

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.032	.037	.043	.049	.053	.057	.061
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.895	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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Method of Designating
Location of Wells

D	C	B	A
E	F	G	H
¹¹ V	¹² U	¹³ T	¹⁴ S
¹⁵ W	¹⁶ X	¹⁷ Y	¹⁸ Z

1. Township
2. Range
3. Section
4. Appropriate letter from above sketch
5. Sub number if more than one well in a particular 40 Acres

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 366.92	Elev. W.S.
3-21-57	³⁰ pumping				
4-25-57	30.00	2.66	27.34		339.58
5-28-57	30.00	3.16	26.84		340.08
6-13-57	30.00	⁵⁰ 3.33	26.67		⁵⁰ 340.25
7-11-57	30.00	3.53	26.47		340.45
8-27-57	30.00	3.67	26.33		340.59
9-19-57	30.00	¹⁴ 3.72	26.28		¹⁴ 340.64
10-29-57	30.00	3.89	26.11		340.81
11-15-57	30.00	¹⁷ 3.93	26.07		¹⁷ 340.85
12-20-57	30.00	4.08	25.92		341.00
1-31-58	30.00	4.31	25.69		341.23
2-27-58	30.00	6.11	23.89		343.03
3-31-58	25.00	3.08	21.92		345.00
4-20-58	20.00	8.41	11.59		355.33
5-26-58	20.00	5.71	14.29		352.63
6-30-58	20.00	4.60	15.40		351.52
7-28-58	20.00	3.75	16.25		350.67
8-30-58	20.00	2.80	17.20		349.72
9-27-58	20.00	2.32	17.68		349.24
10-24-58	20.00	1.86	18.14		348.78

Cloverdale Ranch #1

Transferred from P48 Field book #5
book 280 Ground water S.P. Valley.

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Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 376.59	Elev W.S.
3-21-57	pumping				
4-25-57	42.00	1.50	40.50		336.09
5-28-57	42.00	3.34 _{1.84}	38.66		337.93 _{1.84}
6-13-57	42.00	4.20	37.80		338.79
7-11-57	42.00	4.77	37.23		339.36
8-27-57	42.00	6.43	35.57		341.02
9-19-57	42.00	6.86 _{1.66}	35.14		341.45 _{1.66}
10-29-57	42.00	7.64 _{.98}	34.36		342.23 _{.98}
11-15-57	42.00	7.91	34.09		342.50
12-20-57	35.00	1.52	33.48		343.11
1-31-58	35.00	2.04	32.96		342.63
2-27-58	35.00	2.68	32.32		344.27
3-31-58	35.00	6.26	28.74		347.85
4-20-58	20.00	2.46	17.54		359.05
5-26-58	25.00	2.35	22.65		353.94
6-30-58	PUMPING				
7-28-58	PUMPING				
8-30-58	PUMPING				
9-27-58	PUMPING				
10-24-58	30.00	4.88	25.12		351.47

12S-1W-30H

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Cloverdale Ranch #2

Transferred from P49 Field book #5
book 780 Ground water S.P. Valley.

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 378.68	Elev W/S
3-21-57	50.00	10.06	39.94		338.74
4-25-57	Electric		40.30	P.R.	338.38
5-28-57	50.00	11.94	38.06		340.62
6-13-57	50.00	11.72	38.28		340.40 ^{2.24}
7-11-57	50.00	9.99	40.01		338.67
8-27-57	50.00	14.10	35.90		342.78 ^{4.11}
9-19-57	40.00	2.85	37.15		341.53
10-29-57	40.00	5.55 ^{2.70}	34.45		344.23 ^{2.70}
11-15-57	40.00	5.33	34.67		344.01
12-20-57	40.00	5.02	34.98		343.70
1-31-58	35.00	1.33	33.67		345.01
2-27-58	35.00	2.30	32.70		345.98
3-31-58	35.00	5.12	29.88		348.80
4-20-58	20.00	7.26	12.74		365.94
5-26-58	25.00	5.98	19.02		359.66
6-30-58	25.00	3.10	21.90		356.78
7-28-58	25.00	2.21	22.79		355.89
8-30-58	25.00	0.41	24.59		354.09
9-27-58	25.00	0.70	24.30		354.38
10-24-58	25.00	1.78	23.22		355.46

125-1W-30A

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Cloverdale Ranch #3

Transferred from P50 Field book #5
book 780 Ground water S.P. Valley.

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Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 386.01	Elev W.S.
3-21-57	32.00	2.77	29.23		356.78
4-25-57	32.00	2.70	29.30		356.71
5-28-57	32.00	2.69 ²	29.31		356.70
6-13-57	32.00	2.66 ¹	29.34		356.67
7-11-57	34.00	4.57	29.43		356.58
8-27-57	34.00	4.44	29.54		356.45
9-19-57	34.00	4.41 ¹³	29.59		356.42
10-29-57	34.00	4.29 ¹²	29.71		356.30
11-15-57	34.00	4.30	29.70		356.31
12-20-57	34.00	4.31	29.69		356.32
1-31-58	34.00	4.41	29.59		356.42
2-27-58	34.00	4.55	29.45		356.56
3-31-58	34.00	7.02	26.98		359.03
4-20-58	25.00	4.65	20.35		365.66
5-26-58	25.00	8.38	16.62		369.39
6-20-58	25.00	4.67	20.33		365.68
7-28-58	25.00	8.17	16.83		369.18
8-30-58	25.00	7.54	17.46		368.55
9-27-58	25.00	6.35	18.65		367.36
10-24-58	25.00	6.70	18.30		367.71

125-1W-290

Cloverdale Ranch #4

Transferred from PSI Field book #5
book 780 Ground water S.P. Valley.

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 398.82 398.60	Elev. W.S.
3-21-57	pumping				
4-25-57	24.25	Dry			
5-28-57	24.25	"			
6-13-57	24.25	"			
7-11-57	24.25	"			
8-27-57	"	"			
9-19-57	"	"			
10-29-57	"	"			
11-15-57	"	"			
12-20-57	"	"			
1-31-58	"	"			
2-27-58	"	"			
3-31-58	"	"			
4-20-58	37.00	3.90	33.10		365.50
5-26-58		Dry			
6-30-58		Dry			
7-28-58		Dry			
8-30-58		Dry			
9-27-58		Dry			

125-1W-30A1

Cloverdale Ranch #5

Transferred from P.52 Field book #5
book 780 Ground Water S.P. Valley.

DOUBTFUL - APPARENTLY WRONG WELL. *Steward,*

125-1W-30AR

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 398.10	Elev. W.S.
3-21-57	61.00	2.48	58.52	P.R.	339.58
4-25-57	Pumping				
5-28-57	61.00	4.92	56.08		342.02
6-13-57	65.00	4.32	60.68	P.R.	328.42 337.42
7-11-57	65.00	0.20	64.80	P.R.	333.30
8-27-57	70.00	9.80	65.20	P.R.	332.90
9-19-57	70.00	8.66	61.34		336.76
10-29-57	70.00	12.27	57.73		340.37
11-15-57	70.00	5.51	64.49	P.R.	333.61
12-20-57	70.00	4.50	65.50	P.R.	332.60
1-31-58	70.00	6.70	63.30		334.80
2-27-58	70.00	16.29	53.71		344.39
3-31-58	60.00	4.32	55.68		342.42
4-20-58	50.00	1.86	48.14		349.96
5-26-58	50.00	2.02	47.98		350.12
6-30-58	60.00	9.17	50.83		347.27
7-28-58	60.00	16.58	43.42		354.68
8-30-58	60.00	7.43	52.57		345.53
9-27-58	60.00	14.00	46.00		352.10
10-24-58	60.00	7.40	52.60		345.50

Cloverdale Ranch #6

Transferred from P53 Field book #5
book 280 Ground water S.P. Valley.

125-1W-305

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 366.92	Elev. W.S.
11-22-58	20.00	1.80	18.20		348.22
12-20-58	20.00	1.78	18.22		348.70
1-24-59	20.00	1.96	18.04		348.88
2-26-59	20.00	2.37	17.63		349.29
3-19-59	20.00	2.52	17.48		349.44
4-30-59	20.00	2.70	17.30		349.62
5-23-59	20.00	2.46	17.54		349.38
6-27-59	20.00	2.17	17.83		349.09
7-24-59	20.00	2.09	17.91		349.01
8-28-59	20.00	2.15	17.85		349.07
9-26-59	20.00	2.05	17.95		348.97
10-28-59	20.00	2.03	17.97		348.95
11-28-59	20.00	2.30	17.70		349.22
12-26-59	20.00	2.43	17.57		349.35
1-29-60	20.00	3.09	16.91		350.01
2-26-60	20.00	3.55	16.45		350.47
3-22-60	20.00	3.71	16.29		350.63

388

Cloverdale Ranch #1

COPIED 1/6

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125-1W-30H

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 306.59	Elev. W.S.
11-22-58	25.00	1.77	23.23		353.36
12-20-58	25.00	2.75	22.25		354.34
1-24-59	25.00	3.60	21.40		355.19
2-26-59	25.00	4.60	20.40		356.19
3-19-59	25.00	5.00	20.00		356.59
4-30-59	25.00	5.34	19.66		356.93
5-23-59	25.00	5.56	19.44		357.15
6-27-59	P.R.				
7-24-59	25.00	5.63	19.37		357.22
8-28-59	25.00	5.70	19.30		357.29
9-26-59	25.00	5.60	19.40		357.19
10-28-59	25.00	5.60	19.40		357.19
11-28-59	25.00	6.10	18.90		357.69
12-26-59	20.00	2.07	17.93		358.66
1-29-60	20.00	2.00	18.00		358.59
2-26-60	20.00	2.28	17.72		358.87
3-22-60	20.00	2.46	17.54		359.05
		2.50			

Cloverdale Ranch #2

Copied. H/L

Copied. H/L

March 11, 1960

Stan:

According to the new Plan promulgated by Bob Payette, before he left us, we were supposed to start using a new book and forms for reading the San Pasqual Wells starting this month, but the forms have been delayed in the Print Shop, and its too late for making them out now if they were received today, so I'm returning the old books for Mr. Pearles to use another month, and hope we have the new sheets ready by next month.

Sincerely,

Don.
Don Leonard.

125-W-30A

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.A. Elev. 378.68 W.S.
11-22-58	25.00	2.86	22.14	356.54
11-20-58				PUMPING
11-24-59	25.00	4.17	20.83	357.85
2-26-59	25.00	4.63	20.37	358.31
3-19-59	25.00	4.90	20.10	358.58
4-30-59	25.00	5.56	19.44	359.24
5-23-59	25.00	5.73	19.27	359.41
6-27-59	25.00	5.73	19.27	359.41
7-24-59	25.00	5.91	19.09	359.59
8-28-59	25.00	5.95	19.05	359.63
9-26-59	25.00	5.65	19.35	359.33
10-28-59	25.00	5.56	19.44	359.24
11-28-59	25.00	1.01	23.99	354.69
12-26-59	25.00	0.05	24.95	353.73
1-1-29-60	25.00	0.41	24.59	354.09
2-2-26-60	25.00	6.83	18.17	360.51
3-3-22-60	20.00	2.08	17.92	360.76

Cloverdale Ranch #3

+ Copied 12-10-59 M.F.

Copied M.F.

125-1W-290

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 386.01	Elev. W.S.
11-22-58	20.00	1.28	18.72		367.29
12-20-58	20.00	0.98	19.02		366.99
1-24-59	24.00	5.02	18.98		367.03
2-26-59	20.00	0.72	19.28		366.73
3-19-59	20.00	0.40	19.60		366.41
4-30-59	20.00	1.08	18.92		367.09
5-23-59	20.00	1.17	18.83		367.18
6-27-59	20.00	1.33	18.67		367.34
7-24-59	24.00	0.30	23.70		362.31
8-28-59	24.00	2.01	21.99		364.02
9-26-59	24.00	1.01	22.99		363.02
10-28-59	24.00	0.65	23.35		362.64
11-28-59	24.00	Dry			
12-26-59	24.00	Dry			
1-29-60	24.00	Dry			
2-26-60	24.00	Dry			
3-22-60	24.00	Dry			

Cloverdale Ranch #4

Copied 12-10-59. Mf.

Copied. Mf.

125-1w-30A1

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 398.60	Elev. W.S.
11-22-58	Dry	✓	✓		✓
12-20-58	Dry				
1-24-59	Dry				
2-26-59	Dry				
3-19-59	Dry				
4-30-59	Dry				
5-23-59	"				
6-27-59	"				
7-24-59	"				
8-28-59	"				
9-21-59	"				
10-28-59	"				
11-28-59	"				
12-26-59	"				
1-29-60	"				
2-26-60	"				
3-22-60	"				

Cloverdale Ranch #5

125-MI-30A2

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 398.10	Elev. W.S.
11-22-58	50.00	4.90	45.10		353.00
12-20-58	50.00	2.20	47.80		350.30
1-24-59	50.00	1.20	48.80		349.30
2-26-59	50.00	0.75	49.25		348.85
3-19-59	50.00	6.00	44.00		354.10
4-30-59	50.00	5.71	44.29		353.81
5-23-59	50.00	8.00	42.00		356.10
6-27-59	50.00	9.00	41.00		357.10
7-24-59	50.00	7.24	42.76		355.34
8-28-59	50.00	7.70	42.30		355.80
9-26-59	50.00	8.00	42.00		356.10
10-28-59	50.00	8.00	42.00	Pump running	356.10
11-28-59	50.00	8.45	41.55	P.R.	356.55
12-26-59	50.00	7.42	42.58	P.R.	355.52
1-29-60	50.00	0.30	49.70	P.R.	348.40
2-26-60	45.00	21.50	23.50		374.60
3-22-60	45.00	2.92	42.08	P.R.	356.02

Cloverdale Ranch #6

Copied 12-10-59 Mf

Copied, Mf

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 317.92	Elev W.S.
8-25-59			Pumping		
9-25-59			"		
10-28-59			"		
11-29-59			"		
12-29-59	25.00	3.65	21.35		296.57
1-26-60	25.00	5.30	19.70		298.22
2-24-60	25.00	6.55	18.45	Special. of	299.97
3-29-60	25.00	7.50 .95	17.50		300.92 00 95

135-2W-1121

Location - Upper Hedges Basin about
1000' W/o. Aqueduct.

Owner City of S.D.

Equipment 50 H.P. Motor Peerless Turbopump.

Elev. Ground

" M.P. 317.92

Description M.P. "V" shaped
notch in S/W side at top
of casing.

135-2W-12W1

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 317.32	Elev. W.S.
10-7-56	state		10.9		306.42
4-5-57			10.3		307.09
8-25-59	15°	0.38	14.62		302.77
9-25-59	15°	1.27	13.73		303.66
10-28-59	15°	0.72	14.28		303.11
11-24-59	15.00	0.32	14.68		302.71
12-29-59	22.00	1.65	20.35		297.09
1-26-60	22.00	3.35	18.65		298.74
2-24-60	22.00	4.70	17.30		300.09
3-29-60	22.00	5.90	16.10		301.29
	25	1.20 5.98			1.20

Location: Upper Hedges Basin about
450' W/O Aqueduct.

Owner City of S.P.

Equipment - Windmill and woodstave tank.

Well 12" 64' Deep

Elev. ground 316.8

M.P. 317.32

Description M.P. = T.C. in 8' Sq. Con. Slab.

Copied. *st*

135-2W-12W2

Date	Hold on M.P.	Well Type	Depth	Elev. M.P. <u>318.20</u>	Elev. W.S.
8-25-59	15.00	³⁵ 0.43	14.57	⁵² 318.09	303.51
9-25-59	50.00	^{32 73} 2.70	47.30	P.R.	270.90 ⁷⁹
10-28-59	50.00	³⁵ 2.35	47.65	P.R.	270.55 ⁴⁴
11-29-59	50.00	³⁷ 1.98	48.02	P.R.	270.18 ¹⁰⁷
12-29-59	50.00	³⁷ 30.00	20.00	<u>318.09</u>	298.09 ³²
1-26-60	30.00	³⁵ 11.65	18.35		299.74
2-24-60	30.00	³⁵ 13.10	16.90		301.19 ¹³
3-29-60	25.00	³⁵ 9.16 _{19, 06}	15.84		302.25 ⁴⁵ _{' 06}

Upper Hodges Basin about 550' Eto
Aqueduct, N/S of San Dieguito River.

Owner: City of San Diego

Equipment: 50 H.P. G.E. Vert Motor D.C.
To 8" peerless turbine pump.

Well 12" casing 62' deep

Elev. ground 319[±]

^{copied} Elev. " " 318[±] Approx.

Description M.P. Horizontal slot
in S/S of 12" casing about 0.3'
above concrete slab.

Elev. 318.09 used 12-29-59

Run by City

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 319.09	Elev. W.S.
8-25-59	Pumping			319.89	
9-25-59	"				
10-25-59	"				
11-24-59	"				
12-29-59	26.00	8.20	17.80	302.09	
1-26-60	22.00	4.18	17.82	302.07	
2-24-60	22.00	6.32	15.68	309.21	
3-29-60	22.00	5.28 1.04	16.72	303.17 1.04	

(SHEET 8)

18

135-2W-12U.

Upper Hodges Basin about 2100'
E/o Aqueduct, in San Dieguito River
Channel, near south bank.

Owner City of S.D.

Equipment 50 HP Motor D.C. to
8" Peerless Turbine pump.

Well: 85' deep 16" perf. casing

Elev. Ground 319.2

M.P. 31902 (319.89)^{city}

Desc. Horiz. slot in NW side of
well casing about 2' above bottom
of river.

135-2W-12G1

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 329.47	Elev. W.S.
8-25-59	pumping				
9-25-59	"				
10-28-59	"				
11-29-59	"				
12-29-59	25.00	1.56	23.44		306.03
1-26-60	25.00	4.08	20.92		308.55
2-29-60	25.00	5.00	20.00		309.47
3-27-60	25.00	5.75	19.25		310.22

Upper Hodges Basin EIS San Dieguito
River on line between round top hill
on S/S of Valley and gap in cement
lined ditch at side swale crossing
on N/S of Valley. About 3200' E/O
Aqueduct.

Owner: City of S.D.

Equipment: 50 H.P. Motor d.c. to
8" Peerless turbine pump

M.P. = T.C. under pump base
about 35 ft above ground.

Elev. M.P. 329.47

135-2W-13G

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 333.43	Elev. W.S.
8-25-59	25.00	5.90	19.10		314.33
9-25-59	25.00	5.55 ³⁵	19.95		313.98
10-29-59	25.00	5.20 ³⁵	19.80		313.63
11-29-59	25.00	1.87 ³³	20.13		313.30
12-27-59	25.00	2.76 ³³	22.24		311.19
1-26-60	25.00	2.10 ³³	22.90		310.53
2-29-60	25.00	1.60 ³³	23.40		310.03
3-24-60	25.00	0.70 ⁵⁰	24.30		309.13

Location: Upper Hodgas Basin on
1st side creek east of Aqueduct entering
Valley from South.

Owner: City of S.D.

Equipment: Windmill & wood stave tank
on Conc. Slab.

Special Well 8" casing
M.P.

t.c. top of oil well casing
about 18' above ground

Elev. M.P. 333.43 (CITY ELEV.)

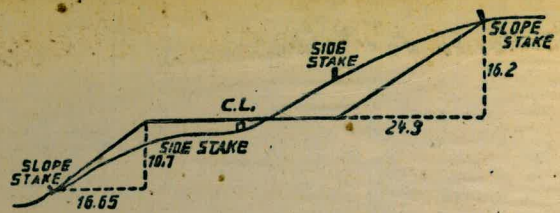
135-1W-7E1

Date	Hold on M.P.	Wetted Tap	Depth	Elev. M.P. 332.22	Elev. W.S.
8-8-25-59	20.00	9.52	10.48	321.74	
9-9-25-59	20.00	9.22 ₅₀	10.78	321.94 ₃₀	
10-10-28-59	20.00	8.95 ₂₀	11.05	321.17 ₂₀	
11-11-29-59	20.00	8.45 ₅₀	11.55	320.67 ₅₀	
12-12-29-59	20.00	8.14	11.86	320.36	
1-1-26-60	20.00	7.40	12.60	319.62	
2-2-29-60	20.00	6.40 _{1.00}	13.60	318.62 _{1.00}	
3-3-24-60	20.00	3.86	16.14	316.09	

Location: At abandoned dairy
near foot of Highland Valley grade
Description Stock well, windmill and
wood stave tank on concrete slab.
Casing 8" heavy oil well type.
M.P. = T.C. 12' above ground
Elev M.P. 332.22

COPIED TO END OF NOV. 59 Stored 12-14-59.
" " " " DEC. " Stored 12-31-59.
" " " " FEB. 60 Stored 3-3-60.

Aug. 7, 1957 Posted this July 1957. R.F.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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