1027

MISSION VALLEY

Test Wells - Guage Hts.

KEUFFEL & ESSER CO.

DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS.
NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

MICROFILMED
DEC 17 1964

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tabels see end of book.

RETURN TO CITY ENGINEER'S OFFICE
CITY HALL, SAN DIEGO, CAL.

124940

City Well #1

9-17-15	11 –	20½#	50.4		H.
9-23-15	1 –	20½#	50.4		H.
10-1-15	3 –	20½#	50.4		H.
10-8-15	3 –	20½	50.4		H.
10-15-15	2 –	20½	50.4		H.
10-22-15	3 –	20½#	50.4		H.
10-30-15	9 –	20½#	50.4		H.
11-5-15	2 –	20½#	50.4		H.
11-12-15	2 30	20½#	50.4		H.
11-19-15	3 –	20½#	50.4		H.
11-24-15	9 30	20½	50.40		H.
12-2-15	2 –	19#	46.9		H.
12-10-15	1 –	19#	46.9		H.
12-17-15	2 –	19#	46.9		H.
12-23-15	1 30	19#	46.9		H.
12-31-15	2 –	19#	46.9		H.
1-7-16	2 –	19#	46.9		H.
1-15-16	11 30	19#	46.9		H.

City Well #2

9-23-15	11 -	22#	46.9		H.
10-1-15	3 -	22#	46.9		H.
10-8-15	3 -	22#	46.9		H.
10-15-15	2 -	22#	46.9		H.
10-22-15	3 -	22#	46.9		H.
10-30-15	9 -	22#	46.9		H.
11-5-15	2 -	22#	46.9		H.
11-12-15	2 30	22#	46.9		H.
11-19-15	3 -	22#	46.9		H.
11-26-15	10 -	22#	46.9		H.
12-2-15	2 -	22#	46.9		H.
12-10-15	1 -	22#	46.9		H.
12-17-15	2 -	22#	46.9		H.
12-23-15	1 30	22#	46.9		H.
12-31-15	2 -	22#	46.9		H.
1-7-16	2 -	22#	46.9		H.
1-15-16	11 30	22#	46.9		H.

City Well #3

9-17-15	11 –	21½#	44.1		N.
9-23-15	11 –	21½#	44.1		N.
10-1-15	3 –	21½#	44.1		N.
10-8-15	3 –	21½	44.1		N.
10-16-15	2 –	21½#	44.1		N.
10-22-15	3 –	21½#	44.1		N.
10-30-15	9 –	21½#	44.1		N.
11-5-15	2 –	21½#	44.1		N.
11-12-15	2 30	21½#	44.1		N.
11-19-15	8 –	21½#	44.1		N.
11-24-15	10 –	21½#	44.1		N.
12-3-15	2 –	21¼#	43.6		N.
12-10-15	1 30	21¼#	43.6		N.
12-17-15	2 –	21¼#	43.6		N.
12-23-15	1 30	21¼#	43.6		N.
12-31-15	2 –	21¼#	43.6		N.
1-7-16	2 –	21¼#	43.6		N.
1-15-16	11 30	21¼#	43.6		N.

City well #4

9-17-15	11 –	22¼#	41.6		N.
9-23-15	11 –	22¼#	41.6		N.
10-1-15	3 –	22¼#	41.6		N.
10-8-15	3 –	22¼#	41.6		N.
10-15-15	2 –	22¼	41.6		N.
10-22-15	3 –	22¼#	41.6		N.
10-30-15	10 –	22¼#	41.6		N.
11-5-15	2 –	22¼#	41.6		N.
11-12-15	3 –	22¼#	41.6		N.
11-19-15	3 –	22¼#	41.6		N.
11-26-15	10 30	22¼#	41.6		N.
12-2-15	2 –	22¼#	41.6		N.
12-10-15	1 30	22¼#	41.6		N.
12-17-15	2 –	22¼#	41.6		N.
12-23-15	2 –	22¼#	41.6		N.
12-31-15	2 –	22¼#	41.6		N.
1-7-16	2 –	22¼#	41.6		N.
1-15-16	11 30	22¼#	41.6		N.

City well #5

9-17-15	11 –	22½#	43.2		N.
9-23-15	11 –	22½#	43.3		N.
10-1-15	3 –	22½#	43.3		N.
10-8-15	3 –	22½#	43.3		N.
10-15-15	2 –	22½#	43.3		N.
10-22-15	3 –	22½#	43.3		N.
10-30-15	10 –	22½#	43.3		N.
11-5-15	2 30	22½#	43.3		N.
11-12-15	3 –	22½#	43.3		N.
11-19-15	3 –	22½#	43.3		N.
11-26-15	10 30	22½	43.3		N.
12-2-15	2 00	22#	42.1		N.
12-10-15	1 30	22#	42.1		N.
12-17-15	2 30	22#	42.1		N.
12-23-15	2 –	22#	42.1		N.
12-31-15	2 –	22#	42.1		N.
1-7-16	2 30	22#	42.1		N.
1-15-16	11 –	22#	42.1		N.

		22½#			
	City	well	#6		
		50.18			
9-17-15	11 –	22½#	41.3		H.
9-23-15	11 –	22½#	41.3		H.
10-1-15	3 –	22½#	41.3		H.
10-8-15	3 –	22½#	41.3		H.
10-15-15	2 –	22½#	41.3		H.
10-22-15	3 –	22½#	41.3		H.
10-30-15	10 –	22½#	41.3		H.
11-5-15	2 30	22½#	41.3		H.
11-12-15	3 –	22½#	41.3		H.
11-19-15	3 30	22½#	41.3		H.
11-26-15	11 –	22½#	41.3		H.
12-2-15	2 –	22½#	41.3		H.
12-10-15	1 30	22½#	41.3		H.
12-17-15	2 30	22½#	41.3		H.
12-23-15	2 –	22½#	41.3		H.
12-31-15	2 30	22½#	41.3		H.
1-7-16	2 30	22½#	41.3		H.
1-15-16	11 –	22½#	41.3		H.

City Well #7

	City	well	# 8		
9-17-15	11 –	19¾#	38.2		N.
9-23-15	11 –	19¾#	38.2		N.
10-1-15	3 –	19¾#	38.2		N.
10-8-15	3 –	19¾	38.2		N.
10-15-15	2 30	19¾#	38.2		N.
10-22-15	3 –	19¾#	38.2		N.
10-30-15	10 –	19¾#	38.2		N.
11-5-15	2 30	19¾#	38.2		N.
11-12-15	3 –	19¾#	38.2		N.
11-19-15	3 30	19¾#	38.2		N.
11-26-15	1 –	19¾#	38.2		N.
12-2-15	2 30	19¾#	38.2		N.
12-10-15	2 –	19¾#	38.2		N.
12-17-15	2 30	19¾#	38.2		N.
12-23-15	2 –	19¾#	38.2		N.
12-31-15	2 30	19¾#	38.2		N.
1-7-16	2 30	19¾#	38.2		N.
1-15-16	10 30	19¾#	38.2		N.

City Well #9

9-17-15	1 –	21#	37.9		H.
9-24-15	1 30	21#	37.9		H.
10-1-15	3 –	21#	37.9		H.
10-8-15	3 –	21#	37.9		H.
10-15-15	2 30	21#	37.9		H.
10-22-15	3 –	21#	37.9		H.
10-30-15	11 –	21#	37.9		H.
11-5-15	2 30	21#	37.9		H.
11-12-15	3 –	21#	37.9		H.
11-19-15	3 30	21#	37.9		H.
11-26-15	7 –	21#	37.9		H.
12-3-15	2 30	21#	37.9		H.
12-10-15	2 –	21#	37.9		H.
12-17-15	2 30	21#	37.9		H.
12-23-15	2 –	21#	37.9		H.
12-31-15	3 30	21#	37.9		H.
1-7-16	3 –	21#	37.9		H.
1-15-16	10 30	21#	37.9		H.

City well #10

		16.5#			
9-17-15		17#	26.1	N.B.	H.
9-23-15		17#	26.1	"	H.
10-1-15	3 –	17#	26.1	"	H.
10-8-15	3 –	17#	26.1	"	H.
10-15-15	2 30	17#	26.1	"	H.
10-22-15	3 –	17#	26.1	"	H.
10-30-15	11 –	17#	26.1	"	H.
11-5-15	2 30	17#	26.1	"	H.
11-12-15	3 –	17#	26.1	"	H.
11-19-15	2 30	17#	26.1	"	H.
11-26-15	2 –	17#	26.1	"	H.
12-3-15	2 –	17#	26.1	"	H.
12-10-15	2 –	17#	26.1	"	H.
12-17-15	3 –	17#	26.1	"	H.
12-23-15	3 –	17#	26.1	"	H.
12-31-15	2 30	17#	26.1	"	H.
1-7-16	8 –	17#	26.1	"	H.
1-15-16	10 –	17#	26.1	"	H.

City well # 11

City Well #12

Well #13

Date	Time	Ele. RP	Reading	Ele. water	Observer
		43.86	9.20		
9-17-15	3 —		9.56	34.30	H.
9-24-15	8 30	"	9.45	34.41	H.
9-30-15	12 30	"	9.53	34.33	H.
10-8-15	9 —		9.66	34.20	H.
10-14-15	4 —	"	9.55	34.31	H.
10-22-15	1 —	"	10.06	33.80	H. R
10-29-15	8 —	"	9.80	34.06	H.
11-5-15	8 30	"	9.84	34.02	H.
11-12-15	8 30	"	9.97	33.89	H.
11-19-15	10 —	"	9.88	33.98	H.
11-26-15	3 —	"	9.92	33.94	H.
12-3-15	8 30	"	9.98	33.88	H.
12-10-15	8 30	"	9.98	33.88	H.
12-16-15	9 30	"	9.87	33.99	H.
12-24-15	9 30	"	9.94	33.92	H.
12-30-15	1 —	"	8.21	35.65	H.
1-7-16	9 30	"	9.80	34.06	H.
1-15-16	9 —	"	8.07	35.79	H.

U.S.G.S. #346 P.L. 1110
Windmill D 165

Well # 14

		#3,86	7.71		
9-17-15	3 -		7.88	35.98	H.
9-24-15	2 -		7.49	36.17	H.
9-30-15	12 30	"	7.77	36.09	H.
10-8-15	2 30	"	7.90	35.96	H.
10-14-15	3 30	"	7.85	36.01	H.
10-22-15	1 -	"	7.93	35.93	H.
10-28-15	12 -	"	7.93	35.93	H.
11-5-15	1 -	"	7.94	35.92	H.
11-12-15	2 -	"	7.98	35.88	H.
11-19-15	4 -	"	8.01	35.85	H.
11-26-15	9 -	"	8.03	35.83	H.
12-2-15	3 -	"	8.02	35.84	H.
12-10-15	2 30	"	8.04	35.82	H.
12-16-15	9 30	"	8.08	35.78	H.
12-24-15	9 30	"	8.04	35.82	H.
12-30-15	1 -	"	7.90	35.96	H.
1-7-16	9 30	"	7.88	35.98	H.
1-15-16	9 30	"	7.65	36.30	H.

Lushers Pump
PL # 1110 D 19'

Vacant -

Well #15

		47.87	11.40		
9-17-15	3 30		11.40	36.47	H.
9-24-15	2 –		11.40 #	36.47	H. P.
9-30-15	12 –	"	11.55	36.32	H.
10-8-15	2 30	"	11.73	36.14	H.
10-14-15	3 30		11.69	36.18	H.
10-22-15	1 –	"	12.01	35.86	H. P
10-28-15	12 –	"	11.69	36.18	H.
11-5-15	1 –	"	11.73	36.14	H.
11-12-15	2 –	"	11.77	36.10	H.
11-19-15	4 –	"	11.78	36.09	H.
11-26-15	2 –	"	11.79	36.08	H.
12-2-15	3 –	"	11.79	36.08	H.
12-10-15	3 –	"	11.77	36.10	H.
12-16-15	9 30	"	11.86	36.01	H.
12-24-15	9 30	"	11.87	36.00	H.
12-30-15	1 –	"	11.67	36.20	H.
1-7-16	9 –	"	11.74	36.13	H.
1-15-16	9 30	"	11.47	36.40	H.

Jepson's well
Lot 8 of Pl. 1113
D 26.8

Pump & motor taken out.

Well #16

		#682	9.25 9.86		
9-17-15	12 —		9.30 A	37.52	N.
9-24-15	11 30		9.42	37.20	H.
9-29-15	11 30		9.00	37.82	H. A
10-7-15	12 —	"	9.00	37.82	H.
10-14-15	3 —	"	9.00	37.82	H.
10-22-15	11 —	"	8.90	37.92	H.
10-29-15	12 —	"	8.91	37.91	H
11-5-15	12 —	"	8.88	37.94	H
11-9-15	9 —	"	8.86	37.96	H
11-11-15	1 —	"	8.88	37.94	H
11-18-15	12 —	"	8.87	37.95	H
11-26-15	12 —	"	8.88	37.94	H.
12-3-15	12 —	"	8.87	37.95	H
12-9-15	11 30 —	"	8.87	37.95	H
12-16-15	2 30 —	"	8.88	37.94	H.
12-24-15	12 30 —	"	8.84	37.98	H
12-30-15	3 —	"	8.71	38.11	H.
1-7-16	1 —	"	8.83	38.00	H
1-15-16	10 30 —	"	8.65	38.17	H.

Ricards Well
Ex m Lot # 32
15 0?

Well #17

		44.91	7.17 / 44.91		
9-17-15	12 –		5.00	39.91	P.A.H.
9-24-15	11 30		5.00 A	39.91	P. H
9-29-15	11 30	"	8.08	36.83	H. P.
"	"	"	"	39.91 A	H.
10-7-15	12 –	"	7.07	37.84	H.
10-14-15	3 –	"	4.87	40.04	H
10-22-15	11 –	"	4.77	40.14	H.
10-29-15	11 30	"	4.80	40.11	H
11-5-15	11 30	"	4.95	39.96	H.
11-11-15	1 –	"	4.83	40.09	H.
11-18-15	12 30	"	5.12	39.79	H. P.
11-26-15	11 30	"	5.01	39.90	H.
12-3-15	11 30	"	4.77	40.14	H.
12-9-15	11 30	"	4.77	40.14	H.
12-16-15	2 –	"	4.75	40.16	H
12-24-15	12 30	"	4.72	40.19	H
12-30-15	3 –	"	4.57	40.34	H.
1-7-16	1 30	"	4.61	40.30	H.
1-15-16	10 30	"	4.37	40.54	H.

Q. Kearnes well

Ex. M. Lot 32 D13.1

Well #18

		48.77	8.26		
9-17-15	12 –	"	8.43	40.34	H.
9-24-15	11 30	"	8.53	40.24	H
9-29-15	11 30	"	8.31	40.46	H.
10-7-15	12 –	"	8.59	40.18	H.
10-14-15	3 –	"	8.50	40.27	H
10-22-15	11 –	"	8.47	40.30	H.
10-29-15	11 30	"	8.35	40.42	H.
11-5-15	11 30	"	8.30	40.47	H
11-11-15	1 –	"	8.37	40.45	H
11-18-15	12 30	"	8.25	40.57	H.
11-26-15	11 30	"	8.35	40.42	H.
12-3-15	11 30	"	8.30	40.47	H.
12-9-15	11 30	"	8.23	40.54	H.
12-16-15	3 –	"	8.34	40.53	H.
12-24-15	12 30	"	8.30	40.57	H
12-30-15	3 –	"	8.12	40.65	H.
1-7-16	1 30	"	8.12	40.65	H.
1-15-16	10 30	"	8.03	40.74	H.

Mc Dermott well
Ex. M. Lot 32
D 32'

Well #19

		54.15	10.85		
9-17-15	11 —		10.90	43.25	H.
9-23-15	2 —	"	11.00	43.15	H. D
9-29-15	11 30	"	11.00 D 11.85 D	43.15	H.
10-7-15	11 30	"	10.70	43.45	H
10-14-15	12 —		11.95 D 10.80	43.35	H. F
10-22-15	10 —		10.83	43.33	H.
10-28-15	11 —	"	10.83	43.33	H.
11-5-15	11 —	"	10.84	43.31	H.
11-11-15	1 30	"	11.87 10.86	42.28 43.29	H. D used
11-18-15	1 30	"	10.84	43.31	H.
11-24-15	10 30	"	10.76	43.39	H.
12-3-15	11 30	"	10.74	43.41	H.
12-9-15	11 30	"	10.69	43.46	H
12-16-15	2 —	"	12.67	43.48	H.
12-24-15	12 —	"	12.68	43.53	H.
12-31-15	11:30	"	12.47	43.68	H.
1-7-16	12 —	"	12.51	43.64	H.
1-13-16	2 30	"	12.54	43.61	H.

Gibson's windmill
Ex on Lot 31
USGS # 34B D 11.5

Well #20

5397 10.09

9-17-15	11		10.07	43.90	H
9-23-15	2 30	"	11.07		H.P
9-29-15	11 30	"	10.20	43.77	H
10-7-15	11 30	"	10.30	43.67	H.
10-15-15	12 —	"	10.33	43.75	H.
10-22-15	10 —	"	10.56	43.41	H.
10-28-15	11 —	"	10.38	43.59	H.
11-5-15	11 —	"	10.35	43.67	H.
11-11-15	1 30	"	10.86	43.61	H.
11-18-15	2 —	"	10.48	43.49	H.
11-26-15	10 —	"	10.40	43.57	H.
12-3-15	11 —	"	10.38	43.59	H.
12-9-15	11 30	"	10.33	43.64	H.
12-16-15	2 —	"	10.30	43.67	H.
12-24-15	12 —	"	10.36	43.71	H.
12-31-15	11 30	"	10.30	43.77	H.
1-7-16	12 —	"	10.05	43.97	H.
1-13-16	2 30	"	10.07	43.90	H.
		"	10.11	43.86	H.

Gibson's Pump
Exp. Lot #31
D. 17.7

Well # 21

		5940	8.15		
9-17-15	11 —		8.42	5 0.98	H
9-23-15	2 —	"	8.53	5 0.87	H.
9-29-15	11 —		8.54	5 0.86	H.
10-7-15	11 30	"	8.66	5 0.74	H
10-15-15	11 30	"	8.77	5 0.68	H.
10-22-15	10 —	"	8.82	5 0.58	H.
10-28-15	11 "	"	8.90.	5 0.50	H.
11-4-15	3 —	"	8.95	5 0.45	H
11-11-15	1 30	"	8.99	5 0.41	H.
11-18-15	2 30	"	8.96	5 0.44	H
11-26-15	9 30	"	9.02	5 0.38	H.
12-3-15	11 —	"	8.98	5 0.42	H
12-9-15	11 —	"	8.96	5 0.44	H
12-16-15	2 —	"	8.93	5 0.47	H.
12-24-15	12 —	"	8.91	5 0.49	H.
12-31-15	11	"	8.74	5 0.66	H
1-7-16	15 30	—	8.63	5 0.77	H
1-13-16	2 —	"	8.65	5 0.75	H.

Dug Well - Ex. Lot # 45
D - 10.5'

Well # 22

6-28-14	9.45	6.48	16.08	48.501

Pumping Agnes Gilles Pump
S.S.M. Lot # 44

	Well	# 23			
		5290	6.87		
9-17-15	11 –		8-13	44.77	H. P.
9-24-15	11 –	—	6.91	45.99	H.
9-30-15	11 00	"	6.91	45.99	H.
10-8-15	11 30	"	8.00-P 6.92	45.98	16.19
10-15-15	11 00	"	6.93	45.97	H. " P
10-22-15	10 30	"	6.92	45.98	H.
10-29-15	10 30	"	6.75	46.15	H.
11-5-15	11 –	"	6.65	46.25	H.
11-12-15	12 –	"	6.55	46.35	H.
11-19-15	3 30	"	6.50	46.40	H.
11-26-15	10 30	"	6.39	46.51	H.
12-3-15	1 30	"	6.29	46.61	H.
12-10-15	11 30	"	6.22	46.68	H.
12-16-15	1 30	"	6.16	46.74	H.
12-24-15	11 30	"	6.10	46.80	H.
12-31-15	10 30	"	6.01	46.89	H.
1-7-16	11 –	"	6.00	46.90	H
1-13-16	1 30	"	5.97	46.93	H.

Gettysburg's well
5x10 Lot # 36
D 20' 10" casing

Gettysburg moving away from ranch

Well #24

		4.24	3.46		
9-17-15	11 30		3.75	42.51	H
9-24-15	10 —		3.76	42.50	H
9-30-15	11 —		3.88	42.38	H
10-8-15	11 —	"	3.91	42.31	H
10-15-15	11 —	"	4.01	42.25	H
10-22-15	10 30	"	4.02	42.24	H
10-29-15	10 —	"	4.07	42.19	H
11-5-15	10 30	"	4.01	42.25	H
11-12-15	12 —	"	3.99	42.27	H
11-19-15	2 —	"	3.97	42.29	H
11-26-15	11 —	"	4.09	42.17	H
12-2-15	1 —	"	4.13	42.13	H
12-10-15	11 —	"	3.93	42.33	H
12-16-15	1 —	"	3.88	42.38	H
12-24-15	11 —	"	3.85	42.41	H
12-31-15	10 30	"	3.76	42.50	H
1-7-16	11 —	"	3.70	42.56	H
1-13-16	1 30	"	3.44	42.60	H

Chino Truck Garden
Ex Tract Lot #36
USGS #392 D9'

Well #25

		44.09	20.74	
9-17-15	2 -		21.01	43.08 H.
9-24-15	10 -	"	22.27	41.82 H.P.
9-30-15	10 30		22.56	41.53 H.
10-8-15	11 -	"	21.41	42.68 H.
10-15-15	10 30	"	21.47	42.62 H.
10-22-15	2 30	"	21.53	42.56 H.
10-29-15	9 30	"	21.55	42.54 H.
11-5-15	10 -	"	21.62	42.47 H.
11-12-15	10 30	"	21.71	42.38 H.
11-19-15	2 30	"	21.69	42.40 H.
11-26-15	1 30	"	21.73	42.36 H.
12-3-15	1 30	"	21.80	42.29 H.
12-10-15	11 -	"	21.78	42.31 H.
12-16-15	1 -	"	21.80	42.29 H.
12-24-15	10 30	"	21.79	42.30 H.
12-30-15	11 -	"	21.75	42.34 H.

Emma Hoff's concrete well

F.M. Lot #34 D 26.5'

Leased for 5 years &

9-17-15 Pumping

Well #26

		~~44.79~~ 44.61	5.22		
9-17-15	1 30		5.18	39.48	H.
9-24-15	9 30	"	5.18	39.43	H.
9-30-15	10 30	"	5.21	39.40	H.
10-8-15	11 —	"	5.25	39.36	H.
10-15-15	10 —	"	5.28	39.33	H.
10-22-15	2 30	"	5.29	39.32	H.
10-29-15	9 —	"	5.36	39.25	H.
11-5-15	10	"	5.38	39.23	H.
11-12-15	10 —	"	5.34	39.27	H.
11-19-15	1 —	"	5.35	39.26	H.
11-24-15	1 30	"	5.39	39.22	H.
12-3-15	1 —	"	5.37	39.24	H.
12-10-15	11 —	"	5.24	39.37	H.
12-16-15	1 —	"	5.33	39.28	H.
12-24-15	10 30	"	5.30	39.31	H.
12-30-15	10 30	"	5.16	39.45	H.
1-7-16	11 —	"	5.22	39.39	H.
1-13-16	1 —	"	5.19	39.42	H.

Peters pump
Fitt. lot # 34
D

Well #27

		91.90	47.90		
9-17-15	2 —	—	47.96	43.94	H.
9-24-15	9 30	"	48.00	43.90	H.
9-30-15	10 30	"	48.05	43.85	H.
10-7-15	10 30	"	48.15	43.75	H

Otheo Windmill at House
Ex. in Lot #33
70' D

Well #28

8-27-15	1 30	48.00	10.53	37.47	H.
9-30-15	10 30	—	10.30	37.70	H.
10-8-15	11 —	"	10.48	37.52	H.
10-15-15	10 —	"	10.50	37.50	H.
10-22-15	2 30	"	10.53	37.47	H.
10-29-15	9 —	"	10.57	37.43	H.
11-5-15	10 —	"	10.63	37.37	H.
11-12-15	10 —	"	10.65	37.35	H.
11-24-15	1 30	"	10.90	37.10	H.
11-30-15	10 —	"	10.78	37.22	H.

Other pump
Ex. on lot # 33
D 10'

Well #29

		44.25	10.51		
9-14-15	2 –	"	10.16	34.09	H.
9-17-15	2 30		10.80	33.45	H. D.
		used	10.70	34.05	H.
9-24-15	9 –		10.36	33.89	H.
9-30-15	9 30	"	10.44	33.81	H.
10-8-15	9 30	"	10.58	33.67	H.
10-15-15	8 –	"	10.75	33.50	H.
10-22-15	9 –	"	10.77	33.48	H.
10-28-15	10 –	"	10.70	33.55	H.
11-5-15	9 –	"	10.85	33.40	H.
11-12-15	9 30	"	10.84	33.41	H.
11-19-15	10 30	"	10.84	33.41	H.
11-26-15	9 30	"	10.87	33.38	H.
12-3-15	9 –	"	10.96	33.29	H.
12-10-15	9 –	"	10.95	33.30	H.
12-16-15	10 –	"	10.92	33.33	H.
12-24-15	10 –	"	10.93	33.32	H.
12-30-15	1 –	"	10.87	33.38	H.
1-7-16	10 30	"	10.75	33.50	H.
1-15-16	9 –	"	10.65	33.60	H.

Windmill at Hong Farm House

P.L. 11.09 D 18.8

Well #30

		42.21	839		
9-17-15	2 30	"	7.82	34.39	H.
9-24-15	9 -	"	7.93	34.28	H.
9-30-15	9 30	"	8.68	33.53	H. R
10-8-15	9 30	"	8.68	33.53	H. P
10-15-15	8 30	"	8.59	33.62	H.
10-22-15	2 -	"	8.63	33.58	H.
10-29-15	8 30	"	8.55	33.66	H.
11-5-15	9 -	"	8.38	33.83	H.
11-12-15	9 30	"	7.59	34.69	H.
11-19-15	10 30	"	7.85	34.36	H.
11-26-15	2 -	"	7.81	34.40	H.
12-3-15	9 30	"	8.59	33.62	H. P
12-10-15	10 —	"	7.56	34.65	H.
12-16-15	10 30	"	7.46	34.75	H.
12-24-15	10 30	"	7.40	34.81	H.
12-30-15	1 30	"	7.36	34.85	H.
1-7-16	10 30	"	7.23	34.98	H.
1-15-16	9 30	"	6.99	35.22	H.

Hong Kong Fast pump
Old pumping station
P.L. 1109 D 11.3

Well #31

		3963.4	4.00		
9-17-15	2 30		4.33	33.30	H.
9-24-15	9 —	"	4.42	33.21	H.
9-30-15	9 30	"	4.50	33.13	H.
10-8-15	9 —		4.35	33.28	H.
10-15-15	8 30	"	4.33	33.30	H.
10-22-15	2 —	"	4.37	33.26	H.
10-29-15	8 30	"	4.20	33.43	H.
			7.81	33.32	H.P.
11-5-15	9 —	"	4.31	33.37	usled
11-12-15	9 —	"	4.09	33.59	H.
			7.87	31.74	H.P.
11-19-15	10 —	"	4.25	33.38	usled
11-24-15	2 30	"	4.35	33.28	H.
12-3-15	9 —	"	4.22	33.41	H.
12-10-15	8 30	"	4.91	33.72	H.
12-16-15	10 —	"	4.83	33.81	H.
12-24-15	9 30	"	4.79	33.84	H.
12-30-15	1 30	"	4.69	33.94	H.
1-7-16	10 —	"	4.67	33.96	H.
1-15-16	9 —	"	4.41	34.22	H.

Hang Fans West Pump
Pl. 1109 D.8'

Well #32

		4911	9.90	
9-17-15	1—		12.40	36.71 N.
9-24-15	1—	" "	12.45	36.66 N.
9-30-15	9—	"	12.50	36.61 N.
10-8-15	2—		12.64	36.47 N.
10-14-15	330	"	12.60	36.51 N.
10-22-15	1—	"	12.66	36.45 N.
10-28-15	12—	"	12.70	36.41 N.
11-5-15	1—	"	12.67	36.44 N.
11-12-15	2—	"	12.71	36.40 N.
11-19-15	11 30	"	12.73	36.38 N.
11-24-15	2—	"	12.75	36.36 N.
12-2-15	3—	"	12.77	36.34 N.
12-10-15	3—	"	12.74	36.37 N.
12-16-15	930	"	12.75	36.36 N.
12-24-15	9—	"	12.74	36.37 N.
12-30-15	1—	"	12.59	36.52 N.
1-7-16	9—	"	12.42	36.49 N.
1-15-16	10—	"	12.31	36.80 N.

Old Brick well on Lot 8 of Pl. 1113
City S D 18'

Well #33

		70.26	7.86		
9-17-15	9 30		7.60	62.66 H.	Power mark
9-23-15	1 00		7.88	62.38 H.	
9-29-15	10 30	"	7.80	62.46 H	
10-7-15	10 30	"	7.05	63.21 H	
10-14-15	2 30	"	7.77	62.49 H +	
10-22-15	9 -	"	8.31	61.95 H.P.	
10-28-15	9 -	"	8.64	61.62 H.	
11-4-15	1 30	"	8.95	61.31 H	
11-15-15	2 30	"	9.21	61.05 H.	
11-18-15	3 -	"	9.40	60.86 H.	
11-24-15	9 -	"	9.65	60.61 H.	
12-3-15	10 30	"	9.80	60.46 H.	
12-9-15	10 30	"	9.88	60.38 H.	
12-17-15	10 30	"	9.98	60.28 H.	
12-24-15	9 -	"	10.07	60.19 H.	
12-31-15	9 -	"	9.93	60.33 H.	
1-6-16	11 30	"	10.13	60.13 H	
1-13-16	9 -	"	10.05	60.21 H.	

3 notches cut on west side of stillwell box - Allens N-Pump East of House

Well #34

53.95 54.50

9-17-15	10 30		6.60	47.35	H.
9-23-15	10 30		6.60 A	47.35	H. A
10-7-15	11 –	"	6.32	47.63	H.
10-15-15	11 30	"	6.50	47.45	H. A.P.
10-22-15	9 30	"	5.99	47.96	H
10-29-15	11 –	"	5.59	48.36	H.
11-4-15	2 –	"	5.56	48.39	H.
11-12-15	12 30	"	5.44	48.51	H.
11-19-15	2 30	"	5.31	48.64	H.
11-24-15	9 30	"	5.24	48.71	H.
12-3-15	3 –	"	5.15	48.80	H.
12-10-15	12 –	"	5.01	48.90	H.
12-16-15	1 30	"	5.00	48.95	H.
12-24-15	11 30	"	4.94	49.01	H.
12-31-15	10 –	"	4.83	49.12	H.
1-7-16	11 30	"	4.78	49.17	H.
1-13-16	1 30	"	4.75	49.20	H.

Allen's Line of Wells
80' S. of Pump. 5" casing

Well # 35

		85.26	8.47		
9-17-15	9 30		8.78	76.48	H
9-23-15	1 30		8.59	76.67	H
9-29-15	10 30		8.70	76.56	H
10-7-15	10 30		9.08	76.18	H
10-14-15	2 -	"	9.44	75.82	H.P
10-22-15	9 -	"	9.08	76.18	H
10-28-15	9 -	"	9.20	76.06	H
11-4-15	1 30	"	9.61	75.65	H.P
11-11-15	3 -	"	9.83	75.43	H
11-18-15	3 -	"	10.00	75.26	H.P
11-24-15	9 -	"	9.69	75.57	H
12-3-15	10 30	"	9.76	75.50	H
12-9-15	10 30	"	9.86	75.40	H
12-17-15	10 -	"	9.95	75.31	H
12-24-15	2 30	"	9.97	75.29	H
12-31-15	9 30	"	9.80	75.46	H
1-6-16	11 30	"	10.22	75.04	H
1-13-16	9 30	"	9.82	75.44	H

Windmill-N-of Allen's place

Well #36

9-17-15	1 30	41.90	4.54	37.36	H.
9-24-15	1 —	"	4.56	37.34	H.
9-30-15	12 —	"	4.60	37.30	H.
10-8-15	10 —	"	4.66	37.24	H.
10-15-15	9 —	"	4.70	37.20	H.
10-22-15	11 30	"	4.72	37.18	H.
10-29-15	9 —	"	4.75	37.15	H.
11-5-15	9 30	"	4.77	37.13	H.
11-9-15	9 30	"	4.77	37.13	H.
11-12-15	10 —	"	4.77	37.13	H.
11-19-15	11 —	"	4.76	37.14	H.
11-26-15	2 —	"	4.77	37.13	H.
12-3-15	10 —	"	4.84	37.06	H.
12-10-15	9 30	"	4.83	37.07	H.
12-16-15	10 30	"	4.80	37.10	H.
12-24-15	10 30	"	4.75	37.15	H.
12-30-15	2 30	"	4.63	37.27	H.
1-7-16	10 30	"	4.60	37.30	H.
1-15-16	10 —	"	4.54	37.36	H.

Carnes well 115' SW of #10 well
+35' S.E. of E. end of Foote bridge
Shut down - 9-14-15

Test Well #1

9-17-15	11 30	49.56	7.38	42.18	H.
9-24-15	10 -	"	7.43	42.13	H.
9-30-15	11 -	"	7.45	42.11	H.
10-8-15	11 30	"	7.53	42.04	H.
10-15-15	10 30	"	7.58	41.98	H.
10-22-15	11 -	"	7.64	41.92	H.
10-29-15	9 30	"	7.65	41.91	H.
11-5-15	10 -	"	7.67	41.89	H.
11-12-15	11 30	"	7.67	41.89	H.
11-18-15	2 -	"	7.65	41.91	H.
11-26-15	11 -	"	7.69	41.87	H.
12-3-15	1 -	"	7.68	41.88	H.
12-10-15	11 -	"	7.66	41.90	H.
12-16-15	1 -	"	7.63	41.93	H.
12-24-15	11 -	"	7.60	41.96	H.
12-31-15	10 30	"	7.51	41.05	H.
1-7-16	11 -	"	7.50	41.06	H.
1-13-16	1 30	"	7.47	41.09	H.

Well drilled by City - 12" casing 500' N. of Pipeline between well #5 + #6

Test Well #2

		42.83	7.65	
9-17-15	1 —		7.75	35.08 H.
9-24-15	1 —	"	7.80	35.08 H
9-30-15	9 30		7.89	35.94 H
10-8-15	9 30	"	7.97	35.86 H.
10-15-15	8 30	"	8.02	35.81 H.
10-22-15	2 —	"	8.09	35.74 H.
10-29-15	9 —	"	8.14	35.69 H.
11-5-15	9 30	"	8.18	35.65 H.
11-12-15	9 30	"	8.24	35.59 H.
11-18-15	10 —	"	8.26	35.57 H.
11-26-15	2 —	"	8.29	35.54 H.
12-3-15	9 30	"	8.29	35.54 H.
12-10-15	9 30	"	8.28	35.55 H.
12-16-15	10 30	"	8.25	35.58 H.
12-24-15	10 30	"	8.22	35.61 H.
12-30-15	3 —	"	8.15	35.68 H.
1-7-16	10 30	"	8.09	35.74 H.
1-15-16	9 30	"	8.04	35.79 H.

12" cased well drilled by City of P.H. #11.09

Test well #3

		4433	8.53		
9-17-15	1 30		8.46	35.87	H.
9-24-15	1 30		8.47	35.86	H.
9-30-15	12 —		8.48	35.85	H.
10-8-15	10 30	"	8.51	35.82	H.
10-15-15	10 —	"	8.54	35.77	H.
10-22-15	11 30	"	8.52	35.81	H.
10-29-15	9 —	"	8.63	35.70	H.
11-5-15	10 —	"	8.63	35.71	H.
11-9-15	9 30	"	8.60	35.73	H.
11-12-15	10 —	"	8.63	35.70	H.
11-19-15	1 —	"	8.58	35.71	H.
11-26-15	1 —	"	8.63	35.70	H.
12-3-15	1 —	"	8.65	35.68	H.
12-10-15	11 —	"	8.63	35.70	H.
12-16-15	3 —	"	8.61	35.72	H.
12-24-15	10 30	"	8.58	35.75	H.
12-30-15	9 30	"	8.45	35.88	H.
1-7-16	10 —	"	8.53	35.80	H.
1-13-16	1 —	"	8.50	35.83	H.

North 44 Line of Lot 32 Exp.
Dr. #9

Test Well #4

		45.61	7.53		
9-17-15	12 –	"	7.52	38.09	H.
9-24-15	11 30	"	7.51	38.10	H.
9-29-15	11 30	"	7.55	38.06	H.
10-7-15	12 –	"	7.55	38.06	H.
10-14-15	3 –	"	7.53	38.08	H.
10-22-15	11 30	"	7.47	38.14	H.
10-29-15	12 –	"	7.57	38.04	H.
11-5-15	12 –	"	7.54	38.07	H.
11-9-15	9	"	7.55	38.06	H.
11-11-15	1 –	"	7.59	38.02	H.
11-18-15	12 –	"	7.58	38.03	H.
11-26-15	12 –	"	7.58	38.03	H.
12-3-15	12 –	"	7.57	38.04	H.
12-9-15	11 30	"	7.58	38.03	H.
12-16-15	3 –	"	7.57	38.04	H.
12-24-15	12 30	"	7.53	38.08	H.
12-30-15	3 –	"	7.50	38.11	H.
1-7-16	1 –	"	7.48	38.13	H.
1-15-16	10 30	"	7.27	38.34	H.

on south line of City Property
in Ex. M. Lot #32 opp. #9 well

Test Well #5

		65.92	11.90		
9-17-15	9 30	" "	12.10	53.82	H.
9-23-15	1 30		12.15	53.77	H.
9-29-15	10 30	" "	12.25	53.67	H.
10-7-15	11 –	" "	11.20	54.72	H.
10-14-15	2 –	" "	11.38	54.54	H.
10-22-15	9 –	" "	11.41	54.51	H.
10-28-15	10 30	" "	12.31	53.61	H.
12-3-15	10 30	" "	13.37	52.55	H.
12-9-15	10 30	" "	13.40	52.52	H.
12-17-15	10 30	" "	13.51	52.41	H.
12-24-15	2 –	" "	13.87	52.05	H.
12-31-15	9 –	" "	13.60	52.42	H.
1-6-16	11 30	" "	13.84	52.08	H.
1-13-16	9 –	"	13.81	52.11	H.

Under Bridge on Road W-Side of Mission Valley Bet. 4 & 11.4. 33 & 34

Test Well #7

		57.85	11.35		
9-17-15	10 30		11.34	46.51	H.
9-23-15	1 30		11.40	46.45	H.
9-29-15	10 –	"	11.19	46.66	H
10-7-15	11 –	"	11.07	46.78	H
10-15-15	11 30	"	11.47	46.38	H
10-22-15	9 30	"	11.00	46.85	H.
10-29-15	11 –	"	10.47	47.38	H.
11-4-15	2 –	"	10.24	47.59	H
11-9-15	12 –		10.17	47.68	H.
11-12-15	12 30	"	10.12	47.73	H.
11-19-15	3 —	"	9.99	47.86	H.
11-24-15	9 30	"	9.89	47.96	H.
12-2-15	2 –	"	9.78	48.07	H.
12-10-15	11 30	"	9.68	48.17	H.
12-15-15	1 30	"	9.60	48.25	H.
12-24-15	11 30	"	9.57	48.33	H.
12-31-15	10 00	"	9.31	48.59	H
1-7-16	11 30	"	9.30	48.55	H
1-13-16	1 30	"	9.27	48.58	H

Ex. on Lot 35
Below Allen's Place

Test Well #8

		55.74	9.05		
9-17-15	12 30		9.20	46.54	H.
9-23-15	2 –		9.07	46.67	H.
9-29-15	11 –		9.00	46.74	H.
10-7-15	11 –		9.14	46.60	H.
10-15-15	11 30		9.25	46.49	H.
10-22-15	9 30	"	9.14	46.60	H.
10-29-15	11 –	"	8.75	46.99	H.
11-4-15	2 –	"	8.55	47.19	H.
11-12-15	12 30	"	8.41	47.33	H.
11-19-15	3 –	"	8.33	47.41	H.
11-24-15	9 30	"	8.24	47.50	H.
12-2-15	2 –	"	8.14	47.60	H.
12-10-15	12 –	"	8.05	47.69	H.
12-16-15	1 30	"	7.94	47.80	H.
12-24-15	11 30	"	7.90	47.84	H.
12-31-15	10 –	"	7.71	48.03	H.
1-7-16	11 30	"	7.68	48.06	H.
1-13-16	1 30	"	7.64	48.10	H.

Old 14" cased well of City's on Ex. M. Lot 35 S.E. of #1 Well

Test Well #9

		51.65	4.78		
9-17-15	12 00		4.87	45.28	N.
9-24-15	10 00	"	4.75	44.90	N.
9-30-15	11 —		4.75	44.90	N.
10-8-15	11 —	"	4.80	44.85	N.
10-15-15	11 —	"	4.84	44.81	N.
10-22-15	10 30	"	4.72	44.93	N.
10-29-15	10 —	"	4.80	44.85	N
11-12-15	12 —	"	4.70	44.95	N.
11-19-15	2 —	"	4.69	44.96	N.
11-24-15	11 —	"	4.74	44.91	N.
12-2-15	1 —	"	4.15	45.50	N.
12-10-15	12 30	"	4.11	45.54	N.
12-16-15	1 —	"	4.85	44.80	N.
12-24-15	11 —	"	4.79	44.86	N.
12-31-15	10 30	"	4.70	44.95	N.
1-7-16	11 —	"	4.72	44.93	N.
1-13-16	1 30	"	4.70	44.93	N.

Chinese Truck Garden
West end of Gettysburg

Test Well #10

39.38

9-17-15	9 30		5.02	34.36	H.
9-24-15	9 –	"	5.09	34.29	H
9-30-15	9 30		5.19	34.19	H.
10-8-15	9 30	"	5.33	34.05	H.
10-15-15	8 –	"	5.45	33.93	H.
10-22-15	2 –	"	5.49	33.89	H.
10-28-15	10 –	"	5.70	33.63	H.
11-5-15	9 –	"	5.45	33.93	H.
11-12-15	9 30	"	5.49	33.89	H.
11-19-15	10 30	"	5.45	33.93	H.
11-24-15	2 30	"	5.51	33.87	H.
12-3-15	9 30	"	5.45	33.93	H.
12-10-15	9 –	"	5.27	34.11	H.
12-16-15	10 –	"	5.09	34.36	H.
12-24-15	10 –	"	5.00	34.38	H.
12-30-15	1 –	"	4.85	34.53	H
1-7-16	10 30	"	4.96	34.42	H
1-15-16	9 30	"	4.37	34.01	H.

1.7 Road N. side of valley
P.L. 1109

1.10

Test well #11

		62.34	12.55		
9-17-15	10 00		12.71	49.63	H
9-23-15	2 -	"	12.83	49.51	H
9-29-15	11 -	"	12.93	49.41	H
10-7-15	11 30	"	13.05	49.29	H
10-15-15	11 30	"	13.12	49.22	H
10-22-15	10 -	"	13.28	49.16	H
10-28-15	11 -	"	13.22	49.12	H
11-4-15	2 30	"	13.20	49.14	H
11-9-15	12 -	"	13.16	49.18	H
11-11-15	1 30	"	13.18	49.16	H
11-18-15	2 30	"	13.15	49.19	H
11-24-15	9 30	"	13.09	49.25	H
12-3-15	11 -	"	13.02	49.32	H
12-8-15	11 -	"	12.96	49.38	H
12-16-15	2 30	"	12.89	49.45	H
12-24-15	12 -	"	12.79	49.55	H
12-31-15	11 -	"	12.70	49.64	H
1-7-16	12 -	"	12.37	49.97	H
1-13-16	2 -	"	12.26	50.08	H

15" cased well Exp. at #45
D 17.7

Test Well #12

		5298	4.94	
9-17-15	11 –		7.02	45.76 H
9-24-15	11 –		4.98	46.00 H.
9-30-15	11 15	"	4.98	46.00 H
10-8-15	11 30	"	7.00	45.98 H.
10-15-15	11 30		7.01	45.97 H
10-22-15	10 30	"	4.99	45.99 H
10-29-15	10 30	"	4.83	46.15 H.
11-5-15	11 –	"	4.72	46.26 H.
11-12-15	12 –	"	4.62	46.36 H
11-19-15	2 30	"	4.57	46.41 H
11-24-15	11 –	"	4.45	46.53 H.
12-3-15	1 30	"	4.36	46.62 H
12-10-15	11 30	"	4.29	46.69 H.
12-16-15	1 30	"	4.23	46.75 H.
12-24-15	11 30	"	4.18	46.80 H.
12-31-15	10 30	"	4.08	46.90 H.
1-7-16	11 –	"	4.04	46.94 H
1-13-16	1 30	"	4.00	46.98 H

Gottisburg 6" casing
D16'

Test Well #15

		43.40	5.60		
		45.71			
10-7-15	2 –		8.14	37.57	H.
10-14-15	3 –	"	9.20	36.51	H. P
10-23-15	12 –	"	8.68	37.03	H.
10-28-15	12 –	"	8.51	37.20	H.
11-5-15	12 –	"	8.33	37.38	H.
11-12-15	2 –	"	8.37	37.34	H.
11-19-15	11 30	"	8.51	37.20	H.
11-24-15	1 –	"	8.42	37.29	H.
12-2-15	10 30	"	8.50	37.21	H.
12-10-15	3 –	"	8.47	37.24	H.
12-16-15	9 –	"	7.96	37.75	H.
12-24-15	9 –	"	8.00	37.71	H.
12-30-15	1 –	"	7.85 A	37.86	H.
1-7-16	9 –	"	7.95	37.76	H.
1-15-16	9 30	"	7.00	38.71	H.

Dr. P. 1109 25' N. of Sluggesby's well

8-4-15 Filled up by Sluggesby in P.M.
9-1-15 " " " " " "
Pulled out 10-4-15 by Hesler & Clark

Test well #14

		44.46	1.79		
9-17-15	11 00		1.85	42.61	H
9-24-15	10 -		1.89	42.57	H
9-30-15	11 -	"	1.93	42.53	H
10-8-15	11 30	"	2.00	42.46	H
10-14-15	10 30	"	2.02	42.44	H
10-22-15	11 -	"	2.08	42.38	H
10-29-15	9 30	"	2.11	42.35	H
11-5-15	10 30	"	2.11	42.35	H
11-12-15	12 -	"	2.09	42.37	H
11-19-15	2 -	"	2.07	42.39	H
11-26-15	11 -	"	2.11	42.35	H
12-2-15	1 -	"	2.10	42.36	H
12-10-15	11 -	"	2.07	42.39	H
12-16-15	1 -	"	2.02	42.44	H
12-24-15	11 -	"	2.00	42.46	H
12-31-15	10 30	"	1.81	42.65	H
1-7-16	11 -	"	1.89	42.57	H
1-13-16	1 -	"	1.85	42.61	H

8" cased well on Ex-01.4 + 31'
Put down by Chinos

Test Well #15

		65.64	10.58		
9-15-15	11-		11.20	54.44	H.
9-17-15	9-		10.85	54.79	H.
9-23-15	1-		11.20	54.44	H.
9-28-15	10-		11.23	54.41	H.
10-7-15	10 30	"	11.45	54.19	H.
10-14-15	2 30	"	11.34	54.30	H.
10-22-15	9-	"	11.35	54.29	H.
10-28-15	9-	"	11.35	54.29	H. 9
11-4-15	1 30	"	11.10	54.54	H.
11-11-15	2-	"	11.08	54.56	H.
11-18-15	2 30	"	11.75	53.89	H.
11-24-15	9-	"	11.70	53.94	H.
12-3-15	10 30	"	11.61	54.03	H.
12-9-15	10-	"	11.15	54.49	H.
12-17-15	9 30	"	10.80	54.84	H.
12-24-15	1 30	"	10.08	54.56	H.
12-31-15	8 30	"	10.91	54.73	H.
1-6-16	11-	"	10.80	54.84	H.
1-13-16	9-	"	10.77	54.87	H.

4" Auger hole in Road on East Line of the Gillen Property 266' South of North Road 24' East of Fence

Test well #16

		62.92	13.90		
9-17-15	10		14.15	48.77	H.
9-23-15	1 30		14.75	48.17	H.
9-29-15	10 30		14.70	48.22	H.
10-7-15	11	"	14.15	48.77	H.
10-14-15	2			48.40	H. a
10-22-15	9	"	14.31	48.61	H.
10-28-15	10	"	14.30	48.62	H. a
11-4-15	2	"	13.80	49.12	H
11-11-15	2 30	"	13.85	49.07	H.
11-18-15	2 30	"	14.15	48.77	H.
11-24-15	9 30	"	13.70	49.22	H.

4" Auger Hole 100' S-of-Fence
N. Road Bet, Ex. Lots 43 & 36

Irrigating

B.M. TOP POST
66.82

Test Well #17

		4342	5.55		
9-17-15	1 -		5.65	37.77	H.
9-24-15	1 -		5.86	37.56	H.
9-30-15	9 -	"	5.90	37.52	H.
10-8-15	12 -		5.98	37.44	H.
10-14-15	8 -	"	6.05	37.37	H.
10-22-15	11 30	"	6.06	37.36	H.
10-28-15	12 -	"	6.12	37.30	H.
11-5-15	12 -	"	6.08	37.34	H.
11-12-15	3 -	"	5.80	37.62	H.
11-19-15	11 -	"	6.05	37.37	H.
11-26-15	1 -	"	6.01	37.41	H.
12-2-15	10 30	"	6.06	37.36	H.
12-10-15	3 -	"	6.04	37.38	H.
12-16-15	9 -	"	5.72	37.70	H.
12-24-15	9 -	"	5.48	37.94	H.
12-30-15	1 -	"	5.50 A	37.92	H.
1-7-16	9 -	"	5.63	37.79	H.
1-15-16	9 30	"	4.26	39.16	H.

36" Cement Pipe on fx mkt
32 ft cor of PL 1109+1113 -

River Reading #1

		37.97	3.20		
9-14-15	2 30	" "	3.35	34.62 H.	
9-17-15	8 —		3.41	34.56 H.	
9-24-15	8 30	" "	3.49	34.48 H.	
9-30-15	12 30	" "	3.58	34.39 H.	
10-8-15	9 -		3.70	34.27 H.	
10-14-15	4 —	" "	3.77	34.20 H.	
10-22-15	1 30	" "	3.85	34.12 H.	
10-29-15	8 —	" "	3.92	34.05 H.	
11-5-15	8 30	" "	3.98	33.99 H.	
11-12-15	8 30	" "	4.02	33.95 H.	
11-19-15	10 -	" "	4.05	33.92 H.	
11-26-15	3 -	" "	4.07	33.90 H.	
12-3-15	9 —	" "	4.15	33.82 H.	
12-10-15	8 30 —	" "	4.13	33.84 H.	
12-16-15	9 30	" "	4.04	33.93 H.	
12-24-15	9 30	" "	4.10	33.87 H.	
12-30-15	1 —	" "	4.06	33.91 H.	
1-7-16	10 —		3.91	34.06 H.	
1-15-16	9 —	"	3.67	34.30 H.	

R.R. Nail in 2"x4" south side of River - W. line of Fxm. 1109

River Reading #2

		46.73	9.81		
9-17-15	1 –		9.59	37.14	H
9-24-15	1 –	"	9.60	37.13	H.
9-30-15	12 –	"	9.61	37.12	H.
10-8-15	10 –	"	9.69	37.04	H.
10-15-15	9 –	"	9.72	37.01	H.
10-22-15	11 30	"	9.75	36.98	H.
10-29-15	9 –	"	9.76	36.97	H.
11-5-15	9 30	"	9.79	36.94	H.
11-9-15	9 30	"	9.78	36.95	H.
11-12-15	10 –	"	9.78	36.95	H
11-19-15	11 –	"	9.79	36.94	H
11-26-15	2 –	"	9.82	36.91	H.
12-3-15	10 –	"	9.85	36.88	H
12-10-15	9 30	"	9.83	36.90	H.
12-16-15	10 30	"	9.80	36.93	H.
12-24-15	10 30	"	9.75	36.98	H.
12-30-15	2 –	"	9.69	37.04	H.
1-7-16	10 30	"	9.65	36.08	H.
1-15-16	10 –	"	9.49	36.24	H

On Foote Bridge 1100

Canes Run not running down 9-17-15

Old R.P. 54.03

River Reading #3

		49.61	7.73		
9-17-15	12 –		7.83	41.78	H.
9-24-15	10 –		7.80	41.72	H.
9-30-15	11 45	"	7.94	41.67	H.
10-8-15	11 30	"	8.00	41.61	H.
10-15-15	12 –	"	8.05	41.56	H.
10-22-15	11 –	"	8.08	41.53	H.
10-29-15	11 –	"	8.12	41.49	H.
11-5-15	11 –	"	8.14	41.47	H.
11-9-15	10 –	"	8.15	41.46	H.
11-12-15	1 –	"	8.15	41.46	H.
11-18-15	12 30	"	8.16	41.45	H.
11-26-15	11 –	"	8.16	41.45	H.
12-3-15	1 –	"	8.14	41.47	H.
12-10-15	12 –	"	8.13	41.48	H.
12-16-15	2	"	8.08	41.53	H.
12-24-15	12 –	"	8.05	41.56	H.
12-31-15	11 30	"	7.91	41.70	H.
1-6-16	1 30	"	7.95	41.66	H.
1-13-16	2 30	"	7.91	41.70	H.

River Reading #4

		57.86	10.83		
9-17-15	11 –		10.99	46.87	H
9-23-15	2 –		11.08	46.78	H
9-29-15	11 –	"	11.91	46.65	H
10-7-15	11 30	"	11.30	46.56	H.
10-14-15	11 30	"	11.39	46.47	H.
10-22-15	10 –	"	11.45	46.41	H.
10-28-15	11 –	"	11.45	46.41	H
11-4-15	3 –	"	11.55	46.31	H.
11-9-15	12 –	"	11.55	46.31	H.
11-11-15	1 30	"	11.55	46.31	H
11-18-15	2 30	"	11.45	46.41	H
11-24-15	10 –	"	11.50	46.36	H.
12-3-15	11 –	"	11.42	46.44	H
12-9-15	11 –	"	11.38	46.48	H
12-16-15	2 –	"	11.32	46.54	H.
12-24-15	12 –	"	11.25	46.61	H.
12-31-15	11 –	"	11.09	46.77	H.
1-7-16	12 –	"	11.01	46.85	H.
1-13-16	2 –	"	10.95	46.91	H.

Copper Tack in Tree - west of D on S Line of Lot 55'

River Reading #5

		71.45	16.15		
9-17-15	9	" "	16.21	55.24	H.
9-23-15	1		16.42	55.03	H
9-29-15	10	" "	16.46	54.99	H.
10-7-15	10 30	" "	16.70	54.75	H.
10-14-15	1 30	" "	17.00	54.45	H.
10-22-15	8 30	" "	17.01	54.44	H.
10-28-15	9	" "	17.00	54.45	H.
11-4-15	1	" "	17.10	54.35	H.
11-11-15	2	" "	16.96	54.49	H.
11-18-15	2 30	" "	17.00	54.45	H.
11-26-15	8 30	" "	17.20	54.25	H.
12-3-15	10	" "	17.15	54.30	H.
12-9-15	10	" "	16.87	54.58	H.
12-17-15	9	" "	16.42	55.03	H.
12-24-15	1 30	" "	16.38	55.07	H.
12-31-15	8 30	" "	16.18	55.27	H.
1-6-16	11	" "	16.83	54.62	H.
1-13-16	8 30	" "	16.41	55.04	H.

Old Missouri Bridge

Water Hole #100

		40.88	6.28		
9-17-15	3 -		6.35	34.53	H
9-24-15	8 30		6.41	34.47	H.
9-30-15	12 30	"	6.51	34.37	H
10-8-15	9 -	"	6.58	34.30	H.
10-14-15	4 -	"	6.65	34.23	H.
10-22-15	1 30	"	6.71	34.17	H.
10-29-15	8 -	"	6.78	34.10	H.
11-5-15	8 30	"	6.84	34.04	H.
11-12-15	8 30	"	6.91	33.97	H.
11-19-15	10 -	"	6.93	33.95	H
11-26-15	3 -	"	6.96	33.92	H.
12-3-15	8 30	"	7.03	33.85	H.
12-10-15	8 30	"	7.01	33.87	H.
12-16-15	9 30	"	6.93	33.95	H.
12-24-15	9 30	"	6.95	33.93	H.
12-30-15	1 30	"	6.80	34.08	H.
1-7-16	10 -	"	6.79	34.09	H.
1-15-16	9 -	"	6.47	34.41	H.

on p. 1110 - in Lane leading to p. 1109

Water Hole #101

		41.98	4.22		
9-17-15	12 –		4.17	37.81	H.
9-24-15	11 30	"	4.20	37.78	H.
9-29-15	11 30	"	4.17	37.81	H.
10-7-15	12 –	"	4.09	37.89	H.
10-14-15	3 –	"	4.05	37.93	H.
10-22-15	11 –	"	3.98	38.00	H.
10-29-15	11 30	"	3.93	38.05	H.
11-5-15	12 –	"	3.92	38.06	H.
11-11-15	1 –	"	3.92	38.06	H.
11-18-15	12 –	"	3.92	38.06	H.
11-26-15	11 30	"	3.91	38.07	H.
12-3-15	12 –	"	3.88	38.10	H.
12-9-15	11 30	"	3.88	38.10	H.
12-16-15	2 30	"	3.86	38.12	H.
12-24-15	12 30	"	3.83	38.15	H.
12-30-15	3 –	"	3.70	38.28	H.
1-7-16	1 –	"	3.82	38.16	H.
1-15-16	10 30	"	3.16	38.82	H.

Near Ricards House

Water Hole #102

		42.83	3.16		
9-17-15	12 —		3.20	39.63	N.
9-24-15	11 30		3.25	39.58	H.
9-29-15	11 30		3.28	39.55	H.
10-7-15	12 —	"	3.30	39.53	H.
10-14-15	3 —	"	3.28	39.55	H.
10-22-15	11 —	"	3.26	39.57	H.
10-29-15	11 30	"	3.25	39.58	H.
11-5-15	11 30	"	3.31	39.52	H.
11-11-15	1 —	"	3.39	39.44	H.
11-18-15	12 30	"	3.26	39.57	H.
11-24-15	11 30	"	3.26	39.57	H.
12-3-15	12 —	"	3.34	39.49	H.
12-9-15	11 30	"	3.24	39.59	H.
12-16-15	2 30	"	3.23	39.60	H.
12-24-15	12 30	"	3.20	39.63	H.
12-30-15	3 —	"	3.05 A	39.78	H.
1-7-16	1 —	"	3.07	39.76	H.
1-15-16	10 30	"	2.43	40.40	H.

In field N.W. of Farmer House

Water Hole #103

		46.19	5.80		
9-17-15	12 —		5.91	40.28	H.
9-24-15	11 30		5.95	40.24	H.
9-29-15	11 30		5.91	40.28	H.
10-7-15	12 —	"	5.95	40.24	H.
10-14-15	3 —	"	5.90	40.29	H.
10-22-15	11 —	"	5.87	40.32	H.
10-29-15	11 30	"	5.85	40.34	H.
11-5-15	11 30	"	5.90	40.29	H.
11-11-15	1 —	"	5.89	40.30	H.
11-18-15	12 30	"	5.82	40.37	H.
11-25-15	11 30	"	5.86	40.33	H.
12-3-15	11 30	"	5.82	40.37	H.
12-9-15	11 30	"	5.82	40.37	H.
12-16-15	2 —	"	5.79	40.40	H.
12-24-15	12 30	"	5.76	40.43	H.
12-30-15	3 —	"	5.60	40.59	H.
1-7-16	1 30	"	5.69	40.50	H.
1-15-16	10 30	"	4.75	41.44	H.

On L.M.L. of 32: Feederies & Line

Water Hole #104

		#7.16	5.71		
9-17-15	12 —		5.80	41.36	H.
9-24-15	11 30		5.85	41.31	H.
9-29-15	11 30	"	5.85	41.31	H.
10-7-15	12 —	"	5.95	41.21	H.
10-14-15	3 —	"	5.98	41.18	H.
10-22-15	11 —	"	5.98	41.18	H.
10-29-15	11 30	"	6.01	41.15	H.
11-5-15	11 30	"	6.03	41.13	H.
11-11-15	1 —	"	6.07	41.09	H.
11-18-15	12 30	"	6.05	41.11	H.
11-26-15	11 30	"	6.10	41.06	H.
12-3-15	11 30	"	6.10	41.06	H.
12-9-15	11 30	"	6.05	41.11	H.
12-16-15	3 —	"	6.00	41.16	H.
12-24-15	12 30	"	5.99	41.17	H.
12-31-15	11 30	"	5.83	41.33	H.
1-7-16	1 30	"	5.94	41.22	H.
1-15-16	11 —	"	5.36	41.80	H.

On Ex. 17.4 of 35 S.W. of #6 well

Water Hole #105

69.82

9-17-15	9 30		6.18	63.64	H
9-23-15	1 30		6.17	63.65	H.
9-29-15	10 30	"	6.21	63.61	H
10-7-15	10 30	"	6.21	63.61	H
10-14-15	2 30	"	6.23	63.59	H.
10-22-15	9 —	"	6.28	63.54	H
10-28-15	9 -	"	6.64	63.18	H.
11-4-15	1 30	"	6.87	62.95	H
11-11-15	2 30	"	6.91	62.91	H
11-18-15	3 -	"	7.29	62.53	H
11-24-15	9 -	"	7.60	62.22	H
12-3-15	10 30	"	7.69	62.13	H.
12-9-15	10 30	"	7.63	62.19	H
12-17-15	10 -	"	7.68	62.14	H.
12-24-15	2 —	"	7.70	62.12	H
12-31-15	9 -	"	7.50	62.32	H.
1-6-15	11 30	"	7.90	61.92	H.
1-13-16	9 -	"	7.86	61.96	H.

On Bridge in Murphys Canyon
S. of Allen House
U.S.G.S. # 49

Water Hole #106

		52.52	6.40		
9-17-15	11 –		6.61	45.91	H.
9-24-15	10 30	" "	6.55	45.97	H.
9-30-15	11 15	" "	6.55	45.97	H.
10-8-15	11 30	" "	6.60	45.92	H.
10-15-15	11 30	" "	6.57	45.95	H.
10-22-15	10 30	" "	6.57	45.95	H.
10-29-15	10 30	" "	6.43	46.09	H.
11-5-15	11 –	" "	6.32	46.20	H.
11-12-15	12 –	" "	6.21	46.31	H.
11-19-15	2 30	"	6.11	46.41	H.
11-24-15	10 30	"	6.02	46.50	H.
12-2-15	1 30	"	5.95	46.57	H.
12-10-15	11 30	"	5.87	46.65	H.
12-16-15	1 30	"	5.79	46.73	H.
12-24-15	11 30	"	5.73	46.79	H.
12-31-15	10 30	"	5.57 A	46.95	H.
1-7-15	11 –	"	5.60	46.92	H.
1-13-16	1 30	"	5.55	46.97	H.

Gatesburns Surp

Water Hole #107

		44.97	+0.36		
9-17-15	11 30		+0.20	45.17	N.
9-30-15	11 30		+0.15	45.12	N
10-8-15	11 30	"	+0.10	45.07	N
10-15-15	11 30	"	+0.10	45.07	N
10-22-15	10 30	"	+0.02	44.99	N.
10-29-15	10 30	"	+0.07	45.04	N
11-5-15	11 —	"	+0.13	45.10	N.
11-12-15	12 —	"	+0.17	45.14	N
11-19-15	2 30	"	+.22	45.19	N.
11-26-15	11 —	"	+0.24	45.21	N.
12-2-15	1 30	"	+0.28	45.25	N.
12-10-15	11 30	"	+0.34	45.31	N.
12-16-15	1 30	"	+0.40	45.37	N.
12-24-15	11 30	"	+0.43	45.40	N.
12-31-15	10 30	"	+0.49	45.46	N.
1-7-16	10 30	"	+0.53	45.50	N.
1-13-16	1 —	"	+.57	45.54	N.

4x4' Box on Ex. Tr. Lot 36

Water Hole #108

		44.99	0.92		
9-17-15	11 30		0.94	44.05	H
9-24-15	10 30		0.96	44.03	H
9-30-15	11 —	"	1.04	43.95	H
10-8-15	11 30	"	1.07	43.92	H
10-15-15	11 —	"	1.06	43.93	H
10-22-15	10 30	"	1.08	43.91	H
10-29-15	10 —	"	1.10	43.89	H
11-5-15	10 30	"	1.08	43.91	H
11-9-15	11 30	"	1.04	43.95	H
11-12-15	12 —	"	1.06	43.93	H
11-19-15	2 —	"	1.00	43.99	H
11-26-15	11 —	"	1.02	43.97	H
12-2-15	1 30	"	0.98	44.01	H
12-10-15	11 30	"	0.92	44.07	H
12-16-15	1 —	"	0.87	44.13	H
12-24-15	11 —	"	0.85	44.17	H
12-31-15	10 30	"	0.70	44.29	H
1-7-16	12 —	"	0.73	44.26	H
1-13-16	1 —	"	0.70	44.29	H

Ex. 177 Lot 35 - 5-05 Chiros

Water Hole #109

		52.99	10.00		
9-17-15	8 —		10.15	42.84	H
9-24-15	10 —		10.30	42.79	H
9-30-15	10 30	"	10.25	42.74	H
10-8-15	11 —	"	10.26	42.34	H
10-15-15	10 —	"	10.86	42.13	H
10-22.15	3 00	"	10.91	42.08	H
10-29-15	9 —	"	11.06	41.93	H
11-5-15	10 —	"	11.12	41.87	H
11-12-15	10 —	"	11.24	41.75	H
11-24-15	1 30	"	11.45	41.54	H

Old Dugwell on Rec's Place

Water Hole #110

		44.00	6.67	
9-17-15	1 30		6.84	37.16 H
9-24-15	9 30		6.83	37.17 H
9-30-15	10 –		6.60	37.40 H.
10-8-15	11 –		6.76	37.24 H.
10-15-15	10 –		6.63	37.37 H.
10-22-15	2 30	"	6.68	37.32 H.
10-29-15	9 –	"	6.71	37.29 H.
11-5-15	10 –	"	6.74	37.26 H.
11-12-15	10 –	"	6.76	37.24 H.
11-19-15	10 30	"	6.95	37.05 H.
11-24-15	1 30	"	7.04	36.96 H.
12-3-15	2 –	"	7.03	36.97 H.
12-10-15	11 –	"	7.00	37.00 H
12-16-15	1 –	"	6.97	37.03 H
12-23-15	10 30	"	6.93	37.07 H.
12-30-15	2 –	"	6.80	37.20 H.
1-7-16	10 –	"	6.85	37.15 H.
1-13-16	1 –	"	6.79	37.21 H.

On Ohres Place - S.W. of Windmill.

Flood - San Diego River
January - 1916

Water showed in river opposite Pumping Station #6 - on 1-16-16 at 4.30 P.M. Keeper awoke at 4 A.M. of 1-17-16 - and water was approx. 2 ft at house crest of flood at night of 1-17-16. Gk at Pump Station U.S.G.S. 47.30

Second flood

High water at pumping station 1-27-16 - 50.88

Cost of locating + salvaging
Wells + Pumps Motors in Mission valley
To 2-20-16

1-man	81½	Da.	@	2.50 =	203.75
1- "	4 -	"	"	3.00 =	12.00
1- "	25 -	"	"	4.50 =	112.50

5620 H.VI. 500 A. 5 of Gibson Pump

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P.=23° 20′ to the R. at Station 542+72.

Ext. in Tab. IV opposite 23° 20′=120.87
120.87÷12=10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20′=1183.1
1183.1÷10=118.31.

Tab. V. correction for A. 23° 20′ for a 10° Cur.=0.16
118.31+0.16=118.47=corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20′=23.33°÷10=2.3333=L. C.

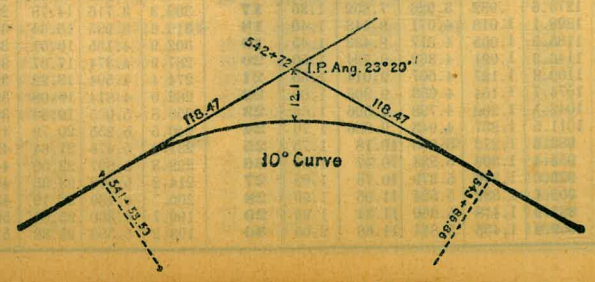
2° 19½′=def. for sta.	542	I. P.=sta.	542+72
4° 49½′= " " "	+50	Tan.=	1.18.47
7° 19½′= " " "	543	B. C.=sta.	541+53.53
9° 49½′= " " "	+50	L. C.=	2.33.33
11° 40′= " " "	543+		
	86.86	E. C.=sta.	543+86.86

100—53.53=46.47×3′(def. for 1 ft. of 10° Cur.)=139.41′=
2° 19½″=def. for sta. 542.

Def. for 50 ft.=2° 30′ for a 10° Curve.

Def. for 36.86 ft.=1° 50½′ for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



Hurst M 9 11 M

1-3-4-2-

RETURN TO CITY ENGINEER'S OFFICE
CITY HALL, SAN DIEGO, CAL.

29.5 to draft

Chas. F. Carnes 2,999 adams Ave

W. P. Butts 3438 Herbert St.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 14 feet wide. Side Slopes 1½ to 1.

For Single Track Embankment.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.