

53

K.

FIELD BOOK

No. 410

W65

EUGENE DIETZGEN CO.

Drawing Materials and Surveying Instruments
 NEW YORK. CHICAGO. SAN FRANCISCO.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.
 DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING
 ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.
 FOR SINGLE TRACK EXCAVATION.

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	7
8	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	8
9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.

MICROFILMED

17' 4 1
 3.69

10 - 6 x 6
 100 - 1/2" x 8" lag screws
 50 - 3/4" x 6" lag screws
 50 - 1/2" x 5" lag screws

--INDEX--

Contacts on Phone lines

1-55

Morena Settlement 2-14-16 - 146

2 Contacts on Telephone Line

Pole No.	north				south			
	Vacant	128	129	135	136	22	?	103
1		2	2	2	2	2	2	
2		2	2	2	2	2	2	
3		2	2	2	2	2	2	
4		2	2	2	2	2	2	
5		2	2	2	2	2	2	
6		2	2	2	2	2	2	
7		2	2	2	2	2	2	
8		2	2	2	2	2	2	
9		2	2	2	2	2	2	
10		2	2	2	2	2	2	
11	x	2	2	2	2	2	2	
12		2	2	2	2	2	2	
13		2	2	2	2	2	2	
14		2	2	2	2 drop	2 drop	2	drop
15		2	2	2	2	2	2	End
16		2	2	2	2	2	2	short pole
17		2	2	2	2	2	2	Vacant
18		2	2	2	2	2	2	
19		2	2	2	2	2	2	

Kneeshaw, 3

Nelson 7-6-14.

Pole No.	Notes
22	?
	Drop 2
103	
	Remarks
	5th pole East
	Railroad 7 N of
	Factory at Otay
	16 ft 11 in
	corner
	"
	round pole
	" "
	corner
	round pole
	3 lines to Otay
	round pole
	" "

	Vacant	128	129	135	136
20		2	2	2	2
21		2	2	2	2
22		2	2	2	2
23		2	2	2	2
24		2	2	2	2
25		2	2	2	2
26		2	2	2	2
27		2	2	2	2
28	x	2	x	2	x
29		2	2	2	2
30		2	2	2	2
31		2	2	2	2
32		2	2	2	2
33		2	2	2	2
34		2	2	2	2
35		2	2	2	2
36		2	2	2	2
37		2	2	2	2
38		2	2	2	2

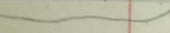
128 ←

129 ←

135 ←

13 ←

2 End



22	103	Vacant
2	2	
2	2	
22JI	2	
2, droh	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	
2	2	

Last of
16 pin Arms

10 pin Arms

	128	129	135	136	103
39	2	2	2	2	X 2
40	✓	✓	✓	✓	✓
41	✓	✓	✓	✓	✓
42	✓	✓	✓	✓	✓
43	✓	✓	✓	✓	✓
44	✓	✓	✓	✓	✓
45	X ✓	✓	✓	136J3 dyoh	✓
46	✓	✓	✓	✓	✓
47	✓	✓	✓	✓	✓
48	✓	✓	✓	✓	✓
49	✓	✓	✓	✓	✓
50	✓	✓	✓	✓	round hole
51	✓	✓	✓	✓	✓
52	✓	✓	✓	✓	✓
53	✓	✓	✓	✓	✓
54	✓	✓	✓	✓	round hole
55	✓	✓	✓	✓	✓
56	✓	✓	✓	✓	round hole
57	✓	✓	✓	✓	round hole

	128	129	135	136	103
58	2	2	2	2	2
59	✓	✓	✓	✓	✓
60	X ✓	X ✓	X ✓	X ✓	✓
61	✓	✓	✓	✓	✓
62	✓	✓	✓	✓	✓
63	✓	✓	✓	✓	✓
64	✓	✓	✓	✓	X ✓
65	✓	✓	✓	✓	✓
66	✓	✓	✓	✓	✓
67	✓	✓	✓	✓	✓
68	✓	✓	✓	✓	✓
69	✓	✓	✓	✓	✓
70	✓	✓	✓	✓	✓
71	✓	✓	✓	✓	✓
72	✓	✓	✓	✓	✓
73	✓	✓	✓	✓	✓
74	✓	✓	✓	✓	✓
75	✓	✓	✓	✓	✓
76	X ✓	✓	✓	X ✓	✓

	128	129	135	136	103
77	2	2	2	136W3 2 drop	2
78	✓	✓	✓	✓	✓
79	✓	✓	✓	✓	✓
80	✓	✓	✓	✓	✓
81	✓	✓	✓	✓	✓
82	✓	✓	✓	✓	✓
83	✓	✓	✓	✓	✓
84	✓	✓	✓	✓	✓
85	✓	✓	✓	✓	✓
86	✓	✓	✓	✓	✓
87	✓	✓	✓	✓	✓
88	✓	✓	✓	✓	✓
89	✓	✓	✓	✓	✓
90	✓	✓	✓	✓	✓
91	✓	✓	✓	✓	✓
92	✓	✓	✓	✓	✓
93	✓	✓	✓	✓	✓
94	✓	✓	✓	✓	✓
95	✓	✓	✓	✓	✓

	128	129	135	136	103
96	2	2	2	2	2
97	✓	✓	✓	✓	✓
98	✓	✓	✓	✓	✓
99	✓	✓	✓	✓	✓
100	✓	✓	✓	✓	✓
101	✓	✓	✓	✓	✓
102	✓	✓	✓	✓	✓
103	✓	✓	✓	✓	✓
104	✓	✓	✓	✓	✓
105	✓	✓	✓	✓	✓
106	✓	✓	✓	✓	✓
107	✓	✓	135W3 Drop	✓	✓
108	✓	✓	✓	✓	✓
109	✓	✓	✓	✓	✓
110	✓	✓	✓	✓	✓
111	✓	✓	✓	✓	✓
112	✓	✓	✓	✓	✓
113	✓	✓	✓	✓	✓
114	✓	✓	✓	✓	✓

	128	129	135	136	103
115	2	2	2	2	2
116	✓	✓	✓	Duncan ✓ Drop	✓
117	✓	✓	✓	✓	✓
118	✓	✓	✓	✓	✓
119	✓	✓	✓	✓	✓
120	✓	✓	✓	✓	✓
121	✓	✓	✓	✓	✓
122	✓	✓	✓	✓	✓
123	x	x	✓	x	x 10372 ✓ Drop
124	✓	✓	✓	✓	✓
125	✓	✓	✓	✓	✓ ground pole
126	✓	✓	✓	✓	✓
127	✓	✓	✓	✓	✓
128	✓	✓	✓	✓	✓
129	✓	✓	✓	✓	✓
130	✓	✓	✓	✓	✓
131	✓	✓	✓	✓	✓
132	✓	✓	✓	✓	✓
133	✓	✓	✓	✓	✓

	128	129	135	136	103
134	2	2	2	2	2
135	✓	✓	✓	✓	✓
136	✓	✓	✓	✓	✓
137	✓	✓	✓	✓	✓
138	✓	✓	✓	✓	✓
139	x	✓	✓	136 J1 drop	✓
140	✓	✓	✓	✓	✓
141	✓	✓	✓	✓	✓
142	✓	✓	✓	✓	✓
143	✓	✓	✓	✓	✓
144	✓	✓	✓	✓	✓
145	✓	✓	✓	✓	✓
146	✓	✓	✓	✓	✓
147	✓	✓	✓	✓	✓
148	✓	✓	✓	✓	✓
149	✓	✓	✓	✓	✓
150	✓	✓	✓	✓	✓
151	✓	✓	✓	✓	✓
152	✓	✓	✓	✓	✓

	128	129	135	136	103
153	2	2	2	2	2
154	x ✓	x ✓	✓	x ✓	✓
155	✓	✓	✓	✓	✓
156	✓	✓	✓	✓	✓
157	✓	✓	✓	✓	✓
158	✓	✓	✓	✓	✓
159	✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓
161	✓	✓	✓	✓	x ✓
162	✓	✓	✓	✓	✓
163	✓	✓	✓	✓	✓
164	✓	✓	✓	✓	✓
165	✓	✓	✓	✓	✓
166	✓	✓	✓	✓	✓
167	✓	✓	✓	✓	✓
168	✓	✓	✓	✓	✓
169	x ✓	✓	✓	x ✓	✓
170	✓	✓	✓	✓	✓
171	✓	✓	✓	✓	✓

	128	129	135	136	103
172	2	2	2	2	2
173	✓	✓	✓	✓	✓
174	✓	✓	✓	✓	✓
175	✓	✓	✓	✓	✓
176	✓	✓	drop	drop	✓
177	✓	✓	✓	✓	✓
178	✓	✓	135 on bracket	103 ✓	✓
179	✓	✓	✓	✓	✓
180	✓	✓	✓	✓	✓
181	✓	✓	✓	✓	✓
182	✓	✓	✓	✓	✓
183	✓	✓	✓	✓	✓
184	x ✓	x ✓	✓	✓	✓
185	✓	✓	✓	✓	✓
186	✓	✓	✓	✓	✓
187	✓	✓	✓	✓	✓
188	✓	✓	✓	✓	✓
189	✓	✓	✓	✓	✓
190	✓	✓	✓	✓	✓

136 to S.E.

last of 10 pin arms
127 of
6 pin arms

	128	129	135	103
191	2	2	2	2
192	✓	✓	✓	✓
193	✓	✓	✓	✓
194	✓	✓	✓	✓
195	✓	✓	✓	✓
196	✓	✓	✓	✓
197	✓	✓	✓	✓
198	✓	✓	✓	✓
199	droh	✓	droh	droh
200	2		2	
201	2	2	103 2	
202	✓	✓	✓	✓
203	✓	✓	✓	✓
204	✓	✓	✓	✓
205	✓	✓	✓	✓
206	✓	✓	✓	✓
207	✓	✓	✓	✓
208	✓	✓	✓	✓
209	✓	✓	✓	✓

↳ End
Droh

	128	129	103
210	✓	1-	✓
212	✓	✓	✓
213	✓	✓	✓
214	✓	✓	✓
215	✓	✓	✓
216	✓	✓	✓
217	✓	✓	✓
218	✓	✓	✓
219	✓	✓	✓
220	✓	✓	✓
221	✓	✓	✓
222	✓	✓	✓
223	✓	✓	✓
224	✓	✓	✓
225	✓	✓	✓
226	✓	✓	✓
227	✓	✓	✓
228	✓	✓	✓
229	✓	✓	✓

Coronado
limete Wye

short hole
under
arm

	128	129	103
230	2	2	2
231	✓	✓	✓
232	✓	-	-
233	✓	✓	✓
234	✓	-	-
35	✓	-	-
36	✓	-	-
37	✓	-	-
38	✓	-	-
39	✓	-	-
40	✓	-	-
41	✓	-	-
42	✓	-	-
43	✓	✓	-
44	✓	✓	-
45	✓	-	✓
46	✓	✓	✓
47	✓	✓	✓
248	✓	-	✓

	128	129	103
249	2	2	2
50	✓	✓	✓
51	✓	-	✓
52	✓	✓	✓
53	✓	✓	✓
54	✓	✓	✓
55	✓	✓	✓
56	✓	✓	✓
57	✓	✓	✓
58	✓	-	✓
59	✓	-	✓
60	✓	-	✓
61	✓	-	✓
62	dřoh	dřoh	✓
63	✓	✓	-
64	✓	-	✓
65	✓	✓	✓
66	✓	✓	✓
67	✓	-	-

Lower Otay

	128	129	103
268	2	2	2
69	✓	✓	✓
70	✓	✓	✓
71	✓	✓	✓
72	✓	✓	✓
73	✓	✓	✓
74	✓	✓	✓
75	✓	✓	✓
76	✓	✓	✓
77	✓	✓	✓
78	x ✓	✓	✓ ✓
79	✓	✓	✓
80	✓	✓	✓
81	✓	✓	✓
82	✓	✓	✓
83	✓	✓	✓
84	✓	✓	✓
85	✓	✓	✓
86	✓	✓	✓

	128	129	103
Wenddam 287	2	2	2
E " " 88	✓	✓	✓
89	✓	✓	✓
90	✓	✓	✓
91	✓	✓	✓
92	✓	✓	✓
93	x ✓	x ✓	✓
94	✓	✓	✓
95	✓	✓	✓
96	✓	✓	✓
97	✓	✓	✓
98	✓	✓	✓
99	✓	✓	✓
300	✓	✓	✓
1	✓	✓	✓
2	✓	✓	✓
3	✓	✓	✓
4	✓	✓	✓
5	✓	✓	✓

	128	129	103
306	2	2	2
7	✓	✓	✓
8	✓	✓	✓
9	✓	✓	✓
10	x ✓	✓	✓
11	✓	✓	✓
12	✓	✓	✓
13	✓	✓	✓
14	✓	✓	✓
15	✓	✓	✓
16	✓	✓	✓
17	✓	✓	✓
18	✓	✓	✓
19	✓	✓	✓
20	✓	✓	✓
21	✓	✓	✓
22	✓	✓	✓
23	x ✓	x ✓	✓
24	✓	✓	✓

	128	129	103
325	x 2	x 2	2
26	✓	✓	✓
27	✓	✓	✓
28	✓	✓	✓
29	✓	✓	✓
30	✓	✓	✓
31	✓	✓	✓
32	✓	✓	✓
33	✓	✓	✓
34	✓	✓	✓
35	✓	✓	✓
36	✓	✓	✓
37	✓	✓	✓
38	✓	✓	✓
39	✓	✓	✓
40	✓	✓	✓
41	✓	✓	✓
42	✓	✓	✓
43	✓	✓	✓

	128	129	103
344	2	✓	✓
45	✓	✓	✓
46	Encl drop	✓	✓
47	103	129	vacant
48	✓	✓	
49	✓	✓	
50	✓	✓	
51	✓	✓	
52	✓	✓	
53	✓	✓	
54	✓	✓	
55	✓	✓	
56	✓	✓	
57	✓	✓	
58	✓	✓	
59	✓	✓	
60	✓	✓	
61	✓	✓	
62	✓	✓	

Narypy

	103	129
363	2	2
64	✓	✓
65	✓	✓
66	✓	✓
67	✓	✓
68	✓	✓
69	✓	✓
70	✓	✓
71	✓	✓
72	✓	✓
73	✓	✓
74	✓	✓
75	✓	✓
76	✓	✓
77	✓	✓
78	✓	✓
79	✓	✓
80	✓	✓
81	✓	✓

24

382 103 129

83 2 2

84 ✓ ✓

85 - -

86 - -

87 x x

88 - -

89 - -

90 - -

91 - -

92 - -

93 - -

94 - -

95 - -

96 - -

97 - -

98 - -

99 - -

400 - -

401 - -

25

103 129

402 2 2

403 x - -

4 4 - -

5 5 - -

6 6 - -

7 7 - -

8 8 - -

9 9 - -

10 10 - -

11 11 - -

12 12 - -

13 13 - -

14 14 - -

15 15 - -

16 16 - -

17 17 - -

18 x x - -

19 19 - -

20 20 - -

	103	129
421	2	2
22	✓	-
23	✓	✓
24	✓	-
25	✓	✓
26	✓	✓
27	✓	-
28	✓	✓
29	-	-
30	✓	✓
31	✓	-
32	✓	-
33	✓	✓
34	✓	-
35	✓	✓
36	✓	✓
37	✓	-
38	✓	✓
39	✓	✓

	103	129
440	2	2
41	✓	✓
42	✓	✓
43	✓	✓
44	✓	✓
45	✓	✓
46	✓	-
47	✓	✓
48	✓	✓
49	✓	-
50	x	x
51	✓	-
52	✓	-
53	✓	✓
54	✓	-
55	✓	✓
56	✓	✓
57	✓	-
58	✓	✓

will be ok.

corner
hole out of
ground

	103	129
459	2	2
60	-	-
61	-	-
62	-	-
63	-	-
64	-	-
65	-	-
66	x	-
67	-	-
68	-	-
69	-	-
70	-	-
71	-	-
72	-	-
73	-	-
74	-	-
75	-	-
76	-	-
77	-	-

	103	129	
478	2	2	
79	x	x	✓
80	✓	✓	
81	✓	✓	broken off.
482	drop	✓	drop disconnected Polo Ranch
83	✓	✓	
84	✓	✓	
85	✓	✓	
86	✓	✓	
87	✓	✓	
88	✓	✓	
89	✓	✓	
90	✓	✓	
91	✓	✓	
92	✓	✓	
93	✓	✓	
94	✓	✓	
95	x	✓	
96	✓	✓	

	103	129
497	2	2
98	✓	✓
99	✓	✓
500	✓	✓
01	✓	✓
02	✓	✓
03	✓	✓
04	✓	✓
05	✓	✓
06	✓	✓
07	✓	✓
08	✓	✓
09	✓	✓
10	X	X
11	✓	✓
12	✓	✓
13	✓	✓
14	✓	✓
15	✓	✓

	103	129	
516	Find drop	drop	Last of Large holes Jamul Ranch
17	129	4x4 holes	no ARMS
18	✓		
19	✓		
20	✓		
21	✓		
22	✓		
23	✓		
24	✓		
25	✓		
26	✓		
27	✓		
28	✓		
29	✓		
30	✓		
31	✓		
32	✓		
33	✓		
34	✓		

129

535 2

36 -

37 -

38 -

39 -

40 -

41 -

42 -

43 -

44 -

45 -

46 -

47 -

48 -

49 -

50 -

51 -

52 -

53 -

129

554 2

55 -

56 -

57 -

58 -

59 -

60 -

61 -

62 -

63 -

64 -

65 -

66 -

67 -

68 -

69 -

70 -

71 -

72 -

129

573 2

74 ✓

75 -

76 -

77 -

78 ✓

79 -

80 -

81 -

82 -

83 -

84 -

85 -

86 -

87 -

88 -

89 -

90 -

91 -

129

592 2

93 ✓

94 ✓

95 ✓

96 ✓

97 ✓

98 ✓

99 ✓

600 ✓

1 ✓

2 ✓

3 ✓

4 -

5 ✓

6 ✓

7 ✓

8 ✓

9 ✓

10 ✓

	129
611	2
12	✓
13	✓
14	✓
15	✓
16	✓
17	✓
18	✓
19	✓
20	✓
21	✓
22	✓
23	✓
24	drop to Lyons Peak
25	✓
26	✓
27	✓
28	✓
29	✓

	129
630	2
31	✓
32	✓
33	✓
34	✓
35	✓
36	✓
37	✓
38	✓
39	✓
40	✓
41	✓
42	✓
43	drop ^x to Lyons Valley Ranch house
44	
45	
46	
47	
48	

129

649	2
50	-
51	-
52	-
53	-
54	-
55	-
56	-
57	-
58	-
59	-
60	-
61	-
62	-
63	-
64	-
65	✓
66	-
67	✓

129

668	2
69	-
70	-
71	-
72	-
73	-
74	✓
75	✓
76	-
77	-
78	-
79	-
80	-
81	-
82	-
83	-
84	-
85	-
86	-

129

687

2

88

89

90

91

92

93

94

95

96

97

98

99

700

1

2

3

4

5

Line to Moréna.

129

706

2

7

8

9

710

11

12

13

14

15

16

17

18

19

20

21

22

23

24

129

725 2

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

129

744 2

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

House at Barrett

Office at Barrett

Line from Otay Valley to Telegraph Canon
Kneeshaw
Whitmore 7-15-14

12.5 13.5 Remarks

	12.5	13.5	Remarks
Pile 200	2	2	
763	-	-	
764	-	-	
765	-	-	
766	-	-	
767	-	-	
768B	-	-	B.
769	-	-	
770	-	-	
771	-	-	
772	-	-	
773	-	-	
774	-	-	
775B Drop	-	-	B. Drop
776	-	-	
777B	-	-	
778B	-	-	
779B	-	-	
780	-	-	

128 135 Remarks

	128	135	Remarks
Pole	-	-	
781	-	-	
782	-	-	Short No B.
783	-	-	Short No B.
784	-	-	Short
785	-	-	
786	-	-	
787	-	-	
788	-	-	Broken
789	-	-	
790	-	-	
791	-	-	
792	-	-	B. Short
793	-	-	R.
794	-	-	
795	-	-	S
796	-	-	
797	-	-	
798	-	-	B. Short

Pole	128	135	Remarks
799	✓	✓	R.
800	✓	✓	
801	✓	✓	
802	✓	✓	S.
3	✓	✓	
4	✓	✓	
5	✓	✓	
6	✓	✓	
7	✓	✓	
8	✓	✓	
9	✓	✓	
10	✓	✓	
11	✓	✓	
12	✓	✓	
13	✓	✓	
14	✓	✓	B
15	✓	✓	drop end Lot Co
16	✓	✓	B
17	✓	✓	

Pole	128	Remarks
818	✓	
19	✓	
20	✓	B
21	✓	B
22	✓	B
23	✓	
24	✓	B
25	✓	
26	✓	
27	✓	
28	✓	
29	✓	
30	✓	
31	✓	
32	✓	
33	✓	
34	✓	
35	✓	R
36	✓	B

Pole	128	Remarks
837	2	<u>B</u>
38	✓	
39	✓	<u>B</u>
40	✓	
41	✓	
42	✓	
43	✓	
44	✓	
45	✓	
46	✓	
47	✓	
48	✓	need long pole
49	✓	130-1 rotten
50	✓	-
51	✓	-
52	✓	-
53	✓	-
54	✓	-
55	✓	Dunnes

Pole 128
856

50 Cholla Heights Line

51

Pole HorstzFz

Pole	HorstzFz	Sierra Ave & Castle St	10	19
1000	2			
1				20
2				21
3				22
4				23
5				24
6				25
7				26
8				27
9				28
10				29
11				30
12)			31
13				32
14				33
15				34
16				35
17				36
18				37

line to house

1

Filtering Plant End

1038

39

40

House at Cholla

Line from Pole 482 to Polo Farm

Pole 482 2

disconnected

1055 ✓

56 ✓

57 ✓

Line from Pole 123 To Otay Valley Pipe
Walker house

Pole 123 2

1041 2

42 ✓

43 ✓

44 ✓

45 ✓

46 ✓

Line from Pole 346 To Harvey Ranch

Pole 346 2

1047 -

48 ✓

49 -

50 -

51 -

52 ✓

53 -

54 -

Harvey Ranch house

54

Rossman To Morena

Pole 705 129

1158 2

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

55

129

1177 2

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

2

-

4

2

Dropto Swain's 1 hole

56

129

1196

2

97

98

99

1200

1

2

3

4

5

6

7

8

9

10

11

12

13

14

57

129

1215

2

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

129

1254 2

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

129

1253 2

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

Drops to Korte's 5 holes

60

129

1278 2

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

61

129

1297 2

95

99

1300

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

62

129

1305 2

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

63

129

1334 2

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

1400

1

64

129

1402

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

65

129

1421

2

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

66

129

1440

2

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

West side Morena Res

56

E

57

58

67

129

1459

2

60

-

Keepers House at Morena

68

69

1500

Sta	+	H.I.	-	Elev
	7.44	1528.97		1521.529
0+00			12.60	1516.37
C.29+44 ²				
0+22 ⁵⁰			12.35	1516.62
0+32 = Crest of Weir Settling Basin			7.70	1521.72
Top of Baffle Wall "			8.22	1520.75
1+00 in Bottom of " "			11.26	1517.26
1+06 ⁵⁰			10.91	1518.06
1+07 ⁵			10.07	1518.90
1+09 ²			9.93	1519.04
1+11 ⁵			8.24	1520.92
1+71 ² West end of Crossing			7.36	1521.63
2+21 ⁵ East end Box Sec			6.25	1522.12
2+57			6.55	1522.42
T.P.	6.73	33.33	2.37	1526.60
3+00			8.98	1524.35
4+00			8.0	1525.33
5+00			7.53	1525.80
6+00			6.83	1526.50
T.P.	8.74	38.50	3.57	1529.76

B.M. No 3.

Dilley Inst.

Garner chain & Rod

Evans

Ogburn Printing Stations

Sta	+	17.1	-	1500 E/Bv
		38.50		
6+92=Bottom of Drop			11.55	1526.95
7+00			10.68	1527.82
7+50 ^s Top of Drop			3.14	1535.36
	10.19	45.91	2.78	1535.72
7+00			10.15	1535.76
9+00			9.67	1536.24
10+00			9.0	1536.91
11+00			8.40	1537.51
11+73 ^s T.P.	3.50	41.48	7.93	1537.18
12+00			3.35	1538.13
13+00			2.8	1538.68
T.P.	3.42	42.15	2.75	1538.73
14+00			2.90	1539.25
15+00 ^{TP}	3.21	43.08	2.28	1539.87
16+00			3.72	1539.36
17+00 ^{TP}	3.37	44.37	2.08	1541.00
18+00			2.73	1541.64
19+00 ^{TP}	3.23	45.56	2.04	1542.33

Beginning of "C" sec.

Sta	+ H.I.	- Elev
	45.56	1500
20+00		2.73 1542.83
	2.61 45.66	2.51 48.05
20+79.3		2.30 1543.36
20+96.2		2.03 1543.63
21+00		2.06 1543.60
21+95		1.49 1544.17
^{T.P.} 22+00	8.60 52.69	1.57 44.09
23+00		7.93 1544.76
24+00		7.30 1545.39
24+76.6		7.02 1545.67
T.P.	2.97 52.99	2.67 50.02
T.R.	2.56 48.27	7.28 45.91
25+00		2.42 45.85
^{T.P.} 26+00	2.71 49.29	1.69 46.58
27+00		2.15 47.14
T.P.	2.79 50.16	1.92 47.37
28+00		2.48 47.68
29+00		1.90 48.26

East End of 1st C. sec

West End Flume No. 1

East End Flume No. 1

Beg. of 1st sec No. 2B.M. Top of Concrete. Beg. 1st sec No. 2

76

77

1500

Sta + H.L. - Elev

50.16

30+00

1.27 48.89

T.P. 274 51.76 1.14 49.02

31+00 2.33 49.43

T.P. 233 52.28 1.81 49.95

32+00 2.26 50.02

T.P. 292 53.17 2.03 50.25

33+00 2.59 50.58

34+00 1.94 51.23

T.P. 35+00 290 54.47 1.10 52.07

36+00 2.0 52.97

T.P. 277 55.51 1.73 52.74

37+00 2.50 53.01

38+00 2.17 53.34

39+00 T.P. 249 56.23 1.77 53.74

39+82 3.68 57.73 2.18 54.05 East End of ^{sec.} 1702

9.74 1547.99 Check B.M. Elev = 1548.01

39+92.8 3.43 54.30 West end Flume 1702

40+00 3.58 54.15 on Flume.

Sta + Ht - Elev.

57.73

40+87 ⁶			3.12	54.61	East end Flume No 2.
40+98 ¹			3.20	54.53	West end of Section No 3.
41+00			3.24	54.49	
42+00	2.97	57.85	2.85	54.88	
43+00			2.50	55.35	
44+00			2.07	55.78	
T.P.	2.83	58.75	1.93	55.92	
45+00			2.58	56.17	
46+00			2.08	56.67	
T.P.	8.92	65.65	2.02	56.73	
46+01 ^A			8.95	56.70	East end of Section No 3.
47+00			8.60	57.05	
48+00			8.16	57.60	
49+00			7.52	58.13	
50+00			6.99	58.66	
51+00			6.40	59.25	
T.P.	8.71	68.48	5.88	59.77	
52+00			8.39	60.11	

80

1500.

Sta	+	H.I.	-	Elev
52+96L		68.48	7.88	60.60
53+00			7.95	60.53
53+05L			8.05	60.43
54+09 ⁸²			7.19	61.29
55+00			6.71	61.77
56+00 ^{T.P.}	9.27	71.60	6.15	62.33
57+00			8.63	62.97
58+00			8.02	63.58
59+00			7.48	64.12
60+00			6.82	64.78
61+00			6.25	65.35
62+00			5.70	65.90

B.M.

300 1568.60 Check B.M. Elev = 1568.53.

63+00	8.31	74.76	5.15	66.45
64+00			7.95	67.01
65+00			7.03	67.73
66+00			6.42	68.34
67+00	8.72	77.62	5.86	68.90
68+00			8.21	69.41

81

Beginning Syphon No. 1, East end

Corerod Section Syphon No. 1 Break in grade.

West " Syphon No. 1

Sta	+	H.I.	-	Elev
		77.62		1500.
69+00			7.54	70.08
70+00			6.93	70.69
71+00			6.39	71.23
T.P.	8.62	80.01	6.23	71.39
72+00			8.19	71.82
73+00			7.73	72.28
74+00			7.18	72.83
75+00			6.60	73.41
76+00			6.08	73.93
T.P.	8.53	82.73	5.81	74.20
77+00			8.25	74.48
78+00			7.52	75.21
79+00			7.25	75.48
80+00			6.58	76.15
80+04.5			6.58	76.15 West end Siphon No. 2
81+19.5			6.08	76.65 East " " No. 2.
	2.55	84.16	1.12	81.61 Check BM No. 11 Elev = 1581.59
82+00			7.08	77.08

84

1500.

Sta	+	+1	-	Elev
		84.16		
83+00			6.62	77.54
84+00			⁵ 7.90	78.26
T.P.	8.56	86.83	5.89	78.27
85+00			8.12	78.71
86+00			7.68	79.15
87+00			7.14	79.69
88+00			6.74	80.09
89+00 T.P.	8.59	89.11	6.31	80.52.
89+02.80			8.55	80.56 West End 1st Box Sec.
89+25.1			8.15	80.96 East " 1st " "
90+00			8.04	81.07
91+00			7.56	81.55
92+00			7.01	82.10
93+00			6.42	82.69
94+00	8.52	83.07 ^{91.59}	6.04	83.07
95+00			8.05	83.54
96+00			7.54	84.05
97+00			6.98	84.61

85

Sta + H.I. - Elev

91.59

5.89 1585.70 Check B.M. No 12. Elev 1585.67

98+00 6.45 85.14

T.P. 10.29 95.65 6.23 85.36

99+00 9.75 85.90

100+00 9.09 86.56

101+00 8.90 87.25

102+00 7.65 88.00

103+00 T.P. 11.56 1600.22 6.99 88.66

104+00 10.91 89.31

105+00 10.20 90.02

106+00 9.46 90.76

107+00 8.71 91.48

108+00 10.25 02.44 8.03 92.19

109+00 9.51 92.93

110+00 8.82 93.62

111+00 8.39 94.07

112+00 7.91 94.57

T.P. 9.23 09.02 7.65 94.79

88

Sta	+	H.I.	-	Elev.
		1609.02		1500.
113+00			9.27	94.75
114+00			8.94	95.08
114+30 ^L			8.97	95.11 West
114+64 ^R			8.77	95.25 East
115+00			8.71	95.31
116+00	9.43	05.06	8.39	95.63
117+00			8.98	96.08
"			8.56	1596.50 B.M.
118+00			8.78	96.28
119+00			8.40	96.66
T.P.	11.71	08.62	8.15	96.91
120+00			11.63	96.99
121+00			11.37	97.25
122+00			11.05	97.57
123+00			10.65	97.97
124+00 ^{T.P.}	349	01.75	10.36	98.26
125+00			32.5	98.37
125+55 ^R			2.96	98.79 West

89

end Box Sec No 2

" " " No 2

No 14. Connect Elev = 1596.49

End Box Sec No 3

90

Sta	+	H.I	-	1500 Elev.	
		01.75			
126+00			2.86	98.89	
127+00			2.60	99.15	
127+11.2 ^{TP}			2.59	99.16	East end Box sec 703.
1 ^{TP}	3.18	02.41	2.52	99.23	
128+00			2.93	99.48	
128+18.5			2.80	99.61	West end Box sec 704.
129+00			2.62	99.79	
129+92.20			2.30	<u>1600.11</u>	
130.00			2.23	1600.18	East end Box Sec 704
130+03.3 ^{TP}	12.79	13.10	2.10	1600.31	Bottom Drop 702.
130+47.30			8.0	05.10	Top " 702
			7.02	1606.08	Check BM Elev = 1606.04.
131+00			7.51	05.59	
132+00			6.83	06.27	
133+00			6.11	06.99	
134+00 ^{TP}	9.05	16.72	5.43	07.67	
135+00			8.36	08.36	

91

92

Sta + 141 - 1600
Elev

1616.72

136+00 7.60 09.12

137+00^{TP} 11.49 21.16 7.05 09.67

138+00 10.65 10.51

139+00 9.97 11.19

140+00 9.26 11.90

141+00 8.71 12.45

T.P. 8.68 21.51 8.33 12.83

142+00 8.42 13.09

143+00 7.94 13.57

144+00 7.35 14.16

145+00 6.64 14.87

146+00 6.14 15.37

T.P. 13.07 28.80 5.78 15.73

147+00 12.80 16.00

147+70.5° 12.39 16.41 West end Box sec No 5.

148+00 12.20 16.60

148+49.6° 11.98 16.82 East " " " No 5.

148+57.7 12.02 16.78 Bottom Drop No 3

93

94

1600

Sta + H.I. - Elev

28.80

T.P. 9.41 37.29 0.92 27.88

149+00 10.62 26.67 on slope of Drop

149+06.20 10.72 27.07 Top of Drop 1703

150+00 9.83 27.46

150+27 9.87 27.42

West end Road X.

150+59.60 9.67 27.62

East " " X

151+00 9.56 27.73

New H.I. Taken
off of Bench.

5.80 1637.24 5.90 1631.99 Check B.M. Elev 1631.99

151+09.20 9.59 27.65 West end Flume No 3. Long Flume Bissell sec.

T.P. 0.79 31.71 6.32 29.92

152+00 3.85 27.86

153+00 3.63 28.08

T.P. 1.73 33.37 0.09 31.64

154+00 4.97 28.40

155+00 4.61 28.96

156+00 4.23 29.14

157+00 3.97 29.40

158+00 3.69 29.68

95

96

Sta + H.I. - 1600, Elev

33.37

158+68^E

3.44 29.93

East End

Plumellos on Steel

158+68^E

3.34 30.03

Drop off to Bottom of Ditch

T.P.

3.11

33.15

3.33

30.04

158+79^E

3.12 30.03

West

end Boxsec No 7

159+00

3.09 30.06

160+00

2.71 30.34

T.P.

161+00

3.14

33.79

2.50

30.65

162+00

2.84 30.95

162+70⁸

2.62 31.17

East end

Box section No 7

T.P.

8.61

39.88

2.52

31.27

163+00

8.60 31.28

164+00

8.38 31.50

165+00

7.97 31.91

165+03⁵

8.00 31.88

End of

Bissel's Contract.

166+00

7.75 32.13

167+00

7.45 32.43

168+00

7.14 32.74

169+00

6.80 33.18

97

98

1600

Sta	+	+11	-	Elev
T.P.	9.99	43.33	6.54	33.34
170+00			9.95	33.38
171+00			9.65	33.68
172+00			9.37	33.96
173+00			9.06	34.27
174+00			8.74	34.59
175+00			8.02	35.31
176+00			7.39	35.94
177+00			6.78	36.55
178+00			6.19	37.14
179+00			5.58	37.95
180+00	8.67	47.00	5.00	38.33
181+00			8.20	38.80
182+00			7.60	39.40
183+00			7.03	39.97
183+27 ⁸			6.70	40.30
183+52 ⁵			6.30	40.70
TP	12.76	57.19	2.57	44.43
183+64 ³			6.59	50.60

99

West end Covered section below Drop Hol. City sec.

Bottom Drop Hol. City Sec.

Weir Knife Top Drop Hol

100

101

1600

Sta + H.I. - Elev

57.19

184+00 7.0 50.19

185+00 6.41 50.78

186+00 5.84 51.35

187+00 5.29 51.90

188+00 4.65 52.54

189+00 4.02 53.17

190+00 3.38 53.81

190+95^b 2.71 54.48 Bottom Drop No. 2 City Section.191+00^c 0.46 56.73 on slope of Drop.

T.P. 12.92 67.47 2.64 54.55

191+00. 8.16 59.31 Top of Drop

192+00 7.55 59.92

193+00 6.89 60.58

194+00 6.33 61.14

195+00 5.72 61.75

196+00 5.16 62.31

197+00 9.81 72.72 4.56 62.91

198+00 7.17 63.55

102

1600

Sta.

+

H.L.

-

Elev

72.72

199+00

8.61

64.11

200+00

8.04

64.68

201+00

7.41

65.31

202+00

6.83

65.89

203+00

6.23

66.49

204+00

TR

11.07

78.19

5.62

67.12

205+00

10.54

67.65

206

9.92

68.27

207

9.33

68.86

208

8.73

69.46

209

8.12

70.07

210

7.46

70.73

211

11.38

82.67

6.90

71.29

212

10.72

71.95

213

10.05

72.62

214

9.43

73.24

215

8.82

73.85

216

8.29

74.38

103

104

Sta	+	H.I	-	1600 Elev
		82.67		
217			7.67	75.00
218			7.00	75.67
TP	7.14	85.81	9.00	78.67
219	1		9.56	76.25
220			8.93	76.88
221			8.33	77.48
221+257			8.28	77.53 Spillway
222			7.77	78.04
223	11.58	89.84	7.55	78.26
224			11.33	78.57
225			11.07 ⁸¹³	78.77
226			10.78	79.06
227			10.49	79.35
228			10.33	79.51
229			10.05	79.79
230			9.77	80.07
231	8.08	88.37	9.55	80.29
232			7.82	80.55

105

106

Sta + HI - Elev

88.37

233 7.57 80.78

234 7.33 81.04

235 7.02 81.35

236 6.87 81.50

8.90 90.56 6.71 81.66

237 8.89 81.67

238 8.57 81.99

239 8.36 82.20

240 8.01 82.55

241 7.78 82.78

242 7.48 83.08

243 7.32 83.24

244 8.53 91.97 7.12 83.44

245 8.21 83.76

246 7.97 84.00

247 7.76 84.21

248 7.52 84.45

249 7.25 84.72

107

108

1600

Sta	+	H ₁	-	Elev
		91.97		
250 TP	5.81	90.85	6.93	85.04
251			5.52	85.33
252			5.33	85.52
253			5.07	85.78
254			4.88	85.97
255			4.61	86.24
256	5.85	92.40	4.30	86.55
257			5.69	86.76
258			5.91	86.99
259			5.15	87.35
260			4.58	87.82
261			3.92	88.48
262	7.17	96.23	3.34	89.06
263			6.55	89.68
264			6.0	90.23
265			5.41	90.82
266			4.81	91.42
267			4.19	92.04

109

Sta	+	H1	-	1600 Elev	
		96.23			
268	±	3.60		92.63	
269		3.03		93.20	
269+32 ^s		2.83		93.40	End of Covered sec below Drop
T.P.	12.29	1708.31	0.71	96.02	
269+51 ^s					Bottom Drop End of Ditch Sec. Beg. of Flume
269+60 ^s		5.01		<u>1703.30</u>	TOP " " " " " " " "
<u>269+65^s</u>		4.82		03.49	Beg. of Steel
270		4.59		03.72	
271		4.10		04.21	
272		3.57		04.74	
T.P.	8.92	117.18	0.05	1708.26	
273		11.95		05.23	
274		11.48		05.70	
275		11.01		06.17	
275+89 ^s		10.48		06.70	East end Steel 1 st section of Flume
276		10.62		06.56	
276+05 ^s		10.62		06.56	spillway
276+57 ^s		10.14		07.09	Bottom Drop 1/2. Ditch sec. Plain Drop

112

sta

+

H.I.

11

1700

Elev

11718

2276+71.8			5.16	12.02	Top Drop No 2.
2277			5.02	12.16	
2278			9.40	12.78	
<u>2278+12³</u>			4.27	12.91	Steel West End 2 nd Flume Sec.
2279.			3.93	13.25	
2280.			3.36	13.82	
2 T.P.	7.11	124.20	0.09	117.09	
2281			9.90	14.30	
2282			9.35	14.85	
2283			8.87	15.33	
2283+96.7			8.33	15.87	East End 2 nd Flume Sec.
2			11.73	1712.47	B.M. No 19 Correct Elev = 1712.48
2 New H.I.	11.70	1124.18		1712.48	B.M. No 19
2 T.P.	11.85	135.25	0.78	1723.40	
2 284.					on covering of Drop.
2 284+12					Bottom Drop No 3.
2 284+27 ⁵			9.95	25.80	Top " No 3.
2 284+28 ⁹			9.24	26.01	Beg Steel West end 3 rd Flume Sec.

113

11A

Sta	+	H.I.	-	Elev	
		35.25		170.0	
285			8.98	26.27	
286			8.09	27.16	
286+05 ²⁵			7.89	27.36	End steel
286+23					Bottom Drop No 4
TP	12.71	46.23	1.73	33.52	
286+37			9.30	36.93	Top Drop No 4
+38 ⁸			9.25	36.98	West end steel 4 th Flume sec.
287			8.92	37.31	
288			8.35	37.88	East " " 4 th " "
+51 ⁹			7.94	38.29	↓
+64 ²					Bottom Drop No 5
+76 ¹ TP	10.17	54.51	1.89	44.34	Top " No 5
+78 ³			9.88	44.63	West end steel 5 th Flume sec.
289			9.64	44.87	
290			9.10	45.41	
+36 ⁵			8.93	45.58	East " " 5 th " "
+50					Road X
+69 ⁸			8.79	45.72	Bottom Drop No 6

11B

116

Sta	+	H.I.	-	Elev
		54.51		1700
290+79			4.38	50.13 Top Drop No. 6.
+ 80 ⁹			4.22	50.29 West and Steel 6 th Flumes sec.
291.			4.17	50.34
T.P.	7.19.	58.15	3.55	50.96
291+935			7.23	50.92 East " " 6 th " " Below Hauser Cottage D. Dam
292.			7.25	50.90
			6.76	1751.39 Check B.M. 22 Correct Elev 1751.38.
293			6.75	51.40
+ 93.5			6.40	51.75 Bottom Rapids below Weir Knife Hauser Cottage. Diverting Dam.
+ 93 ⁸			2.97	55.17 Weir blade
T.P. top Dam	7.31	65.04	0.42	57.73
296+40			6.40	58.64 West end Boulder Canal leading into Reservoir (Diverting Dam)
297.			4.61	60.43 Bottom Drop in Boulder Canal
+ 77 ²			2.71	63.33
T.P.	12.95	77.42	0.57	64.47
298.			12.02	65.40 on Drop.
T.P.	12.68	89.59	0.51	76.91
298+66 ²			9.84	79.15 Top of Drop Beginning of Concrete

117

118

Sta	+	HI	-	170° Elev		
		89.59				
299.			9.69	79.92		
300.			9.08	80.57		
	+10 ⁸		8.73	80.86	Bottom	Drop No. City Sec No 2.
	+20.7		5.04	84.55	Top	" No 1
	+96		4.50	85.09	Bottom	" No 2 " " No 2.
301.			2.80	86.79	OR. Drop.	
T.P.	10.78	1800.26	0.11	89.48	Top	Drop No 2 " " No 2
301+086			10.09	90.17	↓	
302.			9.57	90.69		
303			8.94	91.32		
304			8.40	91.86		
	+84				Road X	
305.			7.70	92.56		
	+58 ⁹		7.20	93.06	Bottom	Drop No 3.
	+72 ²		1.33	98.93	Top	" No 3
T.P.	7.98	1806.97	1.27	98.99		
			7.86	1799.11	Check	BM 27. Elev 1799.11
306.			7.94	99.03		

119

120

Sta	+	H	-	1700 Elev	
				1808.97	
307.			728	99.71	
	+80 ⁵		6.80	1800.17	Bay of Steel 1 st Flume
308			6.80	00.17	
309.			6.27	00.70	
310			5.71	01.26	
T.P.	8.50	13.24	2.23	1604.74	
311			11.51	01.73	
312			10.98	02.26	
313			10.47	02.77	
	+39.5		10.39	02.85	End of steel 1 st flume
314			9.89	03.35	
	+15 ³		9.74	03.46	Bottom Drop No 4
	+25 ⁴		4.74	08.50	Top " No 4
315.			4.34	08.90	
316			3.77	09.47	
T.P.	9.90	22.51	0.63	12.61	
316+14 ⁸			12.86	09.65	Bottom Drop No 5
	+26'		7.84	14.67	Top " No 5

121

122

123

Sta	+	HI	-	1700 Elev	
		22.51			
316+79 ⁹			7.48	15.03	Bottom Drop No 6
+92'			2.34	20.17	Top " No 6
317			2.36	20.15	
T.P.	8.77	28.95	2.33	20.18	
318			8.24	20.71	
319			7.62	21.33	
+41 ⁸			7.35	21.60	West end of Flume 2 on Steel
320			7.08	21.87	
321			6.56	22.39	
+33 ⁹			6.43	22.52	East " " " "
+55.			6.31	22.64	Bottom Drop No 7.
+63 ⁷ T.P.	10.52	36.37	3.10	25.85	Top " No 7.
322			10.38	25.99	
323			9.74	26.63	
+36 ⁹			9.51	26.86	End of Corered sec. Below Drop 7.
+53 ⁸					Bottom Drop No 8.
T.P.	9.56	45.20	0.73	35.64	
			7.12	1738.08	check BM 28 Connect Elev = 1738.11

124

1700

45.20

323+73⁸

7.15 38.05 Top Drop 1708.

+754

7.05 38.15^{West} End of steel last Flume Sec. No Roping boards.

324

7.05 38.15

325

6.42 38.78

326

5.87 39.33

327

5.36 39.84

328

4.69 40.51

+565

4.29 40.91 East end last Flume.

+90.5

4.05 41.15 Bottom of Rapids below weir Diverting Dam end of Conduit.

329+00³

0.80 44.40 weir finite at outlet of Dam

~~7.115~~

6.311 Miles

125

126

Sta. Check Levels

B.M. No. 16	7.91	1640.02		1632.11	
	8.77	1640.03	8.76	1631.26	
	5.59	1641.07	4.55	1635.48	
170+00			7.71	1633.36	
	5.83	1642.44	4.46	1636.61	
	6.13	1648.13	0.44	1642.	
180+00			9.83	1638.30	
	11.43	1657.54	2.02	1646.11	
			13.14	1644.40	Old T.P. Near Sta 183+52.5
183+64.30			6.97	1650.57	
	9.19	1663.66	3.07	1654.47	
	5.81	1668.21	1.26	1662.40	
191+00			7.88	1659.33	
	6.81	1672.15	2.87	1665.34	
	5.98	1673.82	4.31	1667.84	
202+00			7.93	1665.89	
	7.75	1678.60	2.97	1670.85	
	6.04	1679.74	4.90	1673.70	
213+00			7.12	1672.62	

127

1679.74

4.67 1681.37 3.04 1676.70

4.29 1677.08 T.B. 177 No 6 Correct Elev. = 1677.08.

6.63 1685.67 2.33 1679.04

219+00 9.43 1676.24 Old elev = 76.46

7.01 1688.13 4.55 1681.12

7.97 1690.16 5.94 1682.19

9.87 1680.29 T.P. Old level line Elev = 1680.56

5.13 1688.62 6.67 1683.49

5.86 1690.40 4.08 1684.54

241+00 7.60 1682.80

5.35 1691.14 4.61 1685.79

244+00 010 T.P. 7.70 1683.04

Road X's

1. 218+03⁹ to 218+212. 239+81² to 239+98²3. 290+53⁷ to 290+67⁶4. 304+71²⁰ to 305+005. 313+82⁷ to 313+97⁸Drop Top 305+72²

132

133

134

135

136

137

138

+ HI - Elev

2.67 1608.71 1606.04

0+00 West end 2nd Box sec. 9.91 1598.8 flow line.
Below Drop No 21+56.6 = East End ^{2nd} Box sec 9.55 1599.16 flow line1+56.6 on top of Wall S. side 6.03 1602.68
N. side 6.16 1602.65

2+00 9.36 1599.35 flow line

2+00 on top of Wall S side 6.44 1602.29
N. side 6.43 1602.272+63⁹ West end 1st Box sec 9.15 1599.56 flow line
Below Drop No 2.2+63² on top of Wall S. side 5.87 1602.84
N. side 5.71 1603.004+35.6 East end 1st Box Sec. 8.64 1600.07 flow line4+35.6 on top of Wall S side 4.96 1603.75
N. side 4.88 1603.83

4+47.3 Bottom of Drop No 2 8.46 1600.25 flowline

4+91.2 top " " 2 3.64 1605.07 " "

139

B.M. Tree 50' to right Drop No 2

Sta	+	H.I.	-	Elev
		1635.45		1631.94

0+00. Assumed 7.80 1627.65 Flow line West end long Flume near Salazar Dam.

4.76 1630.69 S. side on top of wall.

4.85 1630.60 N. " " " " also top of steel

0+50.3 7.87 1627.58 Flow line East end Road crossing near flume.

4.42 1631.03 S. side on top of wall

4.42 1631.03 N. side " " " "

0+36.3 5.0 1630.45 S. " " " " "

4.98 1630.47 N. " " " " "

T.P. 4.23 34.62 5.06 1630.39

0+82.2 7.24 1627.38 Flow line West end Road Crossing.

4.07 1630.55 S. side on top of wall

4.07 1630.55 N. " " " " "

2+03. 7.60 1627.02 Flow line Top of Drop No. 3

4.66 1629.96 S. side on top of wall

4.61 1630.01 N. side " " " "

2+15.5 8.09 1626.13 Flow line Break in Drop

5.49 1629.13 S. side on top of wall

5.47 1629.15 N. side " " " "

142

Sta.	+	141	-	Elev		
T.P.	2.90	25.45	12.07	22.55		
2+513			8.72	1616.73	Flowline	Bottom of Drop No 3.
			5.20	1620.25	S. Side	on top of Wall
			5.19	1620.26	N. Side	" " " "
2+59.7			8.67	1616.78	Flowline	East end Box sec. Below Drop No 3
			5.05	1620.90	S. Side	on top of Wall
			5.10	1620.35	N. Side	" " " "
3+38.5			9.08	1616.37	Flowline	West end of Box. Below Drop No 3
			5.84	1619.61	S. Side	on top of Wall
			5.91	1619.54	N. "	" " " "

143

using flow line of Effluent
Pipe as datum

Length of
Rod Rev. 6 x 6 uprights.

		Bent No 5 west side			
11.61	8.86	Concrete	7' 10"	Gate house	Lower end W side
11.67	8.92	"East side"	"	"	Lower Upper " East
7.34		Top Wood		stave pipe	Lower side
11.65	8.90	Bent. No 4		West side	
11.61	8.86	" No 4		East "	
11.60	8.85	Bent No 3		West "	
11.63	8.88	" " 3		East "	
11.63	8.88	Bent. No 2		West Side	
11.67	8.92	" " 2		East "	
11.56	8.81	Bent No. 1		West side	
11.66	8.91	" " 1		East "	
<u>2.75</u>		Flow line effluent pipe.			
6.93		Top Wood stave Pipe upper side.			

146

Settlement and Recession
of Monera Dam

Recession

Water 143.00

R.P.No.	Dist west of Ref. Line	R.P.No.	Dist west of Ref. Line
1	8 $\frac{1}{2}$ " 8 $\frac{3}{8}$ " .6927	18	9 $\frac{3}{16}$ " 9 $\frac{1}{32}$ " ^{.7786}
2	9" 9 $\frac{1}{16}$ " .7526	19	8 $\frac{3}{8}$ " 8 $\frac{1}{16}$ " ^{.7057} 9 $\frac{15}{32}$ "
3	8 $\frac{1}{2}$ " 9 $\frac{3}{16}$ " 8 $\frac{15}{32}$ " .7318	20	8 $\frac{1}{16}$ " 8" 8 $\frac{1}{32}$ " ^{.6693}
4	8 $\frac{15}{16}$ " 9 $\frac{5}{8}$ " 9 $\frac{9}{32}$ " .7734		
5	11 $\frac{3}{16}$ " 11 $\frac{5}{16}$ " 11 $\frac{4}{16}$ " .9375		
6	12 $\frac{3}{16}$ " 12 $\frac{1}{16}$ " 12 $\frac{7}{16}$ " 1.0365		
7	12 $\frac{1}{4}$ " 13 $\frac{1}{16}$ " 12 $\frac{19}{32}$ " 1.0495		
8	13" 13 $\frac{5}{16}$ " 13 $\frac{5}{32}$ " 1.0964		
9	12 $\frac{3}{8}$ " 13 $\frac{5}{16}$ " 12 $\frac{27}{32}$ " 1.0703		
10	12 $\frac{3}{4}$ " 13 $\frac{1}{2}$ " 13 $\frac{1}{8}$ " 1.0938		
11	13 $\frac{1}{16}$ " 13 $\frac{7}{8}$ " 13 $\frac{25}{32}$ " 1.1484		
12	13 $\frac{5}{16}$ " 14" 13 $\frac{21}{32}$ " 1.1380		
13	12 $\frac{3}{4}$ " 13 $\frac{5}{16}$ " 13 $\frac{1}{32}$ " 1.0859		
14	12 $\frac{1}{16}$ " 12 $\frac{1}{2}$ " 12 $\frac{9}{32}$ " 1.0234		
15	10 $\frac{5}{8}$ " 11 $\frac{3}{8}$ " 11" .9167		
16	10 $\frac{1}{16}$ " 10 $\frac{3}{8}$ " 10 $\frac{23}{32}$ " .8932		
17	9 $\frac{1}{16}$ " 9 $\frac{5}{8}$ " 9 $\frac{1}{32}$ " .8647		

Feb 14, 1916

Medium east wind

R. Wueste

J.C. Kneeshaw, Seth Swenson

147

B.M.	+	HI	-	Elev.	
	1.42	156.62		155.20	S. End Dam
R.P. 4			4.25	52.37	
2			4.29	52.33	
3			4.28	52.34	
4			4.31	52.31	
T.P. 5	0.88	153.15	4.35	152.27	
6			0.94	52.21	
7			1.02	52.13	
8			1.03	52.12	
9			1.01	52.14	
10			1.09	52.06	
11			1.11	52.04	
12			1.10	52.05	
13			1.08	52.07	
14			1.05	52.10	
T.P. 15	2.65	154.76	1.04	152.11	
16			2.60	52.16	
17			2.54	52.22	
18			2.41	52.35	
19			2.34	52.42	
20			2.38	52.38	
T.P. 10	5.34	157.35	2.75	152.01	

O.P.K.

148

B.M.	157.35	2.16	155.19	Send dam
B.M.#6	.	7.79	149.56	

149

150

151

152

153

154

$$\begin{array}{r} 1712.48 \\ \underline{1170} \\ 1724.18 \\ \underline{078} \\ 1723.90 \\ \underline{71.85} \\ 1735.25 \end{array}$$

155

156

8-10-14
Knee sharr-ins
Gale-rod

Level	in	#	Tunnel	Elev	W Portal
128+50	4.12	1004.12		100.00	W Portal on bottom
T.P.	4.10	104.48	3.74	100.38	
T.P.	4.32	104.97	3.83	100.65	
122+58			4.5	100.5	bottom
122+58	0.96			105.93	Plug root ^{5.40}
121+75			4.32	100.65	bottom ^{5.99}
121+75	1.57		4.3	106.54	Plug
121+45			4.36	100.61	bottom
121+45	1.21			106.15	Plug ^{5.51}
120+78			4.31	100.66	bottom
120+78	1.15			106.12	Plug ^{5.46}
T.P.	4.35	105.32	4.00	100.97	
115+91			4.50	100.82	E Portal
121+75	1.79				

157

159 Photos on New Cottonwood Road
Eastman 3A special

7-14-14

160

J.C. Wheeler Roll 14

1	8.A.M.	115-1	11	.25	1	N
2	8:10	116-2	11	.25	3	W
3	8:15	117-3	45	.5	26	W
4	8:20	118-4	45	.5	55	W
5	8:20	119-5	45	.5	65	E
6	8:30	120-6	7	.25	A17	SE
7	8:35	121-7	7	.25	A18	NW
8	8:35	122-8	7	.25	A18	SE
9	8:45	123-9	45	.5	R67	E
10	8:50	124-10	8	.25	R62	E

161

Harvey 1 meal 30th 9/ July 1 2-9 1-10 \$4.00

L. Stay 1 " 7-1 1-6 3-7 3-8 1-9 \$6.30

Jamul 1 shoe for Bottie 1 meat for horses

Lyon Valley 1 meal 10 1-11 1-13 \$2.10

Barnett 1-11 3-12 2-13 3-14 2-15.

