

LOG OF CORE DRILL HOLES WARNER DAMSITE
(Lower Site)

Drill Hole No. 1

0'	0"	
54'	0"	Soft Granite
		Quartz
54'	4"	
		Soft Granite
59'	6"	
		Hard Granite
64'	8"	
		Soft Granite
67'	0"	
		Quartz
67'	6"	
		Soft Granite
68'	6"	
		Hard Granite
83'	6"	

Drill Hole No. 2

0'	0"	
3'	9"	Sand & Gravel
32'	6"	Hard Granite

Drill Hole No. 3

0'	0"	
128'	0"	Soft Granite
131'	0"	Hard Granite

Remarks: Passed through quartz seams at
50', 61' and 80'.

PAMO DAMSITE "A"

Hole No. 1

0'	0"	
8'	6"	Sand, gravel and small boulders
18'	6"	Solid granite 100% core
19'	10"	Quartz seam 100% core
41'	0"	Solid granite 100% core

Remarks: Lost no water.

Hole No. 2

0'	0"	
10'	0"	Sand and gravel
24'	0"	Sand, gravel and small boulders
52'	0"	Hard granite 100% core

Remarks: Lost no water.

Hole No. 3

0'	0"	
3'	0"	Earth and boulders
11'	0"	Decomposed granite in place.
13'	6"	Granite boulder
14'	6"	Decomposed granite in place
18'	0"	Granite boulder
21'	0"	Decomposed granite in place
25'	6"	Granite boulder
28'	3"	Decomposed granite in place
58'	3"	Hard granite 100% core

Remarks: 31' 3" to 31' 6")
37' 0" to 40' 0") 75 % core.
52' 0" to 53' 0")

Lost no water.

PAMO DAMSITE "A" (Continued)

Hole No. 4

0' 0"	Soil
2' 0"	Decomposed granite in place
13' 6"	Granite boulder
15' 0"	Decomposed granite in place
52' 0"	Granite making 30% core.
60' 0"	Hard granite 100% core.
66' 0"	Decomposed granite in place
72' 0"	Hard granite 100% core
82' 0"	Granite 10% core
83' 0"	Hard granite 100% core
100' 0"	

Remarks: Lost water at 52' 0" in a crevice.

Pamo Dam Site Dr. Scaled.
 X-sect.
 Pamo Dam Site Dr. Scaled.

AEV	STW	SR
32'	-1 ✓	32'
50'	-0+50 ✓	53' ✓
80.5'	0+00 ✓	55'
94	0+50 ✓	92.5'
103.5	1 ✓	106
120.5	+50 ✓	119
129	2 ✓	124
116	+50 ✓	118
142	3 ✓	116
135	+50 ✓	130
168	4 ✓	143
185	+50 ✓	161
199	5 ✓	195
226	+50 ✓	215
230	6 ✓	220
227	+50 ✓	224
226	7 ✓	234
226	8 ✓	234
223	9 ✓	230
224	+25 ✓	229
246	+50 ✓	228
250	10+00 ✓	228
238	+50 ✓	256
239.5	11 ✓	258
236	+50 ✓	257
205.5	12 ✓	244
183	+50 ✓	228
167	13 ✓	217
157	+50 ✓	211
150	14 ✓	206.5
143	+50 ✓	200
134.5	15 ✓	177
127	+50 ✓	166
122	16 ✓	147
116	+50 ✓	139.5
107	17 ✓	134

Scaled from X-sect. of 25 to slope
 plotted 10 to 1"

N	<u>Sta.</u>	S
97	17 +50	119
86	18	104
68.5	+50	88
53	19	71
44	+50	64
41.5	20	67
48	+50	80
55	21	131
63	+50	128
75	22 #	86
86	+50	63
98	23	47
47	+50	30
23	24	15
00	+25	00

Fanno Dam site D

Calc. Top of slope

from Xsect. notes.

~~RAM~~

Scaled.

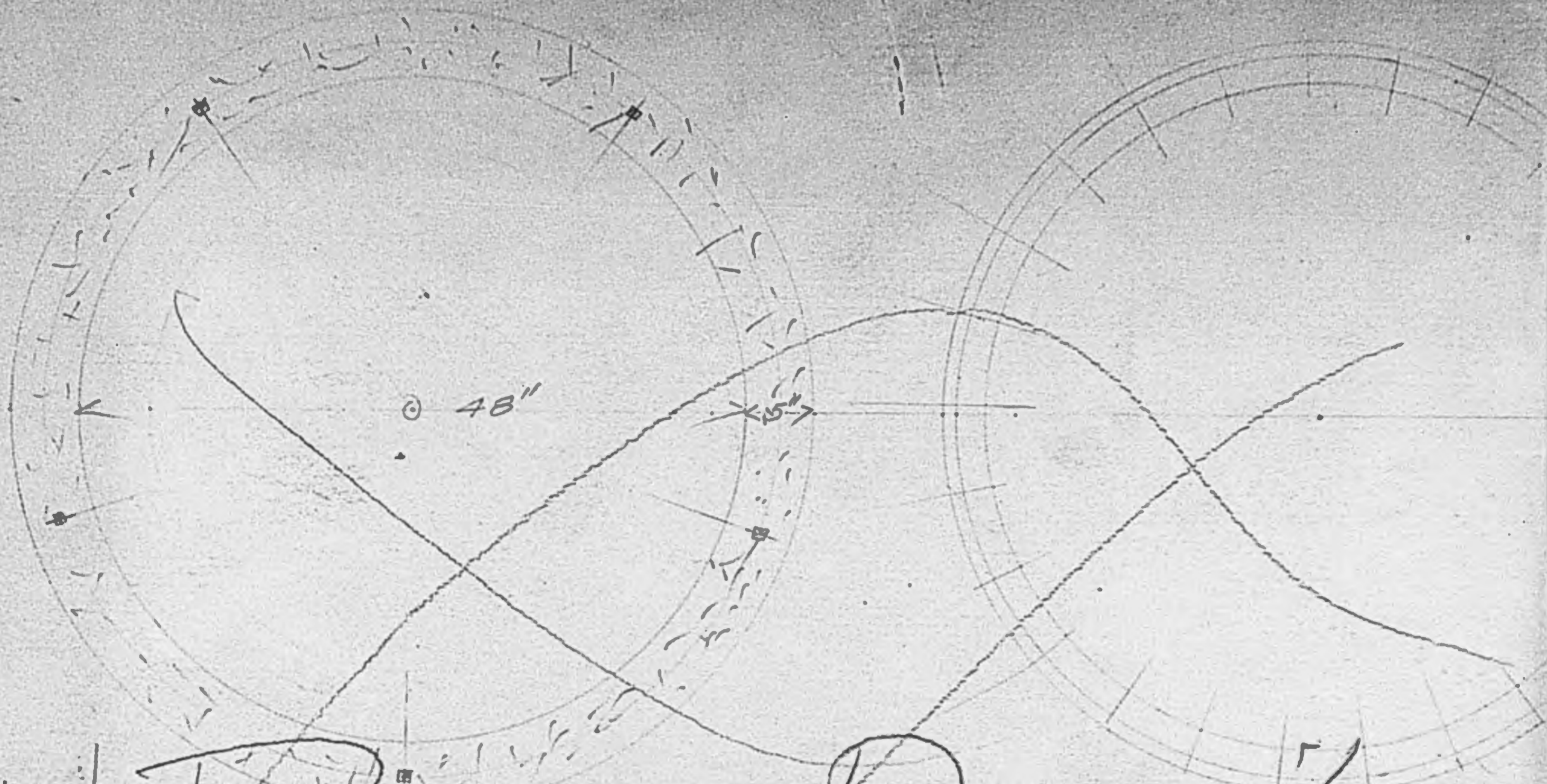
1" = 10' Plat.

Pamo Reservoir above Damsite "D"

Contour	Acres Flooded	Average Area	Depth between Contours	Volume bet. Contours. Acre feet.	Maximum Depth of Water.	Total Volume of Water. Acre feet.			
915	00	1.67	5'	8.3	00				
920	5.0	16.75	10'	167.5	5'	8.3			
930	28.5	38.6	10'	386	15'	175.8			
940	48.7	66.55	10'	665.5	25'	561.8			
950	84.4	108.15	10'	1081.5	35'	1227.3			
960	131.9	159.4	10'	1594	45'	2308.8			
970	186.9	233.65	15'	3504.8	55'	3902.8			
985	280.4	298.45	5'	1492.3	70'	7407.6			
990	316.5	330.95	5'	1654.8	75'	8899.9			
995	345.4	363.9	5'	1819.5	80'	10554.7			
1000	382.4	397.4	5'	1987	85'	12374.2			
1005	412.4				90'	14361.2			
			90' ✓	14361.2 ✓					

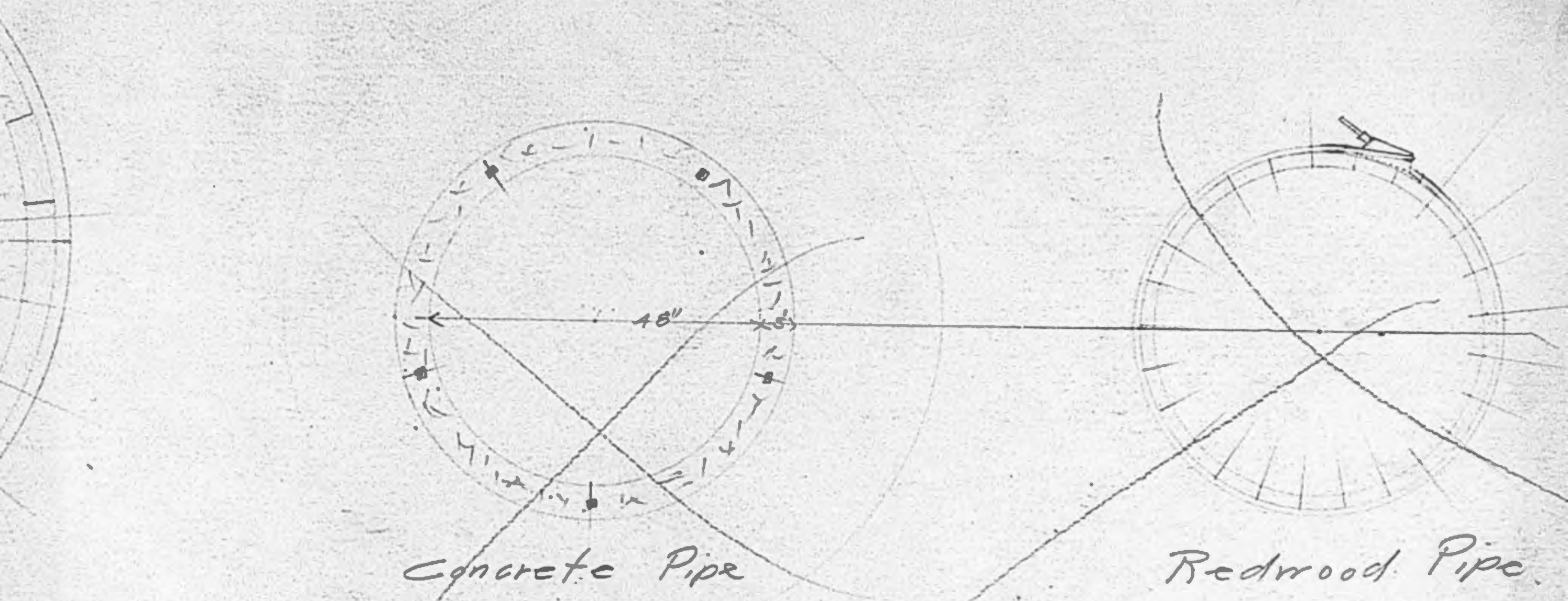
Included in this volume are 84 Acre feet at the west end of Dam below the 990' Contour. This portion is cut off from main part of Reservoir by a ridge of Elev. 990'.

970					
985					
JULY 24, 1913.					
P.M.					



Concrete Pipe. Dam Section Pipe.

8 1/2" 50 1/2" 11 1/2"



Concrete Pipe

Redwood Pipe

Pamo Damsite & Reservoir

N41°56'E	3552.2	26426		23738	
N51°41'E	330	19		3300	
S45°38'W	3782.2		26447		27038
N45°58'E	3782.2	26447		27038	
S0°22'E	26287		26286	168	
S89°40'W	27207		158		27206
		26447	26447	27206	27206
N89°40'E	27207	158		27206	
N6°22'W	2580	2580			16
N84°15'E	27328		2738		-27190
		2738			27206
S544'W	300.0		37393	1917	
			2985		300
S27°21'E	100.0		888	459	
S71°07'E	1450		469	1372	
S23°34'E	897.7		8228	358.9	
S3°15'W	2540.9		25368		14.41
N89°58'W	1159	0.1			1159
S0°30'W	7330.0		72297		640
N112°4'W	10762.8	to 1/4 cor.			
S44°08'E	2060		1335	1542	
S35°36'W	260.0		2114		1512
N5°34'W	3453	3453	3180		35
					1541

C	D	N	S	E	W	N+S	E+W
S15°51'W	442.6		4258		1209	2646.6	3206.8
S8°19'W	145		1435 ✓		1210	2220.9	3085.9
S35°19'E	750		612 ✓	434		2016.4	3408.3
S28°59'W	2050		1793 ✓	434	993	1836.8	4300.90
S13°43'W	170		1652		403	1671.6	-2968.2
S37°33'W	3420		2711 ✓		2084 ✓	1400.5	42760.0
S8°17'E	300		2969	432		1103.6	42853.5
S3°12'W	216		2157	1122	121	887.9	2791.4
S34°20'W	80		661		451	821.8	2741.3
S11°34'W	274.9		2693		551	552.5	2691.2
S13°25'E	219.9		2139	510		338.6	2742.0
S19°05'W	169.9		1606		555	1780	2687.2
S38°27'W	191.8		2468.6	1376	6577		
			1502		1193	427.8	2567.9
S3°12'W	2570		2566		143	-225.5	2553.6
S0°05'W	2130		2130		122	-441.8	2551.4
S22°53'W	2350		2165		914	-658.3	2464.8
S3°10'E	3760		3754		211	-1033.7	2481.1
S17°27'W	4549		4340		1364	1467.7	2344.7
S13°06'E	271.0		2639	614		1731.6	2406.1
S8°04'E	159.9		1583	224		1889.9	2428.5
S30°04'E	2120		1835	1052		2073.4	2533.7
S6°54'W	177.0		1757		213	2249.1	2512.4
S26°03'E	2040		1833	896		2432.4	26020
S2°19'W	2770		2768		162	2709.2	2585.8
S47°09'E	1220		830	894		2792.2	2675.2
S2°28'W	1250		1249		54	2917.1	2669.8
S11°14'E	253.0		2482	49.3		3165.3	2719.1
S21°21'W	219.9		2048		801	3370.1	2639.0
S10°58'E	143.9		1413	270		3511.4	2666.0
S49°08'E	3257		2131	2463		3724.5	2912.3
S35°36'W	260		63710	8493 ✓	11803 ✓	3935.4	2760.9
			2114			1514	
						2950	

	N	S	E	W
N89°40'E 5000	29		5000	
S		63710		2950
		29	3050	
2°45' 6375.5		6368.1		
N49°08'W 3265				
N50°28'E 4157.9	26466		32068	
		63710		2950
N49°08'W 321.5	2103			2431
N37°13'E 4412.7	35141			26689
	63711.0			32070
S37°13'E 4412.7		35141	26689	
S49°08'E 321.5		2104	2431	
N38°01'W 4727.5	36245			29116
		37245	29120	
N89°40'E 500	29		5000	
		24686		520.1
		29		20.1
		24557		
N41°56'E 3552.2	26426		23738	
N89°40'E 830	48		8300	
		23080		4644
S19°05'W 548		518		179

Lamo
~~*Lamo*~~
Road

Course	Dist	North	South	East	West
N0°22'W	3951.5	3951.4			253
N89°40'E	2355.6	13.7		2355.6	
S37°38'E	420.6		3331	2568	
S89°40'W	223.0		1.3		223.0
S0°35'E	987.8		987.7	1.0	
S12°34'W	242.0		236.2		52.6
S42°16'W	2880.0		2131.3		1937.0
S53°30'W	249.4		148.3		200.5
S8°57'W	28.5		28.2		4.4
South	986		986		
West	162.9				17.6
		3965.1	3964.7	2622.4	2622.4
N41°56'E	3552.2	2642.6		2373.8	
N35°28'E	4458.9	3631.6		2587.2	
N0°22'W	3951.5	3951.4			253
N89°40'E	2355.6	13.7		2355.6	
N30°27'E	4599.5	3965.1		2330.3	
N41°56'E	3552.2	2642.6		2373.8	
N0°35'W	987.8	987.8			1.0
N89°40'E	223.0	1.3		223.0	
N37°38'W	420.6	3331			256.8
S30°27'W	4599.5		3965.1		2330.3
		3964.8	3965.1	2596.8	2597.1
N62°24'E	1030				
S88°24'E	2316.4				
N30°27'E	4599.5	3965.1		2330.3	
S89°40'E	223.0		1.3		223.0
S0°22'E	987.8		987.8		
S0°22'E	2634.2		2634.2		
N41°56'E	3552.2	2642.6	2642.6	2373.8	
		2634.2	1.6	2370.8	
		8.4			

Power House
3 1/2 to PLIND
34/35 T115P1 E

16.0
16.5

972.98
7.79
987.77
6.27
1.51

1320
1830
490

6219.9
248.2
6468.1

	N	S	E	W
N39°05'W	45170	35062		2847.7
N50°28'E	41579	2646.6	32068	
S89°40'W	500.0	29		50000
S1°19'E	6150.0	61500	14.1.2	
	61528	61529	33480	3349.7
S39°05'E	45170	350.62	2847.7	
N49°08'W	105.2	688		796
N38°58'W	44134	34371		27685
		35059	28481	28481-
S11°34'W	274.9	269.3		55.1
S13°25'E	2199	2139	51.0	
N0°29'E	4832	4832	41	
		4832	551	
N89°40'E	5000	29	500.0	
S15°51'W	442.6	4258		1209
N0°28'E	24658	24657	20428	1376
		24686	201	5368
			6577	6577
N79°51'E	8868			
N50°28'E	41579	26466	32068	
		20428	1376	5368
		4258		1209
N19°05'E	1342	1268	439	
S83°38'W	27476	3	3047	27306
		27734	27733	33883
			33883	33883

	N	S	E	W	S-	W-
S11°14'E	253	2482	493		62199	192.4
S21°21'W	219.9	2048		801	64681	1431
S10°50'E	143.9	1413	27.0		66729	232.2
S49°08'E	325.7	2131	246.3		68142	-1962
					7027.3	+ 50.1
S43°22'E	1630	1185	1119			
S81°04'E	970	151	958			
S25°55'E	4121	3712	1804			
S15°51'W	1574	1514	3881	430		
		656.2	430		6371.1	W2950
S89°40'W	6371.1	29	2950	5000		
S1°51'E	6371.5	62682	2055			
		6271.1				
	6371.1	6371.1	2950			
N41°56'E	3552.2	26426	23738			
N89°40'E	48	6371.1	8300	2950		
N49°08'E	187.9	1229		1421		
N50°28'E	4157.9	26466	32068			
N49°08'W	1879	1229	6371.1	2950		
				1421		

11072
9148
1924

111.9
958
1804
3881
5267
9148

11072
5267
5825

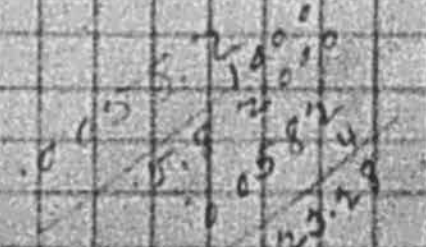
1124
492
1431

S 41° 56' W	3552.2		2642.6		2373.8	
N 0° 22' W	2634.2	2634.2			168	
			2634.2		2390.6	= 89° 48'
			8.4			
N 0° 35' W	987.8	987.8			100	
N 89° 40' E	2230	13	2230			
S 37° 38' E	4127		3269	2519		
S 43° 22' E	1630		118.5	1119		
S 81° 04' E	970		15.1	95.8		
S 25° 55' E	412.1		3712	1804		
S 79° 51' W	886.8	1563			8729	
N 41° 56' E	3552.2	2642.6		2373.8		
N 79° 51' E	886.8	1563		8729		
			5715.1	5267	11072	
S 21° 21' W	2530		2356		921	
S 10° 50' E	143.9		141.3	270		
S 49° 08' E	325.7		213.1	246.3		
= N 39° 05' W	4517.0		6505.1			
N 41° 56' E	3552.2	2642.6		2373.8		
N 89° 40' E	8300	48		8300		
S 50° 28' W	4157.9	2647.4	2646.6		3206.8	

Road Survey tie to 3435 3/2 T.I.S.R.I.E.

833
330
503

58250
29100



Traverse for tie S.W. Cor. Power House tract to $\frac{34}{35}$ P.H.
T.I.S.R.I.E. J.N. Moore.

Sta	Dist	Bear	Lat Diff		Long Diff	
			N	S	E	W
27126 34135	1783.5	N 89° 40' E	9.1		1560.5	
26+27.9	80.9	S				
25446.5	179.6	S 32° 26' W		151.6		
23+66.9	675.3	S 22° 21' E		624.6	256.8	
16+91.6	7003.9	S 37° 38' E		795.0	613.0	
6+87.7	223.0	S 89° 40' W				
N.W. Cor. P.H. site	987.8	S 0° 35' E		987.7	10.1	
S.W. Cor. = 6100 64101 P 40	242.0	S 12° 34' W		236.2		52.6
2+42	2880.	S 42° 16' W		2131.3		1937.0
31+22	249.4	S 53° 30' W		148.3		200.5
33+71.4	2316.0	N 88° 24' W	64.7			2315.1
	103.0	S 62° 24' W		47.7		91.3
			73.8	522.4	2440.4	

incomplete

T
T.I.S.R.I.E

Plat of Tract
in Section 35 T.I.S.R.I.E
conveyed by
PAMO DAIRY & STOCK CO.
VOLCAN LAND & WATER CO.
also showing Pt. of Way.
Scale 1" = 400 ft.

Course	Traverse of Road from		Power House Site		S of Sec Cor. 3 M. S.		
	Dist	North	South	East	West	North	West
0+00							
2+157.12							
S 13°22'E	1630		1185	1119			
S 81°04'E	97.0		151	958			
S 25°55'E	412.1		371.2	<u>1804</u>			
S 15°51'W	600.0		577.2		1639		
S 8°19'W	145.0		1435		210		
S 35°19'E	750		612	434			
S 28°57'W	2050		1793		993		
S 13°43'W	1700		1652		403		
S 37°33'W	3420		2711		2084		
S 8°17'E	3000		2969	432			
S 3°12'W	2160		2157		121		
S 34°20'W	800		661		451		
S 11°34'W	2749		2643		551		
S 13°25'E	2199		2139	5110			
S 19°05'W	1699		1606		555		
S 38°27'W	1918		<u>1502</u>		1193		
S 3°12'W	2570		327.50		143		
S 0°35'W	2130		256.6		353.10		
S 22°53'W	2350		353.16		22		
S 3°13'E	3760		213.0		93.65		
S 17°27'W	454.9		374.46		914		
S 13°06'E	2710		216.3				
S 8°04'E	1599		158.3	224			
S 30°04'E	2120		193.5	105.2			
S 6°54'W	1770		175.7		213		
S 26°03'E	2040		183.3	89.6			
S 20°19'W	2770		276.8		162		
S 47°19'E	1240		830	894			
S 2°23'W	1250		124.9		54		
S 11°11'E	2530		114.9	526.7	110.7		
			115.9	963.8	110.7		

Continued Sheet No 2					
Course	Dist	North	South	East	West
S 41°21'W	2199		4156		43.366831 = 1867
S 10°50'E	1439		1345	512	468176 = 1355
S 29°08'E	325.7		1671	279.6	469847 = 1441
S 5°44'W	300.0		299.2	22.3	472809 = 1664
S 27°21'E	100.0		79.5	60.7	473634 = 2271
S 71°07'E	1450		224	43.3	473858 = 3704
S 33°34'E	897.7		748.0	496.3	481338 = 8667
S 64°5'E	2540.9		2523.3	298.6	486571 = 1653
N 79°25'E	502.3	298.6	2.0	443.8	483585 = 1659.1
N 66°28'W					

T. 12 S. R. 1 E End of Road to See P 1

~~Form~~

bk 101 p 38-39
bk 30 p 4-5

J. M. M.

	Sta	Dist	Bear	Lat N	Diff S	Long E	Diff W
Cor P T. 12 S. R. 1 E	0+00	17830.0	N 0° 03' E	7230.0	—	6.4	—
bk 101 p 38-39	73+30	115.9	S 89° 58' E	—	0.1	115.9	—
	74+45.9 = 34+38.6	2540.9	N 3° 15' E	2536.8	—	149.1	—
bk 30 p 5	8+97.7	897.7	N 23° 39' W	822.8	—	—	358.9
0+00 End of Road = 82+32.9		92.5 10589.5	—	10589.6 10589.5	0.1	266.9	358.9 266.9 W 92.5
Closing line Cor to End of Road		10589.9	N 0° 30' W				
	S 89° 40' W	2355.6		137		2355.6	
	S 0° 22' E	2654.2		39514		253	
	N 30° 27' E	4599.5		39651		23303	
				39651		23556	
	S 0° 22' E	26342		2629.1		162	
	N 41° 36' E	35522		26426		23738	
				291			
				13.5			
				2390.0			

PAMO POWER
Site

Sections also

Traverse of road Survey.

Panama Camp 6-12-13

Mr. W.S. Post

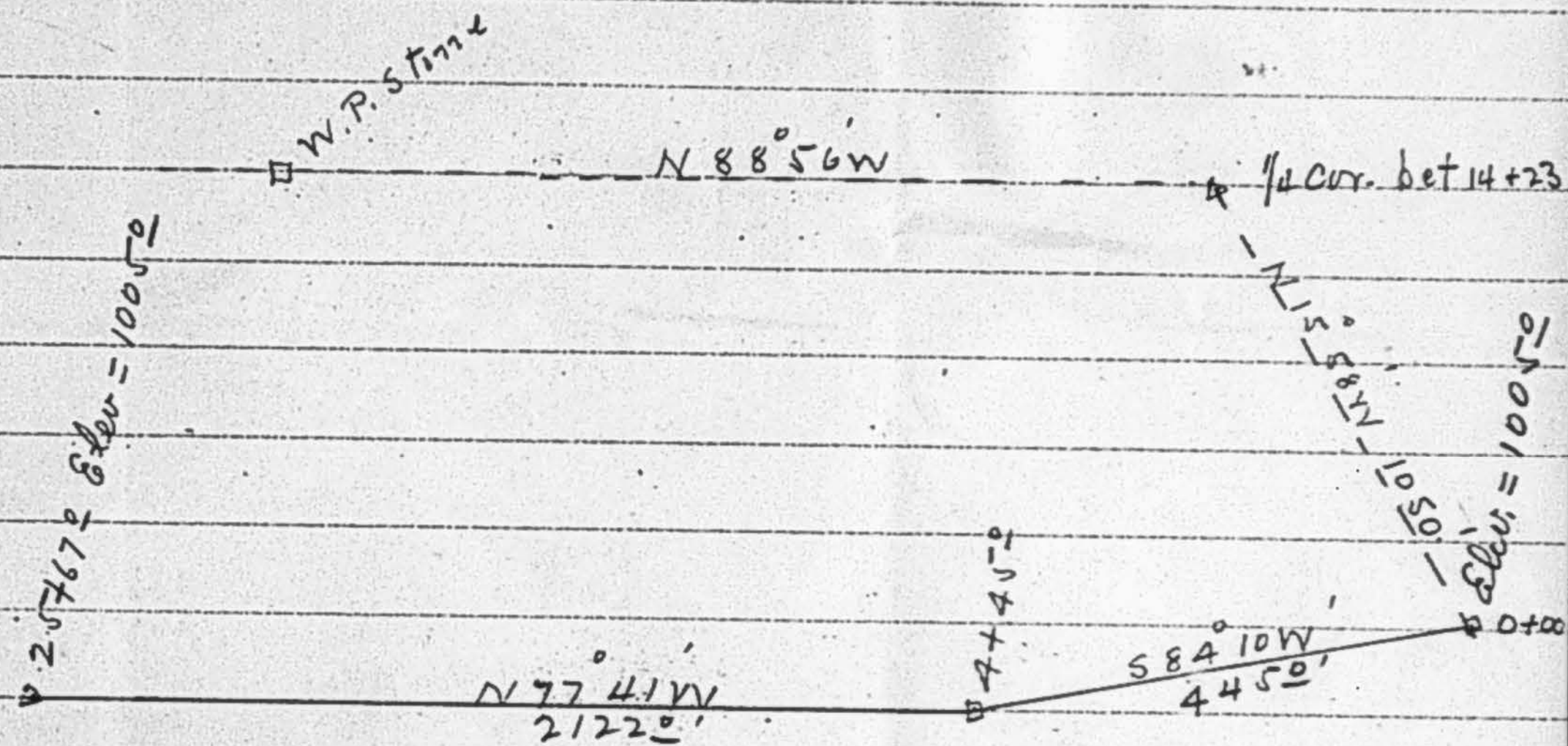
San Diego Calif

Dear Sir:

I am enclosing transit line of dam with level notes. We finished cross section same today + will commence retracing Adversous line tomorrow.

Your letter with notes rec'd this P.M.

Very respectfully
J. J. Holbert



Sketch of center line of dam. Note the original 0+00 point of dam was 1415' west of present 0+00 + levels + cross sections were run on that stationing. The stas. east of same are -0+50 - 1+00 - 1+415'

Level notes

2+75	east old 0+00	10352	1	968.9	3+035	978.6	6+50	916.5
2+50	"	10272	+50	963.2	+50	74.9	+70	19.0
2	"	10152	+55	62.9	4	63.6	7	19.2
1+415	end dam	10050	+75	654	+50	49.3	+80	19.2
-1		9972	2	68.7	5	32.8	8	19.3
-0+50		9905	+50	76.1	+50	23.9	+60	19.5
0+00		9832	+75	77.9	+80	20.1	9	19.2
0+50		975.3	3	78.3	6	15.8	+25	19.4

9+30	919.4	15+50	950.9	24+50	1008.9	
+50	08.2	+88	53.4	25	15.9	
+55	08.1	16	53.1	+50	25.4	
10	08.7	+50	55.9	26	32.4	
+12	08.9	17	59.6			
+15	10.4	+50	65.2			Test holes 6x6
+50	09.8	+87	70.2	#1	974.8	Top dec. Granite
+87	08.5	18	71.7		72.4	Bot. hole - softer.
92	11.2	+50	78.2	#2	14.7	Surface ground 8x8
11	11.9	19	85.7		08.5	Sand
+50	13.1	+50	90.8	#3	19.5	Ground 8x8
+65	12.9	+86	92.5		08.5	sand
+80	13.4	20	91.1	#4	08.1	surface water 8x8
+90	17.7	+50	88.0		08.5	ground
12	19.2	21	83.5		07.7	Bot. sand
+13	19.4	+50	76.8	#5	12.9	Surface ground 8x8
+25	20.3	+60	75.2		07.9	Bot. sand
+50	26.4	+80	65.1	#6	19.4	Sur. ground 8x8
13	34.4	22	62.0		14.6	Top dec. granite
+50	40.5	+50	78.4		10.9	Bot. Dec. " extend over 1/2 bottom pit balance sand.
88	44.7	23	87.1			
14	45.0	+50	93.8			
+50	46.5	24	1001.6			
15	48.8	+25	1005.0			and dam

#7	944.3	Surface ground	6x6
	35.5	Bot. 1' soil + hard pan	
		(not quite granite but near it)	
#8	953.4	Sur ground	6x6
	51.3	Top hard pan	
	49.1	Dec. granite	
	46.6	Bot. hole	
#9	970.2	Sur. ground	6"x6"
	68.7	Hard pan	
	67.1	Top dec. Granite	
	63.3	Bot. hole	
#10	992.5	Sur. ground	6"x6"
	90.3	Top dec. granite	
	85.1	Bot. hole	

These test holes are numbered from east to west. Day tell me he numbered them from west to east.

Test Pits at Pamo Dam Site

Nos	Stas.	Elev. Ground	Elev. Granite	Elev Bot. Pit	Remarks.
1	19+89	992.1	990.3	985.1	decomposed granite fair
	19+83	992.7	990.3	985.1	" " "
2	17+88	970.3	967.7	963.3	" " "
	17+82	970.3	966.7	963.3	" " "
3	15+90	953.9	949.6	946.6	" " "
	15+84	953.6	949.2	946.6	" " "
4	13+915	944.6		933.0	This pit is in hardpan;
	13+84	944.1		933.0	no granite was struck.
5	12+18	919.7	914.6	909.8	decomposed granite F.
	12+11	919.7	910.2	907.9	step left in $\frac{1}{2}$ pit.
6	11+675	913.0		907.9	} sand.
	11+615	912.9		907.9	
7	9+945	908.4			} $1\frac{1}{2}$ ' water in hole. } sand.
	9+86	908.4			
8	8+63	919.5		908.5	center pit. drill hole.
	8+59				
	8+55	919.5		908.5	
9	6+34	915.5		908.5	sand
	6+26	915.9		908.5	
10	4+84	937.8	935.6	932.0	to shelf
	4+76	940.2	937.2	913.6	to bottom

Nos	Sta	Elev ground.	Elev granite	Elev Bot Pit.	Remarks.
11	3+295	977.1	974.3	966.4	granite fair
	3+235	977.8	974.7	965.5	

6-20-13

N.B. sta correspond with center line of dam
sta numbered from W. to East.
Sta set every 50 ft apart.

Holbert's Notes on
Damsite.

Olson =

Pano Dam

I think profile of
as started will do for
present.

Have these reports
put on. Place elevation
figures also at disintegrated
granite etc. + join to by
--- lines the ~~surface~~
surface of disintegrated
granite. Post.

Parrish Camp 6-15-13
Mr. Wm S. Post

San Diego, Cal.

My dear Sir:

We found one of Mr. A's
B.M.'s + tied onto it

Elev. Alversons B.M. 975.84

" " " (our levels) 986.81

Their 175' contour seems to have been run
on an elevation of 974.0 or on the
985' contour-present levels.

Their level book does not give the
stations but all their pegs are set at
the same elevation 974'. In order to
make use of these levels we will have to
retrace the old line pretty accurately.
We have not been remarkably suc-
cessful so far.

However the 3x3 posts are in at
Stas. 154+84, 184+20, 227+67
(end of relocation - without correcting line -
Saturday evening) + at 270+26

The line bet. Sta. 154+84 + 227+67

will require re-running to make it a
fairly accurate re-trace.

It seems to me as though it
would be better to run the 1005'
contour around upper end of reservoir
rather than try to locate it by running
from present angle points.

Will continue line tomorrow leaving
the adjustment until a later.

Will a stadia line be sufficiently
close for upper end reservoir (1005' c).

Very respectfully

J. J. Holbert

Tech. Pit No. 13. Sta 0.0.

3 ft to decomposed granite.
5.6 to bottom, soft.

T.P. No. 12. sta 1+50

5.8 ft to lowest point of
decomposed granite.
6.9 to bottom, soft.

T.P. No. 11. sta 3+29.5

5.6 ft to lowest point of
decomposed granite.
10.7 ft to bottom of pit.
comparatively hard.

T.P. No. 10. sta 4+84.

3 ft to decomposed granite.
16.5 to bottom of pit.
comparatively hard.

T.P. No. 8. sta 8+63. 13 ft Sand & to black gumbo,

12 ft to water.

4 ft of gumbo.

2 ft of gravel.

Bored hole 6 ft deep.

Boring closed.

Test Pit No. 6 sta 11+67.5 - T.P. 5 ft deep, sand
Boring hole 0.5 ft sand (water) to Gumbo
3 ft of Gumbo to washed gravel
4.3 ft washed gravel to
coarse gravel and stones
1 ft " " " "
casing closed, too weak

Only one day on boring with results as
stated. I tried boring repeatedly till tools
were in shape.

on account of the tacey consistency
of the Gumbo it is impossible to pene-
trate it with light casing. I believe that
with common 4" iron pipe in 5 ft joints
with sleeves and valves and pump
boring could be continued satisfactorily, to
a great depth if necessary.

S. H. Case,

ALIGNMENT NOTES FOR 1005 FT. CONTOUR.

Sta.	Course	Dist.	Sta.	Course	Dist.
0	N 19° 30' W	326	54	N 1° 56' E	99
1	S 78° 34' E	222	55	N 38° 00' W	109
2	N 68° 21' E	172	56	N 22° 14' W	269
3	N 47° 27' E	104	57	N 0° 22' E	199
4	N 33° 25' E	123	58	N 17° 10' E	488
5	N 46° 28' W	179	59	N 40° 22' E	200
6	N 9° 28' E	72	60	S 55° 45' E	112
7	N 8° 11' W	135	61	S 9° 30' W	199
8	N 61° 49' W	287	62	S 76° 32' E	305
9	N 27° 57' W	201	63	S 8° 55' W	301
10	N 74° 29' W	99	64	S 22° 43' W	221
11	N 3° 22' W	127	65	S 35° 38' E	363
12	N 6° 04' W	167	66	S 27° 39' E	505
13	N 71° 43' E	248	67	S 10° 48' E	308
14	N 6° 22' E	275	68	S 4° 54' E	444
15	N 74° 44' W	130	69	S 15° 45' E	552
16	S 84° 53' W	141	70	S 12° 36' W	93
17	N 40° 16' W	264	71	S 76° 09' W	204
18	N 59° 15' W	98	72	S 38° 17' W	190
19	N 70° 40' W	96	73	S 5° 26' W	264
20	N 67° 02' E	250	74	S 8° 37' W	487
21	N 84° 51' E	228	75	S 3° 11' E	230
22	N 67° 56' E	101	76	S 42° 52' W	253
23	N 12° 11' E	125	77	S 15° 51' E	155
24	N 48° 11' E	136	78	S 34° 56' E	115
25	N 21° 13' E	79	79	S 9° 22' E	180
26	N 44° 09' W	214	80	S 10° 51' E	142
27	N 6° 00' E	188	81	S 53° 29' E	211
28	N 16° 05' W	604	82	S 60° 28' W	377
29	N 23° 04' E	195	83	S 48° 54' W	172
30	N 9° 10' E	153	84	S 56° 07' W	436
31	N 3° 54' W	148	85	S 37° 48' W	126
32	N 34° 28' E	156	86	S 10° 51' W	164
33	N 17° 23' E	77	87	S 35° 21' W	284
34	N 10° 28' E	91	88	S 5° 08' W	190
35	N 21° 37' W	436	89	S 36° 37' E	308
36	N 28° 44' W	358	90	N 74° 48' E	581
37	S 83° 11' E	174	91	S 5° 07' E	168
38	N 79° 09' E	163	92	S 20° 53' W	192
39	N 29° 03' E	132	93	S 38° 29' E	129
40	N 45° 54' E	288	94	S 23° 14' E	269
41	N 20° 44' E	258	95	S 49° 22' W	243
42	N 33° 11' E	213	96	S 68° 02' W	269
43	N 0° 14' E	218	97	S 56° 34' W	210
44	N 2° 17' E	240	98	S 1° 23' E	185
45	N 3° 33' W	214	99	S 47° 48' E	105
46	N 58° 23' E	419	100	S 66° 01' E	139
47	N 16° 17' E	740	101	S 23° 01' W	90
48	N 4° 28' W	505	102	S 63° 45' W	250
49	N 10° 14' E	221	103	S 42° 10' W	183
50	N 44° 50' E	254	104	S 9° 58' E	299
51	N 26° 50' E	595	105	N 84° 11' E	112
52	N 1° 09' E	271	106	S 51° 59' E	257
53	N 27° 29' E	570	107	S 8° 40' E	98
			108	S 19° 43' W	81

ALIGNMENT NOTES FOR 1005 FT. CONTOUR.

Sta.	Course	Dist.
109	S 22° 30' E	205
110	S 87° 13' E	222
111	S 55° 03' E	169
112	S 87° 16' E	241
113	N 69° 41' E	386
114	S 64° 28' E	129
115	S 6° 48' W	308
116	S 22° 19' W	161
117	S 54° 20' W	125
118	S 57° 14' W	205
119	S 24° 17' W	222
120	S 13° 03' W	340
121	S 3° 29' E	128
122	S 20° 00' E	78
123	S 15° 16' W	69
124	S 16° 22' W	243
125	S 5° 53' E	268
126	S 11° 19' W	194
127	S 6° 17' E	234
128	East End of Dam.	

TABLE OF BEARINGS AND DISTANCES OF THE 175 FT. CONTOUR LINE.

Beginning at a point 231 feet distant and S. 20° 40' E. from the 1/4 Section Corner between Sections 27 and 28, Township 12 South, Range 1 East, San Bernardino Base and Meridian, thence, (Var. 13° 40' East,) on true Course,

Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.
0								
1	N. 37° 45' E.	250	35	S. 86° 45' E.	140	69	N. 23° 00' E.	122
2	N. 68° 15' E.	150	36	S. 39° 15' E.	175	70	N. 22° 00' W.	165
3	N. 34° 15' E.	100	37	S. 66° 15' E.	188	71	N. 26° 00' E.	160
4	N. 17° 45' E.	200	38	S. 33° 15' E.	582	72	N. 7° 30' W.	356
5	N. 60° 45' E.	98	39	S. 76° 45' E.	95	73	S. 75° 00' E.	136
6	S. 66° 45' E.	150	40	N. 23° 15' E.	95	74	N. 51° 00' E.	110
7	S. 75° 30' E.	134	41	N. 1° 45' E.	150	75	N. 16° 30' E.	450
8	N. 76° 45' E.	78	42	N. 50° 15' E.	193	76	N. 14° 15' W.	305
9	N. 75° 15' E.	420	43	N. 2° 45' W.	202	77	N. 24° 15' W.	175
10	N. 54° 45' E.	138	44	N. 42° 45' W.	57	78	N. 34° 45' E.	220
11	N. 26° 45' E.	182	45	N. 5° 15' W.	135	79	N. 12° 45' W.	90
12	N. 2° 15' E.	122	46	N. 28° 45' W.	123	80	N. 37° 00' E.	350
13	N. 6° 45' W.	200	47	N. 26° 45' W.	164	81	N. 50° 00' E.	207
14	N. 50° 45' E.	208	48	N. 14° 15' E.	125	82	N. 69° 45' E.	246
15	N. 66° 45' E.	177	49	N. 10° 15' W.	162	83	N. 45° 15' E.	76
16	N. 23° 45' E.	153	50	N. 0° 15' E.	213	84	N. 33° 45' W.	150
17	N. 4° 15' E.	178	51	N. 57° 00' E.	200	85	N. 32° 15' W.	173
18	N. 39° 45' E.	337	52	N. 10° 00' E.	166	86	N. 75° 45' W.	93
19	N. 33° 45' E.	460	53	N. 4° 00' E.	107	87	S. 51° 15' W.	110
20	S. 54° 45' E.	125	54	N. 38° 30' E.	150	88	N. 44° 45' W.	300
21	N. 71° 15' E.	87	55	N. 18° 30' W.	188	89	N. 74° 15' W.	140
22	N. 39° 15' E.	206	56	N. 65° 00' E.	310	90	N. 7° 45' W.	170
23	S. 11° 45' E.	250	57	N. 5° 00' E.	265	91	N. 66° 45' W.	65
24	S. 64° 15' E.	161	58	N. 34° 30' W.	120	92	N. 28° 15' W.	96
25	S. 85° 45' E.	71	59	N. 50° 30' W.	178	93	N. 7° 45' W.	120
26	N. 71° 00' E.	270	60	N. 82° 00' W.	102	94	N. 87° 15' E.	160
27	N. 50° 00' E.	150	61	N. 45° 00' W.	286	95	N. 1° 45' W.	122
28	N. 75° 30' E.	132	62	N. 2° 30' E.	120	96	N. 17° 45' W.	168
29	N. 55° 00' E.	200	63	N. 73° 00' E.	144	97	N. 20° 15' E.	189
30	S. 61° 30' E.	193	64	N. 64° 15' E.	135	98	N. 89° 15' W.	216
31	S. 84° 00' E.	203	65	N. 37° 45' E.	240	99	N. 48° 30' W.	170
32	N. 76° 00' E.	77	66	N. 13° 15' W.	90	100	N. 16° 30' E.	153
33	N. 45° 00' E.	80	67	N. 51° 15' W.	150	101	N. 68° 00' E.	142
34	N. 75° 45' E.	325	68	N. 4° 15' E.	188	102	N. 52° 00' E.	140

Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.
103	N. 31° 30' E.	170	145	S. 37° 45' E.	176	187	N. 66° 45' E.	145
104	N. 20° 15' E.	136	146	S. 83° 15' E.	358	188	S. 73° 45' E.	188
105	N. 48° 15' W.	184	147	S. 26° 45' E.	200	189	S. 14° 30' W.	109
106	N. 9° 45' E.	133	148	S. 77° 45' E.	325	190	S. 43° 30' W.	180
107	N. 10° 00' W.	407	149	S. 16° 00' E.	415	191	S. 27° 00' W.	86
108	N. 13° 00' E.	197	150	S. 55° 30' W.	377	192	S. 40° 00' W.	557
109	N. 20° 00' W.	147	151	S. 22° 00' W.	135	193	S. 49° 30' W.	396
110	N. 59° 15' E.	356	152	S. 4° 30' E.	234	194	S. 58° 00' W.	420
111	N. 15° 45' W.	137	153	S. 65° 00' E.	156	195	N. 85° 00' W.	307
112	N. 65° 45' W.	279	154	S. 55° 00' W.	430	196	N. 71° 45' W.	174
113	N. 13° 15' E.	179	155	S. 17° 00' W.	88	197	N. 68° 00' W.	173
114	N. 1° 45' W.	78	156	S. 28° 00' E.	137	198	N. 80° 15' W.	132
115	N. 25° 30' W.	135	157	S. 7° 00' W.	200	199	N. 76° 15' W.	100
116	N. 11° 00' W.	188	158	S. 34° 45' E.	95	200	S. 89° 15' W.	160
117	N. 20° 30' W.	220	159	S. 75° 45' E.	216	201	N. 75° 45' W.	504
118	N. 30° 15' E.	162	160	S. 16° 45' E.	274	202	S. 54° 15' W.	98
119	N. 60° 45' E.	139	161	S. 55° 15' W.	350	203	S. 20° 15' E.	162
120	N. 35° 45' E.	387	162	S. 24° 45' E.	120	204	S. 35° 45' W.	198
121	N. 22° 45' E.	144	163	S. 42° 45' E.	178	205	S. 66° 45' W.	200
122	N. 38° 45' E.	222	164	N. 61° 45' E.	510	206	S. 79° 15' W.	430
123	N. 20° 15' E.	260	165	S. 46° 45' E.	190	207	S. 58° 00' W.	124
124	N. 3° 30' E.	157	166	N. 88° 15' E.	600	208	S. 30° 45' W.	110
125	N. 32° 00' E.	266	167	S. 30° 45' W.	662	209	S. 2° 45' W.	78
126	N. 70° 30' E.	285	168	S. 15° 45' W.	205	210	S. 31° 45' E.	152
127	N. 65° 30' E.	252	169	S. 1° 45' W.	320	211	S. 35° 45' W.	210
128	N. 18° 00' E.	297	170	S. 11° 15' E.	48	212	S. 11° 15' E.	487
129	N. 38° 00' E.	423	171	S. 13° 45' W.	337	213	S. 53° 45' W.	243
130	N. 5° 30' E.	477	172	S. 0° 15' E.	210	214	S. 18° 00' W.	102
131	N. 73° 00' E.	233	173	S. 34° 15' E.	100	215	S. 14° 30' E.	75
132	S. 71° 00' E.	308	174	S. 25° 45' W.	164	216	S. 58° 00' E.	175
133	S. 1° 15' E.	640	175	S. 1° 45' E.	276	217	S. 40° 00' W.	323
134	S. 17° 45' W.	438	176	S. 28° 15' E.	532	218	S. 5° 00' W.	175
135	S. 8° 45' W.	268	177	S. 57° 15' E.	685	219	S. 2° 45' E.	166
136	S. 13° 45' E.	172	178	S. 77° 15' E.	170	220	S. 77° 30' E.	136
137	S. 19° 15' W.	368	179	N. 85° 45' E.	255	221	S. 5° 30' W.	145
138	S. 52° 45' W.	276	180	S. 31° 45' E.	238	222	S. 3° 45' W.	196
139	S. 40° 15' W.	207	181	S. 57° 45' E.	116	223	S. 37° 30' W.	300
140	S. 4° 45' W.	187	182	S. 83° 30' E.	281	224	S. 17° 30' W.	350
141	S. 41° 00' W.	251	183	N. 67° 30' E.	193	225	S. 17° 30' E.	75
142	S. 66° 30' W.	404	184	N. 53° 45' E.	124	226	S. 83° 00' E.	378
143	S. 38° 45' W.	177	185	N. 41° 45' E.	224	227	N. 63° 30' E.	312
144	S. 13° 30' E.	78	186	N. 38° 45' E.	307	228	S. 89° 30' E.	278

Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.	Number	Course	Dist. in Feet.
229	S. 61° 15' E.	484	248	N. 29° 45' W.	270	267	S. 47° 30' W.	300
230	N. 75° 15' E.	104	249	N. 14° 45' W.	415	268	S. 15° 30' W.	673
231	N. 82° 15' E.	290	250	N. 20° 45' W.	298	269	S. 73° 45' W.	357
232	S. 39° 45' W.	213	251	N. 42° 15' W.	139	270	S. 6° 30' E.	342
233	S. 28° 15' E.	118	252	N. 6° 15' W.	291	271	S. 19° 30' E.	120
234	S. 77° 45' W.	183	253	N. 26° 00' W.	358	272	S. 35° 00' W.	115
235	S. 81° 45' W.	338	254	N. 44° 30' W.	295	273	N. 68° 00' W.	300
236	S. 67° 45' W.	84	255	N. 51° 30' W.	170	274	N. 87° 30' W.	120
237	S. 51° 45' W.	205	256	N. 55° 30' W.	555	275	S. 60° 00' W.	172
238	S. 53° 00' W.	457	257	N. 60° 00' W.	137	276	S. 38° 45' W.	333
239	S. 69° 45' W.	466	258	N. 78° 00' W.	75	277	S. 9° 30' E.	57
240	S. 49° 00' W.	912	259	S. 81° 00' W.	171	278	N. 71° 15' W.	520
241	S. 8° 30' W.	172	260	S. 21° 45' W.	64	279	S. 83° 45' W.	132
242	S. 65° 45' W.	364	261	S. 1° 00' W.	217	280	S. 73° 30' W.	280
243	S. 0° 45' E.	134	262	N. 76° 30' W.	265	281	S. 70° 00' W.	120
244	S. 41° 15' W.	103	263	N. 60° 30' W.	192	282	S. 53° 00' W.	62
245	S. 20° 00' W.	343	264	N. 72° 30' W.	132	283	S. 40° 15' W.	51
246	S. 4° 00' W.	356	265	N. 78° 45' W.	282	284	N. 31° 40' W.	655
247	S. 12° 15' W.	250	266	S. 70° 00' W.	119	285	N. 3° 20' E.	90

31 40
N 29 03 W
2037

I, _____, do solemnly swear that the accompanying Field Notes correctly describe the Meander line of the 175 ft. Contour of the Reservoir shown on the accompanying Map, as run by me and under my direction.

Chief Engineer Linda Vista Irrigation District.

Sworn and subscribed to before me this _____ day of _____ 1897.

Notary Public.

VOLCAN LAND & WATER CO.
PLAN AND PROFILE
OF
PAMO DAMSITE 'D'

SCALES
Horizontal - - - 1" = 100'
Vertical - - - 1" = 20'

W.S. Post, Eng.

JULY 21, 1913.

Field Book No. 36.

Dr.
File.

Field Book



920	930	940	950	960	970	985	990	995
5.33662 ^{4ft}	6.09418	6.32623	6.56530	6.75941	6.91080	7.08578	7.13797	7.17745
4.63909 ^{low}	4.63909	4.63909	4.63909	4.63909	4.63909	4.63909	4.63909	4.63909
0.69753	1.45509	1.68714	1.92621	2.12032	2.27171	2.44669	2.49888	2.53836
4.984	28.52	48.66	84.37	131.9	186.9	279.7	315.4	345.4
5.0 ^{acres}	28.5	48.7	84.4					

1000	1005	Wood dam				
		970	975	980	985	990
7.22161	7.25441	3.17609	3.48001	4.17754	4.47929	4.68305
4.63909	4.63909	4.63909	4.63909	4.63909	4.63909	4.63909
2.58252	2.61532	8.53700	8.84092	9.53845	9.84020	0.04396
382.4	412.4	0.0344	0.0693	0.3455	0.692	1.107
		0.0	0.1	0.3	0.7	1.1

Panno Resr, Calculations,
 Logo ~~Dist~~
 Reducing sq. ft. to acres.
Logs.

~~685~~
3315
6850
6465

9780
3315
6465

3015
3618
2412
3618
3898395

~~670~~
6435
9670
6765

3200
6435
6765

3015
3618
4221
3618
4079295

~~590~~

2220
5110
7110

9340
2220
7110

6030
603
4221
4287330

1345
1300
45

1390

3015
2412
27135

6640
6630
10

6030

5321400
6030
5327400

5327400

0420
0460
0

6000

4287330
6000
4281330

4281330

~~3500~~

2460
1300
160

3610
2460
160

36180
603
36180

639180
7270
3940
3330

7270
3940
3330

0595
7270
3325

18090
1809
1809
18090

7880
0945
6935

4820
7880
6940

3015
1809
5427
3618
4820

3135
5000
8135

1260
3135
8125

3015
1809
603
4827
4905405

0445
1400
9045

9490
0445
9045

3015
2412
5427
545435

9740
9650
10090

9840
9740
10100

54270
6037
6084270

0940
9915
11025

1975
0940
11035

11030

18090
603
6651090
6651090

9370
9325
45

9420
9370
50

3015
2412
27135

6651090
27135
6623955

5065
4430
635

5695
5065
630

18090
3618
377890

6595
5520
1075

7675
6595
1080

3015
4221
6037
648225

9020
7565
1455

0465
9020
1445

30150
2412
603
874350

2675
0295
2380

5050
2675
2375

48240
1809
1206
435140

9200
4670
4530

3720
9200
4530

18090
3015
2412
2731590

~~18090~~

04

03

PAMO RESERVOIR

- Sheet 1 - Capacities of Reservoir with Dam at Fletcher's Site "E".
- Sheet 2 - Capacities of Reservoir with Dam at Post's Site "D".
- Sheet 3 - Approximate Capacities of Reservoir with 200 ft. dam at Alverson's Site "A".
- Sheet 4 - Yardage against Reservoir Capacities - Fletcher and Post Sites.
- Sheet 5 - Comparative Volumes per equal heights of Dams - Fletcher and Post Sites.

PAMO RESERVOIR

Capacities with Dam at "Fletcher" Site
(Site E)

Depth	Elev.	Cu.Yds. Earth	Acres Flooded	Capacity	
				Acre Feet	Million Gallons
10	960		8	40	13
20	970	outlet	29	224	73
30	980		50	615	200
40	990		101	1,369	446
50	1,000		145	2,601	848
60	1,010	341,000	231	4,480	1,460
70	1,020	487,500	330	7,285	2,375
80	1,030	680,400	338	10,624	3,463
90	1,040	900,000	488	14,754	4,810
100	1,050	1,211,000	559	20,000	6,520
110	1,060	1,545,000			

8-29-17
T.P.E.

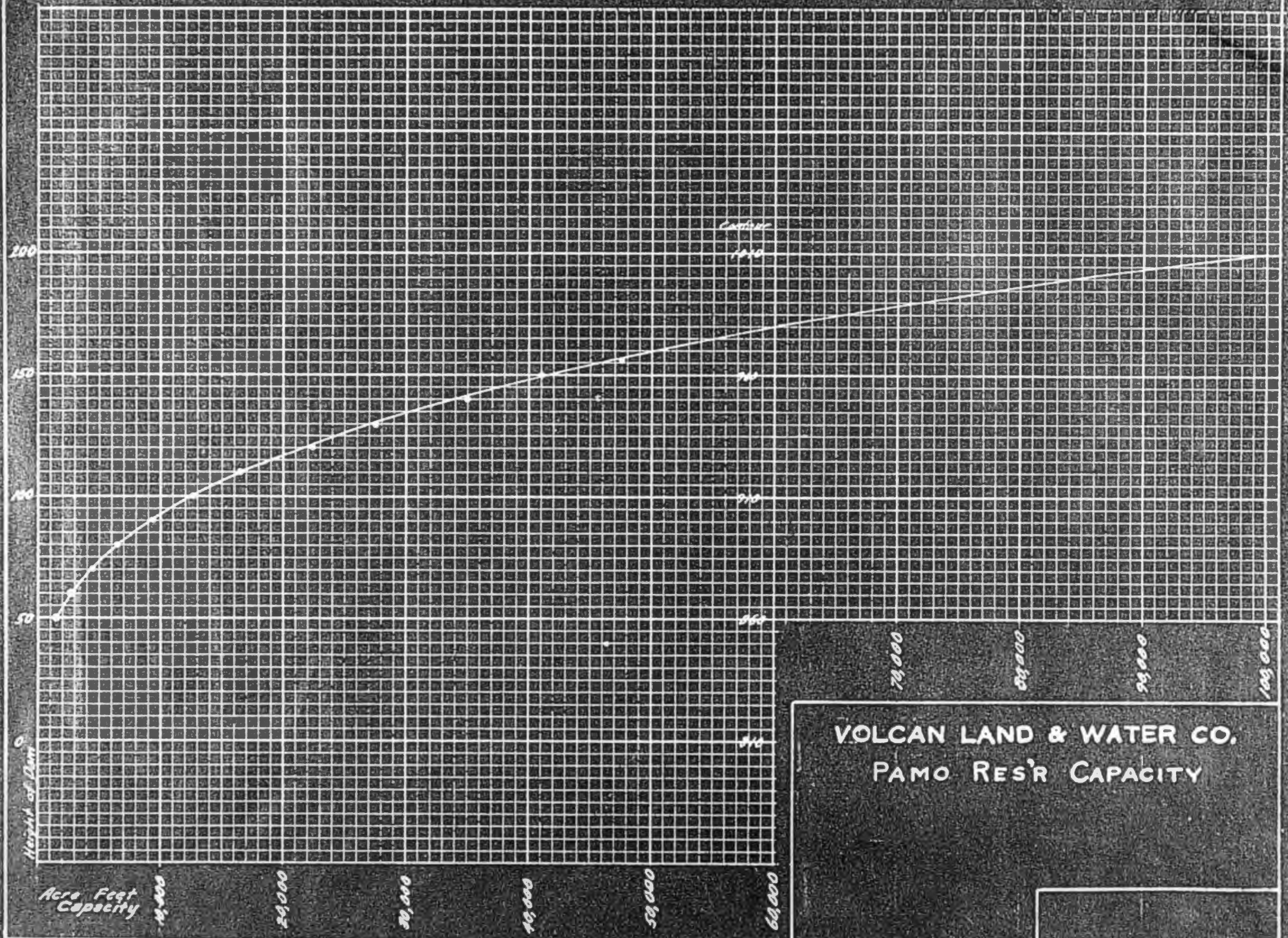
PAMO RESERVOIR

Capacities with Dam at "Post " Site

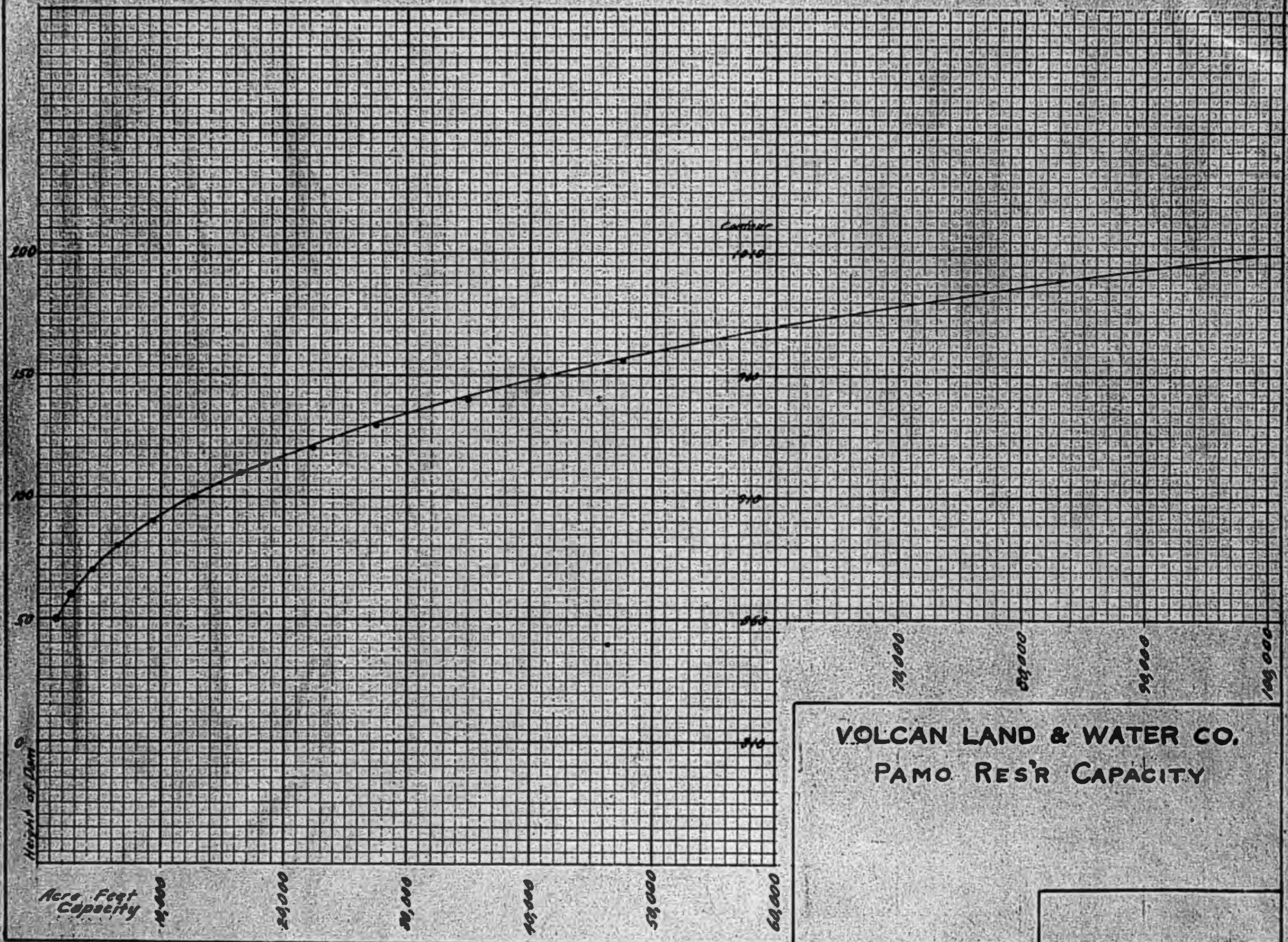
(Site D)

<u>Depth</u>	<u>Elev.</u>	<u>Cu. Yds. Earth</u>	<u>Acres Flooded</u>	<u>Capacity</u>	
				<u>Acre Feet</u>	<u>Million Gallons</u>
5	920		5'	8	3
15	930	outlet	29	176	57
25	940		49	562	183
35	950		84	1,227	400
45	960		132	2,309	752
55	970		187	3,903	1,272
60	975	378,000	220	5,200	1,695
70	985	545,000	280	7,408	2,415
80	995	793,000	345	10,555	3,440
90	1,005	1,081,000	412	14,361	4,680
100	1,015	1,430,000	480	18,600	6,060
110	1,025	1,825,000			

8-31-17
T.P.E.



VOLCAN LAND & WATER CO.
PAMO RES'R CAPACITY



Pamo Reservoir

Table Showing relative amount of yardage in the proposed Fletcher ("E") and Post ("D") Dam. Structures compared with equal capacities in each reservoir

Capacities		Fletcher Dam Site		Post Dam Site	
Ac.Ft.	Million Gallons	Exact Height	Cubic Yards	Nearest Height	Cubic Yards
4,480	1,460	60	341,000	59	322,000
7,285	2,375	70	487,500	70	525,000
10,624	3,463	80	680,400	80	796,000
14,754	4,810	90	900,000	91	1,113,000
20,000	6,520	100	1,211,000	100	1,400,000

8-31-17
T.P.E.

Pamo Reservoir

Table Showing relationship between cubic yards of earth required and Millions Gallons of Volume for various heights of Dam at Sites D and E, i.e., the Fletcher and Post Dam Sites.

Height of Dam	Fletcher Site "E"		Post Site "D"	
	Earth Dam Cu.Yds.	Res'r Cap. Mil.Gal.	Earth Dam Cu.Yds.	Res'r Cap. Mil.Gal.
60	341,000	1,460	378,000	1,695
70	487,500	2,375	545,000	2,415
80	680,400	3,463	793,000	3,440
90	900,000	4,810	1,081,000	4,680
100	1,211,000	6,520	1,430,000	6,060
110	1,545,000		1,825,000	

8-31-17
T.P.E.

Lam Site E Pano Reservoir

90ft

Contour	Plan	Sqft.	Av. Sqft	Cu. Ft. H/10'	Cu. Yds.	H/Plan
		0				
950	.0347	155,744	51,914			0
960	.0707	317,322	236,533			10
970	.0808	362,655	339,989			20
980	.0768	344,701	353,678			30
990	.0715	320,913	332,807			40
1000	.0624	280,070	300,492			50
1010	.0602	270,196	275,133			60
1020	.0507	227,557	248,877			70
1030	.0328	147,216	187,387			80
1040	.0131	58,797	103,007			90
1050			2429,817	24,298,170	900,000 cu yds.	100

250,000 sqft = .0557
1. = 4,488,300 sqft

1. = 4,449,400

Lam Site E Pano Res.

10ft sections

80ft.

Contour	Plan	Sqft	Avg Sqft.
950	.0307	136,566	45,522
960	.0626	278,466	207,516
970	.0698	310,498	294,482
980	.0656	291,815	301,157
990	.0574	255,338	273,577
1000	.0482	214,413	234,876
1010	.0482	214,413	214,413
1020	.0293	130,338	172,376
1030	.0126	56,050	93,194

27) 1837,130 (680,413
16) 2
217
216
111
108
33
47
60

70ft

Contour	Plan	Sqft	Avg Sqft.
950	.0254	112,989	37,663
960	.0528	234,876	173,932
970	.0588	261,566	248,221
980	.0513	228,203	244,885
990	.0443	197,064	212,633
1000	.0332	147,687	172,375
1010	.0288	128,114	137,900
1020	.0110	48,932	88,523

1,837,113
27) 13,161,320 (487,460
108
236
216
201
189
123
108
152
16

60ft

Contour	Plan	Sqft	Avg Sqft.
950	.0216	94,306	31,470
960	.0447	198,843	146,574
970	.0466	207,295	203,069
980	.0401	178,380	192,837
990	.0310	137,900	158,140
1000	.0227	100,979	119,439
1010	.0084	37,367	69,173

27) 9,207,020 (341,000
108
108
27

Lower (Eastwood) Damite Tams

Hub in road = 974.02

Inst. at 0+00 F.S. on other end dam,

Sta Sighted	Vert. Angle		0+00 =	Elev
0+50	-27°00'	.5095	-25.5 =	948.5
1+00	-26°49'	.5055	-50.6 =	923.4
1+50	-26°28'	.4979	-74.7	899.3
2+00	-25°59'	.4874	-97.5	876.5
4+00	-17°54'	.323	-129.2	844.8
4+50	-11°15'	.1989	-89.5	884.5
5+00	-7°24'	.1299	-65.0	909.0
5+50	-3°44'	.0653	-35.9	938.1
6+00	-0°55'	.016	-9.6	964.4
6+07.4	-0°19'	.0055	-3.3	970.7

X sect.

at 0+00 H.I. = 4.9 = 978.92 (Elev. 974.02)

				Elev.
R 55'	-8°50'	on 4.9 rod	-8.3	965.7
R 115'	-5°00'	130 "	-9.98, -13'	955.9
L 76'	-4°45'	4.9 "	-6.3 - 4.9	967.7
L 114'	-4°54'	110 "	-9.7 - 6.1	963.1

at 0+50 H.I. = 4.2 = 952.7 (Elev. 948.5)

L 41	-11°20'	on 5.0 rod	-7.9 - 5	939.8
L 58	-10°20'	on 10.0 rod	-10.2 - 10	932.5
L 84	-9°25'	on 4.2 "	-13.6 - 4.2	934.9
L 146	-8°00'	on 6.0 "	-20.7 - 6.0	926.0
R 50	-6°50'	" 6.0 "	-5.9 - 6	940.8
R 110	-6°57'	" 8.0 "	-13.2 - 8	931.5
R 165	-6°56'	" 9.0 "	-19.8 - 9	923.9

X sect. at 1+03 H.I. = 3ft above 1+00 = 926.4 H.I.

L 24	-12°00'	on 3.4 rod	-4.9	918.1
L 58	-12°27'	" 9.0 "	-12.2	905.2
L 67	-9°30'	" 3.4 "	-10.9	912.1
L 137	-4°31'	" 3.4 "	-11	912.0
R 57	-4°31'	" 5.0 "	-4.5	916.9
R 100	-3°53'	" 10.0 "	-6.8	909.6
R 120	-4°54'	" 13.0 "	-10.2	903.2

at 1+50 H.I. = 4.35 = 903.7 H.I.

L 54'	-7°27'	on 4.35 rod	-6.9	892.4
L 120'	-4°48'	" 4.35 "	-10	889.3
L 160'	-4°30'	" 10.0 "	-12.5	881.2
R 70'	0°-0'	" 4.35 "	-	899.3
R 110'	-1°00'	" 13.0 "	-2.6	888.1

at 2+00 H.I. = 4.0 = 880.5 H.I.

L 60'	-2°40'	on 6.0 rod	-2.8	871.7
L 70'	-2°28'	" 7.0 "	-3.0	870.5
R 62	-13°55'	on 4.58 "	-14' bottom of sheer drop of 15'	862.1
R 115	-5°38'	on 8.0 "	-11.3	861.2
R 360	-8°05'	on 11.0 "	-50	819.5

at ~~2+00~~ 70' left 2+00 H.I. = 4.8 = 886.3 H.I.

62'	-12°28'	on 4.8 rod	-13.1	875.4
100'	-11°30'	" 4.8 "	-19.5	857.0
140'	-7°50'	on 4.8 "	-18.9	857.6
183'	-7°22'	on 9.0 rod	-23.2	847.1
280'	-3°55'	" 4.8 "	-19.0 across gully	853.5

Stadia Topog.

(3)

Inst. at 2+06 FS on 6+07.4 H.I. = 3.2 above 2+00.
 all horiz. angles turned right. 879.7 H.I.

H.A.	V.A.	Dist.	Use 876.5
-37°44'		444.791 7738 .612 2+50 (35)	-34 842.5
-34°10'		94.827 6785.562 3+00 (248)	-63.8 812.7
-33°00'		104.837 6494.547 3+10 (59) edge creek	69.5 / 809.0
-36°35'		136.894 7422 498 3+42 (12) N "	808 / 445.7
-24°00'		82544 .5716 3+50 (117)	53.5 / 823.0
-20°30'		82759 .528 3+65 (140)	52.2 / 829.3
88°10' ✓	-6°00'	99.5 560 10.4 55 58.3	818.2
76°35' ✓	-11°50'	95.8 300 20.1 28 60.3	816.2 ✓
65°50'	-19°10'	89.2 210 31.0 19 65.2	811.3 ✓
45°10'	-21°10'	82.0 172 33.7 14 58.0	818.5 ✓
20°31'	-25°00'	82.1 170 35.3 13 65.2	811.3 ✓
9°50'	+5°38'	99.0 300 9.8 29 29.4	905.9 ✓
18°31'	+5°00'	99.2 315 7.7 32 27.4	903.9 ✓
332°35'	-23°57'	93.4 184 37.1 16 68.3	808.2 ✓
26°10'	+4°47'	99.3 332 8.3 30 27.6	914.1 ✓
34°07'	+3°05'	99.7 348 5.3 34 18.4	894.9 ✓
316°44'	-18°31'	89.9 215 30.1 25 64.7	811.8 ✓
41°42'	+5°04'	99.2 375 8.8 32 33.0	909.5 ✓
49°02'	+5°56'	99.9 418 10.3 43 42.8	919.3 ✓
311°50'	-14°40'	93.6 282 14.5 24 69.2	807.3 ✓
348°32'	+4°39'	99.3 300 8.1 29 24.3	900.8 ✓
297°32'	-13°40'	94.4 308 23.0 29 70.8	805.7 ✓
339°28'	+3°02'	99.7 320 5.3 31 17.0	893.5 ✓
293°31'	-10°50'	96.5 381 18.5 36 70.5	806.0 ✓
4229°24'	+2°45'	99.8 350 4.8 35 16.8	893.3 ✓
323°10'	+2°11'	99.8 375 3.8 ✓ 14.3	890.8 ✓
317°10'	+1°55'	99.9 406 3.4 ✓ 13.8	890.3 ✓
325°38'	+4°30'	99.4 424 7.8 ✓ 33.1	909.6 ✓

H.A.	V.A.	Dist.	(4)
331°16'	+4°30'	392 390 7.82 + 30.6	907.1
307°30'	-4°41'	352 350 8.11 28.5	848.0
336°47'	+4°03'	360 358 7. + 25.2	901.7
318°46'	-3°22'	315 ✓ 5.9 18.6	857.9
342°56'	+4°35'	320 ✓ 8.0 + 25.6	902.1
328°38'	-8°42'	250 245 15 37.5	839.0
336°30'	-9°21'	212 201 16 33.9	842.6
348°17'	+7°15'	335 330 12.5 + 41.8	918.3
357°12'	+8°08'	330 321 14 + 46.2	922.7
341°51'	-16°10'	200 187 26.7 53.4	823.1
349°35'	-12°50'	180 170 21.7 39.1	837.4
8°00'	+9°26'	360 352 16.1 + 58.0	934.5
16°55'	-12°10'	196 190 20.6 46.4	836.1
15°58'	+8°30'	372 364 24.6 + 59.4	930.9
44°55'	-11°10'	205 20 19 39.0	837.5
24°02'	+7°24'	393 384 12.8 + 50.3	926.8
52°50'	-6°10'	225 215 10.7 29.1	852.4
31°30'	+6°42'	430 425 11.6 + 49.8	926.3
62°05'	-6°30'	253 250 11.3 28.6	847.9
27°10'	+8°41'	485 470 14.9 + 72.3	948.8
67°55'	-4°57'	332 330 8.6 28.6	847.9
71°40'	-3°18'	397 ✓ 5.8 23.0	853.5
21°10'	+9°31'	460 450 16.3 + 75.0	951.5
75°05'	-6°22'	400 396 11.0 44.0	832.5
15°17'	+10°55'	438 424 18.6 + 81.6	958.1
73°17'	-9°25'	320 312 16.1 51.6	824.9
8°57'	+11°50'	418 400 20.1 + 84.1	960.6
66°42'	-13°15'	247 236 22.3 55.8	821.5
56°24'	-15°03'	205 190 26.0 53.2	823.2
353°29'	+10°43'	400 390 18.3 + 73.2	949.7
348°25'	+8°50'	440 431 15.2 + 67.5	944.0
50°49'	0°0'	270 ✓ -	876.5

H.A.	V.A.	Dist.			
343° 20'	+7° 33'	1713.1	460	453 + 603	936.8
60° 00'	+1° 00'	- 1.7	340	✓ + 5.8	882.3
357° 59'	+13° 15'	5.222.3	453	453 + 101.2	977.7
32° 12'	+0° 23'	- .70	290	✓ + 2.03	878.5
349° 10'	-2° 40'	0.24.65	215	✓ 10.10	866.5
348° 22'	-0° 15'	- .44	248	✓ 1.09	875.4
339° 40'	-0° 41'	- 1.19	270	✓ ³² burnt stake	873.3
336° 18'	-4° 45'	0.78.25	246	243 20.3	856.2
329° 20'	-0° 33'	- .96	302	✓ 2.90	873.6
328° 03'	-3° 00'	0.35.2	285	284 14.8	861.7
323° 35'	+1° 04'	- 1.16	340	✓ + 6.3	882.8
316° 37'	-2° 41'	- 4.7	326	✓ 15.3	861.2
318° 11'	+1° 04'	- 1.9	380	✓ + 7.2	883.7
312° 06'	-1° 36'	- 2.8	377	✓ 10.6	865.9

at 4+46 - F. Son 6+07.4 H.L. = 2.2 above 4+50.

H.A.	V.A.	Dist.			
136° 22'	-5° 22'	9.9	397	393 36.1	847.6
140° 47'	-5° 49'	11.0	360	357 36.3	848.2
148° 20'	-6° 30'	11.33	320	316 36.2	848.3
127° 55'	-8° 31'	11.6	420	415 61.4	823.11
153° 37'	-6° 41'	11.5	265	261 36.5	854.0
131° 40'	-6° 02'	11.4	435	430 45.2	839.3
157° 26'	-1° 30'		300	✓ 7.8	876.7
131° 30'	-10° 55'	13.6	370	357 68.8	815.7
153° 56'	-1° 49'	5.2	340	✓ 10.9	873.6
135° 03'	-8° 08'	21.1	374	367 52.7	831.8
148° 18'	-1° 23'	2.4	376	✓ 9.0	875.5
140° 39'	-9° 31'	12.7	330	322 53.8	830.7
144° 25'	-0° 25'	.73	420	✓ 3.1	881.4
135° 54'	-13° 40'	5.30	313	300 72.0	812.5
137° 45'	-1° 30'	5.6	476	✓ 12.5	872.0

H.A.	V.A.	Dist.			
143° 50'	-16° 32'	27.3 1.3	268	73.2 264	811.3
146° 05'	+1° 01'	1.8 -	430	+ 7.7 ✓	892.2
145° 20'	-13° 36'	22.9 5.5	258	59.1 245	825.4
152° 40'	+2° 25'	4.2 -	407	+ 17.1 ✓	901.6
155° 20'	-15° 15'	23.4 7.	237	55.5 220	829.0
161° 35'	+3° 27'	6.1 -	376	+ 22.9 ✓	907.4
154° 20'	-19° 49'	31.9 1.5	230	73.4 207	811.1
159° 50'	+1° 40'	2.9 -	360	+ 10.4 ✓	894.9
199° 00'	-26° 08'	39.5 19.4	183	72.3 148	812.2
161° 50'	+4° 50'	8.4 0.7	400	+ 33.6 397	918.1
208° 30'	-17° 56'	29.3 9.5	212	62.2 19.3	822.3
155° 50'	+4° 15'	7.4 0.5	424	+ 31.3 422	915.8
220° 10'	-15° 35'	25.9 7.2	240	62.2 210	822.3
225° 35'	-19° 30'	31.5 11.1	246	77.5 220	807.0
151° 10'	+4° 03'	7.1 0.5	470	33.4 468	851.1
237° 00'	-16° 33'	27.3 8.1	220	72.8 248	810.7
155° 00'	+6° 30'	11.3 1.3	500	+ 56.5 494	941.0
160° 55'	+7° 20'	12.7 1.6	474	+ 60.3 470	944.8
204° 30'	-11° 46'	20. 4.2	216	43.2 205	841.3
163° 20'	+9° 09'	15.7 2.5	510	+ 80.2 500	964.7
196° 40'	-10° 09'	17.4 3.1	210	36.5 206	848.0
168° 00'	+9° 56'	17.0 3.0	492	+ 83.7 478	968.2
222° 00'	-12° 35'	21.31.8	260	56.4 248	828.1 ✓
226° 10'	-9° 18'	16. 2. 6	320	51.2 313	855.3
201° 30'	+7° 32'	13. 4. 7	583	+ 75.8 570	872.7
240° 00'	-12° 39'	21. 8. 8	344	73.3 330	811.2
231° 50'	-7° 40'	13. 2. 7	363	47.9 357	836.6
198° 10'	+7° 36'	13. 1. 7	484	+ 63.3 476	957.8
219° 20'	-3° 00'	3. 0. 3	364	18.9 363	865.6
214° 30'	-0° 05'	. 1. 4	400	0.6 ✓	883.9
202° 30'	+4° 48'	10. 3. 7	440	+ 36.5 ✓	921.0
208° 30'	+2° 25'	4. 5	433	+ 18.2 ✓	902.7

H.A.

V.A.

Dist.

884.5

(7)

207°45'

+ 0°43'

1.25

378

+4.8

✓

889.3

212°35'

+ 2°26'

1.02

51.4

21.4

✓

905.9

207°30'

+ 4°27'

1.06

540

41.6

✓

926.1

1 (unity of planis) = 102.12 acres.
 = 1021.2 Ac Ft.

Pamo Reservoir Site "E"

Contour	A Planimeter	B	C	D	E	G	F	acres flooded	Planis Total	Planis Avg.	Acres	Mon-Accum Ac Ft	Capacity Mil Gals.	
0	950	0	-					0		.0390		39.8	39.8	13.0
10	960	781	076					78.1	.0781	.1802		183.8	223.6	72.9
20	970	2116	706					28.8	.2822	.3833		391.4	615.0	200.5
30	980	2662	2020	0162				49.5	.4844	.7387		754.3	1369.3	446.4
40	990	3146	3698	1300	1400	0390		101.4	.9929	1.2059		1231.6	2600.9	847.9
50	1000	3621	4685	2212	2099	1460	0113	144.9	1.4190	1.8403		1879.0	4479.9	1460.4
60	1010	4146	5471	3238	3990	4396	1375	230.8	2.2616	2.7465		2804.7	7284.6	2374.7
70	1020	4553	6050	4200	4991	5450	0750 6320	329.90	3.2314	3.2703		3339.3	10623.9	3463.3
80	1030	5022	6658	4851	5851	5904	1491 7665	338.06	3.3095	4.0439		4129.7	14,753.6	4510.
90	1040	5664	7185	5637	6523	6414	6438 9922	487.8	4.7783					

168,434

17,096

1 = 250,000 sq ft = .056 ~
 4,444,398

Panno Ham Site E
100 ft dam

9/3 1917

Contour Plane		Avg Plane	Vol. Kds.	H%
940	0			
950	0405	.0202	33,300	
960	0850	0627	103,000	0
970	0934	0890	146,800	10
980	0970	0920	151,500	20
990	0878	0894	147,100	30
1000	0821	0849	140,000	40
1010	0870	0846	139,400	50
1020	0712	0791	130,500	60
1030	0550	0621	104,000	70
1040	0350	0450	74,100	80
1050	0148	0249	41,000	90
				100
				110
			1,210,500	

Panno Ham Site E
110 ft dam

9/3 1917

1 = 1,647,555 cu ft

Contour Plane		Avg Plane	Vol. Kds.	H%
940	0			
950	0454	0247	40,700	
960	0905	0679	111,800	0
970	1075	0990	163,000	10
980	1073	1074	177,000	20
990	1041	1057	174,000	30
1000	1024	1032	171,000	40
1010	1062	1043	172,000	50
1020	0925	0993	163,500	60
1030	0766	0846	139,200	70
1040	0582	0674	111,000	80
1050	0378	0480	79,000	90
1060	0146	0262	43,200	100
				110
			1,545,400	

Panama Dam Site "D" 9/3 1917

100 ft dam

Contours Plain		Avg Plain	Vol Yds	Hts
905	0013	.0247	40,700	0
915	0482	.0693	114,100	10
925	0905	.0960	158,000	20
935	1015	.1049	172,800	30
945	1084	.1134	187,000	40
955	1185	.1293	213,000	50
965	1402	.1378	227,000	60
975	1354	.1290	211,500	70
985	1227	.1147	189,000	80
995	1067	.0927	152,500	90
1005	0788	.0638	105,000	100
1015	0488	.0327	53,800	110
1025	0165			120
			1,824,400	
			Cu yds.	
			1,823,000	

$I = 1,647,555 \text{ cu yds.}$

Panama Dam Site "D" 9/3 1917

100 ft dam

Contours Plain		Avg Plain	Vol Yds	Hts
905		.0213	35,150	0
915	0427	.0629	103,700	10
925	0832	.0866	142,700	20
935	0900	.0922	151,800	30
945	0943	.0980	161,300	40
955	1015	.1088	179,300	50
965	1161	.1116	184,000	60
975	1071	.1033	176,000	70
985	0995	.0868	143,000	80
995	0742	.0607	100,000	90
1005	0472	.0319	52,500	100
1015	0166			110
				120
			1,429,450	
			cu yds.	
			1,430,000	

$I = 1,647,555 \text{ cu yds.}$

Panama River Site "D"
90 ft dam

8/28 1917

1 = 4,448,398

Contour-Plan - Sq. ft.		Avq. Ph'	Vol. Yds.	Height
905	0			
915	0385	.0192	31,633	0
925	0724	.0555	91,500	10
935	0779	.0752	124,000	20
945	0810	.0794	130,900	30
955	0822	.0816	134,500	40
965	$\frac{0020}{0916}$.0936	.0879	144,800	50
975	0916	.0926	152,600	60
985	0680	.0798	131,600	70
995	0433	.0557	91,700	80
1005	0150	.0292	48,200	90
1015				100

1,081,433
cu yds.

1 = 4,448,398 sq ft =

1 = $\frac{4,448,398 \times 10}{27} = 1,647,555$ cu yds.

Runo Site "D" " " "
 soft Rain

8/29 1917

Contour-Plan - Sq. ft.		Avg. Plain	Vol. Yds.	Height
915	0341	.0170	28,000	0
925	0635	.0488	80,500	10
935	0680	.0657	108,000	20
945	0681	.0680	112,000	30
955	0665	.0673	111,000	40
965	$\frac{0010}{8697}$ 0707	.0686	113,000	50
975	0633	.0670	110,300	60
985	0408	0520	85,700	70
995	0136	.0272	44,800	80
1005	0156			90
1015				100
			793,300	

Panso Dike "D"

70 ft dam

Contour-Plane - Sq. ft.		Avg. Plane	Vol. Yds	Height
715	0300	.0150	24,720	0
725	0564	.0432	71,200	10
735	0570	.0567	93,400	20
745	0530	.0560	92,300	30
755	0508	.0529	87,200	40
765	0429	.0468	77,200	50
775	0329	.0379	62,500	60
785	0117	.0223	36,800	70
795				80
805				90
815				100
			545,320	

815
815
815

PAMO RESERVOIR.

SAN DIEGO CO. CAL.

CONTENTS OF RESERVOIR.

<i>Contour.</i>	<i>Area, Acres.</i>	<i>Gallons.</i>	<i>Total Gallons.</i>	<i>Mi. Ins. 360 Days.</i>	<i>Acre Feet.</i>	<i>Contour.</i>
10	2.1	1 579 725	1 579 725		10	10
20	2.8	6 180 510	7 760 235		35	20
30	7.4	16 218 030	23 978 265		54	30
40	19.0	42 659 460	66 637 725	14.3	204	40
50	27.5	75 978 450	142 616 175	30.7	436	50
60	38.2	107 299 220	249 915 395	53.7	765	60
70	56.8	154 745 100	404 660 495	80.0	1 238	70
80	102.6	260 046 120	664 706 615	143.0	2 035	80
90	150.0	412 421 650	1 077 128 265	231.5	3 300	90
100	204.5	578 830 320	1 655 958 585	356.0	5 068	100
110	263.5	764 431 500	2 420 390 085	520.0	7 408	110
120	334.8	977 217 630	3 397 607 715	732.0	10 400	120
130	401.4	1 205 504 190	4 603 111 905	990.0	14 090	130
140	476.5	1 434 064 200	6 037 176 105	1 297.5	18 480	140
150	571.2	1 717 132 762	7 754 308 867	1 666.5	23 738	150
160	664.6	2 018 819 062	9 773 127 930	2 100.5	29 915	160
175	813.0	3 620 687 625	13 393 815 554	2 878.5	40 997	175

Pamo Reservoir (Alverson site)
Area and Capacity Table Sept. 27, 1917

Depth	Contour	Area	Acres	Total Capacity	
				Acre Feet	Million Gallons
0	810		0.00	0.0	
10	820		2.064	10.320	3.4
20	830		2.795	34.615	11.3
30	840		7.054	83.860	27.3
40	850		18.863	213.445	69.6
50	860		27.268	444.100	144.8
60	870		37.698	768.930	250.7
70	880		56.130	1238.070	403.6
80	890		101.313	2025.290	660.2
90	900		134.941	3206.560	1035.3
100	910		202.139	4891.960	1594.8
110	920		260.304	7204.180	2348.6
120	930		321.545	10163.430	3313.3
130	940		396.033	13801.320	4499.2
140	950		474.159	18152.280	5917.6
150	960		564.263	23344.290	7410.3
160	970		661.309	29472.250	9608.0
175	985		797.844	40415.850	12115.6

by G.P. Watson Jr.

PAMO RESERVOIR
Area and Capacity Table
 Alverson Site - 1894

Depth	contour	Acres	TOTAL CAPACITIES	
			Acre Feet	Million Gallons
0	810	0.0	0	0
10	820	2.1	10	2
20	830	2.8	35	8
30	840	7.1	84	24
40	850	19.0	204	67
50	860	27.5	436	143
60	870	38.2	765	250
70	880	56.8	1,238	405
80	890	102.6	2,035	665
90	900	150.0	3,300	1,077
100	910	204.5	5,068	1,656
110	920	263.5	7,408	2,420
120	930	334.8	10,400	3,398
130	940	401.4	14,090	4,603
140	950	476.5	18,480	6,037
150	960	571.2	23,738	7,754
160	970	664.6	29,915	9,773
175	985	813.0	40,997	13,394

OFFICE COPY

	A	B	C	D	E	F	G
970	3157	3357	1808	918	1989	1740	2636
980	3678	3639	1928	1135	2130	1871	2790
990	4222	3902	2580	1305	2290	1992	3015
1000	4756	4143	2254	1606	2498	2122	3238
1010	5235	4395	2463	1805	2715	2288	3478
1015	5637	4568	2585	2018	2832	2395	3612

	acft	Mil. Gal
0	850	200
1	860	200
2	880	200
3	880	200
4	890	200
5	900	200
6	910	200
7	920	200
8	930	200
9	940	200
10	950	200
11	960	200
12	970	200
13	980	200
14	990	200
15	1000	200
16	1010	200
17	1020	200
18	1030	200
19	1040	200
20	1050	200

B Site
 Panned.

PAMO RESERVOIR

Area and Capacity Table Aberson Side "A"

Depth	Antour	area	Total Capacities	
			cuft	mil Gals
0	810	0	0	0
10	820	22	10.0	.3
20	830	27	35.0	1.1
30	840	37	84.0	2.7
40	850	49	144.0	4.5
50	860	60	214.0	6.7
60	870	72	300.0	9.4
70	880	86	407.0	12.4
80	890	102	536.0	16.1
90	900	120	687.0	20.8
100	910	140	860.0	26.2
110	920	163	1055.0	32.0
120	930	190	1272.0	38.2
130	940	220	1510.0	45.3
140	950	253	1770.0	52.5
150	960	290	2050.0	60.2
160	970	330	2350.0	68.5
170	980	370	2670.0	77.3
180	990	410	3010.0	86.6
190	1000	450	3370.0	96.4
200	1010	490	3750.0	106.8
205	1015	510	3900.0	112.5
210	1020	530	4070.0	118.7
220	1030	550	4260.0	125.6
230	1040	570	4470.0	133.1
			100,000	3,260.0

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Ed Fletcher Papers

1870-1955

MSS.81

Box: 48 Folder: 5

Business Records - Water Companies - Volcan Land and Water Company - San Dieguito System - San Dieguito Mutual Water Company - San Dieguito/Pamo Dam - Pamo Reservoir site/San Dieguito Dam - Contour line notes



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