15	71.78		
		1.8	70.0
0		12.24	59.54
0.78	60.37		
		0.4	60.0
		10.4	50.0
0		12.22	48.15
0.27	48.42		
		8.4	40.0
0		11.92	34.50
0.41	36.91		
		6.9	30.0
0		11.49	25.22
1.07	26.29		
		6.3	20.0

set stake marked C 100 both sides

" " " C 90 " "

" " " C 80 " "

" " " C 70 " "

" " " C 60 " "

" " " C 50 " "

" " " C 40 " "

On Boulder 12' up stream from axis on boulder

set stake marked C 30 both sides

" " " C 20 " "

	26.27		
1.05	12.75	10.59	115.70
		47	110.0
		9.86	106.87
2.20	109.09	9.1	100.0
		10.65	98.44
0.73	99.17	7.7	91.5
		10.21	88.96
1.94	90.90	7.74	82.96
Back up creek from new axis to			
			100.00
2.22	102.22	0.06	102.16
5.75	107.91	11.65	96.26
			82.96
			<u>13.30 =</u>

at stake marked C 10 on west side
 " " " " C 0 " " "
 " " " " C -10 " " "

Bottom on boulder on east side of creek
 surface of water on new axis in bed of creek
 surface of water below the cement wall
 T.P. on 0 contour of new axis line March 25th 1897

surface of water at foot of cement wall
 Difference of surface of water

Note see next page for continuation of contour levels 20

Sta B.S. Int. 7.S. H.S. Elev

(X) (X)

Continued from Page 20

March 26th

				190.13
10.44	200.57		0.6	200.0
o			0.59	200.18
10.53	210.71		0.7	210.0
o			0.51	210.20
11.20	221.40		1.4	220.0
o			0.14	221.26
10.33	231.57		1.6	230.0
o			0.51	231.08
10.46	241.54		1.5	240.0
o			0.26	241.28
10.75	252.03		2.0	250.0
o			0.47	251.56
10.25	261.81		1.8	260.0
o			0.60	261.21
10.73	271.94		1.9	270.0
			0.56	271.38

B.M. On telephone pole
 st stake marked C 200 E.S. side
 " " " C 210 " "
 " " " C 220 " "
 T.P. Peg near A 220
 st stake marked C 230 "
 " " " C 240 "
 " " " C 250 "
 " " " C 260 Both sides of Cañon
 " " " C 270 " " "

			271.38
10.48	281.80		
"		19	280.0
"		0.17	281.49
10.60	292.29		
"		23	290.0
"		0.12	292.17
10.57	302.74		
"		27	300.0
"		0.71	302.03
10.28	312.31		
"		23	310.0
"		0.27	312.04
10.58	322.62		
"		2.6	320.0
"		0.07	322.55
10.45	333.00		
"		3.0	330.0
"		0.11	332.89
10.58	343.47		
"		3.5	340.0
"		0.02	343.45
10.68	354.13		
"		4.1	350.0
"		0.15	353.98

1st stake marked C 280 Both sides of Cañon

" " " C 290 " " "

" " " C 300 " " "

" " " C 310 " " "

" " " C 320 " " "

" " " C 330 " " "

" " " C 340 " " "

" " " C 350 " " "

			353.98
10.46	364.44		
		1.4	360.0
		0.02	364.42
11.00	375.42		
		5.4	370.0
		0.19	375.23
10.60	385.83		
		5.3	380.0
		0.00	385.83
10.56	396.39		
		6.4	390.0
		0.18	396.21
10.46	406.67		
		6.7	400.0
		0.07	406.60
10.06	416.66		
		6.7	410.0
		0.06	416.60
8.96	425.56		
		5.6	420.0
		0.62	424.94
10.72	435.66		
		5.7	430.0
		0.27	435.39

Set stake marked C360 Both sides of Caum
T.P. on rock

" " C370 " "

" " C380 " "

T.P. on rock

" " C390 " "

" " C400 " "

" " C410 " "

" " C420 " "

" " C430 " "

			435.39
10.93	446.32		
0		1.3	440.0
		0.25	446.07
10.85	456.92		
0		4.9	450.0
		0.18	456.74
10.60	467.34		
0		7.3	460.0
		0.11	467.23
10.49	477.72		
0		7.7	470.0
		0.02	477.70
10.64	488.34		
0		8.3	480.0
		0.14	488.20
10.96	499.16		
0		7.1	490.0
		0.66	498.50
10.25	508.75		
0		8.7	500.0
		1.92	506.83
		0.03	508.72
10.95	519.67		
		9.7	

set stake marked C 440

both sides of Cairn

" " " C 450 (stake on west side 1.0 below grade)

" " " C 460 " " " "

" " " C 470 " " " "

" " " C 480 " " " "

" " " C 490 " " " "

" " " C 500 " " " "

B.M. on Boulder

" " " C 510 " " " "

	519.67		
0		0.08	519.59
	10.60		530.19
		10.2	520.0
0		0.18	530.01
	10.97		540.98
		11.0	530.0
0		0.40	540.58
	0.08		546.66
		0.7	
0		0.61	546.05

1st stake marked C520 Both sides of Canon

" " " C530 " " " "

" " " C540 " " " "

B.M. On Boulder (2146.05)

Contours on Rapids near Danville
at Barrett

-20' Contour West side

	2.60	1592.60	1590.00
1 L		12.60	1580.00
2		"	"
4		"	"
5 L		"	"

-10' Contour

1 L	2.60	1590.00	
2		"	"
3		"	"
4 L		"	"
0		"	"
1 R		"	"
2 R		"	"

0 Contour

	6.07	1606.07	1600.00
1 R		6.07	1600.00
2		"	"
3		"	"
4 R		"	"
0		"	"
1 L		"	"
2		"	"
3		"	"
4		"	"
5 L		"	"
	0.79	1603.28	
	6.25	1611.53	
	0.10	1611.43	
	10.52	1621.95	

Right = down stream
Left = up "

26

April 2nd 1897

-10' Contour

-20' Contour

-10' "

0 Contour

10' Contour WEST

1621.95

1 L 12.0 1610.0

2 " "

3 " "

4 " "

5 L " "

6 " "

7 " "

8 " "

9 " "

10 " "

11 " "

12 " "

13 " "

14 " "

15 " "

16 " "

17 " "

18 " "

19 " "

20 " "

21 " "

22 " "

23 " "

24 " "

25 " "

26 " "

27 " "

28 " "

29 " "

30 " "

31 " "

32 " "

33 " "

34 " "

35 " "

36 " "

37 " "

38 " "

39 " "

40 " "

41 " "

42 " "

43 " "

44 " "

45 " "

46 " "

47 " "

48 " "

49 " "

50 " "

20' Contour

1630.0

18 1631.8

1 R 11.8 1620.0

2 " "

3 R " "

4 " "

5 L " "

6 " "

7 " "

8 " "

9 " "

10 " "

11 " "

12 " "

13 " "

14 " "

15 " "

16 " "

17 " "

18 " "

19 " "

20 " "

21 " "

22 " "

23 " "

24 " "

25 " "

26 " "

27 " "

28 " "

29 " "

30 " "

31 " "

32 " "

33 " "

34 " "

35 " "

30' Contour

1640.0

1 L 19 1641.9 19 1630.0

2 " "

3 " "

4 " "

5 " "

6 " "

7 L " "

8 " "

9 R " "

10 " "

11 R " "

12 " "

13 R " "

14 " "

15 R " "

16 " "

17 R " "

18 " "

19 R " "

20 " "

21 R " "

22 " "

23 R " "

24 " "

40' Contour WEST

	12.2	1652.2		1640.0
1 R			12.2	1640.0
2			"	"
3			"	"
4 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10 L			"	"

50' Contour

	12.0	1662.0		1650.0
1 E			12.0	1650.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9			"	"
10 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5 R			"	"

60' Contour WEST

	12.0	1672.0		1660.0
1 R			12.0	1660.0
2			"	"
3			"	"
4			"	"
5 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9 L			"	"

70' Contour

				1670.0
	11.8	1681.8		
1 L			11.8	1670.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4 R			"	"

80° Contour

WEST

12.1 1692.1

1680.0

1 R

12.1 1680.0

2

4 R

0

1 L

2

3

4

5

6

7

8 L

90° Contour

12.2 1702.2

1690.0

1 L

12.2 1690.0

2

3

4

5

6

7

8 L

0

1 R

2

3

4 R

April 3rd 1897

100' Contour WEST

	12.0	1712.0		1700.0
1 R			12.0	1700.0
2			"	"
3			"	"
4 R			"	"
0			"	"
			14.3	1697.7
			12.3	1699.7
1 L			12.0	1700.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 L			"	"

} line of stakes on old fence line

110' Contour

	11.9	1721.9		1710.0
1 L			11.9	1710.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 L			"	"
1 R			"	"
2			"	"
3			"	"
4 R			"	"

	120'	Contour	WEST
	12.0	1732.0	1720.0
1 R			12.0 1720.0
2			" "
3 R			" "
0			" "
1 L			" "
2			" "
3			" "
4			" "
5			" "
6 L			" "

	130'	Contour	
	12.1	1742.1	1730.0
1 L			12.1 1730.0
2			" "
3			" "
4			" "
5			" "
6			" "
7 L			" "
0			" "
1 R			" "
2			" "
3 R			" "

	140'	Contour	
	12.2	1752.2	1740.0
1 R			12.2 1740.0
2			" "
3 R			" "
0			" "
1 L			" "
2			" "
3			" "
4			" "
5			" "
6			" "
7 L			" "

150' Contour WEST

	11.9	1761.9		1750.0
1 L			11.9	1750.0
2			"	"
3			"	"
4			"	"
5			"	"
6 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5 R			"	"

160' Contour 1760.0

	11.9	1771.9		1760.0
1 R			11.9	1760.0
2			"	"
3			"	"
4			"	"
5 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5			"	"
6 L			"	"

170' Contour

	11.8	181.8		1770.0
1 L			11.8	1770.0
2			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5 R			"	"

Sta 0 set 4' above grade

180' Contour WEST

	12.0	1792.0		1780.0
1 L			12.0	1780.0
1 R			"	"
2 L			"	"
3			"	"
4			"	"
5			"	"
6			"	"
7			"	"
8			"	"
9 L			"	"

190' Contour

	12.2	1802.2		1790.0
1 L			12.2	1790.0
2			"	"
3			"	"
4			"	"
5			"	"
6 L			"	"

Note - From 200' to 350' Contour
(inclusive) stakes were set
with transit.

Sta 0. not set. inaccessible cliff
Sta 1 R set. 1' above grade

	360'	Contour	WEST
	12.2	1972.2	1960.0
1 R			12.2
2			"
3			"
4			"
5 R			"
6			"
7 L			"
8			"
9			"
10			"
11			"
12			"
13			"
14			"
15			"
16			"
17			"
18			"
19			"
20			"
21			"
22			"
23			"
24			"
25			"
26			"
27			"
28			"
29			"
30			"
31			"
32			"
33			"
34			"
35			"
36			"
37			"
38			"
39			"
40			"
41			"
42			"
43			"
44			"
45			"
46			"
47			"
48			"
49			"
50			"

	370'	Contour	
	11.8	1981.8	1970.0
1 L			11.8
2			"
3			"
4			"
5			"
6			"
7			"
8			"
9 L			"
10			"
11 R			"
12			"
13			"
14			"
15			"
16			"
17 R			"

April 7th 1897

380' Contour WEST

	121	1992.1	1980.0
1 R			121 1980.0
2			" "
3			" "
4			" "
5			" "
6			" "
7			" "
8			" "
9 R			" "
0			" "
1 L			" "
2			" "
3			" "
4			" "
5			" "
6			" "
7 L			" "

400' Contour

	120	2012.0	2000.0
1 L			120 2000.0
2			" "
3			" "
4			" "
5			" "
6 L			" "
0			" "
1 R			" "
2			" "
3			" "
4			" "
5			" "
6			" "
7 R			" "

420' Contour

WEST

7.2	2032.1		2024.9
1 R		12.1	2020.0
2		"	"
3		"	"
4		"	"
5		"	"
6		"	"
7		"	"
8 R		"	"
9		"	"
0 L		"	"
1		"	"
2		"	"
3		"	"
4 L		"	"

T.P. on Rock

Sta 1. Stake set at abm grade

440' Contour

2.0	2052.0		2050.0
1 R		12.0	2040.0
2		"	"
3		"	"
4		"	"
5 R		"	"
6		"	"
7		"	"
8 L		"	"
9		"	"
0		"	"
1		"	"
2		"	"
3		"	"
4		"	"
5		"	"
6 L		"	"

April 8th 1897

460' Contour WEST

	11.8	2071.8		2060.0
1 R			11.8	2060.0
2			"	"
3			"	"
4			"	"
5			"	"
6 R			"	"
0			"	"
1 L			"	"
2			"	"
3			"	"
4			"	"
5 L			"	"

480' Contour

	11.8	2091.8		2080.0
1 L			11.8	2080.0
2			"	"
3			"	"
4			"	"
5 L			"	"
0			"	"
1 R			"	"
2			"	"
3			"	"
4			"	"
5 R			"	"

500' Contour WEST

2110.0

1.8 2111.8

1 R		11.8	2100.0
2		"	"
4 R		"	"
0		"	"
1 L		"	"
2		"	"
3		"	"
4 L		"	"

520' Contour 2130.0

2.0 2132.0

1 L		2.0	2130.0
2		"	"
3		"	"
4 L		"	"
0		"	"
1 R		"	"
2		"	"
3		"	"
4 R		"	"

540' Contour WEST

	12.3	2152.3		2140.0
1 R			12.3	2140.0
2 R			"	"
0 L			"	"
1 L			"	"
2 L			"	"
3 L			"	"
4 L			"	"

			0.2	2152.1
10.9	2163.0		0.0	2163.0
15.0	2178.0		6.0	2172.0 =
			0.0	2178.0 =
14.6	2192.6			
			0.6	2192.0 =

Set Stake

Set Stake

560' Contour

	0.0	2172.0		2172.0
1 L			12.0	2172.0
2 L			"	"
3 L			"	"
4 L			"	"
0 L			"	"
1 R			"	"
2 R			"	"

580' Contour WEST

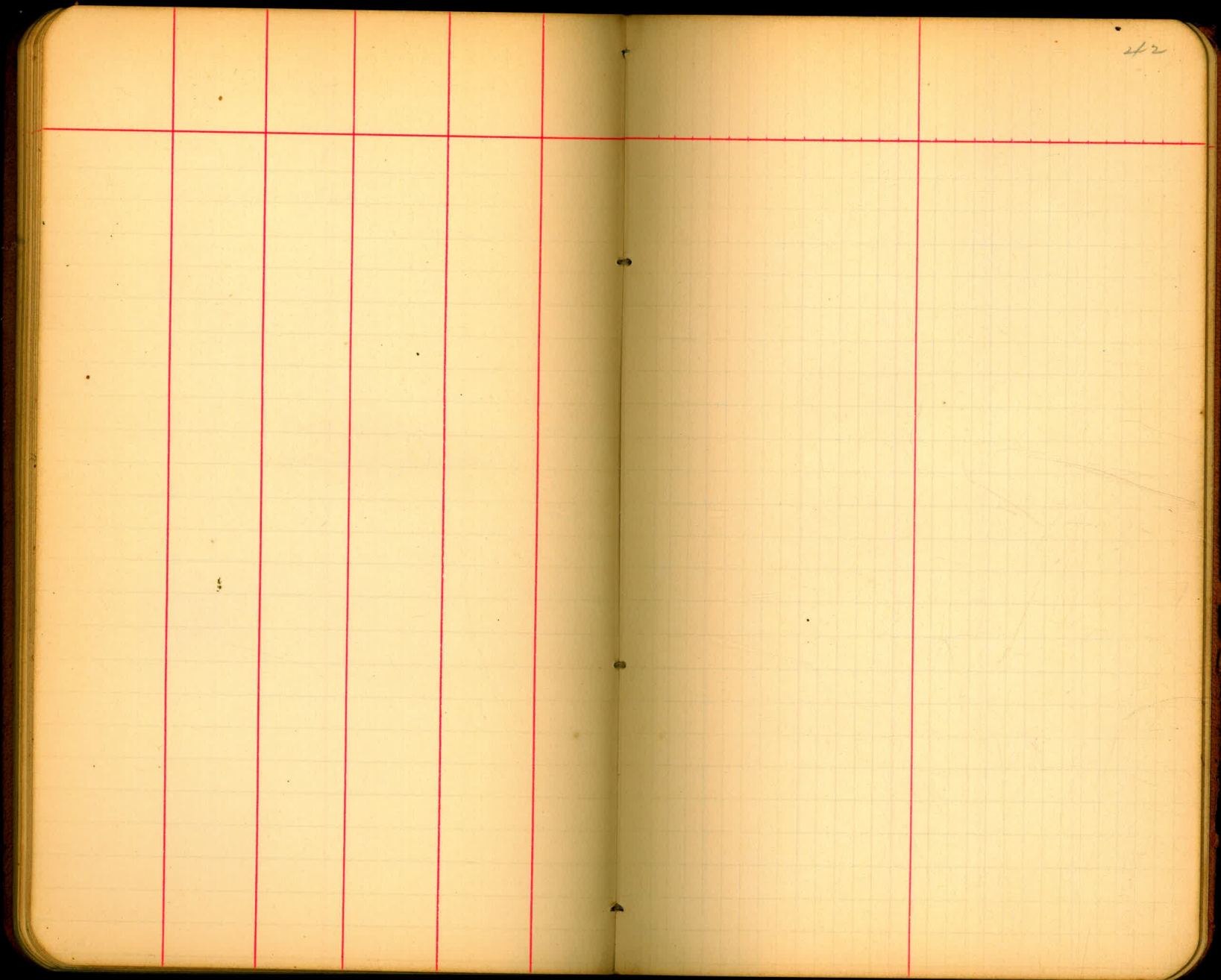
2192.0

0.0 2192.0

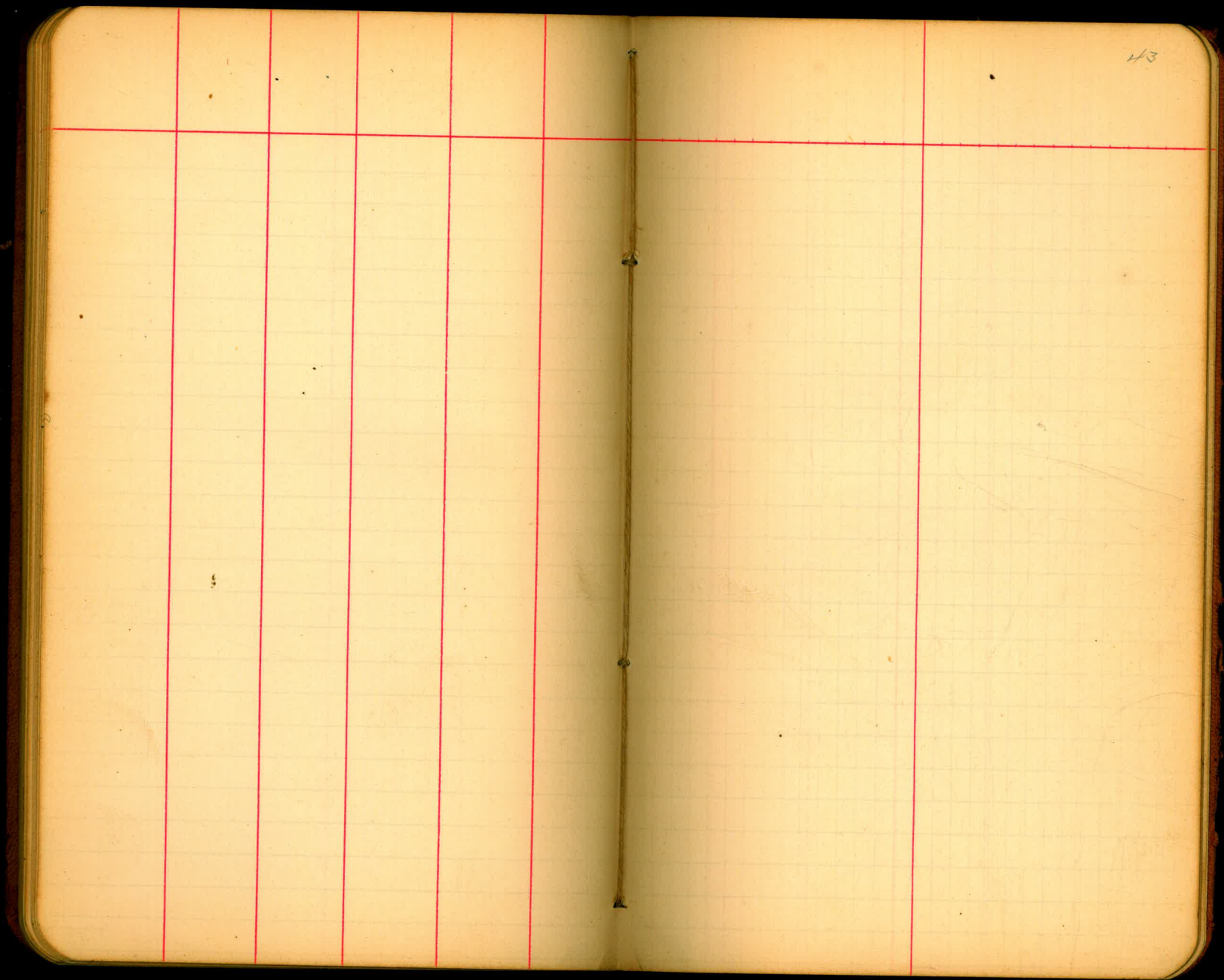
1 R		12.0	2180.0
2 R		"	"
1 L		"	"
2		"	"
3 L		"	"

600' Contour
(Approximately) 2200.0

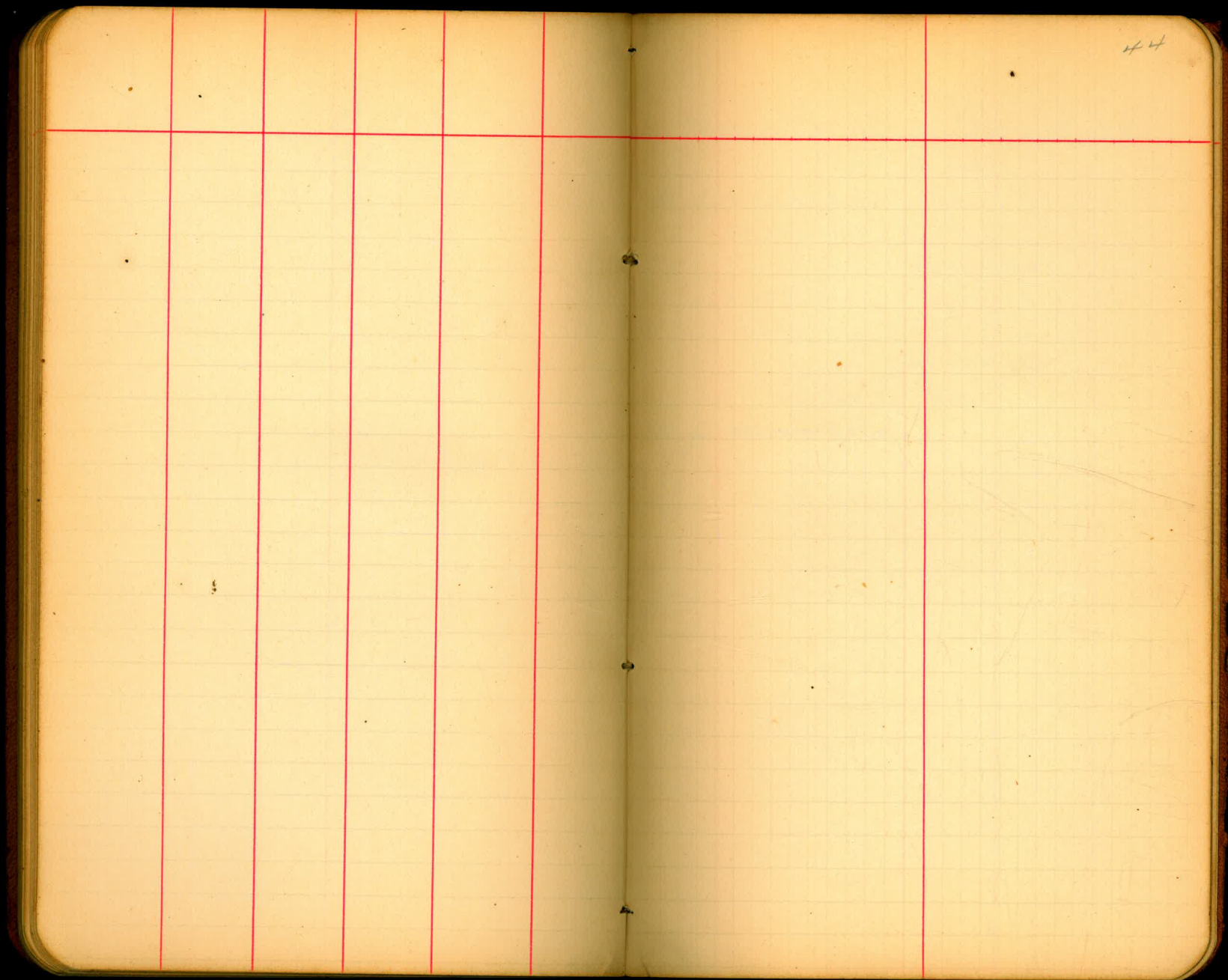
- 1 L
- 2
- 3 L
- 0
- 1 R
- 2
- 3



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Contents on east side Bennett Dam site

Mar 16th 1897

	321.07		
		11	320.0
		022	320.85
12.04	332.89		
		29	230.0
		019	232.70
11.73	344.43		
		44	
T.P.		178	342.65

Set stake marked c 320

" " " " 230

" " " " 340

On log 4' North of axis

Contents on cart of Barnett Davisite

Mar 15th 1897

		225.01
12.27	237.28	
		73 230.0
0		0.50 236.78
12.16	248.94	
		89 240.0
0		0.04 248.90
11.49	260.39	
		10.4 250.0
0		0.18 260.21
12.31	272.52	
		12.5 260.0
		2.5 270.0
0		0.05 272.47
12.31	284.78	
		4.8 280.0
0		0.00 284.78
12.25	297.03	
		7.0 290.0
0		0.02 297.01
12.12	309.13	
		9.1 300.0
0		0.24 308.89
12.18	321.07	
		11.1 310.0

St stake marked	C	230
"	"	240
"	"	250
"	"	260
"	"	270
"	"	280
"	"	290
"	"	300
"	"	310

Contours West side Barrett Dam site

Mar 15th 1897

			322.78
12.14	334.92		
		4.9	330.0
		0.03	334.89
8.19	343.08		
T.P.		3.07	340.00

Set stake marked C 330

One Stake 340

Contours East side Barrett Dam site

Mar 15th 1897

			189.04
0.96	190.00		
		10.0	180.0
		0.0	190.0
		0.00	190.00
12.14	202.14		
		2.1	200.0
		0.23	201.51
11.95	213.46		
		3.5	210.0
		0.26	213.20
12.00	225.20		
		5.2	220.0
		0.19	225.01

T.P. on west side

Set stake marked C 180

" " " " 190

" " " " 200

" " " " 210

" " " " 220

Creston West side Bennett Dam site

Mar 15th 1897

			237.75
11.96	249.71		
		97	240.0
0		0.25	249.46
12.97	261.83		
		11.8	250.0
		1.8	260.0
0		0.46	261.37
12.84	274.21		
		4.2	270.0
0		0.15	274.06
12.30	286.36		
		6.4	280.0
0		0.25	286.11
12.31	298.42		
		8.4	290.0
0		0.01	298.40
12.28	310.68		
		10.7	300.0
		0.7	310.0
0		0.09	310.59
12.27	322.86		
		2.9	320.0
		0.08	322.78

set stake marked 0 240

" " " " 250

" " " " 260

" " " " 270

" " " " 280

" " " " 290

" " " " 300

" " " " 310

" " " " 320

Setting contour stakes from 175 to 340 West side of

		175.0
0.2	175.20	
		15.7 159.5
		11.2 164.0
		5.2 170.0
		0.7 174.5
		5.6 169.6
		0.04 175.16
11.20	189.36	
		9.4 180.0
		0.32 189.04
12.35	201.39	
		11.4 190.0
		1.4 200.0
		0.03 201.36
12.68	214.04	
		4.0 210.0
		0.08 213.96
11.91	225.87	
		0.9 220.0
		0.12 225.75
12.19	237.94	
		8.0 230.0
		0.19 237.75

Barnett Dam site March 15th 1897

Caps prot on west side of Barnett dam
 on stake marked 0.160
 " West
 " Stake " 170 } testing old contour stakes
 " " " 175
 " Stake marked 170

Set Stake marked C 180
 " " " " 190
 " " " " 200
 " " " " 210
 Cur Stamp
 Set Stake marked C 220
 " " " " 230

Testing Shadiv 1-2-3

March 15, 1897-

Testing

Baird Dam

0-1	1.00
1-2	2.02
2-3	3.03

Testing Pool

A.	4.65
B.	<u>5.20</u>
	.55
B	4.59
A.	

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	18.63	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	68.81	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.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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