DUPLICATE BOOK

GROUND WATER
SAN PASQUAL VALLEY

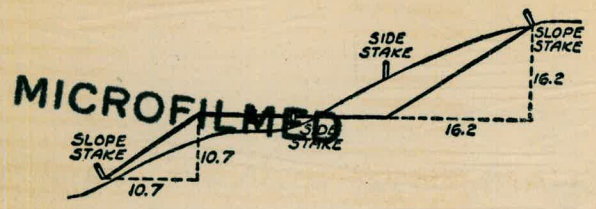
FIELD BOOK NO. 1

LEVEL BOOK

No. 738 F

W 780

#780-1



MICROFILMED

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.

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Telephone F-7511 Ext. 313

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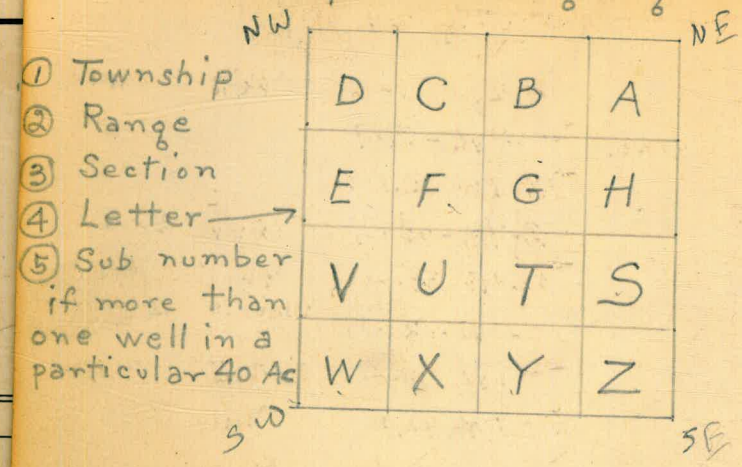
JAN 14 1965

LITHOGRAPHED IN WATERPROOF INK ON WATER-REPELLANT RAG PAPER AND SECTION SEWED WITH COATED BRONZE WIRE

MADE IN U. S. A.

See File 4044 for plotting

INDEX: To system of designating wells.



1. Township
2. Range
3. Section
4. Letter
5. Sub number if more than one well in a particular 40 Ac

H. M. Crooker
Division of Water Resources
401 Public Works Building
Sacramento, California

Home Address
1221 Virginia Way
La Jolla, California
Phone ~~GL 4-3571~~
GL-4-3571

✓ INDICATES INFORMATION HAS BEEN COPIED INTO NEW "WELL DATA SHEETS" STARTED IN MARCH, 1960. Bernard. 3-28-60.

Book No 1 — A.

San Dieguito Investigation

INDEX (Ground water records)

Page			
(37) 2	Well	#12-1W-35T ✓	
3	"	#12-1W-35-H ✓	
4	"	#12-1W-33H. ✓	"G" Sunny Ranch
5	"	#12-1W-33-E ✓	2 Story Green trim Eves
6	"	#12-1W-33-U ✓	Near Battle Mon.
7	"	#12-1W-32-B ✓	Co. Rd. Dist. Well
8	"	#12-1W-31A ✓	Bradbury
9	Pond	#12-1W-32S ✓	At dam
10	conc. Pump Pit	#12-1W-32S1 ✓	
11	Test Well #28	12-1W-32G ✓	
12	Local #23	12-1W-32T ✓	Circ. dug well Aban Ranch City Prop
13	Local #24	12-1W-32A ✓	
14	Pond	12-1W-32W ✓	
15		13 1W-5A. ✓	
(36) 16		12 1W-35U ✓	
17	Pond	12 1W-31G ✓	
18		12 1W-31G, ✓	Haskell
(45) 19	Test Hole #55	12 1W-26U ✓	
(46) 20		12 1W-35C ✓	Rockwood Ranch
21	Test Hole #59, Might b.	12 1W-35D ✓	
22	Local #53	12-1W-35C, ✓	
23	Test Well #17	12-1W-32F ✓	
(47) 24		12-1W -26F ✓	Rockwood P.P.
25	Local #14	12-1W-31H ✓	
26		12-1W-32C ✓	(Ballard)

INDEX (Continued)

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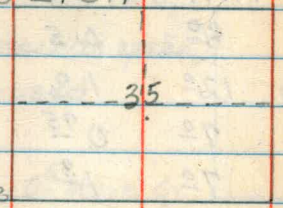
27	Test Well #25	12-1W-32 G.	
28		12-1W-36 D	Jorgensen
29	Test Well #27	12-1W-32 G_2	
30	Test Well #26	12-1W-32 G_1	
31	Test Well #21	12-1W-32 U	
32	Test Well #22	12-1W-32 X	
33	Test Well #2	12-1W-30Z	Bach Creek
34	Test Well #3	12-1W-30 Z_1	
35	P.P.	12-1W-35 B.	Trussel
36	Test Well #50	12-1W-35 H_1	
37	Test Well #9	12-1W-32 E	
38	Test Well #10	12-1W-32 V.	
39	Test Well #11	12-1W-32 V_1	
40		12-1W-30 Z_2	to House on hill Bach Creek
41		13-2W-1A	Dug Well 36" Conc Pipe Stock well
42	Test well 3/4"	12-1W-33X	W/S Lane S/S River Fenton
43	3/4" Test Well	13-1W-4C	E/S Lane S/S Santa Maria Creek
44	3/4 Test Well	13-1W-4A	Fenton Lane E/S Santa Maria Creek
45	3/4" Test Well	13-1W-3D	Fenton Lane E. of Barn
46	3/4" Test Well	12-1W-34U	Fenton NE. Cor. Alf. field
47	3/4" Test Well	12-1W-34Z	Near Fenton School N/S Co. Rd.
48	3/4" Test Well	12-1W-35V	Judson Meter #68214 N/S Co. Rd
49	3/4" Test Well	12-1W-26Y	Miss Johnson W. Well
50	3/4" Test Well	12-1W-25W	Miss Johnson E. Well
51	3/4" Test Well	12-1W-36F	Nelson-Near S W Cor. Eucalyptus Grove
52	3/4" Test Well	12-1W-36E	330' E. Nelson Hse N/S Hwy #78
53	3/4" Test Well	12 1W-35F	N.E. Cor. Walnut Orchard
61	3/4" Test Well	13-1W-3E	Fenton-550' E S M Creek Hiland Valley Rd.
62	3/4" Test Well	12-1W-34B	S/S Hwy #78 East of Webb Ranch
63	3/4" Test Well	12-1W-32 W-1	W. End Valley S S River
64	12" Well	12-1W-31A-1	Escondido Mut. W. C on Bradbury Ranch 250' E
65	~~3" Test Well #3~~	~~12 S-1W 30Z~~	SEE PAGE #34. DUPLICATE ENTRY
66	3/4" Test Well	12 S-1W-30S	Bach Creek S/S #75 Hwy
67	Log of Fenton Wells #1, #2		
68			
69	3/4" Test Well	13S-1W-6W	0.35 Mi. Upstr. from ft. of Hiland Valley Grade
70	3/4" Test Well	12S-1W-31U	In Swale along fence S.W. Old C. Rd. DG point
71	12" well	12S-1W-31 (450'E) T	Escondido Mut. Water Co on Bradbury Ranch
72	12" Gravel Envelope	12S-1W31 A_3	Escondido Mut W. Co. 610' E of Bradbury Well
73	Evap. Record		
74	Sketch Hdgate S.P.M.W.Co. Ditch	a/so	Bracket for Hook Gage
75	Sketch Hwy Bridge #5782 Guejito Creek		
76	Evap. Record		
77			
78	Rainfall Record		
79	Evap. Record & 12S-1W-34A WELL.		

WELL No 12S-1W-35 T. (2)

Date	Hold on M.P.	Wetted tape	Depth	Elev. M.P. 431.52	Elev. W.S.
8-14-45	9±	0.74	8.36		423.16
10-16-45			9.10		422.42
12-11-45	12±	2.33	9.67		421.85
1-7-46	9±	0 84	8.16		423.36
8-5-46	Pumping				
3-13-47	11	3±	8±		423.52
4-15-47	Running				
5-20-47		"			
6-18-47		"			
7-14-47		"			
8-13-47		"			
9-16-47		"			
10-15-47		"	also 11/14/47		

Location: 270'S x 20 E. Ctr



Descriptions -
Gravel Envelope Well
Under new 2"x6" tower
8" perforated casing inside
22" Casing. E/S Oiled Road)
M.P. = Top of 8" casing 0.5 above Ground.
Elev. M.P = 431.52
Elev. Ground = 431±
Owner - June Chase

* Turbine pump installed

BM Top of 5" I.D. pipe - 8' S.W. of obs well
Elev = 432.14±

See book #2 Page 37

Well No 12-1W-35H

1945 Date	Hold on M.P.	Wetted tape	Depth		Elev W.S.
				Elev M.P. 436.80	
8-15	8.0	0.5	7.5		429.30
12-11-45	12.0	1.8	10.2		426.60
3-5-46	7.0	0.75	6.25		430.55
5-17-46	7.0	1.3	5.1		431.1
6-18-46	9.0	1.54	7.46		429.34
7-18-46	9.0	0.25	8.75		428.05
9-12-46	15.0	4.07	10.93		425.87
10-16-46	12.0	0.46	11.54		425.26
11/14/46	13.0	1.1	11.9		424.90
12/12/46	11.0	1.52	9.48		427.32
12/23/46	10.0	1.87	8.13		428.67
1/17/47	9.0	2.13	6.87		429.93
2/17/47	8.0	1.32	6.68		430.12
3/13/47	7.0	0.13	6.87		429.93
4/16/47	7.0	0.83	6.17		430.63
5/20/47	9.0	1.28	7.73		429.07
6/18/47	11.0	0.9	10.1		426.70
7/14/47	11.0	0.8	10.2	irrig. Com.	426.60
8/13/47	13	1.37	11.63		425.17
9/16/47	13.0	0.33	12.67		424.13
10/13/47	14.0	0.80	13.2		423.60
11/14/47	14.0	0.39	13.61		423.19
12/17/47	14.5	0.55	13.95		422.85
1/16/48	15.0	0.68	14.32		422.48
2/18/48	15.0	0.54	14.46	P.R. S.S.	422.34

Location: - 1/4 mi. E x 250 N. ctr.
5' N. of NE Cor. conc. pit (pressure system)
Description: 8" casing. Unused well.
M.P. = Top of 8" casing - 0.5 above gr.
flooded around well
Elev. M.P. 436.80
" Gr. = 436.3

35

4-13-48	11.0	0.77	10.23	Field irrigated	426.57
5-20-48	10.0	0.92	9.08		427.72
6-15-48	10	0.24	9.76		427.04
7-15-48	12.0	0.98	11.02		425.78
8-12-48	13.0	0.8	12.2		424.60
9-17-48	14.0	0.5	13.5		423.30
10-15-48	15.0	0.65	14.35		422.45
11-18-48	15.0	0.10	14.90		421.90
*12-16-48	16.0	0.9	15.1		421.70
1-17-49	16.2	1.03	15.17		421.63
2-16-49	12.0	0.44	11.56		425.24

Note.—See Page 36 for Test Well #50. 60' N. of this well.

3-16-49	10.0	1.6	8.4	428.40	Pit and well 5' S.W. being destroyed
4-14-49	7.2	0.16	7.04	429.26	~~430~~ 7.6
5-17-49	7.5	0.76	6.74		430.06

*Measured in well in pit 5' S.W. TC 2.1 lower by eye No change M.P. Elev

WELL No. 12-1W-33-H
Sunny Ranch

Location - 2600' S x 525' W of NE Cor. (Sunny Ranch)

Description 10" conc. pipe in concrete foundation

M.P = Top of conc. foundation 2' above ground

Owner F.B. Giermann (Sunny "G" Ranch)

1945 Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 391.81	Elev. W.S.
8-14	6.0	0.78	5.~~32~~22		386.~~49~~59
12-11-45	6.0	0.41	5.59		386.22
1943 1-11			3.77		388.04
3-16			2.53		389.28
5-24			2.44		389.37
7-23			4.60		387.21
9-13			6.11		385.70
12-28			2.45		389.36
1944 1-12			2.26		389.55
3-30			2.00		389.81
6-7			2.06		389.75
8-25			4.93		386.88
10-25			5.95		385.86
12-7			2.40		389.41
1945 2-8			2.24		389.57
5-22			2.51		389.30
8-9			5.11		386.70
10-16			5.76		386.05
1946 1-7			3.16		388.65
3-5	4.0	0.67	3.33		388.48
5-16-46	4.0	0.42	3.58	P.P. Rng* 15' NW	388.23
6-17-46	5.0	0.30	4.70	"	387.11
7-18-46	6.0	0.60	5.4	"	386.41
9-13-46	8.0	1.52	6.48	"	385.33
10-17-46	8.0	1.18	6.82	"	384.99

11-14-46	7.0	0.45	6.55	385.26
12-12-46	5	1.18	3.82	387.99
12-24-46	4.0	0.39	*3.61	388.20
1-20-47	4.0	0.41	*3.59	388.22
2-17-47	4.0	0.47	3.53	388.28
3-14-47	3.2	0.17	*3.03	388.78
4-16-47	4.0	0.53	3.47	388.34
5-21-47	4.0	0.18	3.82	387.99
6-17-47	5.0	0.1	4.9	386.91
7-14-47	6.2	0.22	5.98	385.83
8-13-47	8.0	0.87	7.13	384.68
9-16-47	8.0	0.60	7.40	384.41
10-15-47	7.50	0.47	7.03	384.78
11-12-47	8.0	0.76	7.24	384.57
12-17-47	7.50	0.48	7.02	384.79
1-16-48	7.5	0.42	7.08	384.73
2-18-48	7.5	0.58	6.~~95~~92	384.~~86~~89
4-14-48	8.0	0.70	7.30	384.51
5-21-48	7.5	0.4	7.10	384.71
6-14-48	8.0	0.25	7.75	384.06

Elev. M.P. = 391.81
Gr. = 389.4
Chiseled □ NE Cor of well foundation

BM = Elev. 391.79 conc.

Cont'd Pg-31

WELL No 12-1W-33E
(H. G. Fenton)

Location: - 2100' S x 940' E. of N. W. Cor.
Back of 2 story white house
Green trim. Garage not Sq. with house
Description: - 3' diam, 26' deep.
Conc. Pit Press. Systm

T. C. - 0⁴ above ground. 15' N. of W. line of house
M.P. Top of 2" planking along S/S of 1" Section
Eucalyptus Trees SE and N of House

M.P Elev. 389 56 Ground 389 06

BM - on Reif. rod in part of old foundation
1 Ft. east of well 389 80

Continued on page 60

Early measurements by K. A. Schumacher (U.S.G.S.)

1945 Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 389.56	Elev. W.S
8-14	16	0 89	15 11		374.45
12-10-45	18	1 45	16 55		373 01
3-5-46	16	1 20	14 8		374.76 ✓
1937 7-2			9.2		380.36
8-30			10 5 P.		379.06
10-20			10 33 P.		379.23
11-18			10 14		379.42
12-21			9.72		379.84
1938 6-17			8.37 P.		381.19
9-16			9.55		380.01
11-9			10.50		379.06
1939 2-3			9.72		379.84
4-25			9.06		380.50
6-28			8.99		380.57
9-1			11.10 P.		379.46
11-17			12.14 P.		377.42
1940 3-1			10.62		378.94
6-6			10.54		379.02
8-27			12.95		376.61
11-6			13.49		376.07
1941 6-16			7.98		381.58
8-26			7.73		381.83
11-19			8.27		381.29
1942 1-19			8.76 P.		380.80
4-1			8.73		380.83

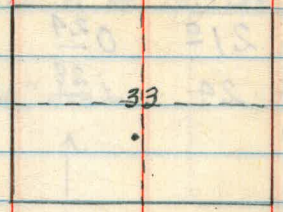
1945 DATE	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 380.78	Elev. G.W.
8-24	1^{0}	0^{0}	1^{0}		379^{78}
10-1	3^{0}	0^{35}	2^{65}		378.13
12-10-45	4^{0}	0^{69}	3^{31}		377.47
3-5-46	1^{0}	0^{18}	0^{82}		379.96
5-16-46	1^{0}	0^{20}	0^{80}		379.98
6/18/46	1^{50}	0^{02}	1^{48}		379.30
7/18/46	2^{16}	0	2^{16}		378.62
9/12/46	4^{0}	0^{9}	3^{10}		377^{68}
10/16/46	4^{0}	0^{6}	3^{4}		377^{38}
11/12/46	4^{0}	0^{65}	3^{35}		377^{43}
11/25/46	2^{0}	0^{37}	1^{63}	River at Lane 11/23/46 P.M.	379^{15}
12/12/46	2^{2}	0^{15}	2^{05}		378^{73}
12/23/46	2^{0}	1^{02}	* 0^{98}	* f Est 2 Cu See in River (?) 250' South	379^{80}
12/28/46	0^{6}	0	0^{60}	f. Est 50 S.F. in River 250' S.	380^{18}
1/20/47	1^{0}	0^{24}	0^{76}		380.02
2/17/47	0^{65}	0	0^{65}		380.13
3/13/47	0	+.65	$+0^{65}$		381.43
4/16/47	0^{69}	0^{0}	fo' 0^{69}		380^{09}
5/21/47	1^{04}	0^{00}	1^{04}		379^{74}
6/18/47	2^{0}	0^{29}	1^{71}		379.07
7/15/47	3^{0}	0^{73}	2^{27}		378.51
8/12/47	3^{0}	0^{07}	2^{93}		377.85
9/15/47	3^{5}	0^{12}	3^{38}		377^{40}
10/13/47	4^{0}	0^{60}	3.40		377.38
11/4/47	4^{0}	0^{4}	3^{60}		377.18

WELL No 12-1W-33U

(6)

Near Battle Monument - 800' S x 35' W. Ctr.

Abandoned well, 4" Horiz Cent. pump, 35' west of lane across valley, 125' S of State Highway #78. 20' SW of 20" wheel Gate Valve near 4 trunk willow. Old pannel board and transformer pole about 10' S.W. of well.



M.P. = Top of 16" Casing 0^{8} below ground

Elev. M.P. 380^{78} Elev Gr 381^{4}

11/14/47	4^{0}	0^{4}	3^{60}		377.18
12/14/47	3^{5}	0^{23}	3^{27}		377.51
1/15/48	3^{5}	0^{12}	3^{38}		377^{4}
2/18/48	3^{5}	0^{32}	3^{18}		377.6
4/13/48	3.5	0^{37}	3^{13}		377^{65}
5/21/48	4^{0}	0^{50}	3^{50}		377^{28}
6-15-48	4^{0}	0^{25}	3^{75}		377^{03}
7-15-48	4^{0}	0	4^{0}		376^{78}

* Fenton dredging River Channel

fr Est diversion in ditch 75' N. of well

8-12-48	4^{3}			moist mud at 4^{25}	Est 376^{48}
9-16-48			4^{6}	Est.	376^{18}
10-15-48			4^{75}	"	376^{03}

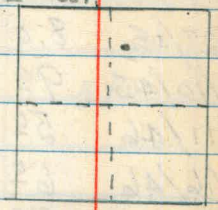
BM chiseled □ Entrance to S.P. Battle Mon. on threshold stone near SE Cor. of W'ly stone Entrance post Elev = 394^{86}

11-19-48			4^{66}	Est.	376^{12}

Cont'd Page 68

WELL No 12-1W-32-B (1)
County Road Dist. Well
Local #62

Location: 1180' S. x 2550' W of NE Cor.



Description: Dug well, 36" diam
38' deep windmill

M.P. = Hole, top of wood planking (wooden plug)
M.P. Elev. = 375.54 Ground 374±

P = windmill running

1945 Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 375.54	Elev W.S.
8-14	21°	0.24	20.76		354.78
12-10-45	24	1.28	22.72		352.82
2-8-45			19.57		355.97
5-22			20.96		354.58
8-9			22.93		352.61
1943 1-11			18.85		356.69
3-16			16.18		359.36
5-24			19.67		355.87
7-23			21.92		353.62
9-13			21.93		353.61
12-28			19.11		356.43
1944 1-12			18.91		356.63
6-7			19.31		356.23
8-25			20.04		355.5
10-25			19.57		355.97
12-7			19.40		356.14
1946 1-7			22.28		353.26
5/16/46	22	1.45	20.55		354.99
6/18/46	22	1.60	20.40		355.17
7/18/46	22	1.60	20.40		355.17
9/13/46	23	2.25	20.75		354.79
10/18/46	23	2.60	21.4		354.14
11/18/46	22	1.3	~~20.7~~ 21.4 R.		354.84
12/11/46	23	2.55	20.45		355.09
12/24/46	23	2.65	20.35		355.19

Measurements by K.F. Schumacher

Bored new hole on E/s of former G-22
Pump same Elev.
W N run slowly

Also known as G-22-a
100 yds east of

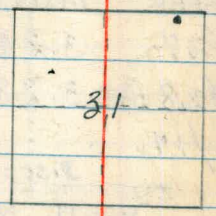
Page 68 Cont'd on

B.M. High Point on sidewalk 373.92

WELL No. 12-1W-31A.

1945 Date	Hold on R.P.	Wetted Tape	Depth	Elev. M.P. 361.83	Elev W.S.
8/27/45	8.0	0.18	7.82		354 01
12/10/45	9 0	1 10	7.90		353.93
4/11/46	5 0	0.45	4.55		357.28
5/16/46	6 0	0.67	5 33		356 50
6/19/46	7 0	0 62	6.38		355 45
7/18/46	7 5	0 30	7 20		354 63
9/13/46	10 0	1 55	8 45		353 38
10/18/46	9 0	0 26	8 74		353 09
11/15/46	9 0	0 88	8 12		353 71
12/11/46	8 0	0 16	7 84		353 99
12/23/46	8 0	0 31	7 69		354 14
1/16/47	8 0	0 85	7 15		354 68
2/17/47	7 0	0 26	6 74		355 09
3/17/47	7 0	0 51	6 49		355 34
4/15/47	7 0	0 54	6 46		355 37
5/21/47	8 0	0 72	7 28		354 55
6/17/47	8 0	0 13	7 87		353 96
7/11/47	9 0	0 45	8 55		353 28
8/12/47	10 0	0 65	9 35		352 48
9/15/47	11 0	1 2	9 80		352 03
10/13/47	11 0	0 98	10 02		351 81
11/4/47	11 0	0 85	10 15		351.68
11/11/47	11 0	0 92	10 08		351.75
12/16/47	11 0	1 3	9 70		352.13
1-15-48	10 0	0 55	9 45		352.38

Location: -1160' W x 70' S of NE Cor 3' S of Cow Barn between cow bar and separator house. About 325' E of dirt road.



M.P. T.C. flush with ground (plank cover)

Owner - Olive B & Jm E. Jr. (Bradbury)

Elev. M.P. 361 83 E/S TC

2-18-48	10 0	0 88	9 12	352.71
3-16-48	9 5	0 77	8 73	353 10
4-14-48	9 5	0 70	8 8	353 03
5-21-48	10 0	0 44	9 56	352 27
6-15-48	11 0	0 92	10 08	351 75
7-15-48	11 0	0 28	10 ~~43~~ 92	351 11
8-13-48	12 0	0 70	11 30	350 53
9-17-48	13 0	1 14	11 86	349 97
10-15-48	13 0	0 93	12 07	349 76
11-19-48	12 5	0 68	11 82	350 01
12-17-48	12 2	0 68	11 52	350 31
1-18-49	11 0	0 31	10 69	351 14
2-15-49	11 0	0 82	10 18	351 65
3-21-49	10 0	0 75	9 25	352 58
B.M. Chiseled □ Cor old Conc water trough about 50' E of cow barn				
4-14-49	10 0	1 03	8 97	352 86
5-17-49	10 0	0 77	9 23	352 60

(SEE PAGE 9 BOOK # 2)

1945 Date	Hold on M.P.	Wetted tape	Depth	Elev. M.P.	Elev. W.S.
8/27	3.24	0	3.24		
8/28	3.28	0	3.28		
12/17			*6.30		

Discontinued

Well No 12 1 W-32A-Local #24 37479

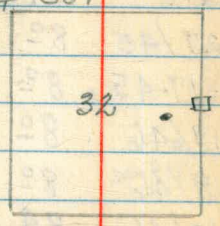
Contd from Page 13

11/19/48	18.0	1.35	16.64		358.15
12/17/48	18.0	1.72	16.28		358.51
1/17/49	18.0	1.88	16.12		358.67
2/15/49	18.0	2.2	15.8		58.99
3/16/49	17.0	1.18	15.82		58.97
4/14/49	17.0	1.13	15.87		58.92
5/18/49	15.0	0.68	14.32		360.47

Pond No 12-1W-32 S

Location: 1140' W. x 200' S of E. 1/4 Cor

Description: 20 d. nail, 2' below fork in leaning willow, N/S of tree, 30' N. of S. end of dam. At toe of slope easterly side of dam. Blazed willow.



* Pond has been dredged with dragline

Discontinued Record

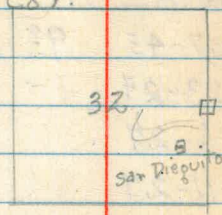
Conc. Pump Pit - 12-1W-32S1

1945 Date	Hold on R.P.	Wetted tape	Depth	Elev M.P. 375.44	Elev. W.S.
8/27/45	8.0	0.51	7.49		367.95
12-17-45	8.0	0.88	f 7.12		68.32
6/19/46	8.0	0.88	* 7.12		68.32
7/19/46	8.0	0.17	* 7.83		67.61
9/13/46	8.4	0	* 8.40		67.04
10/7/46	9.0	0.58	* 8.42		67.02
11/18/46	9.0	0.59	* 8.41		67.03
12/11/46	8.5	0.23	* 8.27		67.17
12/23/46	8.5	0.19	* 8.31		67.13
1/20/47	7.8	0.35	f 7.45		67.99
2/18/47	6.8	0.14	f_{fo} 6.66		68.78
3/17/47	6.8	0.25	f_2 6.55		68.89
4/16/47	7.0	0.05	f_o 6.95		68.49
5/21/47	7.2	0.07	7.13		68.31
6/17/47	7.5	0.05	7.45		67.99
7/14/47	8.5	0.34	8.16		67.28
8/12/47	9.0	0.52	8.48		66.96
9/15/47	9.0	0.28	8.72		66.72
10/14/47	9.0	0.15	8.85		366.59
11/13/47	9.0	0.12	8.88		366.56
12/16/47	9.0	0.40	8.60		366.84
1-15-48	9.0	0.27	8.73		366.71
2-17-48	9.0	0.27	8.73		366.71
4-14-48	9.0	0.25	8.75		366.69
5/21/48	9.5	0.60	8.90		366.54

Location:- 930' W x 1030' S of E. 1/4 Cor.

Concrete pump pit S.E. base of hill.

11.33 x 9.33 O.D. 8" Walls N/S San Dieguito River.



M.P. = Bottom side of straight edge layed across N/W Cor. near fence post. 7' above ground E/S pump pit

f small stream flowing in River channel 150' So.

* River dry

f_1 = Estimated flow in River f_o = River bed moist

M.P. = Chiseled □ NW Cor. Conc. wall

Elev. M.P. = 375.44 Elev. Gr. = 369.4

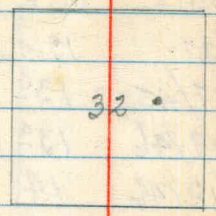
6-15-48	9.1		dry		
2-16-49	8.0	0.53	f_{10} 7.47		367.97
3-21-49	7.5	0.5	7.00		368.44
4-14-49	6.7	0	6.70		368.74
5-18-49	7.2	0.35	6.85	f River 20 cfs	368.59

See Book 2 P-20

Test Hole No. 28 12-1W-32 G

1945 Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 368.79	Elev W.S.
12-17-45	9±	1.05	7.95		360.84
*4-23-27			4.56		364.23
5-6-27			4.59		364.20
5-11-27			4.58		364.21
5-19-27			4.59		364.20
5-26-27			4.60		364.19
6-4-27			4.60		364.19
6-9-27			4.61		364.18
6-23-27			4.55		364.24
6-28-27			4.60		364.19
7-6-27			4.64		364.15
7-13-27			4.66		364.13
7-21-27			4.67		364.12
7-28-27			4.70		364.09
8-5-27			4.70		364.09
8-12-27			4.73		364.06
8-19-27			4.57		364.22
8-26-27			4.78		364.01
10-4-27			4.93		363.86
11-11-27			4.56		364.23
12-8-27			4.49		364.30
12-23-27			4.37		364.42
1-6-28			4.30		364.49
1-19-28			4.19		364.60
1-30-28			4.17		364.62

Location:-1370'W. x 10'N. E. 1/4 Cor. On S/S of northerly channel of San Dieguito R. About 200' West of earth dam On Ely side of old levee



M.P.= Top of cap of 2" pipe (3/8" hole in top) About average ground

* Old Record for this test well by F.E. Green described as follows:
Sta. 28, Drainage of San Pasqual
Location:- So side of wash below Dam.
Description:- 2" Pipe, 17" deep.
R.P. - Top of pipe 1.± above ground
Elev. 368.79

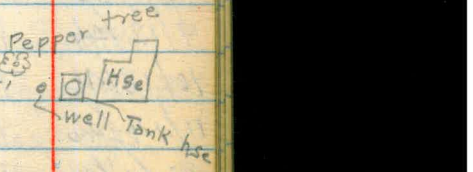
NOTE: This well destroyed by Fenton - Spring of 1946.

Continued on page 54.

Well No. 12-1W-32-T
Local No. 23

Location - 450'S x 550'E of ctr

Description:- Circular dug well Concrete lining. Abandonned ranch Property of City of San Diego.
M.P. = Top of conc. lining



* 12/17/45 well needs cleaning out of rubbish - Cleaned out well 10/3/46. (City crew)

Elev. M.P. = 370.72 = Chiseled □, Top Conc. lining
Elev Gr. = 370.5

1945 Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 370.72	Elev. W.S.
8-27	13.0	0.55	12.45		358.27
12/17/45	13.0	0.80	*12.20		58.52
7/19/46	13.0	0.92	12.08		58.64
9/13/46	14	0.58	13.42		57.30
10/7/46	14	0.21	13.79		56.93
11/18/46	15.0	0.92	14.08		56.64
12/11/46	14	0.42	13.58		57.14
12/23/46	14	0.52	13.48		57.24
1/20/47	14	1.65	12.35		58.37
2/18/47	12.0	0.26	11.74		58.98
3/17/47	12.0	1.62	10.38		360.34
4/16/47	12.0	0.83	11.17		59.55
5/21/47	12.0	0.15	11.85		58.87
6/17/47	13.0	0.60	12.40		58.32
7/14/47	14.0	1.0	13.0		57.72
8/12/47	14.0	0.4	13.6		57.12
9/15/47	14.5	0.32	14.18		56.54
10/14/47	14.6	0.15	14.45		56.27
11/13/47	15.0	0.4	14.60		356.12
12/16/47	15.0	0.47	14.53		56.19
1/15/48	15.0	0.50	14.50		56.22
2/17/48	15.0	0.6	14.40		56.32
4/14/48	14.5	0.30	14.20		56.52
5/21/48	15.0	0.60	14.40		56.32
6-15-48	15.5	0.93	14.57		56.15

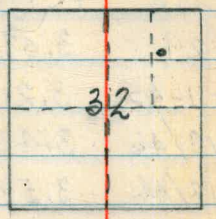
7-16-48	15.5	0.60	14.9	355.82
8-13-48	16.0	0.85	15.15	55.57
9-17-48	16.0	0.52	15.48	55.24
10-15-48	16.0	0.30	15.70	55.02
11-19-48	16.0	0.20	15.80	54.92
12-17-48	16.0	0.35	15.65	55.07
1-18-49	16.0	0.40	15.60	355.12
2-16-49	15.2	0.28	14.92	55.74
3-21-49	14.0	1.17	12.83	57.89
4-14-49	13.0	0.82	12.18	58.54
5-18-49	13.0	0.98	12.02	58.70

see Book #2 P-21

WELL No 12-1W-32A
Local No 24

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 374 79	Elev. W.S.
12-10-45	14 0	0.32	13 68		361.11
3/14/46	13 0	0.65	12.35		62.44
5/17/46	13 0	0.82	12.18		62.61
6/18/46	14 0	1.15	12.85		61.94
7/18/46	15 0	1 43	13.57		61.22
9/12/46	16 0	1 80	14 20		60 59
10/18/46	15 0	0 95	14 05		60 74
11/14/46	15 0	0 70	14 30		60 49
12/11/46	15 0	1 3	13 7		61 09
12/23/46	15 0	1 15	13.85		60.94
1/16/47	15	1 25	13 75		61.04
2/17/47	15	1.15	13.85		60.94
3/17/47	15	1.16	13.74		361.05
4/16/47	15 0	0 70	14 3		60.49
5/21/47	15 0	1 25	13 75		61.04
6/17/47	15 0	0 60	14 40		60.39
7/14/47	16 0	2 09	13.91		60.88
8/13/47	16 0	1 82	14 18		60.61
9/16/47	16 0	1 74	14 26		60.53
10/15/47	16 0	1 60	14 40		60.39
11/13/47	16 0	1 35	14 65		360.14
12/17/47	16 0	1 27	14 73		360.06
1/15/48	16 0	1 15	14 85		359.94
2/17/48	16 0	1 0	15 0		359.79
3/15/48	16 0	0 96	15 04		359.75

Location:- 1150'S x 1200'W of NE Cor. 40'N.W. of 2 story house. About 35' W. of adobe out house having concrete foundation and floor.



Description:- About 3ft. sq. concrete casing, with flush 2" plank top. Pressure System. Top of casing about 1" above ground Depth Ab. 20'
M.P. = Top of 2" planking = Top of conc. casing
M.P. Elev. = 374 79 Ground Elev. 373 47

Note:- General overhaul being made to house. New porch being added in rear. New chimney and fireplace on E/S. Old building will be stuccoed and plastered inside. Two tall palm trees S.E. & S.W. of house (front yard)

* Pressure system recently operating

	1 HP Fairbank Morse Motor				
4/14/48	16 0	0 88	15 12	59	67
5/21/48	16 0	0 81	15 19	59	60
6/14/48	16 0	0 65	15 35	59	44
7/16/48	17 0	1 50	15 5	59	29
8/13/48	17 0	1 08	15 92	58	87
9/16/48	17 0	1 0	16 0	58	79
10/15/48	17 0	0 67	16 33	58	46

See page 9

B.M.- Nail S/S power pole, N/S oiled road, 150' S of well S.W. Cor. House lot. El. 373.36

1945 Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 359.28	Elev. W.S.
8/29	3.07	0	3.07		356.21
12-11-45	3.21	0	3.21		356.07
6/18/46	3.42	0	3.42		355.86
7/18/46	3.52	0	3.52		355.76
9/12/46	3.96	0	3.96		355.32
10/17/46	3.98	0	3.98		355.30
11/18/46	3.67	0	3.67		355.61
12/3/46	3.29	0	3.29*		355.99
12/12/46	3.31	0	3 31		355.97
12/24/46	3 63	0	3 63		355 65
1/20/47	3 53	0	3 53		355 75
2/18/47	3 50	0	3 50		355 78
3/17/47	3 52	0	3 52		355 76
4/16/47	3 55	0	3 55		355 73
6/18/47	3 74	0	3 74		355 54
7/15/47	3 86	0	3 86		355 42
8/12/47	4 45	0	4 45		354 83
9/16/47	dry	at	4 5	Also 10/14 11/14	
4/14/48	3 27	0	3 27		356.01

Location. 800'E x 200' N.S.W. Cor. Sec 32

Description: Cone. Nail on W/S of half dead willow at bend in pond, 75' N of gate in wire fence 200' from base of mountain, 150' NE of hay stack at end of trail on S/S of Valley.

Pond over flowing see new test well installed 11/29/46

hand level { M.P. on tree is about 0 6 higher than M.P. on test hole (See Page 63

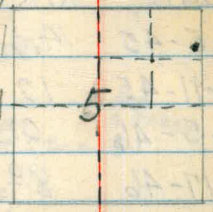
Elev. M.P. = 359 28

B.M. Elev = 371 80 Chis □ on boulder under bushy tree 200' S.E. of obs. well.

Well No. 13-1W-5A

Date	Hold on M.P.	Wetted tape	Depth	Elev. M.P. 393.38	Elev. W.S.
8/29/45	26.0	1.6	24.4		368.98
12-11-45	26.0	1.3	24.7		68.68
3-14-46	24.0	1.4	22.6		70.78
5-16-46	24.0	1.2	22.8		70.58
6-18-46	26.0	1.4	24.6		68.78
7/18/46	26.0	1.3	24.7		68.68
9/12/46	27	0.68	26.32		67.06
10/17/46	28	1.02	26.98		66.40
11/15/46	28	1.1	26.90		66.48
12/3/46	28	1.55	26.45		66.93
12/12/46	28	1.72	26.28		67.10
12/24/46	27	0.95	26.05		67.33
1/20/47	26.0	0.76	25.24		68.14
2/18/47	26.0	1.85	24.15		69.23
3/17/47	28	4.52	23.48		369.90
4/16/47	26	2.58	23.42		369.96
5/21/47	26	19.0	24.1		69.28
6/18/47	28	3.2	24.8		68.58
7/15/47	27	1.35	25.65		67.73
8/12/47	27	0.38	26.62		66.76
9/15/47	28	0.67	27.33		66.05
10/14/47	28	0.45	27.55		365.83
11/14/47	28	0.40	27.60		365.78
12/17/47	28	0.70	27.30		366.08
1/15/48	28	0.78	27.22		366.16

Location:- Abt. 1100' S x 50' W. of N.E. Cor. in bambo thicket under old windmill tower, 100' S.E. of house, above Valley floor.



Description:- 5' diam conc. lining for about 10' in depth±. Dug well. 2" plank cover.

Judson Property

M.P. = Top of conc. lining

Elev M.P. = 393.38 Elev Gr. = 392.6

2-18-48	28.0	0.98	27.02		366.36
4-14-48	28.0	1.13	26.87		366.51
5-21-48	28.0	0.60	27.40		365.98
6-15-48	28.0	0.32	27.68		365.70
7-15-48	29.0	0.80	28.2		365.18
8-12-48	29.0	0.55	28.45		364.93
9-16-48	No 51	No 04	50.6 No		Est. depth of 29= 364.60
10-18-48			29.1		364.28
11-18-48			29.2		364.18
12-17-48			29.1		364.28
1949 1-17			29.0		364.38
2-22	26.0	0.3	25.7		367.68
3-16	29	4.33	24.67		368.71

B.M Spike in power pole # 19383, 100'± N.W. of obs well Elev = 383.32

4-15	28.0	3.81	24.19	old WM tower burned down
5-18	28.0	3.80	24.20	369.18

Well No. 25-1W-35U

Date	Hold on R.P.	Wetted tape	Depth	Elev M.P. 431.34	Elev W.S.
9-5-45	14.0	4.28	9.72		421.62
12-11-45	12	0.74	11.26		20.08
3-5-46	9°	0 80	8.20		23.14
5-17-46	8°	0 60	7 4		23.94
6-18-46	10°	1°	9°		22.34
7-18-46	11°	0 60	10 4		20.94
9-12-46	12°	0 20	11 8		19.54
10/16/46	13°	0 7	12 3		19.04
11/14/46	13°	0 65	12 35		18.99
12/12/46	12°	0 61	11 39		19.95
12/23/46	12°	0 78	11 22		20.12
1/20/47	11°	0 58	10 42		20.92
2/17/47	11°	1 05	9 95		21.39
3/13/47	10°	0 14	9 86		421 48
4/16/47	11°	1 72	9.28		422 06
5/20/47	10°	0 63	9.37		21.97
6/18/47	11°	1 00	10°		21.34
7/14/47	11°	0 17	10 83		20.51
8/12/47	12°	0	12°		19.34
9/16/47	13 5	0 5	13°		18.34
10/13/47	14°	0 5	13 5		17.84
11/14/47	14°	0 17	13 83		417.51
12/17/47	14°	0 82	13 18		418.16
1/16/48	WELL destroyed				
4-14-49	13°	3 5	9 5		422.87
5-18	12°	2.33	9.67		422.70

Location: 750' S. x 350' W Ctr.

40' N of E' oiled road. In clump of Johnson Grass 6' So. of old lean-to pumphouse. At approx end of curve curve westerly. White board & batten cottage S/S of road, hip roof, conc. foundation, conc. front steps.

M.P. = Top S/S 12" casing about 0.5 above ground.
Elev M.P. 431 34
Elev. Gr. = 430 8

New well 250' N x 25' E. of old well — 3 HP Vert US Motor DC to Turbine Pump

*2/18/48	15°	0 58	14 42	432.37	417.95
4/13/48	13	0 88	orig 12 12		420.25
5/20/48	14	2 7	11 3		421.07
6/14/48	14	1 6	12 4		419.97
7/15/48	15	1 45	13 55	8/14/48 R.	418.82
9/17/48	16	0 43	15 57		416.80
10/15/48	16 5	0 51	15 99		416.38
11/18/48	16 5	0 49	16 01		416.36
12/16/48	16°	1 35	14 65	Water in ditch	417.72

B.M. (From E Rd. opp. obs well) 120 W x 60' S. Chiseled □ Top of granite boulder on W'ly ditch bank E'ly side Alf. field S/S oiled road. Elev. 434 49

* New M.P. Elev. 432 37 = Hole in NE cor pump base on 10" casing

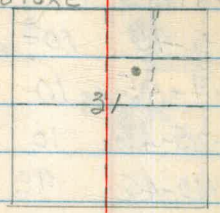
1-17-49	16°	1 05	14.95	417.42
2-16-49	15	1 35	13 65	418.72
3-16-49	13°	0 93	12 07	420 3

SEE BOOK #2 PAGE 36

Pond - 12-1W-31 G

About 2210's x 1720'W of NE Cor.

Location 1000' S.W.ly along road to lake Hodges from T road west end San Pasqual Valley and 60' left thereof. 200' S.W.ly from int'sn power line over hill from W. and power line along Lake Hodges Road.



25' S.E. of outlet of 18" corrugated iron culvert.

M.P. = 10 d. nail on S/S of 18" cham willow. Blazed trunk. nail is about 1ft above average ground in vicinity of tree but lower than average ground across pond to south.

Elev. M.P. 348.11

Ground (Mean) 347.5

B.M.- Top of 18" C.I. culvert. Downst'r. end.
Elev. 351.99

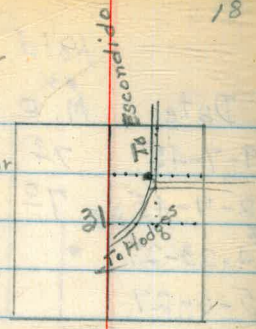
Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 348.11	Elev. W.S.
9/5/45	1.69	0	1.69		346.42
12/10/45	1.52	0	1.52		46.59
5/11/46	1.34	0	1.34		46.77
6/17/46	1.49	0	1.49		46.62
7/18/46	1.62	0	1.62		46.49
9/13/46	2.02	0	2.02		46.09
10/8/46	2.08	0	2.08		46.03
11/15/46	1.71	0	1.71		46.40
12/12/46	1.52	0	1.52		46.59
12/23/46	1.36	0	1.36		46.75
1/16/47	1.17	0	1.17		46.94
2/17/47	1.12	0	1.12		346.99
3/14/47	1.16	0	1.16		346.95
4/15/47	1.15	0	1.15		46.96
5/17/47	1.41	0	1.41		46.70
6/17/47	1.49	0	1.49		46.62
7/11/47	1.78	0	1.78		346.33
8/13/47	mud at 2.05				
9/15/47	Dry				
2/18/48	dug out 2.17	0	2.17		345.94
3/16/48	2.03	0	2.03		346.08
4/13/48	1.96	0	1.96		346.15
5/20/48	dry Est. 2.35	0	2.35	Est 2.15 + 02	6/14 dry 345.76

Well No. 12-1W.31-G1

1330' S x 1450' W of NE Cor

Location- 95 N x 40' W. Tend road, West end San Pasqual Valley. Above Valley floor

Well not in use.



M.P. = 12" G.I. casing (top) 2' above ground.

Elev. M.P = 358.02

" Ground = 355.8

Owner Haskell

Escondido Mut W.C. developing well 400'± E

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 358.02	Elev. W.S.
9-5-45	10.0	0.82	9.18		348.84
10-9-45	10	0.54	9.46		48.56
10-25-45	10	0.91	9.09		48.93
12-10-45	9.0	0.90	8.10		49.92
3-5-46	7.0	0.58	6.42		51.60
4-11-46	6.5	0.28	6.22		51.80
5-16-46	7.0	0.28	6.72		51.30
6-19-46	9.0	0.50	8.50		49.52
7-18-46	9.30	0.18	9.12		48.90
9-12-46	11.0	1.1	9.90		48.12
10-8-46	10.0	0.48	9.52		48.50
10-11-46	10.0	0.30	9.70		48.32
11-15-46	9.0	0.31	8.69		49.33
12-11-46	8.0	0.30	7.7		50.32
12/23/46	8.0	0.39	7.61		50.41
1-16-47	7.2	0.08	7.12		50.90
2/17/47	7.2	0.15	7.05		50.97
3/17/47	7.0	0.20	6.80		351.22
4/15/47	7.4	0.24	7.16		50.86
5/21/47	8.2	0.17	8.03		49.99
6/17/47	9.0	0.31	8.69		49.33
7/14/47	10.0	0.58	9.42		48.60
8/12/47	11.0	0.82	10.18		47.84
9/15/47	11.0	0.39	10.61		47.41
10/13/47	11.0	0.39	10.61		47.41

11/4/47	11.0	0.57	10.43	347.59	
11/11/47	11.0	0.70	10.3	347.7	
12/16/47	10.0	0.70	9.3		348.72
1-15-48	9.1	0.07	9.03		348.99
2-18-48	9.0	0.55	8.45		349.57
3-16-48	8.0	0.23	7.77		350.25
4-13-48	8.0	1.03	6.97		351.05
5-20-48	10.0	0.75	9.25		348.77
6-14-48	10.5	0.65	9.85		348.17
7-15-48	11.0	0.42	10.58		34744
8-12-48	12.0	0.70	11.3		346.72
9-16-48	12.2	0.20	12.0		346.02
10-15-48	12.7	0.48	12.22		345.80

See Page 54

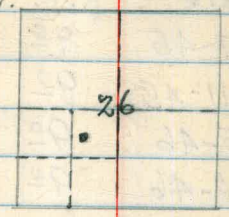
B.M. = 353.29 on SE Cor S. Hdw Con Culvert Bach Creek 200' E. of Tend road.

cont'd Page 54

Test Hole #55-12-1W.26U

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P.	Elev W.S.
9-7-45	7°	0.33	6.67		429.75
12-11-45	7°	0.04	6.96		429.46
*4-23-27			4.03	436.42	432.39
5-6-27			4.06		432.36
5-11-27			4.01		432.41
5-19-27			3.99		432.43
5-27-27			4.01		432.41
6-4-27			4.01		432.41
6-10-27			3.99		432.43
6-21-27			3.94		432.48
6-29-27			4.14		432.28
7-6-27			4.09		432.33
7-13-27			4.21		432.21
7-21-27			4.30		432.12
7-28-27			4.40		432.02
8-5-27			4.52		431.90
8-12-27			4.64		431.78
8-19-27			4.76		431.66
8-26-27			4.87		431.55
10-4-27			5.13		431.29
11-11-27			4.02		432.40
12-8-27			4.13		432.29
12-23-27			3.88		432.54
1-6-28			3.21		433.21
1-19-28			3.51		432.91

Location:- 1850' N x 1700' E of SW Cor.
Near N&S. fence line.



M.P. Top 2" Cap. 1.5 above ground.

Irrigating

* Copied from records of City of San Diego Sta. 55, Drainage of San Pasqual

Location:- 1200' N. of Rockwood house on N&S. fence

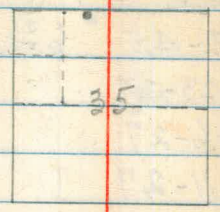
Reference Point: Top of pipe, 1.5 above Ground Elev. 436.42

Cont'd on Page 59.

Date	Hold on R.P.	Wetted tape	Depth	Elev M.P. 430.76	Elev. W.S.
9-7-45	9.0	0.7	8.3		422.46
12-11-45	9.0	0.52	8.48		422.28
3-5-46	9.0	0.95	8.05		422.71
5-16-46	9.0	0.75	8.25		422.51
6-17-46	10	1.11	8.89		421.87
7-18-46	10.0	1.01	8.99		421.77
9-12-46	10.0	0.5	9.50		421.26
10-9-46	10.0	0.49	9.51		421.25
11-13-46	10.0	0.66	9.34		421.42
12-3-46	10.0	1.2	8.8		421.96
12-12-46	10.0	0.88	9.12		421.64
12-23-46	10.0	1.35	8.65		422.11
1-17-47	9.0	0.35	8.65		422.11
2-17-47	9.0	0.68	8.32		422.44
3-14-47	10.0	1.13	8.87		421.89
4-16-47	10.0	0.92	9.08		21.68
5/20/47	10.0	1.25	8.75		22.01
6/17/47	10.0	0.98	9.02		21.74
7/14/47	11.0	0.70	10.3		420.46
8/13/47	12.0	1.87	10.13		20.63
9/16/47	12.0	1.80	10.20		20.56
10/15/47	12.0	1.35	10.65		20.11
11/14/47	12.0	1.33	10.67		420.09
12/17/47	12.0	1.68	10.32		420.44
1/16/48	11.0	0.80	10.2		420.56

Well No 12-1W-35C

Location: - 660' W x 75' ± S of N 1/4 Cor.
Pressure System. 7" G.I. well W/S
Roadway to Rockwood Ranch 80' N
78 Highway.
M.P. = Top Casg 7" Galv. (E/S) 1.2 above ground.



2-18-48	11.0	0.95	10.05		420.71
4-13-48	11.0	1.67	9.33		421.43
5/21-48	11.0	1.5	9.50		421.26
6/14/48	10.0	0.1	9.90		420.86
7/16/48	11	0.7	10.3	P.R. slowly	420.46
8/12-48	12.0	0.75	11.25	P.R "	419.51
9/17-48	12.0	0.40	11.6	P.R. "	419.16
10-18-48	12.5	0.57	11.93	P.R. "	418.83
10-18-48	11.5	1.22	429.22 Hard level 10.28	New well 10' WTCO 27 ab Conc base	419.49
11-19-48	13.0	0.82	12.18	old well	418.58
11-19-48	11	0.40	10.60	New well	419.7
12-16-48	13.0	0.54	12.46	old WALL	418.3
1-18-49	11.7	0.24	11.46	old well	419.30
2-15-49	10.0	0.35	9.65		421.11
3-16-49	10.0	1.16	8.84		421.92
4-14-49	9.0	0.45	8.55		422.21

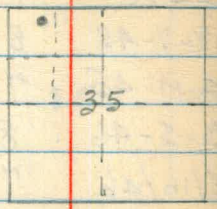
BM USC&G. #A-308-145' W of San Pasqual Store & 24' S of ℄ Hwy #78
Elev 429.24

5-17-49	10.0	0.83	9.17		421.59

See BOOK #2 P46

Test Hole No 59 12-1W-35D

Location: 875' E. x 350' S of N.W. Cor.
On Jack Haley Ranch. 30' NW'ly from center
tree of 3 large willows. 40' N of power line
M.P. = Top 2" Pipe Cap. 1' above ground.



Date	Hold on M.P.	Wetted tape	Depth	Elev M.P.	Elev W.S.
9-7-45	6.0	0.02	5.98		
*4-23-27			6.80	424.48	417.68
5-6-27			6.80		417.68
5-11-27			6.78		417.70
5-19-27			6.79		417.69
5-26-27			6.79		417.69
6-4-27			6.77		417.71
6-10-27			6.80		417.68
6-22-27			6.81		417.67
6-28-27			6.82		417.66
7-6-27			6.82		417.66
7-13-27			6.83		417.65
7-21-27			6.83		417.65
7-28-27			6.86		417.62
8-5-27			6.66		417.82
8-12-27			6.66		417.82
8-19-27			6.69		417.79
8-26-27			6.71		417.77
10-4-27			6.74		417.74
11-11-27			6.57		417.91
12-8-27			6.59		417.89
12-23-27			6.55		417.93
1-6-28			6.49		417.99
1-19-28			6.50		417.98
1-30-28			6.52		417.96

*Copied from Records of City of San Diego
Sta. 59, Drainage of San Pasqual.
Location:- Peet- Near mouth of Guejito Cr.
Description: 2" pipe 19' deep.
Top of pipe 2.5' above ground. El. 424.48

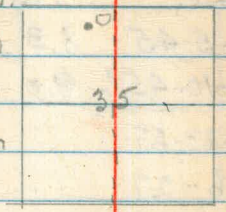
City-1947 levels - 3/14/47 El. 424.38

Continued on page 58

WELL Nº 12-1W-35 C-1
Might be Local #53?

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 427.52	Elev. W.S.
9-7-45	8º	1 04	6 96		420.56
12-11-45	7º	0 4	6 60		20.92
3-5-46	8º	0 53	7 47		20.05
5/16/46	7º	0 63	6 37		21.15
6/18/46	Pump Operating				
7-18-46	"		"		
9/12/46	"		" Shut off p. at 12:09		
10-16-46	8º	0 6	7 4		20.12
11-14-46	8º	0 8	7 2		20.32
12-12-46	7º	0 48	6 52		21.00
12-23-46	7º	0 50	6 50		21.02
1-17-47	7º	0 58	6 42		21 10
2-17-47	7º	0 64	6 36		21.16
3/14/47	7º	0 51	6 49		421.03
4/16/47	18º	7 9	10 1	P.R.	417 42
5-20-47				P.R.	also on 6/17 & 7/18
8-13-47	8 5	0 5	8º	lost #25.00 Glasses	19.52
9-16-47				P.R.	
10-15-47	10º	1 3	8 7	? Pump leaks	18 82
11/14/47	10º	1 2	8 8	"	418.72
12/17/47	No reading			"	

Location:- Abt. 660 W x 550 S. of N¼ Cor.
About 100' S.W. of Adobe House (foremans house)
" 50' N.W. of irrigation well.
Description:- 12 well, pressure system in Galv. Iron pump house. 40' N.W'ly from 24" diam tree.
M.P. T.C. = Top of conc foundation about 1½ above ground.



Jack Haley, owner

Elev. M.P. = 427 52 Ground = 426º

P.R = pump running

Abandoned this well on account of inability to get accurate readings (too wet)

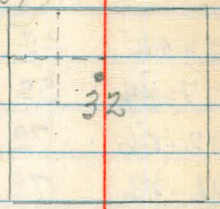
Test Well #17-12-1-32 F

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 364.07	Elev. W.S.
10-5-45	8.3	0.08	8.22		355.85
12-10-45	9.0	0.35	8.65		355.42
*4-23-27			9.3	364.07	354.77
5-6-27			8.26		355.81
5-11-27			7.89		356.18
5-19-27			7.32		356.75
5-26-27			6.74		357.33
6-4-27			6.16		357.91
6-10-27			4.16		359.91
6-23-27			3.55		360.52
6-28-27			3.69		360.38
7-6-27			4.31		359.76
7-13-27			4.19		359.88
7-21-27			4.55		359.52
7-28-27			5.01		359.06
8-5-27			5.28		358.79
8-12-27			5.58		358.49
8-19-27			5.88		358.19
8-26-27			6.16		357.91
8-31-27			6.37		357.70
10-4-27			7.22		356.85
11-11-27			7.34		356.73
11-29-27			6.98		357.09
12-23-27			5.73		358.34
1-6-28			3.94		360.13

Location:- 2630' E. x 1850' S. of N.W. Cor. W/S lane

Description:- 2" Test well

M.P.=Hole in top of 2" cap 2.4 ft above ground.



M. P. Elev = 364.07 Gr. 361.5

* Copied from City of San Diego records. Sta. 17, Drainage of San Pasqual. West side of road So. of Denning's 2" Pipe, 21' Deep. Top of pipe 2½ above ground. Elev. 364.07

Continued on Page 57

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 441.13	Elev WS
5-16-46	4.0	0.3	3.7		437.43
6-17-46	5.0	0.95	4.05		37.08
9-12-46	7.0	0.70	6.30		34.83
10-16-46	7.0	0.42	6.58		34.55
11-14-46	8.0	1.08	6.92		34.21
12-12-46	7.0	1.91	5.09		36.04
12-24-46	5.0	0.34	4.66		36.47
1-17-47	5.0	1.45	3.55		37.58
2-17-47	5.0	1.97	3.03		38.10
3/14/47	5.0	2.27	2.73		438.40
4-16-47	5.0	1.98	3.02		38.11
5-20-47	5.0	0.63	4.37		36.76
6-17-47	18.0	1.45	16.55	Pump Running	24.58
7/14/47	7.0	1.20	5.8		435.33
8/13/47	18.0	5.65	12.35	Pump Running	428.78
9/16/47	18.0	1.2	16.8		24.33
10/15/47	8.5	0.5	8.0		433.13
11/14/47	9.5	1.07	8.43		432.70
12/17/47	9.5	1.43	8.07		433.06
1/16/48	9.5	2.41	7.09		434.04
2/18/48	8.0	1.27	6.73		434.40
4/13/48	8.0	2.33	5.67		435.46
5/21/48	16.0	1.54	14.46	Just started pump	426.67
6/14/48	13.0	1.66	11.34	P. running.	429.79
7/16/48	10.0	2.2	7.8		433.33

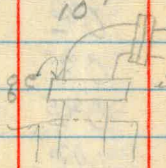
Rockwood Ranch Pumping Plant
12 - 1W - 26 F.

Location: Abt. ~~30~~ 29 75' N. x 425' W. of S. 1/4 Cor. (G.L.O. 1" Pipe)
S. E'ly well of battery. Abt. 190' W. of Rockwood roadway along E'ly border of Guejito Creek Valley and 40' S. of fence and abt. 60' S.E. of 4" gas driven horiz. cent pump. Also abt 600' S. of Lemon Grove.

DESCRIPTION:- Top of 6" flange in 4'x5' wooden pit, 4' deep, 2.4' below ground
M.P.- Top of 6" flange, 1.34' above Top of Casing
Elev M.P. = 441.13

8-12-48	10.0	1.53	8.47		432.66
9-17-48				P.R.	
10-18-48	11.0	1.13	9.87	idle	431.26
11-19-48	11.0	0.9 pump	10'	"	431.03

M.P. El 441.13 Top 6" flange is 1.34 above T.C.
El. 439.79 T.C.



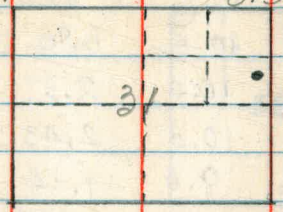
12-16-48				P.R.	
1-18-49	11.0	1.0	10.0		431.13
2-15-49	7.0	1.18	5.82		435.31
3-16-49	4.0	0.4	3.6		437.53
4-14-49	Pump running irrig alfalfa & flowers.				
5-17-49	6.0	2.37	3.63		437.50

see Book #2 Page #47

Well #12-1W.31-H
Local No 14

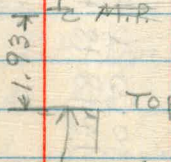
Also Measured by U.S.G.S.

Location: 1780'S x 300'W. of N.E. Cor.



Description: 12" Casing in open unlined pit. Pressure system.

M.P. = Base of 4 "I" beams spanning pit, 1.93 above top of 12" casing. M.P. is about 1' above average ground.



T.C. Elev. M.P. = 357.41 Ground 358.5

Used this to agree with U.S.G.S. measurements HMC.

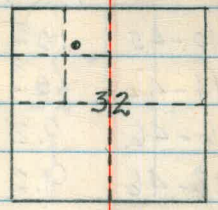
Date	Hold on M.P.	Wetted Tape	Depth to G.W.	Elev M.P. 357.41	Elev W.S.
12-10-45	8.07	1.3	6.77		350.64
5-16-46	7.07	1.37	5.70		351.71
6-19-46	10.0	3.38	6.62		350.79
7-18-46	8.07	0.92	7.15		350.26
9-12-46	9.0	0.80	8.2		349.21
10-18-46	10.0	1.58	8.42		348.99
11/15/46	9.0	1.1	7.9		349.51
12/12/46	9.0	1.68	7.32		350.09
12/23/46	10.0	2.90	7.10		350.31
1/16/47	8.0	1.68	6.32		351.09
2/17/47	7.0	1.11	5.89		351.52
3/17/47	7.0	1.02	5.98		351.43
4/15/47	7.0	1.10	5.90		351.51
5/21/47	T.C. 8.0	1.35	6.65		350.75
6/17/47	T.C. 8.0	0.86	7.14		350.27
7/11/47	T.C. 8.0	0.20	7.80		349.61
8/12/47	9.0	0.45	8.55		348.86
9/15/47	10.0	1.02	8.98		348.43
10/14/47	10.0	0.93	9.07		348.34
11/13/47	10.0	0.76	9.24		348.17
12/16/47	10.0	1.54	8.46		348.95
1/15/48	9.0	0.5	8.5	P.R.	348.91
1/17/48	9.0	1.15	7.85		349.56
2/17/48	9.0	1.55	7.45		349.96
4/14/48	9.0	1.53	7.47		349.94
5/18/49	9.0	1.88	7.12		350.29

5/21/48	9.0	0.67	8.33		349.08
6/15/48	9.5	0.75	8.75		48.66
7/16/48	9.5	0.04	9.46		47.95
8-13-48	11.0	1.00	10.00		47.41
9-17-48	11.5	1.12	10.38		47.03
10-15-48	11.5	0.80	10.70		46.71
11-19-48	11.0	0.75	10.25		47.16
12-17-48	11.0	1.0	10.0		47.41
1-18-49	10.0	0.85	9.15		48.26
2-16-49	8.5	0.16	8.34		49.07
3-16-49	8.0	0.17	7.83		49.58
4-14-49	8.0	1.1	6.9		50.51

see Book #2 Page 15

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 363.08	Elev. W.S.
12-10-45	10.0	0.90	9.10		353.98
2-12-46	10.0	2.37	7.63		355.45
5-16-46	10.0	2.43	7.57		355.51
6-18-46	9.0	1.14	7.86		355.22
*7-19-46	12⁰	1.30	10.70		352.38
9/12/46	12⁰	3.22	8.78	362.68	353.90
10/18/46	10⁰	1⁰	9⁰		353.68
11/15/46	10⁰	1.08	8.92		353.76
12/11/46	10⁰	1⁰⁰	9⁰⁰		353.68
12/23/46	10⁰	1⁰⁰	9⁰⁰		353.68
1/16/47	9⁰	0.16	8.84		353.84
2/17/47	9⁰	0.40	8.60		354.08
3/17/47	9⁰	0.20	8.8		353.88
4/15/47	9⁰	0.80	8.2		354.48
5/21/47	9⁰	0.58	8.42		354.26
6/17/47	9⁰	0.40	8.60		354.08
7/14/47	10⁰	1.30	8.70		353.98
8/13/47	10	0.63	9.37		353.31
9/16/47	10⁰	0.30	9.70		352.98
10/13/47	12⁰	2.26	9.74		352.94
11/4/47	10	0.25	9.75		352.93
11/14/47	11	1.33	9.67		353.01
12/16/47	10.5	0.96	9.54		353.14
1-15-48	10⁰	0⁰	9.80		352.88
2-17-48	10.5	0.32	10.18		352.50

Location - 1270'S. x 3220'W. of NE Cor. 25'E x 15'N of fences.



Description:- 7" oil well casing. (New well)

M.P. = Top of casing, 1.75' above ground.

<M.P.= Hole in N/S casing 0.4 below top.

Note:— Pumping plant will probably be installed later. New house being const'd 250' E x 75' N. P.P. (pressure system installed prior to 2-12-46. Well 90' deep struck bedrock 47 tons gravel surround casing.

* Pressure system running.

Owner:- H. C. Ballard
C. O. Scrivner

Meter #5 162418 on tin plate
G.E. #22 700170
Johnson turbine 3HP G.E. Motor.
Irrigation by sprinkler system
Mat. Static head above ground at pump about 25'

Elev. M.P. hole N/S casing = 362.68
" Ground Elev 361.8

→ Cont'd page 77

TEST WELL 12-1 W-32 G
Local #25

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 369.45	Elev. G.W.
12-10-45	10.0	0.90	9.1		360.35
3-14-46	10.0	0.87	9.13		360.32
5-16-46	9.2	0.32	8.88		360.57
6-18-46	9.2	0.35	8.85		360.60
7-18-46	9.5	0.58	8.92		360.53
9-12-46	10.0	0.72	9.28		360.17
10/18/46	10.0	0.45	9.55		359.90
11/14/46	10.0	0.45	9.55		359.90
12/11/46	10.5	0.55	9.95		359.50
12/23/46	10.5	0.48	10.02		359.43
1/20/47	10.8	0.70	10.1		359.35
2/17/47	10.8	0.65	10.15		359.30
3/17/47	10.8	0.65	10.15		359.30
4/16/47	10.8	0.70	10.1		359.35
5/21/47	10.8	0.80	10.0		359.45
6/17/47	10.8	0.80	10.0		359.45
7/14/47	11.0	1.0	10.0		359.45
8/13/47	11.0	0.9	10.1		359.35
9/16/47	11.0	0.82	10.18		359.27
10/15/47	0.57	10.43			359.02
11/14/47	11.0	dry	also 12/17 1/15/48 2/17/48		
3-15-48	12.0	0.95	11.05		358.40
4-13-48	12.0	0.49	11.51		357.94
5-21-48	12.0	0.4	11.60		357.85
6-14-48	12.5	0.74	11.76		357.69

Location: - 1325' S x 1570' W. of NE Cor. S/S oiled Rd.

Description: - 2" Test well

M.P. = Top of 2" Cap

About 2.0' above ground.

M.P. Elev. 369.45 Gr. 366.7

7/16/48	13.0	1.1	11.90		357.55
8-13-48	13.0	0.55	12.45		357.00
9-16-48	13.0	0.47	12.53		356.92
10-15-48	Wet sloppy black mud at 12.5				Could not remove mud with auger.

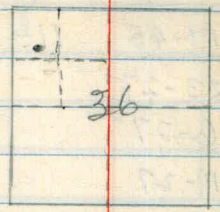
S/S Rd. 600' E. of Co. Yds

2" test well M.P. top cap

WELL No 12-1W-36D

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 448.41	Elev. W.S.
12-11-45	20	3.3	* 16.7		431.71
3-5-46	10	1.3	8.7		439.71
2-8-45		Schumacher	8.68		439.73
5-22-45		Corrected	8.51		439.90
8-9-45	Pumping	difference			
8-14-45		from	14.12		434.29
10-16-45	"	M.P.			
1-7-46			9.16		439.25
5-17-46	flooded around well from upper plant.				
6-18-46	16°	4.7	11.3		437.11
7-18-46	14°	0 2	13.8		434.61
9-12-46	18°	1°	17°		431.41
10-16-46	20°	1 83	18 17		430.24
11-14-46	20°	1 27	18 73		429.68
12-3-46	14°	3 43	10 57		437.84
12-12-46	12°	2 33	9 67		438.74
12-23-46	11°	1 41	9 59		438 82
1-17-47	10°	1 08	8 92	water around casing	439.49
2-17-47	10°	1 20	8 80	After this date about 1' to T.C.	439.61
3-13-47	10°	1 08	8 92	1' Perforated wire cage installed	439.49
4-16-47	10°	1 15	8 85		439.56
5-20-47	15°	3 37	11 63		436.78
6-18-47	Pump Running	Hose removed			
	Water around casing in pit.				
7-14-47	17°	0 9	16 1		432.31
8-13-47	Pump Running	Water around casing and running back in casing			

Location: 1030' S x 740' E. of N.W. Cor.



Owner - Jergensen

Description, 16" Casing. 53' deep 10" turbine pump. in wooden pump house, Pump discharges NE'ly into 30" Concrete standpipe

M.P. Top of about 30# Rails supporting Pump 0 67 above Top of 16" casing. M.P. is about 1 ft. above ground.

Meter # 28780

*Pump operated yesterday.

Elev. M.P. = 448 41 Elev. Gr. 448 -

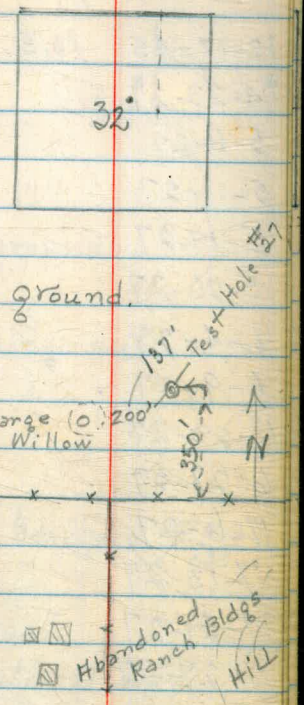
No water in river yet

Small flow in river

5/20/48	14°	1 02	12.98	435 43	6/15/48 P. Running 7/15/48 " "
9/16/47	20°	0 5	19 5	428.91	
10/15/47	22°	1 55	20 45	427.96	
11/14/47	Pump running				
12-2-47	22°	0 58	21.42	426.99	
12/17/47	23°	1 60	21.40	427.01	
1/16/48	23°	1 02	21 98	426 43	
2/18/48	23°	1 28	21 72	426.69	
3-12-48	23°	2 60	20 4	428.01	
4-13-48	20°	9 32	10 68	437 73	

Test Well #27
12-1W-32 G2

Location: 2300'S x 1830'W of NE Cor. In field, 350'N of S. fence and 137'E of fence running S. from S. fence. Large cottonwood about 200' S.W.



M.P. Top of 2" Pipe cap 1.8 above ground.

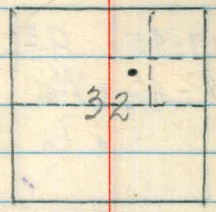
Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P.	Elev W.S.
12-17-45	11.0	1.09	9.91	367.22	
*4-23-27			4.19		363.03
5-6-27			4.20		363.02
5-11-27			4.17		363.05
5-19-27			4.19		363.03
5-26-27			4.22		363.00
6-4-27			4.36		362.86
6-9-27			4.26		362.96
6-23-27			3.93		363.29
6-28-27			4.13		363.09
7-6-27			4.28		362.94
7-13-27			4.35		362.87
7-21-27			4.39		362.83
7-28-27			4.55		362.67
8-5-27			4.70		362.52
8-12-27			5.10		362.12
8-19-27			5.55		361.67
8-26-27			5.95		361.27
10-4-27			7.43		359.79
11-11-27			6.08		361.14
12-8-27			4.89		362.33
12-23-27			4.61		362.61
1-6-28			4.29		362.93
1-19-28			4.10		363.12
1-30-28			4.13		363.09

* Copied from City of San Diego Records. F.E.G.
Sta. 27, Drainage of San Pasqual.
Location:- So. of 26 on S/S of Wash
Description:- 2" Pipe - 17' Deep.
Ref. Point:- Top of pipe, 1.7 above ground
Elev. 367.22

Continued on Page 55

Test Well #26
Well #12-1W-32 G1

Location - 1830'S 1700'W of NE Cor.



M.P. = Top of 2" Cap., 1.6 above ground

Note: 12/17/45 - Hole needs cleaning out

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P.	Elev. W.S.
12-17-45	10.5	0	Moist 10.5	368.07	
*4-23-27			5.03		363.04
5-6-27			5.06		363.01
5-11-27			5.04		363.03
5-19-27			5.10		362.97
5-26-27			5.13		362.94
6-4-27			5.21		362.86
6-9-27			5.26		362.81
6-23-27			4.74		363.33
6-28-27			4.56		363.51
7-6-27			4.76		363.31
7-13-27			4.76		363.31
7-21-27			4.91		363.16
7-28-27			5.08		362.99
8-5-27			5.09		362.98
8-12-27			5.34		362.73
8-19-27			5.63		362.44
8-26-27			5.94		362.13
10-4-27			7.43		360.64
11-11-27			7.85		360.22
12-8-27			6.88		361.19
12-23-27			6.20		361.87
1-6-28			5.82		362.25
1-19-28			4.87		363.20
1-30-28			4.79		363.28

*Copied from records of City of San Diego F.E.G. obs.

Described as follows.

Sta. 26, Drainage of San Pasqual

Location: In alfalfa field South of 25

Description: - 2" pipe 21 ft. deep.

Ref. Pt. - Top of pipe 1.5 ab ground

Elev. 368.07

Continued on page 56.

(Test Well #21) 12-1W-32U.

Location: 3700'S x 2700'W. of NE Cor.
90' N. of fence 40'W of 12" willow
M.P. = Top 2" Cap. 1.7 ab ground

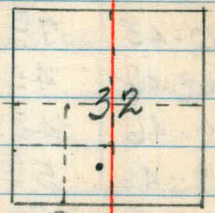
Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P.	Elev W.S.
12-17-45	9.0	1.1	7.9		
6-18-46	Well destroyed Grain in shocks in this field.				
Sunny "G" Ranch continued from Pg 4				391.81	
7/16/48	8.0	0.07	7.93		383.88
8/12/48	9.0	0.51	8.49		383.32
9/17/48	9.5	0.25	9.25		382.56
10/15/48	10.0	0.98	9.02		382.79
11/19/48	9.5	0.51	8.99		382.82
12/16/48	10.0	1.1	8.90		382.91
1/17/49	9.0	0.77	8.23		383.58
2/15/49	5.0	1.20	3.80		388.01
3/16/49	4.0	0.35	3.65		388.16
4/14/49	4.0	0.75	3.25		388.56
5/18/49	3.5	0.15	3.35		388.46

See Page 51 Book #2

(Test Well #22) #12-1W-32 X

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 365.90	Elev. W.S.
12-17-45	7.0	0.43	6.57		359.33
6-19-46	6.2	0.77	5.43		60.47
7-19-46	7.5	0.66	6.89		59.01
9-13-46	9.1	0.78	8.32		57.58
10-7-46	9.0	0.40	8.60		57.30
11-18-46	10.0	1.25	8.75		57.15
12-11-46	8.0	0.20	7.3		58.60
12-23-46	8.0	0.52	7.48		58.42
1-20-47	5.0	1.05	* 3.95		61.95
2-18-47	5.05	1.26	* 3.79		62.11
3-17-47	5.0	1.35	* 3.65		62.25
4-16-47	6.0	2.09	3.91		61.99
5-21-47	7.5	0.92	6.58		59.32
6-17-47	8.0	0.95	7.05		58.85
7-14-47	8.5	0.70	7.8		58.10
8-12-47	9.0	0.58	8.42		57.48
9-15-47	9.5	0.65	8.85		57.05
10-14-47	10.0	0.62	9.38		56.52
11-13-47	10.0	0.82	9.18		356.72
12-16-47	10.0	1.02	8.98		356.92
1-15-48	10.0	1.23	8.77		357.13
2-17-48	9.5	0.88	8.62		57.28
4-14-48	9.0	0.69	8.31		57.59
5-21-48	9.0	0.50	8.50		57.40
6-15-48	10.0	1.25	8.75		57.15

Location: -4215 ft. S x 2710 ft. E W of NE Cor.



M.P. Top of 2" Cap 1 ft above Gr. Test well leans toward East.

About 200' N of river channel

Small flow in river 200' S.

Elev. M.P. = 365.90 Elev. Gr. 364.5

7-16-48	10.0	0.85	9.15	356.75
8-13-48	10.5	0.96	9.54	56.36
9-17-48	10.5	0.58	9.92	55.98
10-15-48	10.7	0.55	10.15	55.75
11-19-48	10.3	0.6	10.20	55.70
12-17-48	10.8	0.75	10.05	55.85
1-18-49	10.5	0.75	9.75	356.15
2-16-49	6.0	0.94 for 20	5.06	360.84
3-21-49	4.0	0.43 for 10	3.57	362.33
4-14-49	4.0	0.45 for 3	3.55	362.35
5-18-49	6.0	0.94	5.06	360.84

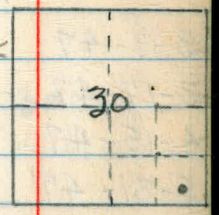
Set B.M. - Spike in W/S 12" Cottonwood tree 30's W Well 22

Elev. = 366.95

see Book 2 Page 19

(Test Well No. 2)
Well 12-1W-30Z

Location:- 525' N x 560 W of S.E. Cor. About 60' E. of Bach Creek and 16' N of fence 50' E of low forked willow at E toe of Ditch Bank Bach Creek Channel.



M.P. Top of 2" Cap about 1 above ground. *357.57 taken from old F.E. Green records for City of San Diego.
357.47 for 1947 levels.

Owner Owen Parrish

Elev. M.P. = 357.47 Ground 356.3

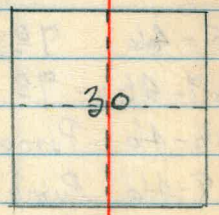
Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. * 357.47	Elev. W.S.
12-10-45	7.0	0.95	6.05		351.42
5-16-46	4.0	1.67	2.33		355.14
6-19-46	4.5	0.72	3.78		353.69
7-18-46	5.50	0.67	4.83		352.64
9-13-46	8.0	1.0	7.0		350.47
10-18-46	8.0	0.48	7.52		349.95
11-15-46	7.8	0.45	7.35		350.12
12-11-46	7.1	0.62	7.08		350.39
12-23-46	7.1	0.56	7.14		350.33
1-16-47	7.1	0.98	6.72		350.75
2-17-47	8.0	2.1	5.90		351.57
3-17-47	7.0	1.28	5.72		351.75
4-15-47	7.0	2.14	4.86		352.61
5-21-47	6.0	0.9	5.1		352.37
6-17-47	6.0	0.47	5.53		351.94
7-14-47	7.0	0.83	6.17		351.30
8-12-47	8.0	0.62	7.38		350.09
9-15-47	7.5	dry			
10-15-47		"	also 11-11-47, 12-16-47		
2-18-48	7.9	0.35	moist mud		
3-16-48	8.0	0.45	7.55		349.92
4-14-48	8.0	0.70	7.3		350.17
5-21-48	9.0	1.56	7.44		350.03
6-15-48	9.0	1.48	7.52		349.95
7-15-48	8.0	0.47	7.53		349.94
8-13-48	9.0	0.90	8.10		349.37
9-17-48	9.0	0.36	8.64		348.83
1-18-49 dry	9.0	0.7	8.3		349.17
2-15-49	8.5	0.57	7.93		349.54
3-21-49	8.0	0.5	7.50		349.97
4-14-49	8.0	1.0	7.00		350.47
5-18-49	9.0	1.23	7.77		349.70

(CONT'D BOOK #2 - PAGE 11.)

Test Well No 3

WELL No. 12-1W, 30Z1

Location: 525' N. x 280' W of S. E. Cor. SEE ADDITIONAL INFO. ON PAGE 65.



M.P. Top of 2" cap.

~~Hole in cap needs enlarging~~

Elev. M. P. = 358 70 Ground 356 4

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 358.70	Elev. W.S.
3-3-47	8.0	0 58	7 42		351.28
3-17-47	8.0	0 70	7 30		351 40
4-15-47	8.0	0 81	7 19		351 51
5-21-47	8.0	0 75	7 25		351 35
6-17-47	8.1	0 64	7 46		351 24
7-14-47	9.0	0 57	8 43		350 27
8-12-47	10.0	1 23	8 77		349 93
9-15-47	96	mud 1	Also 10/13 11/11 & 12/16/47		
3-16-48	10.0	0 5	9 5		
4-14-48	10.0	0 75	9 25		
5-21-48	11	1 55	9 45		
6-15-48	9 7	0 6	9 10	acts like it is plugged	

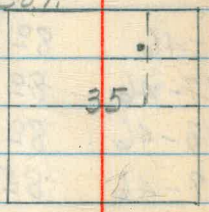
12-1W-35B

				437.28	
3-5-46	7.0	1.1	5.9		431.38
5-17-46	7.0	1.2	5.8		431.48
6-18-46	Pump running - Broke tape Gage indicates 50'(?)				
7-19-46	Pump running	Est. discharge 500 GPM ±			
9-12-46	"	"			
11-15 3-13-47	13.0	6.45	6.55		430.73
4-16-47	13.0	6.87	6.13		431.15
5-20-47	16.0	5.3	10.7		426.58
6-17-47			R'ng		
7-14-47			"		
8-13-47	14	2.5	11.5		425.78
9-16-47	14	1.47	12.53		424.75
10-15-47	15	1.70	13.30		423.98
11-14-47	15.0	1.32	13.68		423.60
12-17-47	15.0	1.04	13.96		423.32
1-16-48	16.0	1.75	14.25		423.03
2-18-48	16.0	1.53	14.47		422.81
4-13-48	16.0	4.50	11.5		425.78
5/20/48	P. running. Casg has been raised about 3.5 ft.				
5/21/48	13.0	0.92.6	12.08	New T.C. 440.11	428.03
6-15-48	Pump Running				
7-15-48	15.0	0.94	14.06		426.05
8-12-48	18.0	2.72	15.28		424.83
9-17-48				P.R.	
10-18-48	19.0	1.70	17.3		422.81

Owner: Stanley Trussel (probably should be west w.s.)

Location: 1280' S x 1330' E of NE Cor.

About 50' W. of Cor. Iron barn and 6' W of partition fence line and 400' N of Highway #78.



Description: - 6" turbine pump 2"x6" tower about 25' high. 14" O.D. Well casing. Pump mounted on 6"x8" timbers. 15 HP U.S. Vert. D.C. motor 220/440 V. Type C.F.U. R.P.M - 1000 @ 50 cy or 1200 @ 60 cy 3 ph., 40/20 Amps, 40°C, Serial #494771

M.P. = Top of 14" casing at gr.

Elev M.P. = 437.28

" Gr 437.0 ✓

Set B.M. Elev. 440.93 = N.W. Cor Conc. Disch. Box 10' N. of well.

*11-18-48	14.0	0.60	13.64	Estar 436.1± New T.C. 0.4 above gr.	424.2
12-16-48	17.0	0.98	16.02		421.58
1-17-49	17.0	1.37	15.63		421.97
2-16-49	12.0	2.27	9.73		427.87
3-16-49	8.5	0.80	7.70		429.90
4-14-49	8.5	2.13	6.37		431.23
well has been sand pumped tailings shows coarse sand & fine gravel					
5-17-49	10.0	3.1	6.9		430.70

Levels 2/9/49 - apply from 11-18-48

T.C. 437.6 - Set BM Spike in P. Pole 25' So El. 438.72

*Changes in well Disch. Box gone

See Book #2 P-43

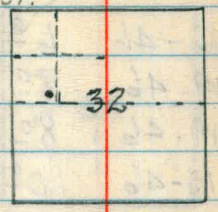
Test Well #50 (125-1W-35H-I).
(See Page 3.)

Location:- 1/4 mile E. x 310' N. of Ctr.
Near fence w/s of lane. 75' N of 12-1 35H page 3.
Description:- 2" Pipe
M.P. Top of 2" Cap. 0.9 above ground
Elev M.P. = 1949 437.65
Elev. Gr. = 435.1

	Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 437.~~65~~	Elev W.S.
1	3-5-46	8.0	0.13	7.87		429.78
	5-17-46	8.0	1.1	6.9		430.75
	6-18-46	8.0	0.95	7.05		430.6
	7-18-46	8.5	0.68	7.82		429.83
	9-12-46	9.0	0.46	8.54		429.11
	10/16/46	10.0	0.6	9.4		428.25
	11/14/46	10.0	0.55	9.45		428.20
	12/12/46	10.0	0.5	9.5		428.15
	12-23-46	10.0	0.52	9.48		428.17
	1-17-47	10.0	0.97	9.03		428.62
	2-17-47	10.0	1.17	8.83		428.82
	3-13-47	9.0	0.86	8.14		429.51
	4-16-47	9.0	1.59	7.41		430.24
	5-20-47	9.0	1.28	7.72		429.93
	6-18-47	10	1.35	8.65		429.00
	7-14-47	10	0.66	9.34		428.31
	8-13-47	Dry at ———		10.0		—
	9-16-47	"				—
	10-15-47	"				—

TEST WELL #9 (12-1W-32E)

Location:- 930'E x 2600'S of N.W. Cor.
About 90'N of 24" Sycamore near angle in old abandoned ditch.
Description:- 2" Pipe
M.P. Top of 2" Cap. About 2.5' above ground. Elev. 360.53 from old F.E. Green records for City of San Diego.



Date	Hold on M.P.	Wetted Tape	Depth	Elev MP 360.53 *	Elev W.S.
5-16-46	7.0	0.96	6.04		354.49
6-19-46	8.0	0.98	7.02		353.51
7-19-46	8.0	0.58	7.42		353.11
9-13-46	9.0	0.75	8.25		352.28
10-18-46	10.0	1.17	8.83		351.70
11-18-46	9.5	0.70	8.80		351.73
12-11-46	9.0	0.51	8.49		352.04
12-23-46	9.0	0.49	8.51		352.02
1-20-47	8.0	0.57	7.43		353.10
2-18-47	8.0	1.17	6.83		353.70
3-17-47	8.0	1.75	6.25		354.28
4-16-47	8.0	1.90	6.1		354.43
5-21-47	8.0	1.25	6.75		353.78
6-17-47	8.0	0.77	7.23		353.30
7-14-47	9.0	1.20	7.80		352.73
8-12-47	9.0	0.53	8.47		352.06
9-15-47	9.5	0.45	9.05		351.48
10-14-47	10.0	0.55	9.45		351.08
11-13-47	10.2	0.63	9.57		350.96
12-16-47	10.0	0.63	9.37		351.16
1-15-48	10.0	0.88	9.12		351.41
2-17-48	9.75	0.92	8.83		351.70
4-14-48	9.0	0.5	8.50		352.03
5-21-48	9.5	0.77	8.73		351.80
6-15-48	10.0	0.97	9.03		351.50
7-16-48	10.0	0.52	9.48		351.05
8-13-48	11.0	1.17	9.83		350.70
9-17-48	11.0	0.76	10.24		350.29
10-15-48	11.0	0.50	10.50		350.03
11-19-48	12	1.3	10.70		349.83
12-17-48	12.0	1.5	10.50		350.03
1-18-49	11.0	0.5	10.50		350.03
2-16-49	11.0	1.12	9.88		350.65
3-21-49	9.0	1.02	7.98		352.55
4-14-49	9.0	1.57	7.43		353.10
5-18-49	8.0	0.83	7.17		353.36

See Book #2 Page 16

Test well #10 (12-1W-32 V)

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 360.15	Elev W.S. from old F.E.Green records
5-16-46	6.0	0.28	5.72		354.43
6-19-46	8.0	1.04	6.96	361.05. See Equation below 4/16/47	354.09
7-19-46	8.0	0.5	7.5		353.55
9-13-46	10.0	1.2	8.8		352.25
10-18-46	10.0	1.07	8.93		352.12
11-8-46	9.5	0.70	8.80		352.25
12-11-46	8.5	0.75	7.75		353.30
12-23-46	8.0	0.53	7.47		353.58
1-20-47	8.0	1.86	6.14		354.91
2-18-47	7.0	1.28	5.72		355.33
3-17-47	7.0	2.21	4.79	360.17	355.38
4-16-47	7.0	2.05	4.95	360.17	355.22
4-16-47 old well	7.0	1.15	5.85	361.05	355.20
5-21-47	7.0	1.03	5.97	360.17	354.20
6-17-47	7.0	0.5	6.50		353.67
7-14-47	8.50	1.17	7.33		352.84
8-12-47	9.0	0.95	8.05		352.12
9-15-47	9.0	0.47	8.53		351.64
10-14-47	9.5	0.86	8.64		351.53
11-13-47	9.5	0.80	8.70		351.47
12-16-47	9.0	0.80	8.20		351.97
1-15-48	9.0	1.12	7.88		352.29
2-17-48	8.5	0.86	7.64		352.53
4-14-48	8.5	1.18	7.32		352.85
5-21-48	8.0	0.25	7.25		352.92

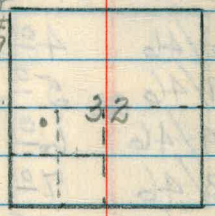
Location:- 925' E x 3090 S. of N.W. Cor

In pasture about 500' So. of Test Well #9

Description: 2" Pipe capped 3/8" hole in cap.

Pipe is bent S.W.

M.P. Top of 2" cap.



6-15-48	9.0	0.82	8.18		351.99
7-16-48	9.5	0.8	8.70		351.47
8-13-48	10.0	0.82	9.18		350.99
9-17-48	10.5	0.88	9.62		350.55
10-15-48	10.5	0.68	9.82		350.35
11-19-48	11.0	1.15	9.85	Top bent SW	350.32
12-17-48	11.0	1.33	9.67	1.1 above ground	350.50

6/19/46 Hit pipe with car (accidently) and knocked top N/W. Elev. of top about the same

1-18-49	9.0	0.8	8.2	351.97
2-16-49	8.0	0.63	7.37	352.80

* M.P. on new 3/4" pipe test well about 0.55 lower than old. 18' of 3/4" pipe capped 3/8" hole in cap.

3-21-49	6.0	0.74	5.26	354.91
4-14-49	6.0	0.9	5.10	355.07
5-18-49	7.0	1.45	5.55	354.62

see BK #2 P 17

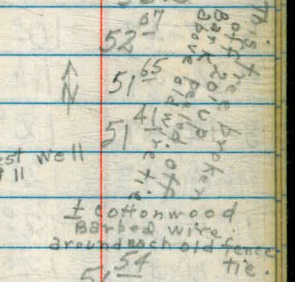
Test Well #11 (12-1W.32 V1)

Date	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 360.67 / 360.15	Elev. W.S.
				old F.E.G. levels	
5/16/46	4.0	0.78	3.22		356.85
6/19/46	5.0	0.55	4.45		355.62
7/19/46	6.0	0.91	5.09		354.98
9/13/46	7.0	0.62	6.38		353.69
10/18/46	7.5	0.58	6.92		353.15
11/18/46	7.5	0.78	6.72		353.35
12/11/46	6.0	0.90	5.1		354.97
12/23/46	6.0	0.78	5.22		354.85
1/20/47	4.0	0.51	*3.49		356.58
2/18/47	4.0	1.15	*2.85		357.22
3/17/47	4.0	1.04	2.96		357.11
4/16/47	4.0	0.90	3.1		356.97
5/21/47	6.0	1.39	4.61		355.46
6/17/47	6.0	0.73	5.27		354.80
7/14/47	7.0	0.67	6.33		353.74
8/12/47	7.50	0.78	6.72		353.35
9/15/47	8.0	0.68	7.32		352.75
10/14/47	8.0	0.43	7.57		352.50
11/13/47	8.2	0.42	7.78		352.29
12/16/47	8.0	0.85	7.15		352.92
1-15-48	8.0	1.21	6.79		353.28
2-17-48	7.5	1.01	6.49		353.58
4-14-48	7.0	1.04	5.96		354.11
5-21-48	7.0	0.57	6.43		353.64
6-15-48	8.0	1.1	6.90		353.17

Location: 900' E x 3825' S of N.W. Cor.
In pasture near edge of timber growth bordering San Diequito River about 725' S. of Test well #10
11 ft W. and 5' N. of 2 Cottonwoods with barbed wire around each. Probably on old fence line. S/S cattle trail along river.

Description: 2" capped pipe, 1.2' above ground.
M.P. = 3/8" hole in 2" cap.
M.P. Elev. = 360.67 → 1947 levels by City of S.D.

7-16-48	8.0	0.5	7.50	352.57
8-13-48	8.5	0.5	8.0	52.67
9-17-48	9.0	0.58	8.42	51.65
10-15-48	9.20	0.54	8.66	51.41
11-19-48	9.20	0.47	8.73	
*Small flow in River				
12-17-48	9.2	0.67	8.53	51.54
1-18-49	9.0	0.78	8.22	351.85
2-16-49	4.0	0.67	3.33	356.74
3-21-49	4.0	1.35	2.65	357.42
4-14-49	3.5	0.78	2.72	357.35
5-18-49	5.0	1.81	3.19	356.88



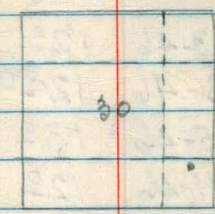
B.M. Spike in W/S of 16" diam cottonwood, 12' E of obs well. Elev = 362.27

see book 2 page 18

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 361.00	Elev W.S.
	New	well			
9-13-46	11.0	0.75	10.25		350.75
10-16-46	12.0	1.27	10.73		350.27
11-15-46	11.0	0.70	10.30		350.~~75~~ 70
12-11-46	10.5	0.30	10.2		350.80
12-23-46	11.0	1.65	9.35		351.65
1-16-47	10.0	0.77	9.23		351.77
2-17-47	9.0	0.55	8.45		352.55
3-17-47	8.2	0.19	8.01		352.99
4-15-47	9.0	1.63	7.37		353.63
5-21-47	9.0	0.60	8.40		352.60
6-17-47	10.0	1.09	8.91		352.09
7-14-47	11.0	1.19	9.81		351.19
8-12-47	12.0	1.12	10.88		350.12
9-15-47	12.0	0.47	11.53		349.47
10-15-47	12.0	0.27	11.73		349.27
11-11-47	13.0	1.38	11.62		349.38
12-16-47	13.0	2.20	10.80		350.20
1-15-48	11.0	1.40	9.6		351.40
2-18-48	11.0	1.08	9.92		351.08
3-16-48	11.0	1.28	9.72		351.28
4-14-48	10.5	1.1	9.40		351.60
5-21-48	11.0	0.75	10.25	361.07	350.82
6-15-48	13.0	1.04	11.96		349.11
7-15-48	26.0	2.40	23.6	P. Run.	337.47
10-18-48	16.0	1.05	14.95		346.12

Well #12-1W-30-Z2

Location:- Abt. 1020' N. x 500' W of S.E. Cor.
Abt 75' E. of Bach Creek and 500' N. of Test Well #2 and So. of Hwy #78 about 500'.



Description:- 12" diam oil well casing - gravel envelope. - Pressure system. Lifts water to top of hill - west. 65#'s Pressure = 150' head.
M.P. = Top of casing, 2' above ground.
Elev. M.P. = 361.00 Ground 358.8
361.07

Owner:~ Parris.

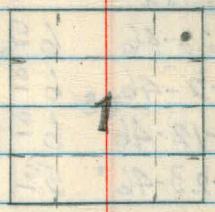
11-19-48	15.0	1.6	13.4	347.67
12-16-48	14.5	0.85	13.65	347.42
1-18-49	13.4	1.37	12.03	349.04
2-15-49	13.0	2.27	10.73	350.34
3-21-49	10.0	0.5	9.50	351.57
4-14-49	10.0	0.62	9.38	351.69
5-18-49	11.0	0.85	10.15	350.92

(see Book #2 page 13)

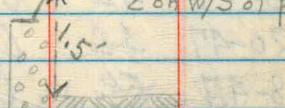
* Peerless GE 5 HP Motor
New turbine p. inst top of casg. M.P. may be slightly altered
*El. T.C. 360.94
El. Hole in pump base 361.07 } 6 Toress Levels run 2/9/49
Set. BM. Spike in P. Pole - 25' NW of well El 358.59 - Beaty Rodgers and Bob City Surveyor

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 346.49	Elev W.S.
9-13-46	12.0	0.5	11.5		334.99
10-8-46	12.50	0.52	11.48		335.01
11-15-46	13.0	1.43	11.57		334.92
12-11-46	12.0	0.99	11.01		335.48
12-24-46	11.0	0.86	10.14		336.35
1-16-47	9.0	0.67	8.33		338.16
2-17-47	9.0	1.08	7.92		338.57
3-17-47	12.0	0.48	*11.52		334.97
4-18-47	9.0	1.09	7.91		338.58
5-21-47	9.0	0.18	8.82		337.67
6-17-47	10.0	0.20	9.80		336.69
7-14-47	11.0	0.25	10.75		335.74
8-13-47	13.0	0.89	12.12		334.37
9-15-47	14.0	1.55	12.45		334.04
10-14-47	14.0	1.26	12.74		333.75
11-14-47	14.0	1.12	12.88		333.61
12-17-47	13.0	0.79	12.21	P.R	334.28
1-16-48	12.0	0.88	11.12		335.37
2-18-48	12.0	0.13	11.87		334.62
3-15-48	12.0	0.23	11.77		334.72
4-13-48	12.0	0.39	11.61		334.88
5-20-48	14.0	1.76	12.24		334.25
6-15-48	13.0	0.3	12.70		333.79
7-15-48	14.0	0.65	13.35		333.14
8-13-48	14.0	0.30	13.70		332.79

Location: Abt. 660'S x 480' W. of NE Cor.
W/S row of cedars. About 125' S.W. of Adobe Barn.



Description:- Dug well. 36" concrete pipe casing. Windmill and small gas engine - stock well.
M.P. = Top of concrete pipe casing 1.5 ab gr.



Elev M.P = 346.49
Ground = 344.7

9-17-48	18.0	0.45	17.55	P.R.*	328.94
10-15-48	15.0	0.64	14.36		332.13
11-19-48	15.0	0.88	14.12		332.37
12-17-48	15.0	1.05	13.95		332.54
1-18-49	14.0	0.93	13.07		333.42
2-21-49	12.5	0.40	12.10		334.39
3-16-49	9.0	0.13	8.87		337.62
4-14-49	9.0	0.50	8.50		337.99
5-17-49	9.0	0.33	8.67		337.82
6-7-49	9.5	0.56	8.94		337.55

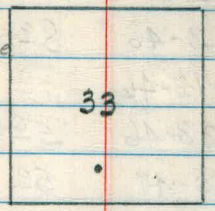
(See BOOK #2 Page 4)

*In 20 min of pumping
16.05, 16.35, 16.53 16.67, 16.8 17.0 17.16 17.38 17.55

3/4" Test Well #12-1-W-33x

Date installed	Hold on M.P.	Wetted Tape	Depth	Elev. MP 383 24	Elev W.S.
11-22-46	6.0	0 98	5 02		378 22
12-2-46	6.0	1 42	4 58		378.66
12-12-46	6.0	1 45	4 55		378 69
12-23-46	5.0	1 16	* 3 84		379 40
1-20-47	5.0	1 65	3 35		379.89
2-17-47	4.0	0 84	3 16		380.08
3-13-47	4.0	0 91	3 09		380.15
4-16-47	4.0	0 75	3 25		379.99
5-20-47	4.0	0 46	3 54		379.70
6-18-47	5.0	0 90	4 10		379 14
7-15-47	6.0	1 42	4 58		378.66
8-12-47	6.0	0 87	5 13		378 11
9-15-47	6.5	0 91	5 59		377.65
10-13-47	6.5	0 90	5 60		377 64
11-14-47	6.5	0 63	5 87		377 37
12-5-47	7.0	1 18	5 82		377.42
12-17-47	6.5	0 91	5 59		377.65
1-15-48	6.5	0 73	5 77		377.47
2-18-48	6.5	0 93	5 57		377.67
4-13-48	6.0	0 80	5 20		378 04
5-21-48	6.2	0 38	5 82		377.42
6-15-48	6.5	0 58	5 92		377 32
7-15-48	7.0	0 83	6 17		377.07
8-12-48	7.0	0 54	6 46		376 78
9-16-48	7.2	0 4	6 80		376 44

Location: 2660 E x 960'N, S.W. Cor. W/S Battle Mon. Lane across Valley. Inside barbed wire fence, S of S. River channel About 1000'S of #78 highway 6'S. Cotton wood



Description: - 3/4" pipe, capped. Cap drilled with 3/8" hole. Pipe 18' long. Top 0.8 above ground. M.P. Top of 3/4" Cap.

Elev. M.P. 383 24 Elev. Gr 382 6

*Small flow in River Channel about 400'N.

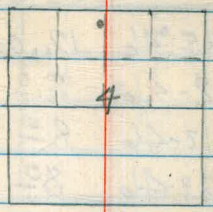
T.W.	W/S lane	S/S River		
10-15-48	7.7	-0 75	6 95	376.29
11-19-48	7 5	-0 64	6 86	376.38
12-16-48	7 5	-0 58	6 92	376.32
1-17-49	7.0	-0 72	6 28	376.96
2-21-49	5.0	1 09	3 91	379.33
3-16-49	4 5	1 08	3 42	379.82
4-14-49	5.0	1 55	3 45	379.79
5-18-49	4.0	1 18	2 82	380 42

See book #2 P 28

3/4" Test Well # 13-1-W-4C

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 382 10	Elev W.S.
12-2-46	8.0	3.93	4.07	P.R.	378.03
12-12-46	7.0	2.93	4.07		378.03
12-23-46	5.0	0 98	4 02		378.08
1-20-47	5.0	1 19	3 81		379.29
2-17-47	5.0	1 47	3 53		378.57
3-13-47	5.0	1 50	3 50		378.60
4-16-47	5.0	1 18	3 82		378.28
5-20-47	5.0	2 57	2.93	Irrig W/S lane	379.17
6-18-47	4 5	1 41	3.09		379.01
7-15-47	4.0	1 28	2 72		379.38
8-12-47	4 5	0 73	3 77		378 33
9-15-47	5.0	0 86	4 14		377.96
10-15-47	5.0	0 65	4 35		377 75
11-14-47	5 5	0 68	4 82		377 28
12-17-47	5 5	0 81	4 69		377 41
1-15-48	5 5	0 53	4 97		377.13
2-18-48	5 5	1 09	4 41		377.69
4-13-48	5 5	0 80	4 70		377.40
5-21-48	5.0	1 14	3 86	flooded around well	378.24
6-15-48	6.0	1 31	4 69		377.41
7-15-48	6.0	1 47	4 53	Irrig Water in Sta Creek	377.57
8-12-48	6.0	2.00	4.00	Irrig Pasture	378 10
9-16-48	7.0	0 88	6 12		375.98
10-15-48	8	2 47	5 63	Irrig Pasture	376.57
11-19-48	6 5	0 87	5 63		376 47

Location: 2700' W x 100' S. NE Cor.
E/S of lane running S from battle monument inside fence near L to S.E. About 2320' S. of Hwy #78 and 100' S. of Santa Maria Creek. In Salt Grass pasture. Turbine pump 200' Southerly and west of lane about 80'.



Description: — 14' of 3/4" pipe capped. Cap drilled with 3/8" hole. (Well installed 11-22-46

M.P. = Top of 3/4" Cap.

Elev M.P. = 382 10 Elev. Gr. 381 4

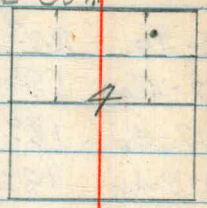
12-16-48	7.0	0 97	6 03	376.07
1-17-49	5.0	0 2	4 1	378.00
2-21-49	5.0	1 2	3 8	378 30
3-16-49	4 5	0 83	3 67	378 43
4-14-49	5.0	1 26	3 74	378 36
5-18-49	5.0	3.0	2.0	380 10

B.M. Chiseled □ NE Cor conc cattle guard, Fenton Lane S/S Santa Maria Creek. 30# Rail grating
Elev = 382 27

	Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 390 08	Elev W.S.
1	11-25-46	12.0	2.58	9.42		380 66
1	12-2-46	8.0	1.38	6 62		383 46
1	12-12-46	8.0	1 38	6 62		383 46
1	12-23-46	8.0	1 41	6 59		383 49
2	1-20-47	7.0	0 89	6 11		383 97
2	2-18-47	7.0	1 28	5 72		384 36
4	3-13-47	6.0	0 83	5 17		384 91
3	4-16-47	6.0	0 55	5 45		384 63
6	5-20-47	6.0	1 02	4 98	Irrig. S/S	385 10
7	6-18-47	6.0	0 55	5 45		384 63
8	7-15-47	6 5	1 24	5 26		384 82
9	8-12-47	7.0	1 03	5 97		384 11
1	9-15-47	7.0	1 4	5 6	Irrig N/S	384 48
1	10-15-47	7.0	0 82	6 18		383 90
1	11-14-47	7.0	0 44	6 56		383 52
=	12-17-47	8.0	1 21	6 79		383 29
2	1-15-48	8.0	1 10	6 90		383 18
4	2-18-48	7 5	0 98	6 52		383 56
3	4-13-48	7 5	0 96	6 54		383 54
6	5-21-48	8.0	3 43	4 57	Alf. Irrig.	385. 51
7	6-15-48	7.0	0 52	6 48		383 60
8	7-15-48	7.0	0 56	6 44	Irrig & Alf.	383.64
9	8-12-48	5.0	0 83		"	385.91
1	9-16-48	8.0	1 12	6 88		383 20
1	10-15-48	8.0	1 40	6 6	"	383 48

Location:- 640' S. x 1110' E of NE Cor. (W)

N/S of E & W Lane through Fenton Ranch, 1 3 ft. west of 2nd Power Pole E of Santa Maria Creek. .3 Mi. west of Corr. G.I. Barn →



DESCRIPTION:- 18 ft of 3/4" pipe, capped. Cap drilled with 3/8" hole (Installed 11/22/46). M.P. = Top of 3/4" cap.

Owner:- H. G. Fenton

Elev. M.P. = 390 08 Elev. Gr = 389 1

11-19-48	8.0	0 55	7 45		382.63
12-16-48	8 5	0 89	7 61		382.47
1-17-49	8.0	1 90	6 10		383.98
2-21-49	7.0	0 55	6 45		383.63
3-16-49	7.0	0 65	6 35		383.73
4-14-49	7.0	0 60	6 4		383.68
5-18-49	7.0	2 65	4 35	Irr. Alf.	385.73

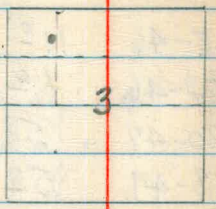
See book #2 Page 30

BM = Two small nails in power pole #11241. 320' W of obs well N/S lane E'ly side Santa Maria Creek

Elev = 389 68

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 403.34	Elev W.S.
11-25-46	20.0	1.55	18.45		384.89
12-2-46	18.0	0.90	17.1		386.24
12-12-46	18.0	1.42	16.58		386.76
12-23-46	18.0	1.91	16.09		387.25
1-20-47	16.0	1.02	*14.98		388.36
2-18-47	16.0	3.86	*12.14		391.20
3-13-47	11.0	1.05	*9.95		393.39
4-16-47	12.0	0.85	11.15		392.19
5-20-47	14.0	1.45	12.55		390.79
6-18-47	14.0	0.55	13.45		389.89
7-15-47	18.0	0.73	17.27		386.07
8-12-47	19.5	0.47	19.03		384.31
9-15-47	20.0	0.98	19.02		384.32
10-15-47	20.0	0.92	19.08		384.26
11-14-47	20.0	1.40	18.60		384.74
12-17-47	20.0	2.33	17.67		385.67
1-15-48	18.0	1.0	17.0		386.34
2-18-48	17.5	0.68	16.82		386.52
4-13-48	16.0	0.88	15.12		388.22
5-21-48	19.0	1.67	17.33		386.01
6-15-48	21.0	1.07	19.93		383.41
7-15-48	23	1.32	21.68		381.66
8-12-48	23.0	0.90	22.1		381.24
9-16-48	23.0	0.60	22.4		380.94
10-15-48	23.5	0.43	23.07		380.27

Location:- 640 ft. S x 1300 ft. E. of N.W. Cor. N/S of E&W lane through Fenton Ranch, 0.1/8 Mi E. of Corr. G.I barn. About 175 ft. west of welded pipe frame gate to lane leading N'ly along E'ly side of alfalfa field. 15 ft. west of Power Pole



Description:- 26 ft. of 3/4" pipe, capped. Cap drilled with 3/8" hole (Installed 11-25-46)

M.P. = Top of 3/4" Cap. about 1' ab. gr.

Elev. M.P. = 403.34 El. Gr. 401.4

Owner: H. G. Fenton

11-19-48	24.0	0.44	23.56		379.78
12-16-48	24.5	2.62	21.88		381.46

* Fenton diverting river water wetting Alf. & Grain Ditch 75' Ely

" " " "

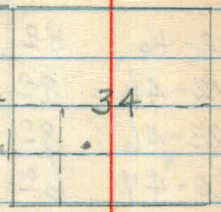
1-17-49	19.0	0.47	18.53		384.81
2-21-49	18	2.05	15.95		387.39
3-16-49	17	1.75	15.25		388.09
4-14-49	15.0	2.22	12.78		390.56
5-18-49	14.0	1.14	12.86		390.48

BM High pt. on flange of 24" I. D. Culvert 200' E. of obs well 12' N of iron gate post on E/S of N/S lane. Elev = 408.33

(See book 2 Page 31)

3/4" Test Well Fenton Ranch 12'-1W-34U

Location:- Abt. 1340' N. x 1970' E of S.W. Cor.



Near fence cor. in lane, 90' N. of pumping plant. Near high water floodchannel N.E. Cor. alfalfa field.

Description:- 18' of 3/4" pipe, capped. Cap drilled with 3/8" hole

M.P. = Top of 3/4" Cap - 0.6 ab gr.

Elev M.P. = 397.18 El. Gr. = 396.5

Owner: H. G. Fenton

Depth	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 397.18	Elev. W.S.
11-25-46	11.0	0.65	10.35	static hd. not estab.	386.83
12-23-46	6.0	1.3	4.70		392.48
1-20-47	5.0	1.35	3.65		393.53
2-18-47	5.0	1.55	3.45		393.73
3-13-47	2.0	* 1.35	0.65		396.53
4-16-47	4.0	* PR Nos 1.27	2.73		394.45
5-17-47	4.0	0.93	3.07	ditch dry	394.11
6-18-47	5.0	0.77	4.23		392.95
7-15-47	6.5	0.95	5.55	P. R. 100's	391.63
8-12-47	7.0	0.91	6.09		391.09
9-15-47	8.5	0.9	7.60	P.R 90's	389.58
10-15-47	8.5	0.5	8.0		389.18
11-14-47	8.5	0.8	7.7	P.R 90's	389.48
12-17-47	8.0	1.11	6.89		390.29
1-15-48	10.0	1.1	8.9	P.R 90's	388.28
2-18-48	7.5	0.95	6.55	P.idle 90's	390.63
4-13-48	7.5	1.23	6.27		390.91
5-21-48	11.0	1.24	9.76		387.42
6-15-48	10	1.05	8.95		388.23
7-15-48	11.0	0.96	10.04	P. Run 90's	387.14
8-12-48	13.0	1.05	11.95	"	385.23
9-16-48	13.0	1.05	11.95	"	385.23
10-15-48	13.0	0.98	12.02	"	385.16
11-19-48	10.0	0.72	9.28	P idle	387.90
12-16-48	11.0	1.3	9.87	P idle	387.31

1-17-49	9.0	1.05	7.95		389.23
N/E cor Alf. in Fence cor. 90' N P.P.					
2-21-49	7.0	1.28	5.72		391.46
* WATER IN ditch 6' N					
3-16-49	5.0	0.52	4.48		392.70
4-14-49	4.5	0.57	3.93	wi in N/S ditch	393.25
5-18-49	3.0	0.78	2.22	wi in ditch N/S	394.96

12/2 1946 and 12/12 1946 could not go in acct cons in lane

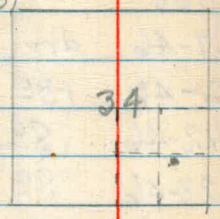
Installed - 11-25-46

B.M. 60d spike 25' S w'ly of pumping plant 110' So. of obs. well, W/S lane, E/S alf. field

Elev - 402.36

Date	Hold on M.P.	Wetted tape	Depth	411.79	
12-2-46	8.0	1.3	6.7		405.09
12-12-46	8.0	1.45	6.55		405.24
12-23-46	8.0	1.61	6.39		405.4
1-20-47	6.0	0.39	5.61		406.18
2-17-47	6.0	0.98	5.02		406.77
3-13-47	6.0	1.41	4.59		407.20
4-16-47	6.0	0.82	5.18		406.61
5-20-47	6.0	0.85	5.15		406.64
6-18-47	7.0	0.86	6.14		405.65
7-15-47	8.0	0.66	7.34		404.45
8-12-47	9.0	0.69	8.31		403.48
9-15-47	10.0	1.20	8.80		402.99
10-15-47	9.5	0.80	8.70		403.09
11-14-47	9.5	0.93	8.57		403.22
12-17-47	9.0	1.10	7.90		403.89
1-16-48	8.5	0.78	7.72		404.07
2-18-48	8.0	0.62	7.38		404.41
4-13-48	8.0	1.22	6.78		405.01
5-21-48	8.0	0.84	7.16		404.63
6-14-48	8.5	0.85	7.65		404.14
7-15-48	9.0	0.48	8.52		403.27
8-12-48	10.0	0.95	9.05		402.74
9-16-48	10.5	1.02	9.48		402.31
10-15-48	10.5	0.86	9.64		402.15
11-18-48	11.0	1.68	9.32		402.47

Location: - Abt. 4180'S x 1020'W of



IE Cor. N/S Co. Rd. to Hiland Valley
2' S of Rt. of W. fence. About 200'N & 255'W. of old rejuvinated (stucco) "Fenton" school House, green roof and trim, conc. steps. 130'W. of angle in power line. Angle pt. pole guyed across road to South. Toe of roadway embankment, 4' S. Edge of red soil. 150'E. of County road bridge. Pepper trees at foot of hill 150' S.W. in grain field.
DESCRIPTION: 18' of 3/4" Pipe, capped. Cap drilled with 3/8" hole (Well installed 11/29/46)
M.P. = Top of 3/4" Cap.
Owner = Co. Rd. Rt. of W.
Elev. M.P. = 411.79 Elev. Gr. = 411.2

12-16-48	10.5	1.30	9.2	402.59
1-17-49	10.0	2.35	7.65	404.14
2-16-49	7.5	0.82	6.68	405.11
3-16-49	7.0	0.74	6.26	405.53
4-14-49	6.0	1.27	4.73	407.06
5-18-49	7.0	3.0	4.0	407.79

(See Book 2 Page 34)

U.S.G.S. BM #410T. Elev. 410.636 Obs well 250' W. along ℄ oiled road
B.M. is 95' N. Fenton School Hse, 5'E of 18" drain cottonwood, 35' S℄ oiled Rd 10' S fence 410.52 -.12 low

12 S – 1W – 35 – V
Meter #68214

Date drilled	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 421.57	Elev W.S.
11-27-46	dry				
12-2-46	13°	2 07	10.93		410 64
12-12-46	8°	0 98	7.02		414 55
12-23-46	8°	1 95	6 05		415 52
1-20-47	7°	1 63	5 37		416.2
2-17-47	6°	1 04	4 96		416.61
3-10-47	6 5	1 75	4.75		416 82
3-13-47	6°	1 25	4 75		416 82
4-16-47	6°	1 16	4 84		416.73
5-20-47	6°	1 02	4 98		416 59
6-18-47	8°	2 28	5 72	N/S Irrig Corn.	415.85
7-14-47	8°	1 54	6 46		415 11
8-12-47	8°	0 63	7 37		414 2
9-16-47	9°	0 98	8 02		413 55
10-15-47	9°	0 85	8 15		413 42
11-14-47	9°	0 88	8 12		413 45
12-17-47	9°	1 22	7 78		413 79
1-16-48	8 5	1 1	7 4		414.17
2-18-48	8°	0 67	7 33		414.24
4-13-48	8°	1 25	6 75		414 82
5-21-48	7 5	1 40	6 10	Irrig Corn	415 47
6-14-48	8°	1 35	6 65		414 92
7-15-48	9°	1 45	7 55		414 02
8-12-48	9°	0 63	8 37		413 20
9-16-48	10°	0 85	9 15		412 42

Location:- Abt. 1600' W. x 900' S of ctr.

N/S oiled country road, on curve, 2' E. Transformer pole to pumping plant. Abt 50' W. and 38' W. of W. end of olive row bordering S/S of said road. Abt. 900' E of W. line of section 35 (Meter #68214)

DESCRIPTION:- 18' of 3/4" Pipe, capped. Cap drilled with 3/8" hole.

M.P. = Top of 3/8" cap. 0.9 ab gr. 1.8 ab. avg gr. to N.

Elev. M.P. = 421 57

Elev. Gr = 419 57

10-15-48	10°	0 48	9 52	412 05
11-18-48	10°	0 65	9 35	412 22
12-16-48	10°	0 55	9 45	412 12
1-17-49	9°	0 43	8 57	413 00 → 414 30
2-16-49	8°	0 73	7 27	415 23
3-16-49	7 5	1 16	6 34	416 32
4-14-49	7°	1 75	5 25	
5-18-49	8°	3 27	4 73	416 84

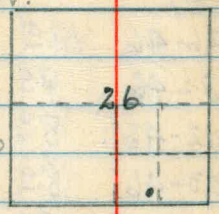
end of olive row bordering S/S of road. About 300' E. of a line See 35

B.M. 60d spike N/S base of large lone Eucallyptus tree East of dairy barn & NE of conc. stave silo, 105 SW of obs. well. Elev. = 424 51

(See book #2 Page 35)

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 437.31	Elev W.S.
11-26-46	10.0	1.02	8.98		428.33
12-8-46	10.0	1.23	8.77		428.54
12-12-46	10.0	2.08	7.92		429.39
12-23-46	9.0	1.13	7.87		429.44
1-17-47	9.0	1.42	7.58		429.73
2-17-47	9.0	1.42	7.58		429.73
3-17-47	9.0	1.33	7.67		429.64
4-16-47	9.0	1.31	7.69		429.62
5-20-47	9.0	0.85	8.15		429.16
6-17-47	10.0	0.90	9.10		428.21
7-14-47	11.0	0.88	10.12		427.19
8-13-47	13.0	1.6	11.4		425.91
9-16-47	13.0	0.53	12.47		424.84
10-15-47	14.0	0.82	13.18		424.13
11-14-47	14.5	0.81	13.69		423.62
12-17-47	15.0	0.95	14.05		423.26
1-16-48	15.0	0.81	14.19		423.12
2-18-48	15.0	0.48	14.52		422.79
4-13-48	12.0	3.07	8.92		428.39
5-20-48	10.0	0.9	9.10		428.21
6-14-48	11	1.26	9.74		427.57
7-15-48	12	0.95	11.05		426.26
8-12-48	13.0	0.75	12.25		425.06
9-17-48	14.5	0.92	13.58		423.73
10-18-48	15	0.7	14.3		423.0

Location: Abt. 1360' E (Should be West W.) x ± 100' N. of S.E. Cor.



N/S fence in river bottom. 30' S of roadway. 50' upstream from two Pepper Trees on roadway. 2 red flowered bushes in field 100' N.W. 3 Eucalyptus on mountain side ± 500' N'ly.

Description:- 3/4" pipe, 18' long - Capped. cap drilled with 3/8" hole.

M.P. - Top of 3/4" cap. Abt. 0.6 ab. gr.

Elev. M.P. = 437.31

Elev. Ground 436.6

Owner:- Miss Johnson

11-18-48	16.0	1.19	14.81	422.50	421.96
12-16-48	16.0	0.65	15.35		421.90
1-17-49	16.0	0.59	15.41		429.26
2-16-49	9.0	0.95	8.05		429.81
3-16-49	8.5	1.00	7.50		429.86
4-14-49	8.5	1.05	7.45		429.78
5-17-49	8.5	0.97	7.53		

(See Book #2 Page 44)

BM - Chiseled □ on flat rock under fence, S/S roadway at point of hill. 150' E of obs well

Elev. 442.82

12, 1W, 25 W.
3/4" Test Well

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 446 17	Elev W.S.
inst'd 11-26-46	12.0	0 75	11 25		434 92
12-3-46	9.0	1 6	7 4 *		438 77
12-12-46	8.0	1 33	6 67 *		439 50
12-23-46	8.0	1 16	6 84 *		439 33
1-17-47	8.0	1 63	6 37 *		439 80
2-17-47	8.0	1 67	6 33 *		439 84
3-17-47	8.0	1 50	6 50 *		439 67
4-16-47	8.0	1 35	6 65 *		439.52
5-20-47	10.0	0 85	9 15		437 02
6-17-47	12.0	0 55	11 45		434 72
7-14-47	15.0	1 20	13 80		432 37
8-13-47	15.1	Mud			
9-16-47		dry			
10-15-47		"	also 12-17-47		
4-13-48	10	1 57	8 43	Inst'd. 30' of 3/4" pipe same El. M.P.	437 74
5-20-48	10	0 8	9 2		436 94
6-14-48	11.0	0 8	10 2		435 97
7-15-48	15.0	0 47	14 43		431 64
8-12-48	17.0	1 0	16.0		430 17
9-17-48	19.0	0 42	18 58		427 59
10-18-48	20.0	0 4	19 6		426 ~~54~~ 57
11-18-48	21.0	0 97	20 03		426 14
12-16-48	22.0	1 6	20 4		425 77
1-17-49	22.0	1 28	20 72		425 45

Location:- 850' E. x 100' ± N. of S.W. Cor.

On slope of N. River bank about 6' below top of bank, 60' W. of small creek entering from N., Cane break at mouth of Creek Eucalyptus grove on hill about 500' N.W.

Description:- 3/4" pipe (18 ft. long) - capped. Cap drilled with 3/8" hole. 30' as of 4-13-48

M.P. = Top of 3/4" Cap.

Owner:- Miss Jessie J. Johnson

Elev. M.P. = 446 17

Ground Els - at well 445 4
10's " 441 5
10'N " 451 8

2-16-49	8.0	0 87	7 13	439.04
3-16-49	7.0	0 58	6 42	439.75

* Small flow in River about 300' S

4-14-49	7.0	0 62	6 38	439 79
5-17-49	7 5	0 95	6 55	439 62

(See BOOK #2 P 45)

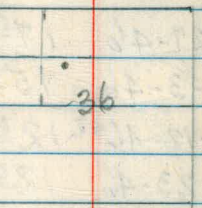
BM Chiseled □ on large Granite boulder under fence 50' E. of L in fence. At toe of rocky point. 25' N. of Rt. River bank. 100' E. Apricot orchard. Elev. 453 85

12-1W-36-F
(3/4" Test Well)

Date inst.	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 453.18	Elev W.S.
11-26-46	14.0	1.4	12 6		440.58
12-3-46	8.0	1 15	6 85		446 33
12-12-46	7.0	0 55	6 45		446 73
12-23-46	7 3	0 65	* 6 65		446 53
1-17-47	7.0	0 82	* 6 18		447 00
2-17-47	7.0	1 75	5 25		447 93
3-4-47	7.0	1.0	6.0		447 18
3-13-47	7.0	1 12	* 5 88		447 30
4-16-47	8.0	1 33	f2.5 6 67		446 51
5-20-47	12.0	1 16	fo 10 84		442 34
6-18-47	15.0	1 27	13 73		439 45
7-14-47	15 7	moist	mud.		
8-13-47	15 7	dry	also - 9/16, 10/15, 11/14 12/17, 1947		
1-16-48	15 7	"	also 2-18-48		
3-12-48	Add 12' Cap 18	of 3/4" pipe now 0.65' lower		453.13	
3-12-48	26.0	0 45	25 55		427.58
4-13-48	7.0	0 75	f2.0 6 25		446 88
5-20-48	11.0	0 9	fo 10'		43.03 43 24
6-15-48	14.0	0 82	13 18		439 95
7-15-48	17.0	0 8	16 2		436.93
8-12-48	20	1 3	18 7		434 43
9-16-48	22	0 77	21 23		431.90
10-15-48	23.0	0 83	22 17		430 96
10-18-48	23 5	1 12	22 38		430 75
11-18-48	23 5	0 73	22 77		430.36

Location: Abt. 1445'S x 2640'E of N.W. Cor.

Near S.W. cor. of eucalyptus grove W/S barbed wire fence, Abt. 7° N. of gate to head of gravity diversion ditch of San Pasqual Mutual Water Co. On sub ditch bank. Abt. 75' N. of Hwy #78.



Description:- 3/4" Pipe, 18" long - capped. Cap is drilled with 3/8" hole. → +12 3-12-48

M.P. = Top of 3/4" Cap.

Elev. M.P. = 453 18

Owner: Nelson - Son-in-law of Marchus

Elev Gr. = 452 7

*12/23/46 Abt. 2 cusecs being diverted in ditch from River

*1-17-47 " 2 or 2.5 " " " " " " "

*2-17-47 " 2.0 " " " " "

f Headgate shut - also on 3/7/47, Opened on 10th P.M.

fo = Estimated flow in diversion ditch 30' So of well

12-16-48	24.0	0 78	23 22	429 91
1-17-49	22.0	1 25	20 75	432 38
2-16-49	8.0	1 4	6 6	446 53
f2- 3-16-49	7.0	0 98	6 07	447.06

BM 35 S. E'ly from obs well. Chiseled □. Near S W'ly end 4" Conc. Hdgate wall to sub ditch from diversion canal E.S.P. Mut. Water Co. S.W. Cor. Euc Grove 15' W of olive tree. 40' N Hwy #78 0 99 Elev 6.01 453.0 447.12 f1.5 cusus 3-14-49

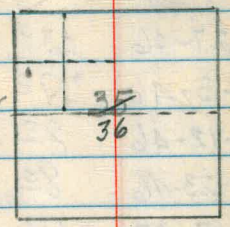
See Book 2 P 40

4-14-49 447.38 (447.06) 5-8-49 7.0 2-1-50

12 S. 1W - 36E

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 446.38	Elev W.S.
11-27-46	17.0	0.85	16.15		*430.23
12-3-46	15.0	1.81	13.19		433.19
12-12-46	12.0	0.49	11.51		434.87
12-23-46	12.0	1.13	10.87		435.51
1-17-47	12.0	1.71	10.29		436.09
2-17-47	11.0	1.15	9.85		436.53
3-13-47	11.0	1.03	9.97		436.41
4-16-47	10.0	0.85	9.15		437.23
5-20-47	15.0	3.16	11.84		434.54
6-18-47	15.0	0.88	14.12		432.26
7-14-47	17.0	1.00	16.00		430.38
8-13-47	19.0	1.51	17.49		428.89
9-16-47	20.0	1.02	18.98		427.40
10-13-47	20.9	0.80	20.1		426.28
11-4-47	20.9	0.5	20.4		425.88
11-14-47	20.9	Mud 0.0	20.9		425.48
12-17-47	" mud	Est.	21.0 ?		
1-16-48	20.9	Dry	also 2-18.		
3-12-48	Extend well 8' deeper			446.37	
"	25.0	1.45	23.55		422.82
4-13-48	14.0	1.27	12.73		433.64
5-20-48	15.0	1.45	13.55		432.82
6-15-48	16.0	1.15	14.85		431.52
7-15-48	18.0	0.90	17.1		429.27
8-21-48	21.0	2.33	18.67		427.7

Location:- 1600' S. x 330' E of N.W. Cor. N/S State Highway #78, 1.5' W of power Pole. 1.3 S. of barbed wire Rt. of W. fence.



Description:- 3/4" pipe, 22' long - capped. Cap drilled with 3/8" hole.
M.P. = Top of 3/4" Cap.
Elev M.P. = 446.38 Elev Gr. 445.9
Owner:- On State Highway Rt. of Way

9-17-48	21.0	0.68	20.~~32~~ 426.05	~~425.91~~
10-15-48	22.0	0.64	21.36	425.01
11-18-48	23.0	1.35	21.65	424.72
	*Note Well installed 11/27/46			
12-16-48	24.0	1.60	22.4	423.97
1-17-49	22	1.25	20.75	425.62
2-16-49	15	1.85	13.15	433.12
3-16-49	12	1.31	10.69	435.68
4-14-49	11.0	0.82	10.18 Meter #100,930	436.19
5-17-49	11.0	0.85	10.15 So. Nelson S/S #78 Hwy E line Sec 35	436.22

B.M. 1575 S x 800' E of N.W. Cor. Chiseled X on large granite boulder under large eucalyptus tree. N/S Hwy #78 10' E 18" Hwy culvert #3080 Elev. 452.83

(See BOOK 2 P 42)

Date Installed	Hold on M.P.	Wetted Tape	Depth	Elev. M.P. 427.10	Elev W.S.
11-27-46	13.0	0.8	12.2		*414.90
12-3-46	9.0	1.22	7.78		419.32
12-12-46	8.0	0.42	7.58		419.52
12-23-46	8.0	0.62	7.38		419.72
1-17-47	8.0	0.94	7.06		420.04
2-17-47	8.0	1.04	6.96		420.14
3-13-47	8.0	1.15	6.85		420.25
4-16-47	8.0	1.75	6.25		420.85
5-20-47	8.0	0.83	7.17		419.93
6-18-47	9.0	1.26	7.74		419.36
7-14-47	9.0	0.98	8.02		419.08
8-12-47	10.0	0.98	9.02		418.08
9-16-47	10.5	0.88	9.62		417.48
10-15-47	10.5	0.89	9.61	crop irrigated	417.49
11-14-47	10.5	0.84	9.66		417.44
12-17-47	10.0	0.75	9.25		417.85
1-16-48	10.0	0.90	9.10		418.90
2-18-48	10.0	0.98	9.02		418.08
4-13-48	8.0	0.90	7.1		420.00
5-20-48	9.0	1.14	7.86		419.24
6-14-48	9.5	1.28	8.22		418.88
7-15-48	10.0	0.9	9.1		418.00
8-12-48	11.0	1.25	9.75		417.35
9-17-48	11.0	0.58	10.42	Tank house built along side	416.68
10-15-48	11.5	0.68	10.82		416.28

Location:- Abt. 900'N x 1020'W of ctr.
Near NE cor of Walnut orchard
1.5'E. wire fence, 6'S. of 3" diam conc.
standpipe, 3.5'N.W. of K-T #12½ valve
8'S. of N'ly line of walnut trees.

Description:- 3/4" pipe - 18' long - capped. Cap drilled with 3/8" hole.
M.P. = Top of 3/4" cap. Abt. 0.6 above ground
Elev. M.P. = 427.10' Gr. Elev = 426.5
Owner:- See property map.

11-18-48	12	1.15'	10.85	416.25
12-16-48	12.0	0.90	11.10	416.00
1-17-49	12	1.77	10.23	416.87

*True static level not yet attained.

2-21-49	11.0	2.98	8.02	419.08
3-16-49	9	1.64	7.36	419.74
4-14-49	8.0	1.6	6.4	420.70
5-17-49	8.0	1.62	6.38	420.72

B.M. Chiseled □ on base of NE Cor 36" Conc. standpipe about 9' NE of obs well.
Elev. 425.81
(See Book #2 P 38)

TEST HOLE #28, 12 I W. 32 G
(Continued from Page 11)

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P.	Elev. W.S.
2-20-~~28~~ 48			4 21	368.79	364.58
3-23-28			4 10		364.69
4-18-28			3 99		364.80
5-25-28			3.30		365 49
6-28-28			3.56		365.23
11-19-48	12 7	0 93	11 77	358.02	346.25
12-17-48	12 0	0 75	11 25		346.77
1-18-49	10 0	0 42	9 58		348.44
2-15-49	9 0	0 52	8 48		349.54
3-16-49	8 6	0 46	8 14		349.88
4-14-49	8 5	0 40	8 10		349.90
5-17-49	9 0	0 08	8 92		349.10

see Book #2 P-6

Well destroyed by Fenton.

Haskell. Cont'd from Page 18 (Well #12 I W. 31 G.)

Test Well #27
(Continued from Page 29)

Date	Hold on M.P.	Wetted tape	Depth	Elev M.P. 367.22	Elev W.S.
2-20-28			4.06		363.16
3-23-28			4 13		363.09
4-18-28			4 01		363 21
5-25-28			4 20		363 02
6-28-28			4 30		36z 92
Plowed out by Fenton					
8-12-48	21 0	1 4	19 6		428 81
9-17-48				P.R.	
10-15-48	23 0	0 7	22 3		426.11
11-18-48	23 0	0 85	22 15		426.26
12-16-48				P.R.	
1-17-49	24 0	1 05	22 95	idle	425 46
2-16-49	12	1 95	10 05		438 36
3-16-49	11 0	2 0	9 0		439 41
4-14-49	10 0	1 38	8 62		439 79
5-17-49	10 0	1 32	8 68		439 73

See Book 2 Page-41

Jergensen Well (Contd) M.P. 448 41

TEST WELL #26 (Cont'd from Page 30) 56.
State #12-1W-32G

	Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 368.07	Elev W. S.
2	2-20-28			4.02		364.05
3	3-23-28			4.62		363.45
4	4-18-28			4.90		363.17
5	5-25-28			5.22		362.96
6						
8						
9						
10						
11						
12						
1-						
2						
3						
4						
5						

This well plowed out by Fenton

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 364.07	Elev W.S.
1-19-28			3.73		360.34
1-30-28			3.65		360.42
2-20-28			3.52		360.55
3-23-28			3.54		360.53
4-18-28			3.50		360.57
5-25-28			4.32		359.75
6-28-28			4.89		359.18
5-16-46	8.0	0.99	7.01		357.06
6-18-46	7 4/5	0 20/100	7.20		356.87
7-18-46	8 5/8	0 71/100	7 79/100		356.28
9-13-46	9 0/0	0 55/100	8 45/100		355.62
10-7-46	9.0	0 52/100	8 48/100		355.59
11-8-46	9 5/8	0 45/100	9 05/100		355 02/100
12-2-46	10 0/0	1 12/100	8 88/100		355 19/100
12-11-46	9 5/8	0 51/100	8 99/100		355.08
12-23-46	9 5/8	0 62/100	8 88/100		355.19
1-20-47	10 0/0	1 25/100	8 75/100		355 32/100
2-18-47	9 0/0	0 48/100	8 52/100		355.55
3-17-47	9 0/0	0 82/100	8 18/100		355 89/100
4-16-47	9 0/0	1 13/100	7 87/100		356 20/100
5-21-47	9 0/0	1 17/100	7 83/100		356 24/100
6-17-47	9 0/0	1 03/100	7 97/100		356.10
7-14-47	9 5/8	1 30/100	8 20/100		355 87/100
8-12-47	10 0/0	1 45/100	8 55/100		355 52/100
9-15-47	10 0/0	1 09/100	8 91/100		355.16
10-14-47	10 0/0	0 81/100	9 19/100		354.88

TEST WELL #17
#12-1-32 F. (Cont'd from Page 23)
364.07

11-13-47	10 0/0	0 60/100	9 4/5		354.67
12-16-47	10 0/0	0 45/100	9 55/100		54.52
1-15-48	10 0/0	0 40/100	9 60/100		54.47
2-17-48	10 0/0	0 40/100	9 60/100		54.47
3-15-48	11 0/0	1 34/100	9 66/100		54.41
4-14-48	10 0/0	0 51/100	9 49/100		54.58
5-21-48	10	0 45/100	9 55/100		54.52
6-14-48	10 5/8	0 86/100	9 64/100		54.43
7-16-48	11 0/0	1 2/100	9 80/100		54.27
8-12-48	11 0/0	3 6/100	7 40/100		56.67
9-17-48	11 0/0	0 77/100	10 23/100		53.84
10-15-48	11 0/0	0 58/100	10 42/100		53.65
~~11-19-48~~	~~9 0/0~~	~~1 0/0~~	~~8 0/0~~	?	NR
11-19-48	11 5/8	0 9/100	10 6/100		53.47
12-17-48	11 7/8	0 98/100	10 72/100		53.35
1-17-49	11 0/0	0 35/100	10 65/100		53.42
2-15-49	11 0/0	0 65/100	10 35/100		53.72
3-16-49	11 0/0	0 95/100	10 05/100		54 02/100
4-14-49	10 5/8	0 90/100	9 60/100		54 47/100
5-18-49	10 7/8	1 95/100	8 75/100		55 32/100

See Book #2 Page 24

TEST HOLE #59
#12-1W-35D (Cont'd from Page 21)

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P.	Elev W.S.
2-20-28			6.55		417.93
3-23-28			6.59		417.89
5-30-28			6.70		417.78
6-28-28			6.87		417.61
7-26-28			7.22		417.26
3-5-46	7.0	0.90	6.10	424.48	18.38
5-16-46	6.5	0.2	6.30		18.18
7-18-46	7.0	0.44	6.56		17.92
9-13-46	8.0	0.8	7.20		17.28
10-17-46	8.0	0.78	7.22		17.26
11-14-46	8.0	1.1	6.90	f6	17.58
12-23-46	8.0	1.75	6.25		18.23
1-20-47	8.0	1.80	6.20		18.28
2-17-47	7.0	0.83	6.17		418.31
3-14-47	7.0	0.81	6.19		418.29
4-16-47	9.0	2.85	6.15		18.33
5-20-47	7.0	0.83	6.17	f0.1	18.31
6-17-47	7.0	0.60	6.40		18.08
7-15-47	8.0	1.36	6.64		17.84
8-13-47	8.0	1.30	6.70		17.78
9-16-47	8.0	1.23	6.77		17.71
10-15-47	8.0	0.80	7.20		17.28
11-14-47	Too many bulls to enter property				
1-16-48	9.0	1.5	7.5		16.98
2-18-48	8.5	1.4	7.1		17.38
5-21-48	8.5	0.6	7.9		16.58
6-14	9.0	-0.8	8.2		416.28
7-15	9.5	-0.5	9.0		15.48
8-12	10.0	-0.52	9.48		15.00
9-17-48	11.0	0.9	10.1		14.38
10-18-48	11.0	0.5	10.5	f5.0	13.98
11-18-48	11.0	0.45	10.55		413.93
12-16-48	Test well 59 destroyed by Jack Haley Trees gone and land being leveled.				

0.1 Cusec in Guejito Cr.

f_{11} = Test Cusecs in Guejito Cr. at Highway Bridge

TEST HOLE #55 #12-1W-26 U (Cont'd From Page 19)

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 436.42	Elev W.S.
1-30-28			3.64		432.78
2-20-28			3.19		433.23
3-23-28			3.79		432.63
5-30-28			4.34		432.08
6-28-28			4.90		431.52
7-26-28			5.64		430.75
8-21-28			6.20		430.22
3-5-46	7.0	0.52	6.48		429.94
5-16-46	7.0	0.33	6.67		29.75
6-17-46	7.2	0.44	6.76		29.66
7-18-46	8.0	1.11	6.89		29.53
9-12-46	8.0	0.66	7.34		29.08
10-16-46	8.0	0.6	7.40		29.02
11-14-46	8.0	1.22	6.78		29.64
12-13-46	8.0	1.25	6.75		29.67
~~12-12-46~~	~~8.0~~	~~1.25~~	~~6.75~~		~~29.67~~
12-24-46	8.0	1.20	6.80		29.62
1-17-47	8.0	0.97	7.03		29.39
2-17-47	8.0	0.98	7.02		42940
3-14-47	9.0	1.75	7.25		42917
4-16-47	9.0	2.0	7.0		29.42
5-20-47	9.0	1.92	7.08		29.34
6-17-47	8.0	0.91	7.09		29.33
7-14-47	8.5	1.38	7.12		29.30
8-13-47	8.5	1.38	7.12		29.30
9-16-47	8.5	1.35	7.15		29.27
10-15-47	8.5	1.26	7.24		429.18
11-14-47	8.0	0.8	7.2		429.22
12-17-47	8.0	0.75	7.25		429.17
1-16-48	8.0	0.73	7.27		429.15
2-18-48	8.0	0.71	7.29		429.13
4-13-48	8.0	0.70	7.30		429.12
5-21-48	8.0	0.6	7.40		429.02
6-14-48	8.0	0.68	7.32		429.10
7-15-48	8.0	0.53	7.47		428.95
8-12-48	9.0	1.37	7.63		428.79
9-17-48	9.0	1.2	7.80		428.62
10-18-48	9.0	1.1	7.90		428.52
11-18-48	9.0	1.0	8.0		428.42
12-16-48	9.0	0.85	8.15		428.27
1949 1-17	9.0	1.1	7.9		428.52
2-15-49	9.0	1.32	7.68		428.74
3-16-49	9.0	1.53	7.47		428.95
4-14-49	9.0	1.83	7.17		429.25
5-18-49	9.0	1.73	7.27		429.15

436.42

See Page 48 Book #2

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 389.56	Elev W.S.
1942 6-9			9.25 P.		380.31
9-18			9.68		379.88
11-25			10.29		379.27
1943 1-1			10.26		379.30
3-16			9.54		380.02
5-24			10.95		378.61
7-23			10.60		378.96
9-13			11.12		378.44
12-28			11.13		378.43
1944 1-12			11.0		378.56
3-30			10.82		378.74
6-7			11.92		377.64
8-25			13.62		375.94
10-25			14.35		375.21
12-7			13.50		376.06
1945 2-8			13.20		376.36
5-22			13.88		375.68
8-9			15.55		374.01
10-16			15.58		373.98
1946 1-7			15.05		374.51
5-17	16.0	1.0	15.00		374.56
6-18	16.0	0.4	15.6		373.96
7-18-46	17.0	0.67	16.33		373.23
9-12-46	20.00	2.48	17.52		372.04
10-18-46	19.0	1.50	17.50		372.06
11-14-26	19.0	1.68	17.32		372.24

Measurements by K. F. Schumacher (U.S.G.S.)

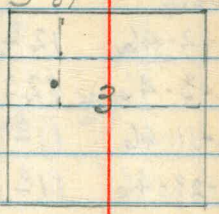
WELL #12-1W-33E (Contd from 60. Page #5)

12-12-46	18.0	1.05	16.95	372.61
12-23-46	18.0	1.12	16.88	372.68
1-20-47	18.0	1.67	16.33	373.23
2-17-47	18.0	2.08	15.92	373.64
3-17-47	17.0	2.07	14.93	374.63
4-16-47	17.0	1.70	15.3	374.26
5-21-47	17.0	1.45	15.55	374.01
6-17-47	17.0	0.78	16.22	373.34
7-14-47	18.0	1.35	16.65	372.91
8-13-47	18.0	0.70	17.30	372.26
9-15-47	18.0	0.36	17.64	371.92
10-15-47	18.5	0.53	17.97	371.59
11-13-47	18.5	0.37	18.13	371.43
12-16-47	18.5	0.46	18.04	371.52
1-15-48	19.0	0.80	18.20	71.36
2-17-48	19.0	1.03	17.97	71.59
3-16-48	19.0	0.95	18.05	71.51
4-14-48	19.0	0.98	18.02	71.54
5-21-48	19.0	0.51	18.49	71.07
6-14-48	19.0	0.25	18.75	70.81
7-16-48	20.0	0.65	19.35	70.21
8-13-48	20.0	0.33	19.67	69.89
9-16-48	20.0	0.07	19.93	69.63
10-15-48	21.0	1.03	19.97	69.59
11-19-48	20.5	0.66	19.84	69.72
12-17-48	20.5	0.86	19.64	69.92
1-17-49	20.5	1.39	19.11	70.45

3/4" Test well (Fenton) 13-1W-3E

Date	Hold. on M.P.	Wetted Tape	Depth	Elev M.P. 402 21	Elev W.S.
11-27-46	13.0	1.6	11.4		390.81
12-2-46	13.0	1.57	11.43		390.78
12-12-46	13.0	1.54	11.46		390.75
12-24-46	12.0	0.60	11.40		390.81
1-20-47	12.0	0.65	11.35		390.86
2-17-47	11.0	0.95	10.05		392.16
3-13-47	10.0	1.76	8.24		393.97
4-16-47	11.0	0.96	10.04		392.17
5-20-47	9.0	0.83	8.17	irrig. corn.	394.04
6-18-47	11.0	0.92	10.08		392.13
7-15-47	12.0	1.25	10.75		391.46
8-12-47	12.50	0.98	11.52		390.69
9-15-47	13.0	0.43	12.57		389.64
10-15-47	14.0	0.92	13.08		389.13
11-14-47	14.0	0.80	13.2		389.01
12-17-47	13.0	1.29	11.71		390.50
1-16-48	12.0	1.26	10.74		391.47
2-18-48	11.0	0.78	10.22		391.99
4-13-48	11.0	0.80	10.2		392.01
5-21-48	11.0	0.97	10.03		392.18
6-14-48	11.0	1.38	9.62	Alf. irrig.	392.59
7-15-48	12.0	1.25	10.75		391.46
8-12-48	12.0	1.15	10.85	Alf. irrig.	391.36
9-16-48	12.0	0.97	11.03		391.18
10-15-48	12.5	0.7	11.8		390.4

Location:- Abt. 1220' E x 2090' S of N.W. Cor.- N/S County Road to Hiland Valley, at toe of Fill. S/S of barbed wire Rt. of W. fence 540' E. of bridge over Santa Maria Creek.



Description:- 3/4" pipe 18' long-capped. Cap drilled with 3/8" hole.

M.P. Top of 3/4" cap. abt. 1' above avg. ground

Owner:- Co. Rd. Rt. of Way.

Elev. M.P.	402 21		Elev. Gr. = 400 9		
11-18-48	13.5	1.00	12.50	Irrig. Alf.	389.71
12-16-48	14.0	1.37	12.63	"	389.58
1-17-49	13.0	1.57	11.43		390.78
2-16-49	12.0	1.34	10.66		391.55
3-16-49	12.0	1.30	10.70		391.51
4-14-49	11.0	0.93	10.07		392.14
5-18-49	9.0	1.24	7.76	"	394.45

B.M. 60d spike, top of 1st wing pile from S.E. Cor. of bridge across Santa Maria Creek Elev=413.77

12-1W-34B.
3/4" Test Well.

Location:- Abt. 2110'W x 1300'S. of NE Cor. S/S State Hwy #78 N/S barbed wire Rt of W. fence

Description:- 3/4" Pipe - 18' long - capped. Cap drilled with 3/8" hole.

M.P. Top of 3/4" cap. Abt. 0.6 ab gr.

Elev. M.P. = 413.38 Elev. Gr. = 412.7

Well installed 11-29-46 Date	Hold. on M.P.	Wetted tape	Depth	Elev M.P. 413.38	Elev W.S.
12-2-46	12.0	1.58	10.42		402.96
12-3-46	12.0	1.65	10.35		403.03
12-11-46	11.0	1.13	9.87		403.51
12-23-46	11.0	1.33	9.67		403.71
1-17-47	11	1.55	9.45		403.93
2-17-47	11	1.61	9.39		403.99
3-14-47	10	0.55	9.45		403.93
4-16-47	10	0.43	9.57		403.81
5-20-47	10.0	0.54	9.46		403.92
6-17-47	10.0	1.21	8.79	Field N/S Irrigated	404.59
7-14-47	10.5	0.57	9.93		403.45
8-13-47	12.0	1.28	10.72		402.66
9-16-47	12.0	1.02	10.98		402.40
10-13-47	12.7	0.63	12.07		401.31
11-4-47	13.0	0.62	12.38		401.00
11-14-47	13.0	0.65	12.35		401.03
12-2-47	14.0	1.45	12.55		400.83
12-17-47	14.0	1.76	12.24		401.14
1-16-48	14	1.75	12.25		401.13
2-18-48	13.0	0.92	12.08		401.30
4-13-48	12.0	1.50	10.50		402.88
5-20-48	9.0	1.12	7.88	Irrig. Alf. Field	405.50
6-14-48	11.0	1.9	9.1		404.28
7-15-48	12.0	1.5	10.5		402.88
8-12-48	12.0	1.38	10.62	"	402.76
9-17-48	13.0	1.2	11.8		401.58
10-15-48	13.0	1.15	11.85	Alf. Irrig.	401.53
11-18-48	13.0	3.43	9.57	Alf. Irrig.	403.81
12-16-48	12.0	0.6	11.4		401.98
1-17-49	12.0	0.62	11.38		402.00
2-15-49	11.0	0.77	10.23		403.15
3-16-49	11	1.33	9.67		403.71
4-14-49	11	1.36	9.64		403.74
5-17-49	11.0	1.85	9.15	Alf. Irrig.	404.23

B.M. Chiseled □ Top S. hd wall Culvert under H'way #78 145' E. of obs. well Elev 420.13

12 S - 1W - 32 W1
(3/4" Test well)

Date	Hold on M.P.	Wetted tape	Dist.	Elev M.P. 358.88	Elev W.S.
12-3-46	8.0	1.95	6.05		352.83
12-12-46	4.0	0.89	3.11		355.77
12-24-46	4.0	0.79	3.21		355.67
1-20-47	4.0	0.92	3.08		355.80
2-18-47	4.0	0.94	3.06		355.82
3-17-47	4.0	0.94	3.06		355.82
4-16-47	4.0	0.78	3.22		355.66
5-21-47	4.0	0.55	3.45		355.43
6-18-47	5.0	1.37	3.63		355.25
7-15-47	5.0	1.11	3.89		354.99
8-12-47	5.0	0.55	4.45		354.43
9-15-47	6.0	0.95	5.05		353.83
10-14-47	6.0	0.98	5.02		353.86
11-14-47	6.0	1.25	4.75		354.13
12-17-47	6.0	1.66	4.34		354.54
1-15-48	5.0	1.36	3.64		355.24
2-18-48	5.0	1.52	3.48		355.40
4-14-48	4.5	1.22	3.28		355.60
5-21-48	5.0	0.95	4.05		354.83
6-15-48	5.2	0.6	4.60		354.28
7-15-48	6.0	0.45	5.55		353.33
8-12-48	7.0	0.98	6.02		352.86
9-16-48	7.0	0.55	6.45		352.43
10-18-48	7.0	0.6	6.40	rain water around well	352.48
11-18-48	7.0	0.68	6.32		352.56

Location: Abt. 830' E x 85' N of S. W. Cor

Near W. end of trail. 20' W. of wire gate 1.3' S. of wire fence

Hay stack in wire fence corral.

at foot of mountain, 50' S.W. South of tule pond.

Description:- 3/4" pipe - 18' long - capped. cap drilled with 3/8" hole. Abt. 0.8 ab. gr.

M.P. = Top of 3/4" Cap.

Elev. M.P. = 358.88 Elev. Gr. 358.0

Owner: City of S.D.

12-16-48	7.2	1.0	6.0	352.88
1-18-49	7.0	1.2	5.8	353.08
2-21-49	4.0	0.67	3.33	355.55
3-16-49	4.0	0.88	3.12	355.76
4-15-49	4.5	1.25	3.25	355.63

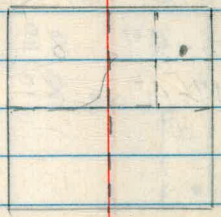
Note: Well installed 11/29/46

5-18-49	4.5	1.20	3.30	355.58

B.M. Elev. 371.80 On Boulder under bushy tree near s'ly fence line bordering base of mountain and s'ly limit of grain farmed area, 150' South of obs well. In Sec 5, T13S, R1W NW4 of NW4

				355 35	
1-16-47	6.0	1.02	4.98		350.37
2-17-47	6.0	1.40	4.60		50.75
3-17-47	6.0	1.44	4.56		50.79
4-15-47	6.0	1.14	4.84		50.51
5-21-47	7.0	0.64	6.36		48.99
6-17-47	7.0	0.55	6.45		48.90
7-15-47	7.2	0.17	7.03		348.32
8-12-47	8.0	0.33	7.67		347.68
9-15-47	9.0	0.95	8.05		47.30
10-13-47	9.0	1.00	8.0		47.35
11-4-47	9.0	1.1	7.9		347.45
11-11-47	8.0	0.25	7.75		347.60
12-16-47	8.0	1.08	6.92		348.43
1-15-48	7.0	0.42	6.58		348.77
2-18-48	6.6	0.45	6.15		349.20
3-15-48	7.0	1.25	5.75		349.60
4-14-48	7.0	1.22	5.78		349.57
5-20-48	8.0	1.03	6.97		348.38
6-14-48	9.0	1.55	7.45		347.90
7-16-48	9.0	0.66	8.34		347.01
8-12-48	9.0	0.07	8.93		346.42
9-16-48	10.0	0.47	9.53		345.82
10-15-48	10.0	0.25	9.75		345.60
11-19-48	10.0	0.94	9.06		346.29
12-17-48	9.0	0.35	8.65		346.70

Location:- Abt. 1300' S x 620 W of NE. Cor. 750' E of "T" Road at W. end Valley



Description:- 12" Gravel envelope well, capped with removable steel plate. Drilled by Escondido Mutual Water Co. on Bradbury Ranch.

1-18-49	9.0	1.47	7.53	347.82
2-15-49	7.0	0.45	6.55	348.80

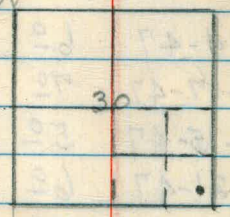
12" Gravel Envelop. 750' ± E of "T" Road West End of Valley Drilled by Escondido M.W.C.
M.P. T.C. E/S - creek under iron cover plate
T.C. = 2.4 above ground on Bradbury property 100' N. of 4th power pole E of Tend road or 2nd long span

M.P. =	355.35	Gr.	353.0	
3-16-49	6.0	0.1	5.9	349.45
4-14-49	6.0	0.25	5.75	349.60
5-17-49	7.0	0.25	6.75	348.60

BM. Nail in power pole S/S road about 400' West of old ranch house 355.42 Pole #14027

12S-1W-30Z 2'
Local- Test Well #3

Location:- Abt. 550' N x 300' W of S.E. Cor. Abt. 3' N. of E & W fence line.



Description:- 2" pipe - capped. Hole enlarged to permit use 1/4" tape in top of cap 3/3/47.

M.P. = Top of 2" cap, 2.1 above ground.

Elev. M.P. =

12-1W-33E Cont'd. from Page 60

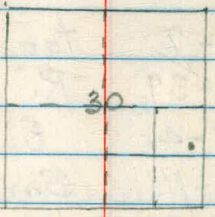
Date	Hold on M.P.	Wetted tape	Depth	Elev M.P.	Elev W.S.
3-3-47	8.0	0.58	7.42		page
3-17-47	8.0	0.70	7.30	see	34
	12-1W-33E		389.56	CONT'D From P 60	
2-15-49	19.0	0.64	18.36		371.20
3-16-49	19.0	1.0	18.0		371.56
4-14-49	18.0	1.1	16.9		372.66
5-18-49	19.0	2.98	16.02		373.54

See Page 26 Book #2

12 S - 1 W. 30 S.

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 359.95	Elev W.S.
3-4-47	6.0	0.81	5.19		354.76
3-17-47	7.0	1.79	5.21		354.74
4-15-47	5.0	0.75	4.25		355.70
5-21-47	6.0	0.64	5.36		354.59
6-17-47	7.0	1.03	5.97		353.98
7-14-47	8.0	2.03	5.97		353.98
8-12-47	7.0	1.26	5.74		354.21
9-15-47	7.0	1.56	5.44	checked 3 times	354.51
10-13-47	7.0	0.89	6.11		353.84
11-11-47	8.0	0.8	7.2		352.75
12-16-47	8.0	0.87	7.13		352.82
1-15-48	8.0	0.55	7.45		352.50
2-18-48	8.0	0.72	7.28		352.67
~~3~~-16-48	8.5	1.50	7.00		352.95
4-14-48	8.0	1.40	6.6		353.35
5-21-48	8.0	1.14	6.86		353.09
6-14-48	8.0	0.7	7.30		352.65
7-15-48	9.0	0.88	8.12		351.83
8-12-48	10.0	0.70	9.3		350.65
9-17-48	11.0	0.75	10.25		349.70
10-18-48	11.0	0.65	10.35		349.60
11-19-48	10.5	0.77	9.73		350.22
12-16-48	10.5	1.35	9.15		350.80
1-18-49	9.0	1.3	7.7		352.25
2-18-49	8.0	0.84	7.16		352.79

Location:- Abt. 1500' N x 350' W. of S.E. Cor. S/S Hwy #78 2'N of S'ly Rt. of W. fence. Abt 300' E of ℄ bridge over Bach Creek. 258' E of E end bridge



Description:- 18' of 3/4" pipe - capped cap drilled with 3/8" hole

M.P. = Top of 3/4" Cap abt. 0.5 ab. gr.

Elv. = 359.95 Ground = 359.6

Owner:-

Well installed Mar. 3rd 1947

3-21-49	8.0	1.6	6.4	353.55
4-15-49	8.0	1.87	6.13	353.82
5-17-49	8.0	1.70	6.30	353.65
6-7-49	8.0	1.36	6.64	353.31

H. G. Fenton
Log of well #1
drilled in 1942

0-7	top soil	
7-37	River water sand	
37-41	Black silt	
41-71	Sand & Gravel (water)	Perf.
71-92	Black silt	
92-117	Gravel, sand & silt	Perf.
117-122	Brown sand & gravel	"
122-126	cement & Gravel	
126-132	decomposed granite	

Log of Well #2

0-10	soil	
10-15	sand and gravel	
15-34	clay	
34-38	sand and clay	
38-43	fine river sand	perf.
43-47	sand & gravel	"
47-66	silt	
66-77	Hard red clay with worm holes	
77-81	Sand & silt	
81-85	red clay and gravel	
85-101	" "	
101-102	silt	
103-109	red clay & rock	

This well tested 150 M.I. after drilling.
39' from surf. when operating
13" O.D casing

12" O.D. casing
tested - 80 M.I.

12-1W-32B
cont'd from Page 7.

				375 54	
1-16-47	21	0 65	20.35		355,19
2-18-47	22	2 05	19.95		355.59
3-17-47	22	1 20	*20.8		
4-15-47	22	1	21		
6-17-47	23	1 2	21 8		
7-15-47	24	2	22		
8-13-47	24	1 7	22 3		
9-15-47	25	2 5	22 5		

* Wind mill running Shut off to measure

" " " " " " "

" " " " " " "

Discontinued - Readings not reliable acct. wet tape

12S-1W-33U

Well 12 1W - 33U. Near Battle Mon.

Continued from Page 6

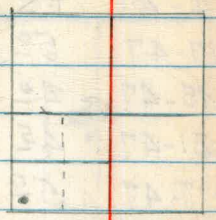
water in well, well has been cleaned out.

12-16-48	5	0 48	4.52		376 26
1-17-49	4	0 2	3 80		376. 98
2-15-49	1 15	0	1 15	fg River ?	379. 63
3-16-49	0 73	0	0 73		380 05
4-14-49	T.C.	+0 2		1/2 cfs in ditch	380 98
5-17-49	0 2	0	0 2	f Ditch 0.25 f River 1.0	380 58

See Page 27 Book 2 FOR 12 1W-33U

Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 332.15	Elev W.S.
3-17-47	4.0	1.2	2.8		329.35
4-16-47	5.0	1.26	3.74		328.41
5-21-47	5.5	0.41	5.09		327.06
6-18-47	7.0	0.91	6.09		326.06
7-15-47	8.0	0.8	7.2		324.95
8-13-47	9.0	0.80	8.2		323.95
9-15-47	10.0	1.41	8.59		323.56
10-14-47	10.0	0.98	9.02		323.13
11-13-47	10.0	1.21	8.79		323.36
12-17-47	9.5	1.25	8.25		323.90
1-15-48	9.5	1.48	8.02		324.13
2-18-48	9.0	1.15	7.85		324.30
3-15-48	8.0	0.47	7.53		324.62
4-14-48	8.0	0.35	7.65		324.50
5-21-48	9.0	1.1	7.9		324.25
6-14-48	9.0	0.83	8.17		323.98
7-15-48	10.0	1.25	8.75		323.40
8-12-48	10.0	0.9	9.10		323.05
9-16-48	10.0	0.48	9.52		322.63
10-18-48	10.0	0.4	9.60		322.55
11-18-48	10.0	0.54	9.46		322.69
12-16-48	10.0	0.9	9.10		323.05
1-18-49	10.0	1.15	8.85		323.30
2-16-49	9.5	0.87	8.63		323.52
3-16-49	3.0	1.2	1.8		330.35
4-14-49	3.0	0.88	2.12		330.03

Location: Abt. 4850'W. x 4600'S. of NE Cor. - In River bottom about 0.35 Mi. upstream from foot of Hiland Valley grade.



On E. bank of H.W. slough abt. 50' West of fence line bordering foot of Mtn.

Description:- 18' of 3/4" Pipe - capped. Cap drilled with 3/8" hole.

M.P. = Top of 3/4" cap abt 1' above ground.

Elev. M.P. = 332.15 Elev. Gr. 3.6.1.0

5-18-49 6.0 1.6 4.4 327.75

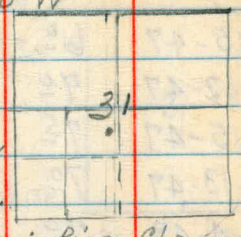
Below bald rock face high up on mountain near bank of slough. About 100' S.W.ly from long transmission line span across Valley and 50' from fence line at base of hill on a line between well and above rock face.

B.M. Chis. ☐ on 6 Ton granite boulder on point of hill. 20' S.W. of long span Power line across Valley and about 80' NE of obs. Test well 340.46

Rock shot out

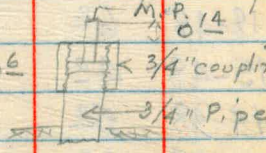
Date	Hold on M.P.	Wetted Tape	Depth	Elev M.P. 350 29	Elev. W.S.
3-4-47	6.0	1 11	4 89		345 40
3-17-47	5.0	1 77	3 23		347 06
4-15-47	4.0	0 92	3 08		347 21
5-21-47	4.5	0 87	3 63		346 66
6-17-47	5.0	1 1	3 90		346 39
7-11-47	5.0	0 6	4 40		345 89
8-13-47	6.0	0 60	5 4		344 89
9-15-47	7.0	1 1	5 9		344 39
10-14-47	6.6	0 5	6 1		344 19
11-11-47	7.0	0 85	6 15		344 14
12-17-47	7.0	1 45	5 55		344 74
1-15-48	7.0	1 65	5 35		344 94
2-18-48	6.0	0 97	5 03		345 26
3-16-48	6.0	1 3	4 7		345 59
4-13-48	5.0	0 49	4 51		345 78
5-20-48	6.0	1 10	4 90		345 39
6-14-48	7.0	1 08	5 92		344 37
7-15-48	7.50	0 85	6 65		343 64
8-13-48	8.0	0 8	7 2		343 09
9-16-48	8.5	0 89	7 61		342 68
10-18-48	8.5	0 70	7 8		342 49
11-19-48	8.5	0 92	7 58		342 71
12-17-48	8.5	1 25	7 25		343 04
1-17-49	8.0	1 4	6 6		343 69
2-15-49	7.0	3 25	3 75		346 54
3-16-49	4.0	0 95	3 05		347.24

Location:- Abt. 2150' N. x 2650' W of S.E. Cor.



2' S.E. of fence. 10' N.W. of N'ly River Bank. In Swale about 200' S.W'ly from bend in (old dirt roadway. D.G. formation) Ponded water and tules in River Channel. About 60'± S.W. of 10" Willow. Wild grape vines W&Sd.

Description:- 3/4" Pipe - 18' long - capped with 3/4" coupling, 3/4" Reducer, and 0 14 of 3/8" Pipe.



M.P. = Top of 3/8" Pipe 1.0 ab gr

Elev. M.P. = 350 29 Gr. 349 3 7/11/47

Owner:-

4-14-49	4.0	0 9	3.1	347 19
5-17-49	4.0	0 7	3 3	346 99

12 S. - 1 W. 31 A_2

Date	Hold on M.P.	Wetted tape	Depth	T.C. 353.55	
7-15-47	6.0	0.48	5.52		348.03
8-12-47	7.0	0.78	6.22		347.33
9-15-47	7.5	0.86	6.64		346.91
10-13-47	7.0	0.38	6.62		346.93
11-4-47	7.0	0.57	6.43		347.12
11-11-47	6.6	0.3	6.30		347.25
12-16-47	6.6	1.28	5.32		348.23
1-15-48	6.5	1.5	5.0		348.55
2-18-48	6.2	1.72	4.48		349.07
3-15-48	4.0	0.26	3.74		349.81
4-14-48	5.0	0.89	4.11		349.44
5-20-48	6.0	0.55	5.45		348.10
6-14-48	6.2	0.2	6.0		347.55
7-16-48	7.2	0.33	6.87		346.68
8-2-48	8.0	0.52	7.48		346.07
9-16-48	8.5	0.30	8.2		345.35
10-15-48	8.7	0.30	8.4		345.15
11-19-48	9.0	1.2	7.8		345.75
12-17-48	7.5	0.25	7.25		346.30
1-18-49	7.0	1.0	6.0		347.55
2-15-49	5.0	0.23	4.77		348.78
3-16-49	4.5	0.27	4.23		349.32
4-14-49	4.5	0.27	4.23		349.32
5-17-49	6.0	0.23	5.77		347.78
6-7-49	6.0	0.13	5.87		347.68

Location: 450' E. x 75' N "T" end Rd. at W. end S.P. Valley. Abt. 1300' S x 920' W of NE Cor.

Description:- 12" gravel envelope well. Drilled by Escondido Mutual Water Co. 1946
M.P. = T.C. under removable steel plate cover.

Elev. M.P. = 353.55 Ground Elev = 351.7

B.M. - Chiseled □ on E. end, S. hd'wall conc. box culvert, Xing of Bach Creek, 150' E. "T" end road near W end S.P. Valley Elev. 353.29

				356.32	
11-11-47	9^{0}	0^{8}	8^{2}		348.12
12-16-47	8^{0}	0^{52}	7^{48}		348.84
1-15-48	7^{2}	0^{24}	6^{96}		349.36
2-18-48	7^{0}	0^{52}	6^{48}		349.84
3-16-48	6^{5}	0^{36}	6^{14}		350^{18}
4-14-48	7^{0}	0^{95}	6^{05}		350^{27}
5-21-48	8^{0}	0^{66}	7^{33}		348^{99}
6-15-48	9^{0}	1^{07}	7^{93}		348^{39}
7-15-48	10^{0}	1^{0}	9^{00}		347^{32}
8-13-48	10^{0}	0^{19}	9^{81}		346^{51}
9-17-48	11^{0}	0^{65}	10^{35}		345^{97}
10-15-48	11^{0}	0^{22}	10^{78}		345^{54}
11-19-48	11^{0}	1^{30}	9^{70}		346^{62}
12-16-48	10^{0}	0^{76}	9^{24}		347^{08}
1-18-49	9^{0}	0^{54}	8^{46}		347^{86}
2-15-49	8^{0}	0^{44}	7^{56}		348^{76}
3-21-49	7^{5}	0^{68}	6^{82}		349^{50}
4-14-49	7^{0}	0^{65}	6^{35}		349^{97}
5-18-49	8^{0}	1^{13}	6^{87}		349^{45}

About ~~460~~ 500' W x ~~50'S~~ 135' of NE Cor

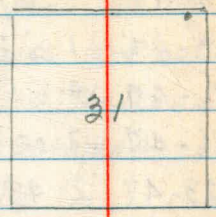
About 610' E of Bradbury Well

Description: - 12" Gravel envelope well drilled by Escondido Mutual Water Co. in Augt of 1946

MP = T.C. under removable steel plate cover.

Elev. M.P. = 356^{32}

" Ground = 354^{1}



1-8-47	9:30A.	2.12				10.28
1-15-47	1:0 P.	2.46	0.34	0.04	0.38	10.66
1-16-47	3:0 P.	2.80	0.34	-	0.34	11.00
1-16-47	3:05 P.	3.53			Set hook gage on bracket	
1-23-47	2:45P.	BF 4.10	0.57	-	0.57	11.57
1-23-47	2:55P.	AF 2.17				
1-28-47	10:25A	2.57	0 40	trace	0.40	11.97
1-29-47	10:40A	2.36	+0 21	0.25	0.64	12.01
2:6-47	3:55P	BF 3.28	.92	-	0.92	12.93
"	"	AF 1.68				
2-10-47	11:0 A.M.	1.75	-0.07	0.15	0.22	13.15
2-17-47	3:55P	2.38	-0.63	0.08	0.71	13.86
2-18-47	10:15A	2.24	+0.14	0.16	0 02	13.88
2-24-47	BL 12:15 P.	BL 2.97	-0.73		0 73	
2-24-47	AF 1:05 P	AF 1.51				
3						
3-3-47	8:35A	2.13	-0.62	3/2 0.05	0 67	
3-4-47	4:30P.	1.95	+0.18	0.38	0 20	
3-6-47	2:40 P.	1.97	+0.02	5th 0.14	0 12	
3-13-47	3:30P	BF 3.30	-1.33		1.33	
3-13-47	3:40 P	AF 1.54				
3-17-47	1:15P	BF 2.26	- .72		0 72	
3-17-47	1:20 P	AF 0.95				
3-20-47	1:45P.	0.95	0	0.37		
"	"	2.65				

Log of well drilled by Al. Godfrey, Long Beach at approximate El. 390 Location:- Approx: 1100'S of NE Cor Sec. 5 T. 135., R. 1. W.

Gravel Envelope well, 20" hole, 14" perf. casing

Rotary rig. Made up log from samples laid out on cement sacks for depths recorded thereon. Fines had been washed out of samples.

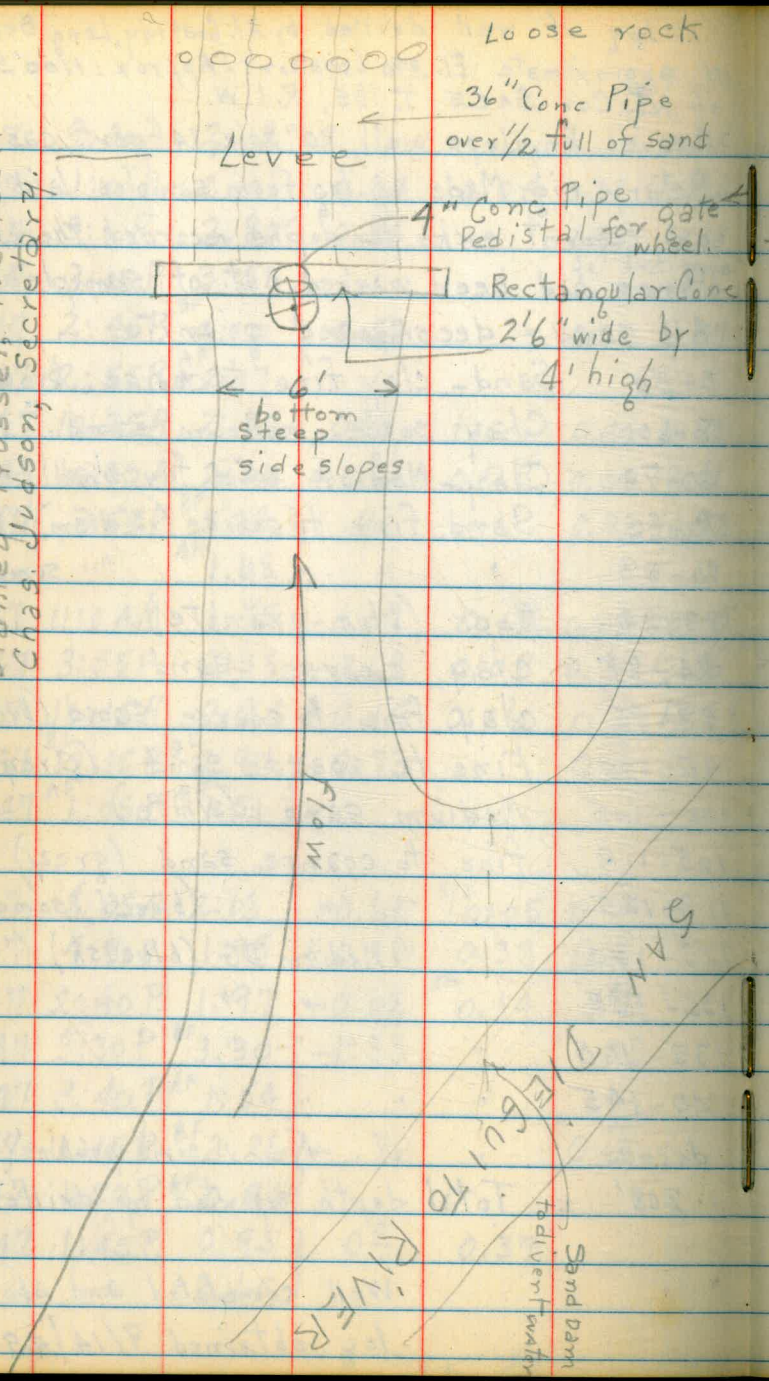
All sand = decomposed granite

0-50	Sand- clay, fine to coarse, brown.
50-60	Clay some medium sand.
60-70	Clay- Medium sand few small pebbles
70-80	Sand, fine to coarse (.3" diam) (light)
70-83	" " " " " some clay
83-84	Rock (blue granite)
84-88	clay, coarse sand
88-95	clay, fine to coarse sand (brown)
95-100	Fine to coarse sand (Grey)
100-105	Medium sand (White)
105-119	fine to coarse sand (grey)
119-125	" " " " (blueish) some clay
125-130	" " Medium DG (blueish)
130-135	" " " "
135-140	" " " "
140-145	" " " "
deeper	" " " " some pebbles (4" diam)
208' =	Total depth reported by driller.

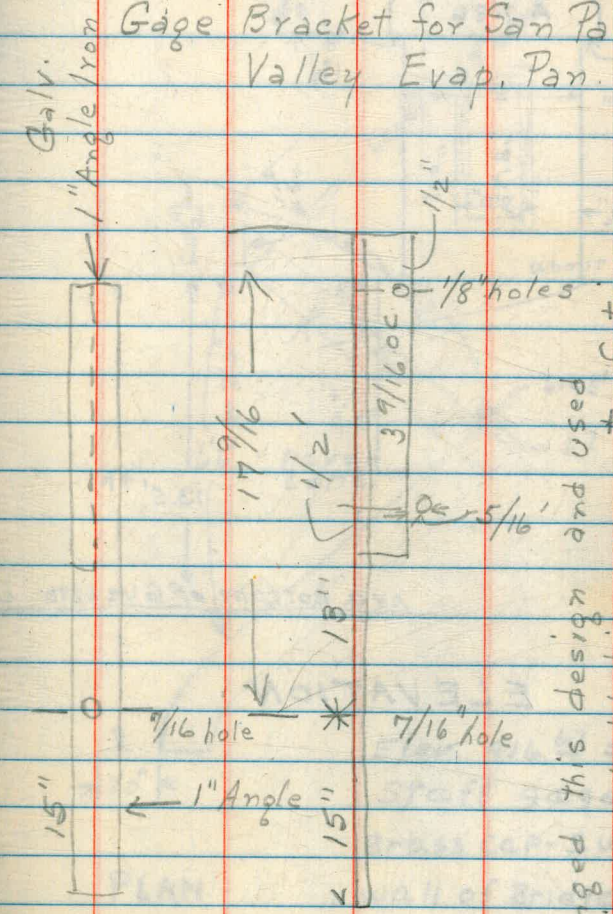
Well completed and above log obtained 9/14/49

June 18th '46
H. M. Crooker

Headworks of Diversion Ditch
East San Pasqual Mutual Water Co.
Stanley Trussel, President
Chas. Judson, Secretary.

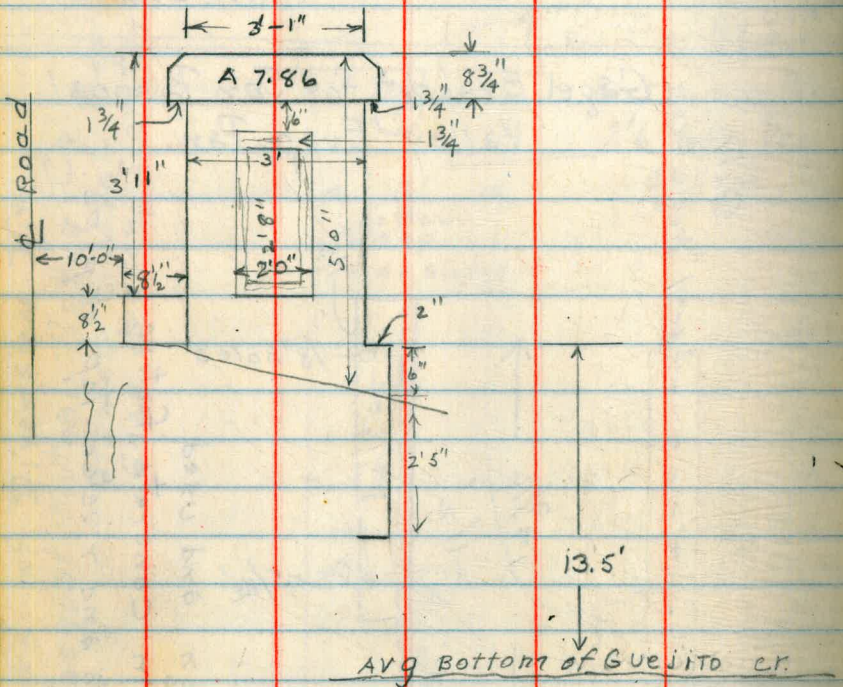


Gage Bracket for San Pasqual Valley Evap. Pan.

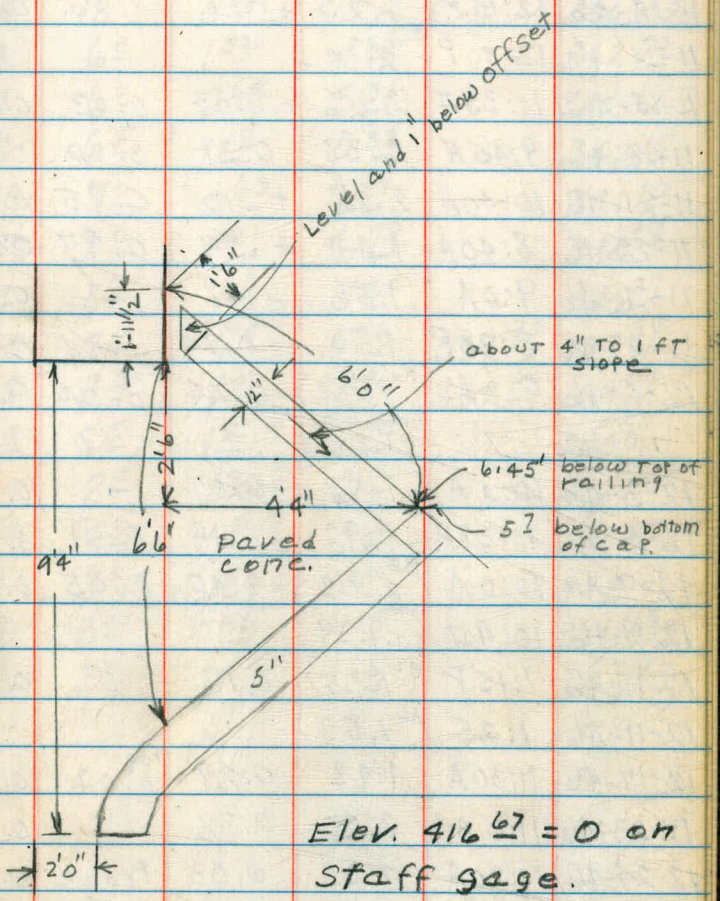


Changed this design and used 3/4" pipe embedded in concrete footing
Bracket slotted into and riveted-top of pipe.

NOTES ON STATE HIGHWAY BRIDGE #5782
ALSO MARKED A. 7.86



ELEVATION



PLAN

Elev. 416 67 = 0 on staff gage.
Brass cap - S.W. wing wall of Bridge
Elev. 424 80

Continued from Page 79

			Diff	Rain ins	Evap. Period	Evap. Cum
11-13-46	12:30 P.	AL. 1.96				
11-14-46	12:15 P	BL 0.25	+ 1.71	1.76	0.05	6 73
11-14-46	12:30 P	AL. 2.10				
11-15-46	11:35 A	2.07	+ 0.03	0.03	0.00	6 73
11-18-46	9:45 A	2.38	0.31	0.00	0.31	7 04
11-21-46	10:40 A	2.28	+ .10	0.25	0.15	7.19
11-25-46	8:40 A	1.49	+ .79	0.97	0.18	7.37
11-26-46	9:0 A	1.56	- .07	-	0.07	7.44
11-27-46	3:30 P.	1.70	- 0.14	-	0.14	7.58
12-2-46	9:0 A	Rule 1.94	- 0.24	Fog 0.04	0.28	7.86
"	"	Hook Ga. -1.66				
12-3-46	10:0 A	1.73	- 0.07	-	0.07	7.93
12-6-46	1:15 P.M	1.92	- 0.19	0.01	0.20	8.13
12-9-46	10:0 A	BF 2.02	- 0.10	0.05	0.15	8.28
12-9-46	10:40 A	AF C.T. 1.39				
12-11-46	1:15 P	BL 1.55	0.16	0	0.16	8.44
12-11-46	1:25	AL 1.59				
12-17-46	11:30 A	1.88	0.29	Fog 0.02	0.31	8.75
12-23-46	11:0 A.	2.20	0.32	-	0.32	9.07
12-24-46	10:20 A	2.23	0.03	trace	0.03	9.10
12-26-46	3:55 PM	1.93	+ 0.30	0.34	0.04	9.14
12-28-46	11:55 AM	1.29	+ .64	0.75	0.11	9.25
12-30-46	12:0 N	BF 1.37	- 0.08	—	0.08	9.33
"	12:45	AF 1.17				
1-8-47	9:30	2.12	- 0.95	-	0.95	10.28

CT = cleaned tank See Pg 73

About 2150' W x 320' N from S.E. Cor. Sec. 31, T12S R1W. 76.
New 3/4" Test Well - driven 3/15/48
So'ly side Valley - Line in Tpee and White house
green Roof on hill - 50' from toe of motor.
18' of pipe Top of ab gr.

3-15-48	18'	0 55	17 45	( )	* 330.02
4-13-48	6	1 32	4 68		342 79
5-20-48	6	0 69	5 31		342 16
6-15-48	6 5	1 18	5 32		342 15
7-15-48	7	0 63	6 37		341 10
8-13-48	8	1 21	6 79		340 68
9-17-48	8	0 8	7 20		340 27
10-15-48	8	0 5	7 50	339 97	339 97
11-18-48	8 5	1 0	7 50	339 97	339 97
12-17-48	8 5	1 2	7 30		340 17
1-18-49	8	1 3	6 7		340 77
2-21-49	4	1 8	2 2		345 27
3-16-49	3	1 5	1 5		345 97
4-15-49	3	1 55	1 45		346 02
5-18-49	3	1 35	1 65		345 82

* Head not yet established after drilling

Levels of 2-9-49 City of San Diego
M.P. = Top of 3/4" Cap = El 347.47
Set BM on Willow root 7.5 of well X_{208} - 347 57

9-12-46 Escondido Mut. Water Co. drilling on Bradbury ranch.

Page 25 Book #412 F 12" well - 600' E of Bradbury
El. T.C. - 356 32/100 Gr. 354'

T.C. Gr.
Elev 353 55/100 351 7/10 Escon. M.W.Co 12" well
450'E x 75'N. of + Road west end Valley
7-15-47 6°-0 48/100 = 5 52/100

Outlet Gaging Station
Elev. Brass Cap = 333 73/100
2' on Staff Gage = 328 89/100 or 326 89/100 staff gage = 0 on

3-15-48	11°	0 80/100	10 2/10	352.48
4-13-48	11°	1 25/100	9 75/100	52.93
5-20-48	12	1 15/100	10 85/100	51.83
6-14-48	12°	1 36/100	10 64/100	52.04
7-16-48	12°	1 22/100	10 78/100	51.90
8-13-48	12°	0 69/100	11 31/100	51.37
9-16-48	12°	0 95/100	11 05/100	51.63
10-15-48	12°	1 18/100	10 82/100	51.86
11-19-48	12°	0 57/100	11 43/100	51.25
12-17-48	12°	0 67/100	11 33/100	51.35
1-18-49	13	0 30/100	12 70/100	349.98
2-15-49	12°	0 95/100	11 05/100	51.63

11/11/49 9°-0 8/100 = 8 92/100 - 270' E. Bradbury fence Cor + 335' E Bradbury well.

from page 26 - H. C. Ballard

3-16-49	12° 6	1 55/100	10 45/100	352 23/100
4-14-49	11°	0 64/100	10 36/100	352 32/100
5-18-49	12°	2 06/100	9 94/100	352 74/100

See Book #2 Page-22

RAINFALL RECORD
San Pasqual Valley

Location
2450'W x 1400'S of NE Cor. Sec 32 T.12S., R 1 W.

1945 Date	Inches	Cumulative ins
Read on 6th 2-3 and 4	0.70	0.70
2-12 ice	0.28	0.98
2-16	0.16	1.14
2-24	0.02	2 day fog 1.16
3-14	0.16	1.32
3-19	0.78	2.10
3-20	0.41	2.51
3-28	0.26	2.77
3-29 Mon	0.01	2.78
3-30 and 4-1	1.55	4.33
4-6	*0.13	4.46
4-7	0.23	4.69
4-17	T	fog
5-10-11	*0.10	4.79.
10-1-46	0.15	0.15
10-2-46 4:10 P.M.	0.02	0.17
10-4-46 9:00 A.M.	0.48	0.65
10-16-46	0.06	0.71
10-17-46	0.02	0.73
10-28-46	0.52	1.25
10-29-46	0.02	1.27
11-8-46	0.21	1.48
11-12-46	0.03	1.51
11-13-46	0.52	2.03
11-14-46	1.76	3.79
11-15-46	0.03	3.82
11-21-46	0.25	4.07
11-23-46	0.97	5.04
12-2-46	0.04	5.08
12-6-46	0.01	5.09
12-7-46	0.05	5.14
12-17-46 fog	0.02	5.16
12-23-46	trace	
12-26-46	0 34/50	5 50/25
12-27-46	0.75	6 25
1-13-47	0.04	6.29
1-28-47	trace	
1-29-47	0.25	
2-9-47	0.15	
2-17 47	0.08	
2-18-47	0.16	
3/2/47	0.05	
3/4/47	0.38	
3/5/47	0.14	
3/20/47 1:45 P.M.	0 37/50	

*Measured 2 P.M. Rain in early AM.

*Mist and fog.

Date	time	Pan Readings Inches Hook Gage	Diff.	Rain ins	Evap.	Cum
10-1-46	12:30 P.	0.68 F	Begin Record			
10-2-46	4:10 P.	0.90	-0.22	0.02	0.24	0.24
10-4-46	9:0 A	0.70	+0.20	0.48	0.28	0.52
10-6-46	12:10 P.	1.10	-0.40	trace	0.40	0.92
10-7-46	11:35 A	1.25	-0.15	0	0.15	1.07
10-9-46	2:20 P.	1.70	-0.45	0	0.45	1.52
10-11-46	12:15 P.	2.20	-0.50	0	0.50	2.02
10-14-46	10:45 A	2.90	-0.70	0	0.70	2.72
10-16-46	8:45 A	3.13	-0.23	0.06	0.29	3.01
10-17-46	10:0 A	3.22	-0.09	0.02	0.11	3.12
10-18-46	11:10 A	3.38	-0.16	0	0.16	3.28
10-21-46	8:55 A	3.80	-0.42	0	0.42	3.70
10-22-46	2:35 P	3.90	-0.10	0	0.10	3.80
10-24-46	2:45 P	4.26	-0.36	0	0.36	4.16
10-28-46	10:30 A (R)	4.15	+0.11	0.52	0.41	4.57
10-30-46	9:0 A	4.20	-0.05	0.02	0.07	4.64
10-31-46	4:0 P	4.37	-0.17		0.17	4.81
11-1-46	3:0 P	4.45	-0.08		0.08	4.89
11-5-46	10.50 A	B.F. 5.50	-1.05		1.05	5.94
11-5-46	11:05 A	A.F. 1.30				
11-8-46	10:00 A	1.56	-0.26	0.21	0.47	6.41
11-12-46	10:0 A	1.80	0.24	0.03	0.27	6.68
11-13-46	12:20 P	BL 1.28	+0.52	0.52	0.00	6.68
11-13-46	12:30 P	AL 1.96				

F-flow from ... to ... of filling

BL = Before lowering AL = After lowering
B.F. = Before filling A.F. = After filling.

Temperature Max	Min	Set.	Read	Wind Miles	Direction

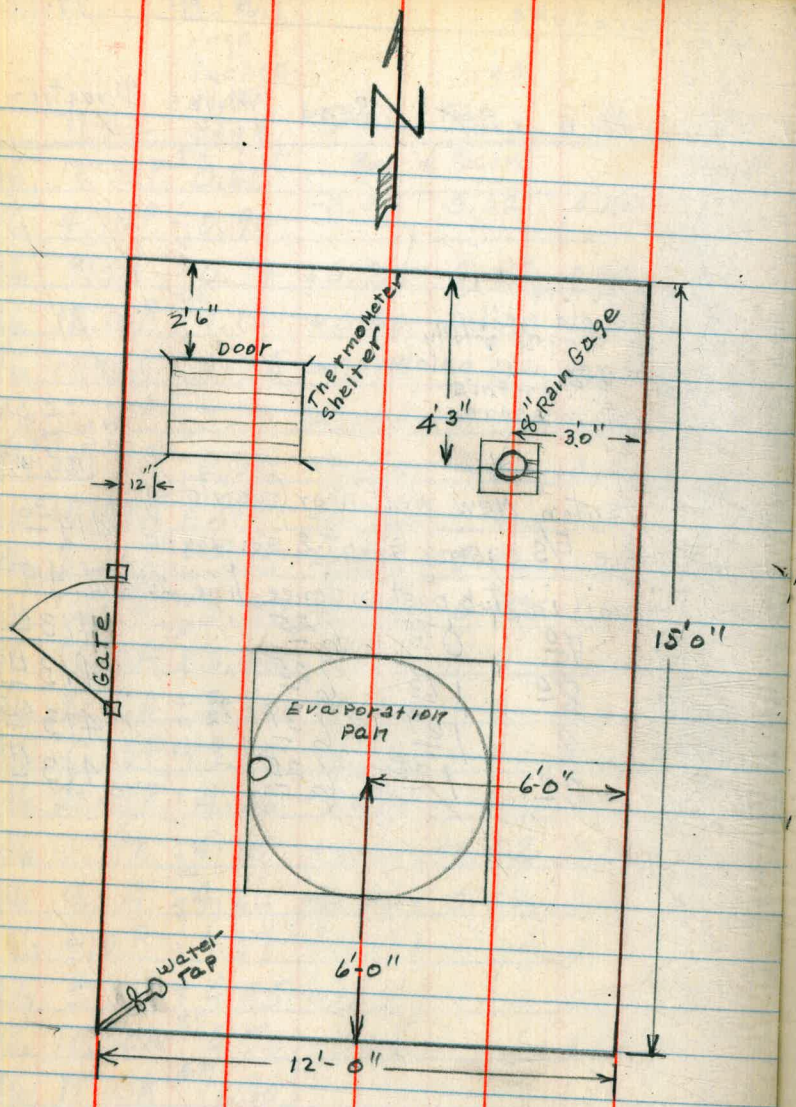
* For possible future reference. T.C. old well 150' towards Hwy 78 or N'ly from Fenton new well below Eley. 418 8/ P.P. on this well can not measure.

SE fairly strong 125, 1W. 34A

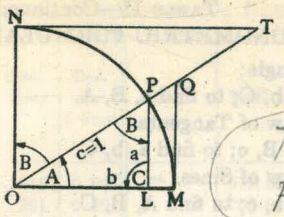
Turbine pump	Fenton	New well near Guejito Cr.			
El. M.P. Hole E/S casing about 2' ab. ground					419 36
B.M. 20d mail in stub post in fence line 25' SE. 419 25					
2-15-49	7°	0 75	6 25		413 11
3-16-49	8°	1 75	6 25		413 11
4-14-49	8	1 69	6 31	ft2	413 05
5-17-49	8°	1 75	6 25		413 11

continued page 76

(R) Raining at time of obs.



SKETCH LAYOUT FOR METEOROLOGICAL STATION



84 3/252

Truscon Paratex

TABLE II

TRIGONOMETRIC FORMULAE

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$c = OP = OM = ON = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2}A = \sqrt{\frac{1 - \text{Cos } A}{2}} \qquad \cos \tfrac{1}{2}A = \sqrt{\frac{1 + \text{Cos } A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

Law of Sines $\dfrac{\sin A}{a} = \dfrac{\sin B}{b} = \dfrac{\sin C}{c}$

Law of Cosines $c^2 = a^2 + b^2 - 2ab \cos C$

Law of Tangents $\dfrac{a+b}{a-b} = \dfrac{\tan \frac{1}{2}(A+B)}{\tan \frac{1}{2}(A-B)}$

Test well #49

Gr. El. - 437 7/10

M.P. = 438 75/100

L.H. Lary Hill

Phone Bayview. 6488

Cape May - 4830½

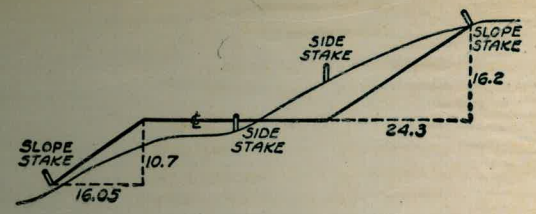
Wilken, S.D. Water Authority

7/11/47 { Bob Rainey
Nienow (Red)
Bob Baker

Deg.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

Deg.



Distances from Side Stakes for Cross-Sectioning

Slope 1½ 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	71.25	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

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ 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.