

W

DIETZGEN
TRADE MARK

ENGINEERS'
LEVEL BOOK
No. 412

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on 1½ see inside of back cover.

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2170
441

359
407
434
374
347

MICROFILMED

JAN 2 1964

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NY New York

General Inspection Record

Mostly Spillway Ex

1-56

General Stations of New York 56-68

MICROFILMED

1967

1967

June 1st 1933 - X + Newcomb

East Rock Emb.

- ✓ 1 Port Comp + J. H. - Not op.
- ✓ 1 Foreman - O'Brien
- ✓ 1 " " Larry
- ✓ 5 Laborers
- 1 Cat 60 + McMillan Clear of El 625
- Unit #2 Monitor Wash Wedge PM.

Stripping H₂O El. 625 West End ER Emb

- PM. Unit #7 + Truck #14 Rock to ERE
- 1 Bulldozer Cat-60 John C. op.

Outlet Tower Ex: 1 Port Comp Air Pump

3 men. Ex drill Shoot etc.

Spillway Ex Comp Plant + 2 Port Comp

- 1 Foreman
- 1 Loader
- 1 Dipper
- 6 Drillers

El. Conn.
TUNNEL: Unit #10 Place Jumbo, etc at
 entrance Portal.
 1 Truck + 2 men Clean up.
 McGuire + 2 men Ass. Equip.

Truck #14
 Rack from 625 level at N. end

of E.R. Emb Rock Emb Stripping to ERE

Time	Rock	Below Sur.	Above Sur.
12 PM	3 Rock = 24 ³	Below Net	
134	1 Rock 6x3x3 ¹ / ₂		63
140	3 " 4x4x3 ¹ / ₂		56
145	1 " 4x3x3		40
152	1 " 4x3x3		36
200	1 " 4x3x3		60
212	1 " 3x3x4 ¹ / ₂		27
220	4 ³ Gross		40
233	1 5x4x3 ¹ / ₂		54
238	1 4x3x3		36
245	3 ¹ / ₂ 4 ³ Gross		
252	4 Rock		81
250	1 4x5x4 ¹ / ₂		90
	1 6x5x3		90
	1 4x3x2 ¹ / ₂		30
	1 5x6x3 ¹ / ₂		105
	5 ⁴ Gross		
	4 ² " "		
	17 ³ Below Sur. = 12 ⁴ Net	27878	2754
	32.5 " "	32.5	-2
	<u>Total</u>	44.5 ³ Below Sur.	20 " Above "

June 2 1933. J.T. Newcomb, in office
X Sec 5 AM. Cat.

Slope East Rock Emb - O'Brien
AM. El. 625
1 Foreman + 5 men.

AM Unit 7 at N end 625 level Not op

Spillway Ex. Drilling ret. 3 Port Com
Comp Pl. +
1 Foreman Frank Maleta

AM 6 Drillers 1 Nipper
PM 1 Loader
3 Drillers to Quarry PM.

Outlet Tower Ex Port Comp & J.W.
3 men Ex

TUNNEL. Mc Guire & 2 men Lt Truck
Chip Cone of Invert
2 Carp Rep to Equip. Jumbo.

Stripping N #6 RE. See 20 625

PM Unit * 7 + 1 Truck.

6/3/33 J.T. Newcomb
M. Barry, Gen. L.
T.E. Connolly, Stieris + John Connolly on job

Spillway - Ex Unit * 8 + Tr El.

on 800 El. level Rock to N.R.E. 615

Unit * 7 on Road El 750-800
+ on 800 Level
1 Port Comp; 2 Same Not op. 2 Tr
Trucks 18, 20, 40, 6, 24, 31, 39 (20 Tr) 39m

2 Op 2 Oil, 5 Tr Drivers, 2 Drillers
1 Dump man. DG on Ramp 640 R&ERE

El 700
Unit * 11 Idle E. of Sp. W on Road.

9:30
1 Cat 60 B.D on N. Rock Emb El 634-615

9:30, 9:45, 10:15, 10:45, 11:15, 11:45
23, 5, 14, 8
13, 10, 4
Trucks hauling from Quarry to
N + W Por. of
615 Base, Scar. + Washed approved by J.W.

except at N. Ab. + N. Port.
O'Brien + 1 Foreman Larry - 6 men placing R
1 Cat Op. 12 VRE El 600-615
1 Dump man. (remain to Quarry 10:30 A)

Unit 10 Strip Rock E Sec NE El. 625 + 1 Truck
10 P. 10:11 Soil + DG to E. Hy Fill El 625 - 7 A.D. 60
Am. man + Mon * 2 Buck + 1 man Hy NE + Wedge 615
Rock Emb to 10 30
SE 10:30 to 14:00
NE 14:00 - 3 PM

Mc Guire. Etc.

30 min.
Cat + Jean on ERE El. 625 9A to port time
Bull Dozer + Cat + men on Dump Ramp
640 Road N.E.
+ El. 615 RE NW

6/3/33 J.T. Newcomb
 Gross Est. from Truck
 TAM & PM

Rock Spillway Ex. to WRE

* 90 Yds	* 20 Yds	* 24 Yds	* 18 Yds	* 39 Yds
710-4 1/2	712-5	715-4 1/2	728-5 1/2	740-5 1/2
720-4 1/2	724-5	731-5	715-5	800-5
738-5	746-6	750-4	745-5	852-4
754-5	805-5 1/2	810-4 1/2	802-5	819-6 1/2
811-5 1/2	826-6 1/2	836-5	819-5 1/2	852-6
827-5	845-7	901-4 1/2	836-4 1/2	912-6
1257-4	115-6	920-5	859-5 1/2	932-6
127-5	131-5	935-5	915-5 1/2	1100-5 1/2
328-5	208-5	951-5	930-5	117-5
	221-6 1/2	1010-5	946-5	148-7 1/2
		1034-5	1004-5	123-6
		1047-5	1021-5	359-6 1/2
		1108-5 1/2	1037-5	
		1125-5	1052-4 1/2	
			1113-5	
			1129-5	
			1252-5	
			107-4 1/2	
			128-5	
			140-5	
			153-4 1/2	
			211-4 1/2	
			225-5	
			238-5	
			254-5	
			309-5	
			339-5	
			352-4 1/2	

Totals 43 1/2 57 1/2 68 138 1/2 65 31 1/2 21

Total for Day
 43 1/2 ✓
 57 1/2 ✓
 68 ✓
 138 1/2 ✓
 65 ✓
 31 1/2 ✓
 21 ✓

425. ✓ Cu Yds Truck Estimate.
 Estimate 40% Small.

Reported 6/3/33
 J.T. Newcomb

June 5th 1933 J.T. Newcomb
 Spillway Ex. Units 8 & 11
 8 AM
 Ex mostly NW 1/4

D.G. on 800 El level Mt 1 to Ramp 600 R.R.
 2 Op.
 2 Drillers
 1 Part Camp - 2 J.H.
 (T.E. Connelly on work)
 (Empty PM)
 Trucks: 2, 3, 4, 18, 26, 42, 39, 43, 31,
 Machines down part time waiting for Trucks.
 " Down 230 Rep Trucks to Unit 7.
 Holder + Equip 230 - Bucket to Shop #11 at 7:30
 Unit #11 Ex. about E 5000 50 ft S of W Slope of SW

Face about 40 The Top 30 ft has been shot
 and at 10 AM. have vert face about 12
 which cuts hard for Shovel. Then Top.
 Slides in to Mack as Toe is removed.

Vert to 1:1 Slope above Cut of Mack
 Unit 8 at about N 4400 E 5150 on 800 level

Working NE along Slope of hill. face 8 ft.
 Toe hard Bad Slope Vert to 1:1

Rock NE 1/4 Stripping RE to E RE

1-4x4x3	13	35	50
1-4x4x4		64	
4-		54	
4x6x5		180	
5x5x4		100	
6-		108	
2-	81		
	94	264	9.7 1/3
	3 1/2		

net #
 an report of 5 1/2 ft.

June 6th 1933. W. Newcomb

West Rock Emb. El. 575-634. O'Brien - Part Time - Larry + 11 men Cat 60 + Bulldozer + Op

place rock on surface El. 600-615.

2 men fix Trench El. 600 NW⁴ Road Shoulder for Trucks from Quarry dump 615-600 level. + 634 level.

Boek + 1 man Connect hose up + Wash

step to washing on 575-level. NW⁴

" to finish up R.E.

John Connolly. Said that "Pohl" "Old Man" Ben

Well responsible for rock on slope

in NW⁴ below El. 575 being 30' above

grade. There had set stakes to get

they disregarded them.

Spillway 1 Port Comp. 2 Jack H. 2 Drillers. Units 8th Idle on 800 El level.

East Rock Emb. El. 625. Cat + Sear 750 Hw
Mr. Woods + Albert 2 AM. on to both El. 3800 ± + 4 AM. with 2 AM.
N 3800 South. El. 648. 1 Dumpman, 1 Cat 60 BD

+ Op. + Tr. from Quarry 24, 1, 7, 6, 25, 17, 23, 29, 12, 11, 5, 10, 8, 9, 15, 11, 13, 2, 8

Extending 645 El. lift to S. from N Ab. Ramp

At 8 AM. dumping at N 3950 ± Base approved by HWX to N 3800 ± except along Edge.

June 7th 1933 W. Newcomb

5

clear Co. West Rock Emb.

Cat 60 + Scarifier at N Ab on 615 El level

" 60 + B.D. on 634 level. P.D. into Area at N Ab El. 615-634: + along W. Slope

Larry + 10 men place rock El. 600-634

Boek + 1 man Connect hose to Mon #5 to wash

near N Ab on West Side R. El. 615

Trucks 23, 26, 11, 9, 15, 8, 17, 24, 1, 2, 3, 7, 12, 20, 6, 18, 4, 14, 10.

East Rock Emb. El. 625-648

Mon #2 1 Dumpman, 1 Cat 60. Dr. Operator

Boek + 1 Man Wash West Side at N Ab. 10 AM to 12 PM. 1 Man Trench 625 El. Road lift + Edge R.E. AM

→ Elec Pump E. of Dam. Converse, Albert + Eld Party here

Stake for Top of Rock El. 625 West

on to Dry Fill Area.

Spillway Ex. Units still idle on 800 level.

1 Port Comp, 2 Jackhammers, 2 Drillers

June 8, 1933 J. W. Newcomb No 617.
Clear, Cool, Warm. Fohl + Sentinally on work

Spillway: Unit 3 (X) + 11 Idle on 800 El level

1 Port Comp, 2 Stack H. 2 Drillers
All opt + 01 Rep. on 800 level + 2 helpers PM.
* 8 to Quarry early AM.

West Rock Emb El. 634-615.

- ✓ 1 Cat 60 Bull Dozer + Operator 634 El
- ✓ 1 Dumpman to 9A then to placing rock
- ✓ 1 Foreman + 12 men placing rock

on slope (Carter Not out)

Core Mat. 1 Man Watering + remove Cones + Plug holes
1 Corp. Saws at Shop. Boat repairs AM
2 " " " " PM

East Rock Emb El. 648-625

- ✓ 1 Cat 60 Bull Dozer extend Rock Sec
- El. 648 to S. from N Ab. Top Dump #3900±

✓ 1 Dumpman, 1 Operator
* 1 Elec Pump F of Dam + Rock + 1 man wash
El. 625 Rock Surface at N 3600± + 4 Mon Same
2 men Trench across Road El. 625 N 1/2

✓ E edge Rock for Shoulder. Abr + Clean Brush

SW 4 hrs
Quarry Truck
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, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

June 1933 J. W. Newcomb No 617.
Spillway Ex
1-Cat 300 Port Comp 4 hr
1 Driller 4 hr to Quarry.
Unit #1 Idle 800 El
1 Loader 1 hr.
Quarry Bat Day

out with Mr Wood +
over F.W. Rock fill
I talked to Connolly.
Connolly over work
Oproi Shop AM + At Mch 3PM
1 Truck #39 PM.

West Rock Emb El. 634-615

Foreman Harry + 12 men + Cat 60

- placing rock on W Slope El. 634-60
- ✓ 1 Cat 60 Pulling lg. Rock below Gr. + op.
- ✓ Bucket 1 man wash at N Ab to South

on 634 El. lift Mon # 5 - E4730± + begin
3 hr McG + 2 men + 1 Tr Pipe to extend Mon 5 to 634 El
✓ 1 Dumpman? Dump from N Ab to S
Welder on Pipe Mon # 5 - 3 hrs.
" " to 120 to 225

Staked lines " " 320 "
E. Crown Theo. Rock on 650 level E4763
" " " " 634 " E47513
E. Revised " Joe " " " E47713
Trucks from Quarry 13, 2, 12, 4, 14, 1, 15, 11, 18, 5

1 Man Clean up Brush SW 1/2 (Roy)
1 " Water Conc + etc. Clean Lumber.

Mon # 3 Wash West Dy F. 11 Sec 11A to 1130
#3600

East Rock Emb El. 648-625

1 Dumpman + Cat 60 Bull dozer ropi Extend to S. on
Approved Base of 625 El.

June 9th 1933. Contd.

Prep of E. Rock Emb Surf. El 625
 South of #3800 Not Complete. Mr Wood
 Talked to Mr Steres about more than
 washing. - 2 Monitor Operated here
 230 to 315 PM #3800± + Base ahead of
 Dump at 4 P.M. approx. to 3700
 Then Scarified once + washed three
 Surface is soft + saturated.

Prep of West Rock Emb Surf. El 634
 from N abutment not complete +
 Mon #5 Set on 634 level

Mr Frank Lee Took Picture of West Emb Op

Spillway Rock to E. Rock Emb El 648			
610/55	#15 ✓	#25 ✓	#17 - 1105 - 4 1/2 ±
*17	735 - 5	946 - 5 1/2	144 - 5
730 - 5 1/2	715 ± 5	1018 - 5 1/2	227 - 5 1/2
750 4 1/2	803 - 5	1160 - 5 1/2	237 - 5
715 ± 5	813 - 5 1/2	133 - 5 1/2	330 - 5
807 - 5	833 - 4 1/2	254 - 5	353 5
830 - 5 1/2	851 - 5		30
842 - 4 1/2	914 - 5		
900 - 5 1/2			
920 - 5 1/2	926 - 5 1/2	#15 - 4 1/2 336.	Total 7 1/2
932 - 5	940 - 4 1/2		69
1000 - 5 1/2	100 5		27
1034 - 5 1/2	139 5 1/2		30
1060 - 4 1/2	146 4 1/2		4 1/2
1123 5 1/2	240 4 1/2		202
121 5	324 4 1/2		69

June 10th 1933. AT Newcomb. 7

West Rock Emb El. 634-640. Slope
 9 men P.M.
 Harry Foreman + 12 men Placing Rock
 Cat for Scarifier on G34 level top
 El 634-642 = 1 Dumpman
 1 Cat 60 Bull Dozer top
 1 Port Comp. + 2 Men
 1 man Extend #3 Man to El 634 +
 4 hrs help
 At 10:55 Mon #3 begun wash of 634 level #345
 To 2:10 P.M.
 15" 1 Cat 60 on 575 - Slope P.M.
 Lg Pump to Sum. Pool 725 ft to 900 A.M.
 H.O. 616.2 to 617.0 12000 Gal Min ±
 915 1 man Water Core Wall Core 2 other Bdg
 1230 1 Carp N. 46 Core Well El 630
 3 hrs
 Elec. Paint Beat Sum. Post.

East Rock Emb El 625-648
 648 El 1 Dumpman
 Top Dump 1 Cat 60 Bulldozer top Mech Rec 30

Trucks from Quarry to E. W. Rock Emb
 4 6, 13, 14, 3, 9, 2, 11, 12, 26, 25, 18, 8, 1, 30, 20, 5, 7,

Spillway - Unit #11 - Op + Oil + Trucks 15
 along Road in Spillway Pick up + load Rock 15
 10 AM #15 DG to W of 648 1 ft Rock, at Mend.
 2 men Quarry down (from W.R.E. at 8 AM)
 1 Driller " "
 1 man Cl up Brush El 100 + 5 ft
 Mr Wood over Rock Emb + Spillway with Slaves 8-9A

June 10 1933. Clear (Fog Early A) Warm.

Note: At 10-A.M. Began hauling DG from E end of Spillway to West Side of E Rock Emb El. 648 - At N 3950±.

This Rock Emb is well out to Slope Stakes and Toe on My Fill Beach is West of Stakes, and Dump exceptionally Free of Dirt and fine material. Site of Dump to South at N 3825±. No Instructions received as to permission to Dump D.G. here.

West Crown of E Rock Emb El 648 revised this AM. Set 6' E. of old Stakes by Conr. Party

Mr Savage over work with Mr Connolly 135' Cat.

2 to 8 PM Reg. Elec Pump of Wash 625 E1

E. Rock Emb N 3700± to 400 PM.

PM. McCreary 2 men - Copper Lin 8" Pipe Line 2 Ex " Temp Dam to SP

61-130-2	WATER
24-700-5	WATER
24-800-5	WATER
17-700-4	17-700-4
17-800-5	17-800-5
17-800-4	17-800-4
17-851-A	17-851-A
17-920-4	17-920-4
24-900-4	24-900-4
17-945-5	17-945-5
17-955-5	17-955-5
17-1008-5	17-1008-5
17-1019-4	17-1019-4
17-1022-5	17-1022-5
17-1043-5	17-1043-5
17-1055-4	17-1055-4
17-1071-4	17-1071-4
17-1101-4	17-1101-4
17-1123-4	17-1123-4
17-1200-4	17-1200-4
17-145-5	17-145-5
17-205-4	17-205-4
17-235-5	17-235-5
17-300-5	17-300-5
17-305-4	17-305-4
17-326-5	17-326-5
17-335-4	17-335-4
17-344-5	17-344-5
17-401-5	17-401-5
17-130	Total

June 11 1933 Sunday in San Diego. 8

" 12 " " 2 to 6 PM

West Rock Emb E 634-550 Slope
1 Port Comp + 2 Tr. Dr. + 1 Cat 60
1 Foreman (Larry) + 10 men Drill

Rock above grade, Hand Place

NR E. El. 648-634 Dump extending from N Ab to South at N 3750±. 1 Dumpman.

Trucks ²⁴1, ²⁵3, ¹⁵4, 12, 26, 9, 23, 14, 5, 13, 6, 18, 8, 10, 7, 11, 20

Elec Power Line NE 1/2 El 700±

1 man Water Com c 12:40 PM 3:30 PM

East Rock Emb El. 648-625.

Boiler 1 Man - El. Pump* 1 Wash 625 Sur
70*** 1 Cat 60 BD + Op. Dump. N 3750±
N 3600± to 3550± 1 Dumpman
1 " ori DG from Spillway

(1 in PM) 2 at 3 & 5 P.M.

2 men Cut Brush 2 (Kearney) Tools + SE 1/2

Spillway Ex. Unit # 11 + Tr 17, 24, 25, 18, 20 Ex E end. Rock

D.G. to E. Emb El 648-625. D.G. on N Side at N. 1 Op, 1 Oil, 3 Tr Dr, 2 men Quarry Down Rock
1 " " 3 hrs

Mechanics 7 men on 8" Pipe Line to PL from Temp Dam Lt Tr.

6/12/33 Contd.

Camp F. 1 Camp + Steel Mac (Jib) + 1 Tr
670 Road NW 1/2 1 hr. + 1 1/2 hr PM.
Back + Helper PM. Rep etc. Hy. Equip. + extends

Unit #3. to 634 level West. + Wash (Hy)

E edge 634 lift 345-400 PM.

118 Loads DC from 7. W.

754	*17	4 1/2
735A	*17	4 1/2
757	"	5
808	"	5
820	"	4
821	"	4
855	"	4
916	"	5
930	"	4
948	"	5
100A	"	5
1017	"	5
1035	"	4 1/2

6 prop. RTN.

59 1/2 Grass Spillway Road to E P.E. E 620

6/13/33 - Unit #10 + Port Camp, 11.7.

2 1/2 Fill Sec NW 1/2 to Y³ Grass to E R.E. E 620

150 PM Tr	1A	A
220 "	1B	3 1/2
235 "	14	4
318 "	1A	3 1/2
358 "	1A	3 1/2
		16 1/2

Grass above surface

6/13/33 RTN Newcomb.

no 616-3

9

West Rock Emb. El. 648-634 Dump to S

1 Dumper. (Spoke about E. Crown line)

1 Cat 60 B.D. (Spillway 1 hr)

East Rock Emb. El. 625-648 Dump to S

1 Dumper.

1 Cat 60 B.D.

West Rock Emb El. 634-550+

1 Foreman + 8 men Placing

Rock to Slope No Drilling.

2 men 2-4PM from Sp. way

2 men trench NW edge below 575

+ wash Slope 575-

Back 1 man Wash below 575

Ext Pump W. of Dam

+ Extend Mon #3 to wash 634 level + wash 11A.

+ Change #2 to NE #1

" #5 NW to NE #1

Trucks 8, 26, 7, 10, 5, 14, 24, 25, 23, 13, 15, 18, 4, 20, 2, 12, 9, 3, 6

Camp F. 1 Camp + 1 Tim Bridge W of Dam on 670
+ McGuire 9A to 10A

2 men Cut Grass Needs NE #1

Unit #

Spillway. Unit #11 + Trucks 17, 20, 25, 18 - to 1030 hrs

2 men Quarry Rock down to 2PM then to Quarry

2 Drillers, 2 J.M. + 1 Port Camp

Con to Road by Fill Sec NW

McGuire + 4 Men on Sprinkler pipe to NW

1 Truck #5A

6/14/33 3rd Newcomb No Spillway work.
 West Rock Emb El 634-550. Port Comp
 1 Foreman + 2 men Wash
 1 Bl. Pump

Surface of Slope below 575 ft. Hard Place +

Drill large rock above Slope line. + 1 Cat ^{BD} ₆₀₀

1 Dumpman on 648 level at N 3675 +
 1 Cut part time from 5 emb

Monitor #3 Washing 634 Rock Surface
 (disassemble Mon #2 NW 1/2 PM.)

Rock 1 man to 830 + then more Men A ^{IS side Nge}

2 men to 830 (2 cut up Area DG 640 El - on N 3675 + 10-1130)
 3 men Clean up needs to NE 1/2 El 670 + 1M.

Camp F. Helper + 2 Drillers Bridge 670 Road N of
 to 3er Truck haul Timbers.

Core wall. (1 Post Comp Not op) + water Case.

East Rock Emb El. 648-625 - H.M. 1 Cat 60 ^{BD} Op

* 2 men to 5 Ab SW 1/2 230-4 PM
 2 men 830-1130 cut bench at Saw above Graves plant

Trucks from Quarry. 1, 2, 12, 5, 17, 3, 15, 23, 26, 14.
 1, 20, 8, 13, 24, 11, 18, 25, 10, 9.

Unit #7 load Outlet Tower Ex - DG, Rock to E Fly Fill Sec 625 ⁶⁴⁸ ₈₅₀

Trucks 31, 28, 20, 18.

1 Man pile rock around Pipe Nelson N RE Emb 830 -
 Welder + lat 115 on Monitor #3 1/2 (10 PM)

Mc Guire 3 men on Pipe line - Flume to NRE
 slope El. 600 Weld equip + 4 Trucks

Outlet Tower to ERE El 648

7 1/2 y³ gross (reported)

Rock Stripping to Conv. Rock Sec El. 625.

5x3x2	30
4x4x3	48
4x3x2 1/2	27
5x4x2 1/2	50
5x5x4	100
5x4x4	80
6Y Loose	162
5x4x3 1/2	70
567 = 21.4	

Below Surface when 6/29/33
 reported line 6
 filled

South of N 3350 on El 625 East

Rock Emb should be more thorough
 washed.

15" Pump Started at 3 PM.

Camp F + Helper + 1 man to Outlet T
 from 670 Road Adging at 3 PM

June 17th 1933. H. Newcomb

West Rock Emb. El. 600-550. Foreman
Surfacing Slope 9th Cat 60 B.D.
1 Man dump - 648-634. 3550t
1 " Tending Spray 600+ El Nge

Trucks from Quarry to E. W. Emb.

R.	17,	15,	7,	20,	x
	18,	14,	6,	32,	
	25,	3,	5,		
	23,	13,	3,		
	24,	9,	2,		

East Rock Emb. El. 648-625 3550t

1 Dumpman, 1 Cat 60 B.D. operator

Trucks from S.H. Beds to E. W. Emb. 648-625. 5, 1, 18, 6, 8, 0, 3, 4, 10⁷⁸
To 0616-2

Men 4 + 5 operating at E. Emb. 11th u
4 Men.

1 Man Clear Weed, roots etc SW of El 640

Spillway: Ex Unit # 11 + Truck 10, 10², 20, 23, 25

1 Port Comp. x 25 H.

D.G. from 800 El. level S of High Pt

to E. Emb West Side of 648-625 El.

1 operator, 1 Oiler, 5 truck Drivers.

1 Loader boulders. Snipper

2 Drillers near E. end 750 El. Snake holes

(Drilling P.M.) 1 Man Dress slope E. end SW

No rock loaded AM

No rock loaded P.M. Elliot

June 18th 1933. H. Newcomb In San Diego 12
19th 1933.

Spillway Ex. TM Morgan Co Shore Northwest 2349
Cat Traction.

Cap 9: 7: 9: 10:
Trucks 3, 2, 7, 8, 10¹ D.G. from Sta 2 El 770± SE Pt

High point to E. Hy fill El 648- Load every 3 min
Per Checker

1 operator, 1 Oiler, 4 Truck Drivers, 3 men Drill, load
2 " P.M.

2 Port Comp. 1 operating No Rock hauled AM

PM Rock 1st Tr 24 51st Grns
132 24 4² Reported

Hy S.H. Tr to W. Hy Fill El 648- 1, 3, 8, 0, 6, 7, 18, 5
3550t

West Rock Emb. El. 648-550: change Sprays

to S. of Rock Emb El. 600-625: McG. 3 men to E. W.

begun op 8± 1 man tending.

1 Foreman + 9 men placing rock to Slope

(1 Port Comp) + 1 T.H. Comp Plant op

1 Dumpman - 1 Cat 60 B.D. top

West Rock Emb not out to 648 E. Crown

Called Converse attention + he had line staked

+ told John C. T.C. looked over same 10:30 A

3 Men op on W. Hy Fill Rock + 3 men

2 A... near SW Ab AM

E. R. E. 648-625 - 1 Dumpman, 1 Cat 60 B.D. top

Trucks 3, 1, 3, 8, 20, 26, 14, 6, 18, 21, 1, 15, 25, 9, 11, 22, 17, 7, 10, 5, 12

Sunday 6/18/34 Spillway - El. high
to E.R. Emb. El. 648

143	13	6	Unit # 7
148	25	7	
153	X	6	
200	13	6	
205	25	5	
222	X	6	
220	25	5	
223	13	8	

49. reported.

Per EXL.

6/21/33 Rock Spillway to E Rock Emb. El. 48-625
Truck # 25

505	4 1/2	1242	4 1/2
515	4 1/2		
530	5		80 1/2
602	2 1/2		
620	4 1/2		
630	4 1/2		
646	4		
725	4 1/2		
734	5		
783	4 1/2		
803	4 1/2		
815	4 1/2		
838	4 1/2		
850	5		
913	5		
925	4 1/2		
1117	4 1/2		

76

6/20/33 27 7 percent

Spillway Ex: T.M. Morgan Co. N.W. (12)

Trucks 23, 78, 8, 25, 102

1 Port Comp. + 11 Idle 1-28.

1 operator, 1 Oiler 4 Tr Drivers. 7 men, drill, Load, & Comp Plant.

Mch moved to 800 El 845. 565

Surface D.G. Works X.G. been shot.

No boulders below Surface

Men Shovel D.G. from Springs Snake holes, badly

Shattered Carriage cross hanging Top. Dangerous.

1 man Clean up S. ab. SE in Am

called E.C. attention at 840.

32	25	15	12
6	17	26	11
2	8	24	1
5	13	4	23
	101	20	

Quarry Trucks

Rock to E Emb 625

" " W " 575

W.R.E. Slope 17. 9 men Cat Rd & Op

1 man on Spray (1 1/2 hr) to Spillway

E.R.E. El. 648-625 1 R. P.H. 1. P.G. D.M. 1 op Cat

Men 4 & 5 op on E Hy. Fill. Buck & 3 men

Site Trucks, 4, 7, 18, 3, 5, 6, 80,

Rock fell twice & men just escaped. I called to them once but told Tony I would not accept the responsibility of them working there.

Elec + 1 man lights SW P.C. & Dam.

6/25/33 Sunday Newcomb in San Diego
6/26/33 Monday

505-25-5	805-18-4
508-20-5	815-23-5
508-17-4	819-17-4
509-22-5	820-18-5
524-24-5	824-23-5
535-20-4	830-17-5
535-23-5	832-20-4
539-17-5	835-18-5
545-20-3	840-23-4
549-23-5	849-23-5
555-17-5	850-20-4
557-20-5	858-23-4
609-18-4	902-20-5
580-18-5	911-23-4
615-17-4	1032-18-4
619-23-4	1049-23-4
628-18-4	1053-20-4
633-23-5	1104-20-4
634-20-4	1115-20-5
637-17-5	1118-9-4
640-25-6	1127-18-4
640-18-5	1130-25-4
648-23-4	1134-20-5
652-17-4	1137-18-4
700-23-4	1140-25-5
711-17-4	1143-20-4
714-20-5	1148-18-4
720-25-4	1154-20-4
735-20-4	1154-25-5
739-17-5	1200-18-4
743-18-5	1205-25-4
744-24-5	1211-18-4
750-20-4	1220-25-4
755-25-6	1221-20-4
758-17-6	1240-25-4
	132-25-5
	204-25-5

Spillway
to E R E E I. 648-625
to E Part of fill.

6/25/33
 1 man + 6 men
 + 4 trucks
 * 10

by R.A.T.
 Unit #9 9pm -
 1 Truck
 1 Load Rock 4
 1 " " 5
 1 " " 2
 1 " " 13

175
 171 1/2
 346 1/2 Gross
 130
 Total 359 1/2

Reported m.

6/26/33 Spillway
640 E. Sta 9 + 5 N 9 M Tr 24 + 9
Unit #8 + Tr 46 + 60 Road + Stripping
24 + 95 to 8 AM then
El. 720 + in NE 1/4 of Dam Area - 670 Road.

Spillway Ex
 Unit #7 + Trucks 40 on Top of 745 level
 Sta 3 + 50 +
 Unit #9 + Trucks 78 on 800 El. level Sta 3 + 50
 " 12 + " 102 " 760 " 14
 23
 142

Comp Plant, 32 H op part time
 615-#26 Truck with track from #8 shovel
 Turned over below E Turn E edge Dam out 7:50
 4pm 4pm
 Foreman John C. + Operators, 3 Boilers 10 Tr. Drivers
 Frank Maketa + 8 men Drill, Shoot D.C. Boulders
 Truck 7, 8, 20, 40, 102, 104, 142, 18, 20, 23, 25, 25, 78, 24, 31
 2 Part Comp. Not operating.
 2 men Clean up SE 1/4 PC Area

+ PM Unit #9 at Sta 5 at its slope on 800 level.
 " 12 " " 1 " 760 level

6/27/33 at Newcomb

Spillway Excavation - Rock to E.R.E. 648

505-25-5	905-24-5
511-18-4 1/2	909-12-5
513-20-4	911-26-4 1/2
523-25-5 1/2	911-20-5 1/2
532-20-4 1/2	918-24-5
534-25-4 1/2	930-15-4 1/2
541-23-5	935-24-4 1/2
547-25-5	1040-26-4
552-15-4 1/2	1044-20-4 1/2
554-20-5	1048-24-4 1/2
600-25-3 1/2	1053-26-5
604-23-5	1054-12-4 1/2
614-20-5 1/2	1058-24-4
617-18-5	1104-23-4 1/2
626-20-5 1/2	1106-25-4 1/2
635-15-5 1/2	1111-24-4 1/2 Dirty
643-25-5	1117-12-5
650-12-4 1/2	1134-26-4 1/2
658-20-5 1/2	1135-20-4 1/2
722-23-4 1/2	1148-12-4
724-25-5 1/2	1150-20-5
730-12-4	1152-15-4 1/2
735-18-5	1157-24-4 1/2 Dirty
738-25-5	1201-12-5
745-20-4 1/2	1202-20-5 1/2
750-26-4 1/2	1205-15-4 1/2
805-24-4 1/2	1215-24-4 1/2
815-25-5	1214-20-5
820-15-4 1/2	1215-12-4 1/2
825-23-4	1234-25-4 1/2
825-25-5	1243-15-5
831-12-4 1/2	1205-15-4 1/2
841-24-5	118-24-4 1/2
850-20-5 1/2	140-15-5 Dirty
857-25-5 1/2	140-25-4 1/2
	205-26-4

Total 169

167

336 Reported

Gross Cu 169

One going to flood control holes on Ridge. Rest to alone unit 8 feet of top of "3" at "9"

11/30/33
24
520
497
230

6/27/33 at Newcomb

Spillway Excavation

17

Unit 8 at E end E.L. 750 ± Sta 150 to Sta 14

Unit 7 at Sta 1 ± E.L. 755 to " 1 ± 50

Unit 9 at Sta 3 ± on 800 level to " 4 ±

Unit 12 at Sta 5 ± on 800 level to " 3 ± 50

Trucks 25, 103, 25, 23, 9, 18, 102, 20, 104, 78, 7, 142, 31, 40, 8, 12, 24, 26.

758 AM all level waiting for trucks

DG: Top Soil to E & W. Hy Fills E.L. 648

labor: John Connolly, 4 operators, 4 rollers.

Truck Drivers, 1 Comp Op Part time

1 P.M. Foreman 8 men drill, lead etc, 1 man dress

Mr. Savage & Mr. Wood into 5th Stop on 800 level.

Slope 1 1/2 to 5

6/28/33 Mt. Newcomb Fog to Clear to Farm
 5 AM to 2 PM 200 6-23-4 11 AM
 Railway Excavation. Rock to East R. Emb. 11 1/2

Time	T ₁	G ₁	T ₂	G ₂	T ₃	G ₃		
521	24	4 1/2	812	23	4 1/2	1228	25	5
545	15	3 1/2	839	23	4	1228	23	5
547	23	4	918	26	3 1/2	1240	26	4
605	24	4	1034	15	4 1/2	1255	23	4
640	24	4 1/2	1038	23	4 1/2	130	26	4 1/2
647	20	3 1/2	1052	26	5 1/2	134	23	4
658	24	4	1058	15	4	140	25	4 1/2
702	23	4 1/2	1105	24	4 1/2	145	23	4
713	24	4 1/2	1106	26	5			
737	26	4	1113	25	4 1/2			
744	23	5	1116	23	4			
752	25	4 1/2	1125	23	4			
803	26	5	1131	26	4 1/2			
			1203	26	3 1/2			
			1215	23	5			

55 1/2
 65 1/2
 35
 Total 156.04
 3 hours

Units 8, 9, 12.
 * 8 Sta 1 + El. 760
 * 9 " 3+ " 800
 * 12 " 5 " 800

Trucks: 7, 8, 9, 15, 23, 24, 25, 28, 26, 31, 40, 78, 104, 142

(Port Comp. Not operating) Camp Maint. & op. Port Comp.

Labor: Foreman John Connelly, 3 operators, 3 boilers
 14 Truck Drivers. 1 PM Foreman + 8 men.
 2 men dress N. slope
 2 " " 1 hr each

No rock into Summit Pool.

Unit # 8 Elev. 760 Sta 1+ + 50+50 Elev 745 PM.
 " 9 " 800 12:50-4
 " 12 " 800 " 4-5 + El. 760 Sta 1+ 25 PM.

1049	x	130 PM
80	x	
7	x	18
920	x	CT. 10 A
401	x	
31	x	
23	x	
24	x	
26	x	
15	x	
78	x	
142	x	
25	x	
225	x	

Shot 1 South of N Slope Sta 1+75±
 Lunch hr
 at noon today + after shot
 Top of
 insp N slope from Sta 5+20 to 0+00
 + at 1+75 after the above shot there
 in Crack 1.5 ft of Slope at 1+75
 extends about 8 ft to slope again
 at 10 N

7 holes Vert 20 + 1 Snake Sta 1+ ready
 to shoot at 1 PM.

July 1st 1933. 377 Newcomb 220 629.0

Time	Spillway	Excavation	Rock Truck	Est Loose
507-15-4 1/2	10:49-24-4 1/2	134-24-4 1/2	3	
531-24-4 1/2	10:59-18-4 1/2	138-23-3		
550-20-5	11:05-15-3 1/2	144-24-5		
555-25-4	11:09-18-4 1/2	151-20-5		
558-25-4 1/2	11:16-15-5			
613-25-5	11:19-20-5		17 1/2	
616-24-3 1/2	11:26-19-4 1/2			
620-20-4 1/2	11:30-15-4 1/2			
630-26-5	11:37-23-4			
632-24-4 1/2	11:44-24-4 1/2			
653-18-5	11:50-20-4 1/2			
707-24-4 1/2	12:00-15-5 1/2			
719-15-4 1/2	12:03-24-4			
732-26-4	12:15-18-4			
738-18-5	12:19-15-4			
746-23-5	12:24-20-4 1/2			
7A9-23-5	12:34-20-5			
810-15-4	12:40-24-4 1/2			
858-20-4 1/2	12:47-15-4			
10:48-20-5	12:51-24-5 1/2			
	100-24-4			
	108-24-4			
	124-23-5			

Totals
91
106 1/2
17 1/2
215 1/2
9 3/4 Loose
Truck Est

1/4 3/8 Spillway
Comp plant + op
10 new driver choot
Ramp Road for
Shipping S.E.
Unit 9
Trucks 4 + 43 } 8 hrs
12 slave crew repairs
9 " " } 8 hrs
Repairs
Carter

DG to E. W. by Fill Sec. El 648

Unit #	Stn	El	Trucks
8	3-A	El 745	18, 20, 23, 24
9	"	"	800
12	"	"	750

- 1 Portable Comp + Jack hammers
- Comp Plant + Operator
- 1 Foreman, John Connolly
- 3 operators, 3 oilers
- 14 Truck Drivers
- 1 Powderman, Foreman + 9 men
- Cat box McMillan on Road 2 hrs

377
to 930
Simpson + 29 men

July 2nd 1933 Sunday - 377 In San Diego 220 630.7
377 Newcomb

Spillway	Excavation	Rock Truck	Est Loose
505-24-4 1/2	755-25-4 1/2	119-25-3	
521-24-5	801-23-4	1140-25-4 1/2	
527-20-4 1/2	803-20-4 1/2	1145-24-5	
530-23-4 1/2	813-26-4	1150-18-5	
530-26-4 1/2	825-23-5	1153-23-5	
542-18-4 1/2	826-18-4 1/2	1202-15-5	
548-24-4 1/2	830-25-4 1/2	1204-26-4 1/2	
550-26-5	838-20-5	1208-20-4 1/2	
555-18-4	842-26-4 1/2	1209-18-5	
600-25-5	855-23-5	1209-23-5	
601-23-4 1/2	903-18-4 1/2	1216-26-5	
610-20-5	912-20-5	1217-24-5	
615-24-4 1/2	913-23-4	1226-26-4 1/2	
620-18-5	915-24-4 1/2	1230-24-5	
640-15-4 1/2	915-23-5	1245-24-5	
635-26-4 1/2	922-18-4 1/2	1255-24-5	
635-23-5	1030-18-4 1/2	1256-26-4 1/2	
643-25-5	1035-20-4 1/2	126-18-5	
646-24-4 1/2	1031-26-5	122-25-4 1/2	
657-26-4 1/2	1051-18-4 1/2	142-20-4 1/2	
658-18-4 1/2	1053-20-5	155-15-5.0	
705-20-4 1/2	1057-26-4 1/2		
722-26-5	1102-25-5.0		
728-23-5	1110-18-4 1/2		
734-25-5	1117-20-5		
751-23-4 1/2	1116-26-5		

Estimate 40%
net

340.5 = 243
140
repacked

Totals
121
120
99 1/2
340 1/2
30 hours

Emer Hand Strip 5m 1/2 625- R.E. Sec S A 6

Noon Slide E end on top
Mr. C. Stares E end 3M 1130 AM - 1145
Spoke to John Connolly about Samwick D.G. with rock.

Unit #	Stn	El	Trucks
8	4+75	on 745 level	
9	" 3±	" 770 "	
12	" 4050	" 750 "	

- Foreman, 2 c. 3 operators, 3 oilers.
- P.M.F. + 9 men @ quarry down on high slope
- 1 Port Comp (not operating) Comp Plant +
- Cat box McMillan + 29 men Roads

July 4 1933 In San Diego

220632.6

at Newcomb

Spillway Excavation

505	-24-4	707-23-5	1053-24-4 1/2	1225-25-5
506	-25-5	715-23-5	1101-23-5	1228-18-5 1/2
516	-24-5	716-18-5	1101-25-4 1/2	1234-25-5
522	-25-5	721-15-5	1106-18-5	1235-26-5
523	-15-4 1/2	721-24-5 1/2	1110-25-4 1/2	1242-23-4 1/2
524	-18-4 1/2	735-15-5 1/2	1116-26-5	1248-17-4
532	-25-5	739-24-5	1117-24-4 1/2	1249-18-5
535	-18-5 1/2	739-25-5	1125-15-4 1/2	1253-24-5
538	-26-5	752-24-5	1132-17-4 1/2	1258-17-5
540	-24-5	753-25-5	1133-23-4 1/2	1259-26-5
548	-15-4 1/2	756-15-5 1/2	1137-25-5	107-15-5 1/2
552	-24-4 1/2	807-15-5	1141-17-4 1/2	110-24-4 1/2
558	-18-5	852-18-4	1141-18-5	114-23-4 1/2
601	-23-4 1/2	902-15-4 1/2	1144-18-5	118-18-5
605	-25-5	904-24-5 1/2	1149-16-5	125-26-5
610	-18-5	908-23-4 1/2	1152-17-5	135-15-5
620	-25-5	910-25-5	1152-17-5 D.	146-23-5
631	-24-4	917-15-5 1/2	1155-24-5 D.	151-18-4
636	-26-5	921-23-4 1/2	1157-23-4 1/2	200-26-4 1/2
640	-18-5	927-18-5 1/2	1202-25-5	
655	-23-4 1/2	934-23-4 1/2	1205-18-4 1/2	
702	-15-5	1038-18-4 1/2	1207-24-4	
706	-18-5	1042-26-5 1/2	1210-17-4 1/2	
		1047-15-5	1215-25-4 1/2	
		1050-25-5	1215-26-4 1/2	
			1222-23-5	

Totals
110 1/2
135 1/2
112 1/2
91 1/2
Total Gr. 439 1/2
Net 314 1/2

July 6 1933 at Newcomb

220632.9

Spillway Ex. Rock to E.R. Emb. El. 648- D.C. & Top S. to Bell Hy Emb.

520	-24-5	1107-13-5
535	-15-5	1112-17-5
541	-26-4 1/2	1116-24-5
543	-17-5 1/2	1126-15-5
556	-24-5	1130-17-3
610	-25-4 1/2	1141-17-4
628	-15-4 1/2	1153-24-4 1/2
632	-24-4	1208-24-5
637	-17-4	1209-17-5
640	-15-5	1219-24-5
733	-17-4 1/2	1220-25-5
748	-24-4 1/2	1234-24-4 1/2
805	-17-4	1241-15-4 1/2
810	-24-5	1245-18-5
811	-25-5 1/2	105-24-4 1/2
820	-24-5	111-26-4 1/2
835	-15-5	132-25-5 1/2
846	-17-5 1/2	137-24-5
858	-17-4 1/2	147-17-3 1/2
920	-15-5	

Totals 95.5
88.0
183.5 Gross
131.0 Net
1.4) 183.5
14
43
15
reported

Mr. C. in Spillway 1:50 PM

Mr. C. here 8:00 A

Unit #8 Sta 1+50 El. 825± at N. Slope - 2nd Gulch PM
 " 9 " 4+75 " 800 " " " " PM
 " 9 " 2± " 760±
 " 12 " 1- " 755.

Trucks - 7, 8, 15, 14, 2, 8, 17, 25, 102, 7, 24, 26, 18, 23 (108)
 Comp. Plant. 2 Port Comp. (1 operating) 3 IH. Cat 30.

1 Foreman - Part time, 3 operators, 3 boilers
 1 PM Foreman +
 3 men lead on high pt. near top slope & quarry down.
 2 " dress slope Sta 1+75±
 1 " drill boulders 760 El
 3 " lifters 760 Sta 1+75±.

1 Port Comp. - 4 IH. Comp. Plant

Unit #8 Sta 5- El. 745 A.M. & Sta 4-5 El. 800 P.M.

" 9 " 1+2 El. 755

" 12 " 0+ " 750.

Trucks 7, 8, 24, 104, 10A, 18, 15, 14, 2, 23, 25, 26 (11)

1 F. John Connolly, 3 operators, 3 boilers. 1 PM F.

T & Dr.

3 Men Strip 5 ft x 6 ft - 5 ft Rock Emb.

Sunday July 9th. 1933. H.I. Wood.

Structure, Excavation Class 1 from Spillway

Shovels 7, 8, 9 + 12 - loading to ER EE 148

50 ² - 34 ³	1124-25-4
- 4	1137-15-3
515-25-4	1140-23-4
- 3	1151-18-4
- 15-2	1212 PM 25-4
550-23-3	1217 26-4
610-15-3	1225-18-4
622-15-3	1227-23-5
635-25-3	1230-30-4
642-15-4	1249-26-3
647-25-3	101-25-4
652-15-4	116-25-5
654-25-3	124-15-4
- 15-3	127-25-4
705-25-3	135-15-4
710-15-4	140-25-4
713-25-3	151-15-4
721-15-3	156-25-4
726-25-3	
740-25-4	
752-25-3	
827-25-3	
847-15-3	
912-25-3	
925-25-4	
932-15-4	
1037-18-4	
1039-15-4	
1042-23-4	
1049-30-5	
1055-26-5	
1058-15-4	
1059-25-4	
1105-26-4	
1120-26-4	

$\frac{126}{72}$
198.

4-44³ Loads - 330-530 by H.I.W.

Shovel # 9 moved to
upper lift 1045 AW

Reported

126

7/9/33 J.W. + M Foreman + 8 men per F Mahita
" High " " + 5 1/2 " " Tony

7/9/33 Stripping J. Ab. 8 to 10 loads per Tr + Dr

Loads on ER. EE 1. 648 7/10/33 AM.

1- 44 ³ Ret
1- 24 ³ "
1- 2 1/2 " "
1- 3 " "
1- 2 " "
1- 2 " "
1- 1 1/2 " "
1- 2 " " ?

19 " " Below Surface

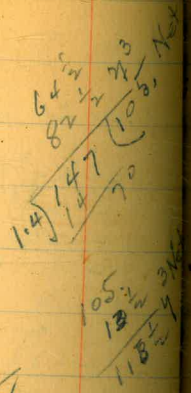
850- 34³ by H.I.W.

Reported

July 10th 1935. J. T. Newcomb 230 638.0

Spillway Excavation

Rock to E	Rock Emb	El. 648
542 - 23 5 4	1200 - 23 - 5 1/2	
620 - 24 4 1/2	1205 - 3 - 5	
645 - 24 5	1210 - 23 - 6	
723 - 24 4	1214 - 8 - 5	
755 - 24 4	1218 - 4 - 5	
805 - 24 4	1220 - 23 - 4 1/2	
821 - 24 5	1236 - 23 - 5 1/2	
715 - 9 4 1/2	1252 - 9 - 5	
850 - 26 5	1255 - 23 - 5	
908 - 8 4	102 - 9 - 5	
926 - 25 50	125 - 23 - 4 1/2	
1045 - 26 4	135 - 23 - 5 1/2	
1053 - 23 5 1/2	140 - 2 - 6 1/2	
1125 3 5	145 - 23 - 4 1/2	
	201 - 23 - 5	
	210 - 3 - 5 1/2	



Port Camp + Cat 30 not op.
 Unit #7 on West Side Sta 7 + Tol. 600 + SW.
 " 8 " Trucks 2A, 3A, 10A 24+ " 800 AM SW
 " 8 " " " 6+ " 700+ PM SW
 " 9 " 6 to Road E of Dam AM to Shop PM
 " 10 + 5 to 11 PM Strip Sta 6 El. 700 + by F. Sec
 " 12 Sta 0-A SW. El. 745 - 750.

3 men Clean up SW + Sta 4 to 640 + (1 of these men SW 8 AM)
 1 PM Foreman + 5 men (6 men after 8 AM) drill lead
 Camp Plant + Operator with
 Foreman Part Time

From Outside Dam Area

625 AM - 15 - 64 Gross	802 - 15 - 5 outside Dam
645 - 18 5	817 - 15 - 3 Net SW
650 - 18 5 1/2	110 outside
700 - 18 5 1/2	818 - 23 - 2 Net SW
710 - 18 5 1/2	836 - 18 - 4 1/2 outside
730 - 23	847 - 18 - 5 1/2
	850 - 23 - 4
735 - 15 - 5 1/2	858 - 23 - 5
743 - 18 - 4 1/2	890 - 7 - 2 1/2 - 4
752 - 15 - 2 1/2 Net Sp. W.	910 - 15 - 3 1/2
757 - 18 - 3 " "	923 - 18 - 5 1/2

Rock from Stripping 2. Ab by Fill Sec to R.R. Emb El. 648

605 - 40 - 3	2 1/2
1241 - 40 - 2 1/2	5 1/2
+ Loads 8 1/2 " per Driver	3 1/2
14 "	13 1/2

#6 thru dam Sec Road 640 El. Silt
 Bed to Shop to Quarry 125 PM.

Trucks PM. Unit 12 8, 78, 23, 108, 104, 106
 " 8 26, 60.
 Unit 8 Side road on 700 + care 1 PM to 2 PM.
 " 7 5, 80, 20

2 men Quarry down Spillway Top high
 Slope Sta 3-4 on Force Apr PM per T.C.
 ? How far Quarry back is OK.

July 11th 1933 At Newcomb.
Drilling 3 Abutment E. 710± PC Sect

Unit #10 + Trucks 40 (43 hrs)

D.G. + Top Soil to E. Hy Fill Sec E. 648-

Rock to E R E. E. 648+

No Rock loaded out

No machines in Spillway

Cut 6 B.B. Rools + clear rock off level 800

2 men Clean up Dam Sec in SW 4 hrs

1 Port + Comp + Driller.

Unit #11 + 12 on Road 670 E of Dam to Connect

with 670 Road near Mix Plant. * 11 moved to 750±

Road N of Mix Plant 740± + down for Repairs

Trucks from Quarry Dump on West Rock ^{E. 648±}

at N. Ab. P.O.G. on same. Ramp fill on 670 Road

dig out + Trucks dumping from 670 level.

7/11/33 cont
Spillway Ex.

25

1 Port + Comp + Cat 30 (not operating)

Comp Plant + Operator Part Time

1 Foreman Part time John Connolly

1 P.M. "

** ⑤

* 6 men Quarry Sta 2-4 near top N Slope

1 " Dress N Slope Sta 2+

3 " Quarry below top N Slope 2nd gulch

1 " Dress N slope Sta 1+50

② 2 " " E " " 0

2 " Quarry + drill " 0 up 1st gulch.

* Seem to be below top of Slope.

** " " " above " " - 12 Noon J.C. says
ok ~~xxx~~ 2 men on T. Apr
today.

200 638.6 2 PM.

In general prep of Down stream Rock

Emb. E. 648 for Rock lift seems ok

South 200 feet needs more washing

(being done 7/11/33) w.

July 12, 1933 H. Newcomb 5 AM to 2 PM.

Stripping South Abutment P.C. + Hy Sec.
to 120 ft deep to n. ab.
✓ Unit # 10 + Truck 40 + 34 ✓ 1 operator
✓ 1 oiler
D.G. + Soil to E Hy Fill Sec
✓ 2 men Clean up SE + SW 700 ft

Prep E. 648 E.R. Emb Scarifying +
AM. only
McMillan grader removing dirt to Hy Sec.
opt. oil.
✓ Unit # 12 on Cen. Road bto near Mix Plant to E 670
Shut-Down Repairs. + Side Cast
✓ 1 Port Comp + Driller.

✓ Unit # 11 Repairs Op. oil. E. 700 Road E of Dam

Spillway. ✓ Port Comp Not Operating.
No Drilling, No Shovels Op here.
No Rock to Dam
✓ 1 PM Foreman

✓ 4 men dress Slope E end.

✓ 1 " quarry NE Cor. Top Slope

✓ 2 " Slope Sta 0-1

✓ 3 " quarry " 1-2. (1 30 PM)

✓ 2 " Slope " 2 + = 1 30 PM

✓ 1 " " 3 + 15 ± Tony.

✓ 5 " quarry W. W. Slope Sta 2 + A + Force Account

① " " " " " " " " " " " "

July 13 1933, H. Newcomb 26

Roads - Unit # 11 op + oil repair Mch E. 700 W
of Mix Plant

Unit # 12 - 500 Ft. of Mix Plant

change. E. 620 + operator
✓ 1 Port Comp + 1 H + 1 Driller

✓ 1 man Clean up S Ab E. 700 +

Unit # 10 + 2 Trucks (Conc + Ab C.W. 5-7 AM.)

✓ Strip # Ab RE. E. 648-670-7 to

✓ 1 Port Comp 1-T H No Shovels.

Spillway - 1 PM Foreman

3 men dress E end Slope

8 " " Slopes Quarry

Force Account

✓ 7 men Quarry down Sta 2-4 N Slope
outside

✓ 1 Driller 7 AM -

✓ 1 man Quarry " " " " " "

1 PM Tony 2 hrs. Load boulders + e

Skid Bldg Above Ground Sops

1-4 x 3 x 3.

1-6 x 4 x 1 1/2

1-4 x 4 x 3

2-3 x 3 x 3.

2-4 x 3 x 3.

25 8
16 primers 24 studs 18 x 1/2
4 fuses
5 "

July 14th 1933 J.W. Newcomb

Spillway Force Account Rock N. N. Slope Sta 2-4

- ✓ 1 Driller with stack hammer + Quarry
- ✓ 6 men Quarry Down Rock

P.M. Tony 730-930

Comp Plant r. P. Com not op.
Constr. ✓ 1 P.M. Foreman

✓ 1 man Dress Slope Sta 4 + 50' 1030-
✓ 1 Driller with stack

Unit # 12 from N.R.E. A.B. El. 648 Dig out Ramp on 640. Road to SW TAM + Tr 250' D.G. to W. Hy. Fill Sec. 60' 31' 40' 78 1/2 day

2 men drive Sta 0-2 + 25'

✓ 1 " dress E Slope

1 " Load

1 Ripper

3 men Quarry Sta 0-2

Unit # 10 from Gravel pit to Sta to Cl up Hy 640+ Area
+ Rain all day

Mon Start 830 Waste RE N end.

10.20	-	31	-	5 1/2	Gross	7:15/33 per Osborne.
10.45	-	31	-	4	At	1:20 tr. 31 blew tire.
10.56	-	31	-	0		
11.08	-	31	-	5 1/2	went in.	
11.21	-	31	-	4		
11.35	-	31	-	5		
11.54	-	31	-	5		
12.12	-	31	-	6		
12.30	-	31	-	5		
12.43	-	31	-	5		
1:05	-	31	-	4		

1.4) 5.35
4.25
1.10

to DS RE El. 660

3 Net

(38.7)

July 15 1933 Spillway Ex. No 638.8

27

✓ Unit # 12 + Tr 40, 78, 60, 25, 31 (108)
on 800 level. Sta 4-5. 2 Port Comp r. 17' 1 cat 30

✓ 1 Foreman - John Connolly

✓ 1 Powderman Foreman

✓ 1 Driller 745 level

✓ 1 Dress E Slope

✓ 2 " " " at E end

✓ 4 Quarry " " "

✓ 1 Drill. Sta 2.

✓ 1 Loads 2

✓ 2 Dress W slope Sta # - 5 3+50

Force

Account 6 men Quarry Down N of Top of Slope Sta 4

7/14/33

✓ 45 Sticks 1x8. 185 Sticks to Box

✓ 16 Primers 50"

✓ 5 Fuses.

7/15/33 5 Primer - 5 fuses 5' 50 sticks

✓ Unit # 10 operator + Oiler

Ex. Sump at Downstream Toe Dam

✓ Unit # 11 on Road El. 700 N.E. of Mx Plant Idle.

Truck No. 108 Came on at 10:45

Note: Rock toe trench 3 men started at

3 P.M. 7/15/33

7/16/33 at Newcomb in San Diego.

7/17/33 " " " " at Comp. Plant + Oil
Spillway Excavation. 1 F.M. 1 P Comp not op.

Unit #12 on 800 level Sta 2± trucks
DG to Blanket M.P.E. El 660+ to Raise E. Hy Fill Sec
E. under wedge of F.R.E. El 648-660

Unit #8 to Sta 1 to El 745. Repairs to TA
+ then DG to same as #11.

1 Foreman - John Connolly. Part Time

1 PM Foreman - Frank Malata

1 man dress Slope NE Cor at top

1 " Quarry down E. Gulch

1 " drill boulders on N. Slope Sta 2± near top

3 " Slope + Quarry Sta 1±

1 " Carries Steel + etc

2 " Dress Slope etc Sta 2±

3 " Quarry down Sta 3±50±

1 " Dress Slope Sta 4± Tony-

Force Account 6 men Quarry + Clean up Options Sta 2±
to 930 AM, 1 man for counter sunk on Slope

Unit #11 on Top Hill Road N.E. Mx Plant. 400 A. 400 A. 400 A. 400 A.
" #10 to Tra 2 E.S. Ab D.C. Sec El. 710± Clean up 660± PC

Down from 930 op Oil to work night Quarry SE 4

7/18/33 at Newcomb

X 20 6390 28

Spillway Excavation. DG to E. Hy Fill Sec
Unit #8 Sta 2± Bl. 760± in front of 2nd Kill
" #12 " 3±50± " 800± base of High Cut

Trucks 7, 8, 78, 105, 108, 102, 142, 106,
2 Part. Comp + Cat 30 (Middle) 3 F.M.
1 Foreman
1 PM Foreman

2 men dress Slope NE Cor
1 Driller near Slope 20' below top Sta 2±
4 men Pick & Shovel Sta 1 - bench toward Slope
1 " Carry Steel + etc

1 " Quarry down Slope Sta 2-5 ft Slope
1 " Drill Sta 3±50± near top Slope

Unit #10 + 2 Trucks SE 4 P.C. Exc. Cl.
Below 755-31-3A Rock Not to ERE 640
820-31-2±
845-31-2±
up DG - to E. Hy Fill Sec. 2 men Clean up PC
Sec NE El. 640-670.

1 Driller on Road E. of Dam 670-600± Part Comp
* 1 " " Core Tr Hole 3890 Testing of Void Area -
1830 AM to 5 PM.

7 AM
Mr. Stares Starts 7 men P.C. Cl. up + Core Tr

1 man Power light pole holes Silt b 750 E. end SW.

Drilling Vent Hole near N. Slope in Wedge
Sec. Rest per W.

1257-101-2' Top Ledge near
101-105± 2'

1257-101-2' Top Ledge near
101-105± 2'

7/19/33 J & Newcomb

Spillway Excavation

Broke down 7 A.M.

Unit #8 Sta 0 ± El. 750 } DG to E. & W Hy

✓ " 12 " 1-2 " 760 Sec. El. 660-648

Trucks 7, 8, 78, 105, 142, 25, 106, 107, 102

✓ 2 Port Comp (Idle) ✓ 2 F.X

✓ Cat 30
✓ op + oil + 8 on Repairs

✓ Labor: Foreman John Connolly - Part time

✓ 1 P.M. "

2 men bench + drill 825 Level Sta 4 + 75 ± S

3 " Quarry down on high Slope Sta 3-4

4 " dress Slope Sta 2-3+

1 " Steel. Skipper.

1 " dress N Slope N.E. Cor

1/2 " drill boulders 760 ± El.

13 " 8 M.

+ Core Tr Ex

S. Ab. P.C. Clean up Unit #10 + Tr. 31 DG to E Hy

✓ 1 operator, + 1 Tr + Dr

✓ 1 Oiler.
✓ 5 men w side

Mr Connolly out 6 A.M. ±

7/19/33 J & Newcomb

1 P.M.

29

General Notes -

Carpenters working at Outlet Tower +
at Shop near Mixing Plant.

3-Tran. Mix Trucks Stand by at Mx Plant.

No East of U.S. Toe Wall.

" Summit Pool 638.8

East Rock Emb Surface 648 to 625 ±
El.

1 Foreman (Larry) This rock
No of #360 6 Men Placing. Surface has

too much appearance of Yonkers
about 12" thick on fines + dirt.

Rock from Quarry to E. N. R. E. Sec. El. 660 ±
1 Dumpman each

DG from Spillway to E. Hy Fill Sec. 648 ± under
El. No of #360.

Rock Emb Sec. 1 Bulldozer cleans DG
N. of El. 648 E Rock Emb Sec. - 1 Dumpman

No Washing at 1:30 P.M.

1 Cat 60 + McMillan Clean up P.C. Sec SE ±

El. 640-650 1 to 2 PM

7/20/33 St. Newcomb

2206388

Sp. Kway Ex.

Unit #8 Brokedown - El. 740 E of S.W. Road

" #12 Sta 1+80 El. 760 + Tr. 7, 107, 106 25' 8'

✓ Comp Plant #1 Drill on same. (18) (23)

✓ 2 Port Comp - 1 operating

✓ 1 Foreman (John C.)

✓ 1 Powderman F.

✓ 1 Man Slope Sta 5±

✓ 8 " " " 2-4 (1 Driller) ² DG + Blids or R₂

✓ 2 " " " 1-2 ^{Below Top near S}

✓ 1 " Drill - Boulders Sta 0 El. 750±

✓ 1 Hipper

Rockt. ERE El. 660-

1039-18-5 1/2	1208-18-5	150-23-6
1050-23-4 1/2	1228-18-5 1/2	154-18-5 1/2
1105-18-4 1/2	1242-23-5 1/2	
1125-23-5 1/2	1249-18-5	
1132-18-5	105-23-5 1/2	
1154-18-5	118-18-5	
1203-23-4 3/4	133-23-5 1/2	
	142-18-6 4/8	

11 1/2
33 1/2
43
14) 88 (63.7) net
84
4 started

✓ Unit #10 Ex gravel near Mr. Plant.

✓ Sit Trucks 4, 6, 23, 102, 1, 5

✓ 8 Men Ex, 2 Ab Core Trench + Carpenters for ch

✓ 1 Truck in PM. DGX, E Hy Sec El. 648± at S. Ab.

7/20/33

30

Frank hee took pictures at East

end just West of photo. El. 750 of Kodak

Picking Man, Quarrying about 40' up about

15 out from Slope. Material Pulverizes

as picked down + falls below vision

of Kodak apparently. Material as

in face of Cut looks very much

like Solid Rock but there are Solid

boulders embedded in a more or

less firm Disintegrated Granite

that pulverizes with sufficient jar.

75' West of above on T55 level Drilling Vert hole.

Comp #4 - I.H. only on same geo. Driller

1138 down 2'
1141 " 4'
1145 " 6'
1149 " 9.6' (Cut so fast would not clear hole
blew out etc.)

8:45 AM - 21 load 6-20' Holes here.

Start the above holes 10 AM. 7/21/33 at 1149 ft

started drilling another Series of holes 11 the ^{See} Dgee

July 21, 1933, N. Newcomb
Spillway Excavation 200 639

Unit #8 Broken Shaft + El. 740 E of S.W.
(Work on at SW. Int. 1 PM on drill 4)

Unit #12 Sta 0 El. 750 in NE Cor Ex
D.G. to c ✓ ✓ ✓ ✓
Trucks 25, 18, 8, 107, 7,

1 Foreman - John Connolly - Part time

1 P.M.F

1 Man Quarry Sta 0 + 50 El. 790 ±

1 " Quarry Slope Sta 1 + El. 810 ±

1 " " " " 0 " 780 ±

1 Man drill Sta 2 + El. 765 +

9 " Slope Sta 2 to 4 + 50. El. 825 - 900 1 Dr. 11

300 Ment over top of slope Sta 1 + 75 - 5 + 75 " Crack at Top -
Told Frank -

Corp F & 6 men 8:30 to 1 PM Pipe to fill Summit Pool.

Time	Trucks	Gross
6:03	18	4 1/2
8:31	18	5
9:20	18	4 1/2
11:44	18	4 1/2
11:58	18	5
12:10	18	4 1/2
12:18	18	5 1/2
1.4 33.5 (2.4) Det		
55		

Reported

7/22/33 N. Newcomb Spillway Excavation. 5 AM 1930 AM 200 639.3

Unit #7. Sta 5 + El. 800 near N. Slope DG

Unit #8 " 2-3 " 845 (El. 755 (10:30 AM))

Unit #12 " 1 + El. 750 (Rock) Rock

Trucks 18, 23, 24, 25, 8, 142, 15, 25, 107, 40, 108, 7

1 Port Comp. Cat 30, Comp Plant - A.T.H.

1 Foreman - John Connolly

1 Powderman foreman + 14 men (1 Loader (1 Drill DG, 2 Drill Rods) (7 Quarry + Slope) (1 Nipper) 1 at 60 (10:20 - 11:00) Dressing road, 1 slope)

Note: Frank Lee took picture at Sta 4 + 15 El. 800 at 1 PM after Unit #7 Pulled out. Shows rock with shovel teeth marks in hard D.G. at 75.

D.G. to El. 740 See El. 660 + Rock to B.R.F. El. 660

Time	Truck	Gross	Gross	1 PM - Shovel #7 to 4 + 50 - Rock.
5:07	23	5	610-18-4 1/2	832-18-5
5:10	18	5 1/2	610-15-5	843-23-5 1/2
5:13	24	5	616-24-5	852-18-5
5:16	15	5 1/2	620-25-5 1/2	901-23-5
5:17	23	5 1/2	620-23-5 1/2	907-24-4 1/2
5:19	18	5	626-18-5 1/2	912-18-5 1/2
5:19	18	5	627-15-4 1/2	919-23-4 1/2
5:25	24	5	631-24-5 1/2	924-24-4
5:30	23	5	635-23-5	928-18-5
5:33	18	4 1/2	636-18-5	1041-23-4
5:37	24	5	642-24-6	1045-18-5 1/2
5:38	15	5 1/2	644-15-5	1049-24-5
5:42	23	5 1/2	647-23-5	1055-23-4 1/2
5:45	18	5 1/2	650-18-5	1101-18-5
5:48	24	5	654-24-5	1108-24-4
5:55	23	5	700-23-5 1/2	1112-23-5 1/2
5:58	18	5	707-18-5	1117-18-5
6:01	24	5 1/2	715-24-5	1123-24-5 1/2
6:04	23	6	718-23-5	1129-23-4 1/2
6:08	23	6	743-18-5	1137-18-5
			746-24-4 1/2	1137-18-5
			751-23-5 1/2	1141-24-5 1/2
			758-24-5	1144-23-5
			810-18-4 1/2	1177-18-5
			815-24-5	1123-24-5 1/2
			818-18-4	1147-18-5 1/2
			121.	1150-24-5 1/2 Hyd.
				1205-18-5
				118 1/2

Totals

98 1/2
131 1/2
118 1/2
42 1/2
390 1/2
28 (279)
110 (110)
98
25 Det
126

Reported

7/24/33 at Newcomb Elway No 640.5

Spillway Ex.

Unit #7 Sta 4+50 El. 800 near N Slope

" #8 " 2+50 " 815-20+6 " "

" #14 " 1+ " 750-20+ " " "

Trucks: 8, 142, 107, 25, 7, 78, 103, 15, 23, 18, 24, 25

Comp Plant, (1 Port Comp. 1 1/2 H)

1 Foreman, 1 P.M. Foreman, 3 operators, 3 boilers, 12 Truck Drivers, 8 men Slope & Quarry Sta 1+50 to 4+50, 1 Drill 190 Sta 4+50, 2 men Quarry NE Cor., 1 Niipper

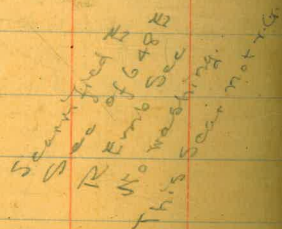
Slide last night Sta 4+ Near Top N Slope John Connolly request of

Mr Wood Look over Cond. Mr Wood here & told " .. did not Consider had been over shot. 35 ft. drill at 800- Sta 4+00 stops in Crest + 1037-

4 1/2 Guess.

525-18-5, 535-24-4 1/2, 555-24-4 1/2, 615-15-4, 621-24-3 1/2, 628-15-5, 642-18-5, 651-15-4 1/2, 702-23-5, 709-24-5, 712-15-3, 717-18-4 1/2, 720-24-4, 722-23-4 1/2, 802-18-5, 814-24-5 1/2, 843-24-5 1/2

853-15-5, 930-24-4 1/2, 1032-25-4, 1039-18-5 1/2, 1052-23-4 1/2, 1053-15-4, 1125-23-5, 1148-25-5, 1225-18-4 1/2, 1241-18-5 1/2, 1253-18-5 1/2, 1309-18-5 1/2



58 1/2, Total 80.5, 58.5, 1385, 126, 125, 99, Reported

Mary Wood Loads E. of PM Sec.

7/25/33 at Newcomb

Spillway Ex. Back to BEE El. 660- (E side)

Unit #7 Sta 2+50 El. 810

" #8 Sta 2+ El. 815 AM at Sta 2 El. 745

" #12 Sta 0+ El. 745

Trucks 78, 7, 8, 103 (25), 23, 24, 15, 25, 18.

1 Port Comp - 1 1/2 H 20+ holes at N of End of Core Wall

Spill DG NE of M4 Plant, " " " " " " Spillway Unit #7 + Tr 24 25 18 PM

1 Foreman John Connolly - Part Time

1 P.M. " 3 men Quarry Sta 0-2

1 " Drill " 5 near Ogee El. 785-800

1 " Tool Man, 1 " Quarry & dress slope Sta 2-4

3 operators, 3 boilers, 9 Truck Drivers

1 Checker for loads.

Began washing BEE El. 642 Sand 6:45 AM. Part already washed 200' Sand. Nets but removes very little.

515-18-4 1/2, 539-18-5, 550-23-3 1/2, 551-24-4 1/2, 618-18-3 1/2, 627-25-4 1/2, 633-24-5, 659-24-4 1/2, 709-15-5, 717-18-4 1/2, 723-23-3 1/2, 724-25-4 1/2, 724-23-4 1/2, 756-23-4, 800-18-4 1/2, 807-15-5

814-23-4 1/2, 822-24-5, 825-23-5, 837-24-6 1/2, 852-23-6, 858-24-6, 903-15-5, 905-23-4 1/2, 1036-18-4 1/2, 1052-25-5, 1100-24-5, 1115-15-3, 1132-24-5 1/2, 1132-23-5 1/2, 1142-24-5 1/2, 1215-15-5 1/2, 1219-25-5 1/2, 1231-23-5, 1246-18-5, 123-15-4 1/2

Frank Lee + Photographer, Took Picture 145-800 Level, Toward Sta 3+50

170, 14, 300, 200, 160, Reported

7/26/33 AT Newcomb No 644.2
 Spillway Excavation
 Unit #7 Sta 2-3 El. 800+
 " " Sta 3-4 El. 745

" " " " " 745
 Trucks 1, 8, 25, 78, 15, 25, 18, 23, 40

1 Comp Plant 3r4 4x. 1 P. Comp 1 D.M.
 Mr Tom Connolly or Mark this AM. (has not been here recently)

1 Foreman t.i. P.M.F. 2 Dumpmen.
 3 operators Boilers Truck Dr
 4 Men Slope Sta 1+50 Near top
 2 Drill Boulders 755 Sta 0-2 on Slope NE Cor
 1 Steel tool Man.
 1 Drill 800 Level 5. Edge Sta 5+ boulders.
 1 Load
 1 Dress N Slope Sta 2-5 El. 800-875.
 1 Checker

Time Tr 4' 6" Rock

532-15-5	15.6
1045-15-4 1/2	25.1
1050-15-4 1/2	23.4
1055-23-5	
1127-23-4	
1145-23-5 1/2	
1215-15-3	
1228-15-3 1/2	
1251-15-4 1/2	
110-15-5	
140-23-4	

34.6
 35.2 Not Reported

More waiting done
 than washing or
 clearing before washing only

7/27/33 AT Newcomb No 644.2 P.M. 33
 Spillway Excavation
 Unit #7 Sta 5+50 S. Side Pt., El. 775

" " " " " 3+ El. 750 } 20 to 40 ft of SW Creek
 " " " " " 4+50 " " } 35 to 40' face Point
 " " " " " " } or few boulders
 " " " " " " } Wonderful loading
 " " " " " " } Shot 20+ 8+9 Kegs
 " " " " " " } Powder

Trucks 18, 24, 25, 15, 12, 9, 20, 13, 23, 25, 40

Comp Plant, 2 Port Comp (idle) 1 Cat 30
 1 Cat 60 B.D. Idle. 4 D.M.
 1 Breaking Prev. Hammer.

Supt Stiers
 F. John C.
 PM Foreman. 11 Truck Drivers
 4 Drillers. 1 Tool Man. 1 Loader
 1 Man dress N Slope Sta 1.
 4 " " " " " 3+ Sta 4+
 1 " Clears for deep holes. El. 800 S Pt.
 2 Dumpmen, 1 Checker

Edd + 2 men X Sec on 800 Level

513-25-4	844-25-5	14.7
529-18-5	904-18-5 1/2	25.4
540-24-4 1/2	916-24-4	24.9
548-25-5	932-24-2 1/2	14.2
558-24-5 1/2	1102-24-5	23.1
604-12-4	1118-24-4 1/2	9.2
614-18-5 1/2	1132-18-5	
641-18-5	1138-24-5	
656-18-5	1153-18-5	
762-23-4 1/2	1215-24-5	
808-25-5	117-24-4 1/2	
818-24-3 1/2	200-24-5 1/2	
830-9-A D		
841-12-A D		

56.7
 60.7
 116.5
 112.5
 45
 (83.7) Not Reported

Spillway Excavation.

- Unit #7 West Side High Pt. Bl. 700+ Sta 5-6
 DN Bl 775 S side Spillway W of Dam Axis.
- " #8 Sta 4-5 Ramping up to W. 745 to 770+
 730A " 0-5 " up to W side Casting
- " #12 Sta 0-1 Bl. 745.
- " 730A " 3-5 "

- Trucks 18, 24, 25, 20, 23, 39, 15, 40, 13, 12.
- 2 Port Comp + Cat 30. 3 T.H.
- Comp Plant (3 Drills on same)
- 1 Foreman J. Connolly Part Time
- 1 P.M. F. Malota 2 Dumpmen 1 Checker Trucks
- 3 operators, 3 boilers, 4 Truck Drivers
- 4 Drillers, 1 Loader, 1 Tool Man, 6 men Quarry Sta-4
- 1 Sub. Bl. Root } 1 Drill helper
 3 " " " } start at 10:30 AM. Starting Cat 30

512-13-4 1/2	1255-25-5 1/2
750-20-4 1/2	103-24-5 1/2
756-20-3	117-18-5
809-15-4 1/2	133-24-5
848-23-4 1/2	158-18-5 1/2
925-23-4 1/2	
1116-15-4	
1121-25-5	
1142-18-5	
1157-18-5 1/2	
1204-25-5	
1223-25-4 1/2	
1233-18-4 1/2	
58 1/2	

26 1/2
 58 1/2
 1.4 } 8.5
 8 }
 (603) net
 Rock to ER 2.50660
 Reported

Spillway Excavation.

- Unit #7 Sta 5-6 S. Side Bl. 775±
- " 8 " 5+10 " " 780±
- " 12 " 3 " " 745±

Get Top Soil Spoils. Unit 7 to W + Units 8, 12 to E

- Unit 7 Trucks 18, 24, 25
- Unit 8 Trucks 39, 40, 44
- Unit 12 Trucks 15, 20, 23, 8
- 2 Port Comp + Cat 30
- 4 Jackhammers
- Comp Plant

- Foreman John Connolly. P.M. Foreman
- 12 men drill load, dress slope, etc
- 4 Drillers, 5 Men Slope Sta-4, 2 helpers, 1 loader
- 3 operators, 3 boilers, 2 dumpmen, 1 checker, 10 Dr.
- (731-15-2 Wasted units)

Time Trucks Gross

6:27-18-6	10:52-25-5
6:31-24-5 1/2	11:06-24-5
6:45-18-5	11:22-25-6
6:55-24-5 1/2	11:34-18-5
7:05-25-5	11:48-25-5
7:13-24-4 1/2	12:11-25-5 1/2
8:45-20-5 1/2	12:29-24-5 1/2
10:34-18-4 1/2	
10:47-24-5 1/2	
41. ✓	

Sunday 30th
 P.M. Felt Men
 1 Shovel + 3 Truck
 Sur Roads
 36 1/2
 47
 14 } 83.5 (60) Net
 139 }
 126 }
 1660-

Unit #8 moves to Sta. 4+90 at 10:30
 Unit #12 " " " 3+50 " "

7/31/33 Newcomb 200 646.5

Spillway Excavation

Unit #7 Sta 5+ on S Side El. 775.
Unit #8 " 5 " " " " 130 PM.
M. Lippincott Stereo A Rolle Eto Photographs Several Pictures

Trucks 18, 24, 25, 39, 40, 23, 15, 20 (25)

Comp Plant: 2 Port Comp, Cat 30, 4 JX

1 Foreman Part Time, 1 PM Foreman

Drill 200 Stas 2 operators, 3 boilers

1 " 700 " 1 Checker 2 Dumpmen

1 " + 800 " 1 Slope 1 Comp Man

6 Men Quarry N " 0-1 8 Truck Drivers

1 Loader, 1 Nipper, 1 Grease Drilled 6 20 holes Today on Comp Plant line

Table with 4 columns: Station, Elevation, Notes, and other data. Includes entries like 515-18-5, 540-25-4, 543-24-5, etc.

8/1/33 Newcomb 200 647.35

Spillway Excavation

Unit #7 El 770 Sta 5-6 75 N of S Slope
Unit #8 " 770 " 5+ 50 " " " "
Unit #12 " 745 " 5- to 44 " 0 Sec

Trucks 18, 23, 25, 39, 10, 15, 20, 40, 24, 44

Foreman, 3 Operators, 3 Boilers, 1 Checker

5 " Dr. 11 (Slope 0-1), 1-800 El. 440-450 El. 500, 1-745 Level Ogee Sec

3 Drillers Boulders 780-800 Sta 5+

1 Loader

Unit #12 PM-operation

Table with 4 columns: Station, Elevation, Notes, and other data. Includes entries like 515-20-5, 517-15-6, 527-20-5, etc.

August 1st 1933 8 AM +-
 Mr Hipping Cott, Tom Connolly + Allen Rowe
 Also Mr Stares, John Connolly
 " Mr Albert

On 780 El level in Spillway.

Spoke to each of the above. Ask Mark
 if O.K.P. was with him. He did not know where
 he was.

Mark took some pictures + over work with
 T.P. + talked with Mr Albert

8:55 AM last Steel on 3rd 20 Hole Drilled
 this AM by George. N 4400 E. 5090 - E 5160 5 holes

Mr Savage on Work II-

Total 5 holes here. 8 + 9 Kegs Powder. 25 cu ft
 (Drivers 14 + 23 Clay too thick) 20 to 30 feet face

8/4/33 Geo. Drills. N 4405 E. 8105
 E 5200 + E 5260

August 2 1933. H. H. Newcomb No 648.3
 36
 Spillway Excavation.
 Unit 7 El. 775 E 5000 N 60 of Sp. Crest

" 8 " 775 E 5050 N 125 " " "
 " 8 Loaded 221 Truck Loads this Shift.

" 12 " 745¹⁵ Sta 1+50 Qgee Sec Ex

Trucks 17, 18, 25, 23, 24, 39, 10, 20, 44, 26, 25, 34

2 Port Comp, 5 J.H. Comp Plant.

2 Drill Polds 775 level, 1 Drill 810 E 5200 N 4400
 1 Sprunge Mucked out to E 5260

1 " 745 level Qgee Sec. Sta 2+50 1 Drill Slope Sta

6 men, Slope 0-1 1 Nipper, 1 Loader

PM.F + Foreman John Connolly, 3 operators, 3 boilers

1 Truck Checker, 2 Dumpmen.

Rock to E R.E. El 660 - #12 Unit DG to E of 5th
 Time to 3³⁰ Gross. #748 " " " " "
 N 5192 E 5000 E 1780
 Very rocky to 40 steps
 N 5312 +

516-25-6 1/2
 531-10-5 1/2
 557-24-6
 +606-26-6
 608-23-6
 707-24-6 1/2
 740-23-5 1/2
 800-25-5 1/2
 845-17-6 1/2

(39.7)

Reported

Unit 10 + 1 Tr. Cl up by Sec 5th El. 660 + DG + Rock Fragment Ctr Spoil
 H. H. Newcomb El 660 at 5th

#31-1209 PM. Reg on DG. to Dam Units 7 & 8.
 25 1215 " " " " " " "

8/3/33. #1 Newcomb

20.649.0

Spillway Excavation

Unit #7 El. 780 125 N of N end Dam DG.

*8 780 Sta 2+ 75 S of N. Slope DG

*12 " 745-20 " 2- Ogee Sec DG

Trucks 40, 34, 8, 24, 39, 18, 10, 17, 26, 20, 25, 23, Unit 12

2 Port Comp. Cat 30. 3 J.T.

E 5250 NW 4440 Hole 21 1 1/2 Kegs. - 550 lbs ±
= 2 1/2 to 1 1/2 Powder.

1 Foreman Part Time John Connolly

1 P.M. " 3 operators, 3 boilers, 13 Tr. Drivers

1 Checker

3 Drillers: 2 Nipper, 1 Loader

Unit #10 op oil + 6 men CI op P.C. Sec SE Elliot

530-20-6.7 Gross
838-20-7.1

1.13
1.06
40

No more rocks haul to lay
Reported J.P.N.

8/2/33

37

#4290 # 3278
E 3294
E 3315
E 3336
E 3356

21' Hole 11 Kegs
21" " 10 "
21" " 10 "
21" " 10 "
21" " 10 "

15 to 20 Front

5 AM to 8 AM George Drilled 4 21' holes here + blew out after Spring by loader. per George

8:29 AM #8 Waiting for truck

8:36 "
8:41 "
8:47 "
8:51 "
8:57 "
9:00 "

26-47 20-38
25-16 7 39 Com

1:30 PM Trucks Units 7+8 inter change

39. 5.44 30
8 Feeling Slipper Bed 5.3 Cuyler 30
17. " 53
24. " 47
18. " 52
23. " 48
10. " 42
40 5.44 30
34 -6.67 40
15 3. 5

160 Loads 28.

45 Loads
45
38
5

8/4/33 HT Newcomb

220 650.

Spillway Excavation

Unit #7 E1780-150' N of S. Slope
at 1 P.M. N4400+ (780) } Side Cast to 745
Unit #8 " 790 Sta 3± 75' S of N Slope Level.

Unit #12 " 730 " 250' Qgee Sca.
" 740 " 0 " " E end.

All D.G. Good loading Short Trucks.

Trucks 34, 18, 10, 23, 25, 8, 17, 24, 44, 20, 7, 26, 40
39 (AM) 200 935 ← unit 12 →

1 Port Comp 50' H. (4 on Comp Plant)

1 Foreman, John Connolly, Part Time

1 P.M. " 3 operators 3 boilers.

4 Drillers (2 on Block holes Slope Sta 0-1)

- 1 " Bids 800 Level + Slope above 800
- 1 " Down holes E1, 800 E500± N4400
- 1 " " Sta 3-4 E1 745-

4 on Slope Sta 0-1

2 Loading 2 Nippers + 1 Powder Carrying
D.G. to E. Fill El. 660 + Rock to E.R. El. 660

1033 - 26 - 5 1/2

1046 - 20 - 6

1058 - 26 - 6 1/2

1107 - 20 - 5

1113 - 26 - 5 1/2

1120 - 20 - 5

1135 - 26 - 4 1/2

1143 - 20 - 7. F.F. took Picture
as dumped El. 660 N.E.

1147 - 26 - 5 1/2

123 - 20 - 6 1/2

14 | 57 (410)
| 56
| 10

8/4/33 Spillway.

4.78

38

+ Drilling

Loading Holes on 800 Level 7 A.M.

N4440 E 5130 - 21 Hole 8 Keys: Bl. Pen

N4435± E 5110 - 21 " 9 "

N4425± E 5090 - 21 " 9 "

N4420± E 5070 - 21 " 8 "

N4425 Good E 5050 - 9 "

N4427 E 5030 (8 AM Drilling 15' down) 5 Hole blocked

N4430 E 5010 (8:20 started 9:12 Complete) blew 10 "

" E 4990 (9:15 " " 6 Keys Hole block

" E 4970 (on off 6 " "

N4450 E 4975 1 PM through drilling 8 Keys 140.

Called John Connolly attention to

Boulders up Ravine Sta 1 - were to have

been quarried down Sunday 7/30/33

J.C. said had forgot them.

12 Noon Frank Lee took picture #7

operation:

August 5th 1933. N.W. Newcamp #20 651.6

Sp. 11 may Excavation.

Unit #7 El 780 E 5000 N 44 40±

" #8 " 780 E 5100± N 44 45±

" #12 " 740± Sta 0-1

Trucks (44) 23, 18, 24, 40, 17, 39, 25, 26, 20, 7, 26
Dct. E. HyFill El. 660 + Some to W. HyFill El. 660.

- 1 Port Comp + Cat 30. Comp Plant (A Jack H on)
- 1 Foreman Part Time John Connolly.
- 1 Powderman Foreman, 1 Armer.

- 2 Drill on Slope Sta 1, + 1 Sta 3+ same
- 1 " Blower + etc " A El 745. 1 Loader
- + 1 " El. 800 Sta 3+ Vert Holes 2 Nippers.
- 5 on Slope Sta 0-1
- 1 " " " 3+
- 3 operators, 3 oilers, 1 Truck Checker

Time Truck #3 Gross

512-23-6 1/2	922-20-6
519-18-6	10-44-20-5
530-26-6	11-00-23-5 1/2
542-20-5	11-04-20-6
707-20-5 1/2	11-05-23-6
740-20-5 1/2	11-14-20-4
755-20-6	11-16-23-5
810-20-4	11-28-20-6
820-20-5 1/2	11-38-23-4 1/2
853-20-5 1/2	11-48-20-3
908-20-7 1/2	11-48-20-3
	PM 12 24-20-6
	1 17-26-5 unit 8
	1 40-20-5 " 12
	1 55-20-5 1/2
	1 58-23-6
	18 1/2

62 1/2
78 1/2
101. Cur 20 Not
Reported

* 8/5/33 Drilling El. 800+

N 44 48 E 5165 20+

N 44 55 E 5180 20+

N 44 45 E 5155 20+

N 44 60 E 5195 20+

N 44 68± E 5210± 20±

10.30 A.M 1 Cat. 40 + Road grader 2 operators 3 armin.
11.10 Tr #7 starts at Unit 12 hauling DG. to East spoil bank
11.00 Tr #23 " " " " " " " " + truck
to upstream embankment.

1 Drill Sta 3 El. 890
1.35 PM Unit #12 moved to Sta 1+75 El. 740±

1.35 PM 2 drills in Blars 1-1+50 El. 740±
Left work after shovel units shut down
at 2.05 PM. J.W.W.

8/6/33 Sunday in San Diego

8/7/33 Mt Newcomb #20653

Spillway Excavation

Unit #7 E1.780 E 5050± N 4430±

" #8 " " E 5200 N 4430±

Holder Equip on Repairs 12 Shrs. Bucket Repairs 630 to 1 PM

" 12 " 735± Sta 1± Qgee Sec.

" 745 + " 0-1 Near N Slope

" 9(630A) To E1.725± Sta 2+75± Qgee Sec.

1 Port. Comp. Cat 30 Comp Plant 48 H

Trucks 23, 24, 25, 44, 40, 34, 60, 8, 20, 26, 18

1 AM + 10 S, 105, 7, 142, 39, 5 (275 hrs) (78)

M + Stores M + Connolly, Frank Lee 12 Truck Drivers

John Connolly Part Time

P.M. Foreman, 4 operators, 4 oilers, 13 men

8 men on slope Sta 0-1 + 1-2

1 Driller " 0-1 + Boulders P.M.

1 Loader Lead Shot Sta 1-2 on Ramp Road E1 745-770

1 Helper

1 Drill Sta 3+50 E1 86± Near on N Slope

1 Load

1 Drill E1.800± N 4475± E 4975. 2 Helper

503-20-6 1057-18-5 1238-23-0 2 hrs

510-10-6 1100-26-5 1242-26-4

520-26-5 1103-20-5 1255-25-5

523-20-5 1107-18-6 116-26-5

530-18-4 1109-26-5 126-26-5

536-26-5 1111-20-5 127-18-6

541-20-3 1121-18-6 139-26-5

545-25-5 1124-26-4 143-18-6

550-18-7 1126-20-5 149-26-5

557-26-5 1135-18-4 205-26-5

600-20-4 1139-26-4

613-18-4 1143-20-5

641-26-4 1146-18-5

641-26-4 1210-18-5

8/8/33 Mt Newcomb #206536

Spillway Excavation

Unit #7 E1.780 E 5050 N 4450

" #8 " 785 E 5250 N 4470±

" 9 " 735 Sta 1-2 60 N of S of O. Sec

" 745 " " Repairs 5-

" 12 " 745 Sta 0

Trucks 7, 40, 60, 18, 25, 44, 17, 34, 39, 5, 23, 31

" 8, 20, 26, 6, 78, 14

2 Port Comp & Cat 30 Comp Plant

1 Foreman John Connolly Part Time

1 PM " 4 operators, 4 oilers, 1 Tr. Checker

1 Drill Sta 0+ E1.745 Boulders + 1 Helper 16 Men

1 " 2-3 " 770± Vent in d G - 1 Loader + 1 Helper

2 " 1-2 " 820± Near N Slope (Frank H Linds) 2 Helpers

3 on Quarrying Sta 0-1

3 " Slope 1275± 3+50

1 Loader on N Slope Sta 250 to 4 (Tom) 1 Nipper

511-20-5

532-20-3

551-20-5

600-20-5

650-20-4

657-26-4

712-20-4

757-5-5

805-26-4

830-26-5

1040-23-5

1048-18-5

1100-20-5

62

65
72
55
193
53
110

14.7
62
56
60
56
40

Reported

August 9th 1933 Hill Newcomb (320654.5) 11 AM.
Spillway Excavation

Unit # 7 El 785 N 4440 E 5150 ±
" # 8 " 790+ N 4470 E 5300 ± 1500
" # 9 " 740 80' N of Sp. N. Crest Sta 3 1/2 3 1/2 50
" # 12

Trucks 25, 34, 39, 44 15, 18, 40, 24, 17, 31, 5 23
" # 9 - 35, 8, 7, 26, 107 1 hr
3 hrs

2 Port Comp. + Cat 30. Comp Plant 5 T.M. (2 on P.)
6 Slopes, 19 Slope 1-3+50,

1 Foreman Part Time. 1 P.M. Foreman
3 Operators, 3 Boilers, 15 Tr. Drivers, 1 Checker
16 Men
6 men on Slope Sta 3+50 El. 250 ±
2 Drill. Bld. Sta 5 Ogee Sec El. 745 ± 780 4 Helpers
4 " " " 2 S of N. St. El. 800 1 Loader
1 " " " 2-3 75 " " " 780
1 " Slope Sta 1 El. 780

AM. To 3:30
530-17-A 1251-15-6
630-18-6 103-19-7
1048-23-6 115-5-9
1058-17-8 122-15-7
1105-23-6 133-17-5 1/2
1115-15-5 142-5-6 1/2
1130-15-6 149-15-7
1145-26-6 155-17-6 1/2
1227-26-7 204-23-8
59 1/2
59 1/2

17-3
18-1
19-2
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8/10/33 Force Account
Shooting Round Granite Boulders
East Rock Emb from Spillway

1115 A.M. George left Sp 7 with Cat 30

1130 " " Av. N 4000' El. 660 ER. Emb

1135 " " Start Comp
with G.D. Comp. AAG 330.

1145 Start 1 J.H. - 2-50' Hose.
13-9-12" Steel
19-12-30" "

1209 Catdy Wagon + Store 100' Hose + Steel

1210 Cat left for S.H.
Reported in

8/11/33 Force Account Same as Above

1 Driller ^{8 hrs.} 540 Complete N End Slope 660-650
630. Moved to S end 660 lifts + ready
Cat 60 30 min + Ho Drill 650

1 Loader Tony - 6 AM - 10 AM (35 Exploders
No of N 3975 → 35-5 Fuses
27 " "
27 Exploders.
Total - 40 sticks

Ingersoll Rand Port Comp. Hose + Steel

Rec 2 Drills to Comp

8/11/33 at Newcomb
Spillway excavation
* Unit #7 El. 745-60 N of Sta 3+50 S-S. de

* * 8 El. 780-50 S of Sta 4+75 N " "

* * 9 El. 735 Near N Slope Sta 1+100 Sec

* Spoil D&E of S W

* * " " of " "

Trucks ^{6 hrs} 23, 20, 24, 18, 25, 2, 11, 17, 40, 15, 26,

39
10
off 1230

2 Port Comp + Cat 30 4 Jackhammers
Comp Plant

16 men (4 Drill) Less Force App Men

1 Foreman Part to S.H. , 1 Checker

1 P.M. " 3 operators 2 orders

581-25-5	1110-26-6	1235-25-5½
613-17-6½	1115-18-5	1238-23-5½
643-25-5½	1120-25-5½	1253-25-6
745-18-5½	1132-26-6	1256-23-5½
806-18-5½	1140-25-6½	103-18-7
817-25-6½	1142-17-6½	106-25-6
835-18-4½	1147-26-5½	108-23-5½
920-15-7	1150-25-6	117-20-6
1034-18-5½	1153-17-6½	133-17-6
1040-25-5½	1202-25-5½	135-26-5½
1044-26-5½	1207-18-5	137-23-6
1048-17-6	1210-15-5½	140-18-6½
1055-18-7	1213-25-5½	147-20-6
1057-25-5	1217-20-5	150-26-5½
1103-17-5½	1223-25-5½	
	1227-15-6	
	1231-20-6	

83
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263
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Reported in

8/12/33 AT Newcomb No. 6575

Spillway Excavation.

- Unit #7 El. 745 100' N of Sta 4 S. Side PM
- " 8 " 780 30' S of N Slope Sta 5±
- " 9 " 730 Sta 3 + Ogee Sec.

Unit #8 Spoil DG to W + #7 + 9 to E. of S. W

Trucks 15, 17, 18, 20, 23, 24, 25, 26, 44 2, 34, 39, 40.

2 Port Comp. Cat 30. Camp Plant.

1 Foreman Part Time. IPMT. 3 op. 3 oil. 1 Tr Checker

Comp Pl. Op. 12 Tr Dr. 15 men (5 Drills, 1 Loader 2 Nippers)

Unit #6 more N. thro 670 Road 630 at E R Emb
40 Cans Powder El. 785 Sta 2 ± near N. Slope.

510-17-5 1/2	732-26-6	1240-15-8
515-25-6 1/2	812-25-6 1/2	1241-25-6
518-26-6	823-17-5 1/2	100-23-7
530-25-5 1/2	848-24-6	108-22-5 1/2
535-17-6 1/2	855-78-6	112-26-5
538-20-6	900-20-6	122-15-7
549-26-5 1/2	920-23-5 1/2	140-24-7
553-17-4 1/2	1032-26-5 1/2	153-17-6 1/2
605-20-5	1034-18-7	203-23-6
615-15-5 1/2	1042-23-7	58. ✓
630-25-6	1052-15-6 1/2	98 1/2
642-18-6	1056-26-5 1/2	115 1/2
648-26-5 1/2	1100-24-6 1/2	58
654-17-5 1/2	1121-15-7	94. ✓
705-26-6 1/2	1129-23-8	272
713-17-6	1147-23-6 1/2	132
724-17-6 1/2	1208-15-8	126
	1232-23-6 1/2	60
		56

14) 272
132
126
56
Reported

8/12/33

Force Account

Shooting Round Boulders from Spillway

Placed in E. Rock Emb El. 662. S of N 3600

Camp Plant 50 min late Start out Gas.

Air Hose + J H + Drills

George 5 AM to

7 " "

Tony 7 " " 10 AM to

61 Primers + 5 Fuses + 46 "x 8
50 Sticks Lyn

8:10 PM McMillan grader removing
Mud from E R E. S of N 3700±

8/15/33 JTO Newcomb. x20 658.-
 Spillway Excavation
 Unit #7 E.L. 770.5 Sta 6, 75' N S Slope.
 " #8 " 775 " 2-3 Near N. Slope
 " #10 " 720± " 3 Ogee Sec. ^{4 hrs} Idle
 " #12 " 745 " 0 Idle.
 " " 730 " 2 Ogee Sec

Trucks: 7, 23, 6, 8, 33, 34, 25, 1, 4, 39, 34, 25 (12)

2 Port Comp + Cat 30. Comp Plant
 1 Foreman Part Time J.C. 8 To Dr. +
 1 P.M. " " 3 Operators, 4 Oilers, 2 Dumpmen
 1 Tr. Checker. 15 Men Drill Shoot Quarry
 2 Men on Rev. E end Top Slope.
 1 Drill Sta 3 + 50 E.L. 850. 2 Quarry Sta 2-4
 2 " " 24 " 780± 4 " + Slope Sta 0-45 740-780
 1 " " 5 " 780± 2 Hoppers
 " " " 745± 1 Loader

D.S. E.L. 660 + 23' led Rock to E R.F. E 675- + W.E. 662±
 537-23-6 1239-23-7 E
 611-23-6 " 1255-23-7 E
 630-23-7 E 112-23-7 1/2 E
 646-25-7 E 132-23-7 1/2 E
 702-25-8 W. 1209-23-6 E
 726-25-6 1/2 E 155±-23-6 2 E
 759-23-6 1/2 E
 850-23-6 E
 910-23-7 E
 926-23-5 1/2 E
 1043-23-5 1/2 E
 1118-23-4 1/2 E
 1227-23-6 1/2 E
 32 E

41 1/2
 8 1/2
 124
 112
 120
 112
 80
 Reported

Force Account. 8/15/33 JTN. 45
 Shooting Nodules from Spillway on E.R.E. 662±
 1 Port Comp. 2 Drillers.
 2 Jack Hammerers 1 Loader Tony.
 Air Hose
 Drill Steel.
 Out 7/8" Drill Steel 1 Driller down 30 Min. Dynamite
 11. 50 Primers + 5' Fuses 100 Sticks 1x8
 0M. 50 " + 5 " 36 Sticks 1x8

Force Account. 8/16/33 JTN.
 1 Man loads Nodules on E.R.E. 662±
 3 hrs Tony
 These rock drilled on 15. Comp
 moved on night shift from this work
 JTN

30 Caps + 20
 25 sticks } 3 hrs
 Reported

8/16/33 XT Newcomb 2-0 658.2
Spillway Excavation.

- ✓ Unit #7 El. 770+ S of Sta 6 S. Side Pt.
- ✓ " #8 " 775+ N " " 5+ " " (2 hrs Near + S " " 5 " ")
- ✓ " #12 " 750-150 N " " 3+75 " "
- ✓ " #10 Idle E. 100 of S.W. El 735+

2 Men 1/2 day Trench E. end Top Slope

Trucks: 7, 8, 39, 6, 25, 26, 25, 4, 34, 15

3 Port Camp. Cat 30. Comp Plant

1 Foreman J.C. Part Time - 1 P.M. Foreman

2 Operators, 2 Oilers, 2 Dumpmen, 1 Tr Checker Tr Dr

23 Men (6 Drill, 1 Slope E. End, 1 Slope Sta 3+50 El 830+ 15 Slope El 785
1 " 6hr 2 P.M. El. 780-150 N.S. Sta 3, 1 Vert H of Sta 6+
10 on Quarrying + Slope Sta 1-A 7 Loaders
2 Nippers,
1 Quarry Sta 0 + 1 Sta 1. 150 Men Slightly bent
2 Helpers, feeling rock N Slope

Next RE lift 675-662 begun last night E. Emb El 675 out 200+

540-26-5 1/2 E	1045-26-6 E	1256-39-5 1/2 E
724-26-6 E	1052-39-5 1/2 E	102-26-6 W
813-26-6 1/2 W	1104-26-7 W	111-39-5 E
819-39-5 1/2 E	1117-26-6 W	121-26-6 1/2 E
837-26-6 1/2 E	1130-26-5 E	127-39-5 1/2 E
840-39-5 1/2 E	1144-26-6 E	137-26-7 E
856-26-7 E	1228-26-5 1/2 E	153-26-7 E
918-26-6	1238-26-6 W	
935-39-4 1/2	1250-26-6 1/2 W	

53 1/2
42 1/2
Reported

8/17/33 XT Newcomb
Spillway Excavation

Mr Wood: About here 750 ft
" Cornhill + 20 " 700 ft
(46)

- Unit #7 El. 730+ Near N Slope Sta 5+50 +5+5"
- " #8 " 730+ N Side Ogee Sec Sta 2+750 125 N of S " Sta 3 + Sta +500 Sec
- " #12 " 720+ Ogee " " 2+3
- " #10 Idle E. of S.W.

Trucks 7, 8, 25, 26, 25, 6, 34, 15, 4, 1

3 Port Camp. Cat 30 Comp Plant 7 Jack A.

Cat 60 + M.M. on Road 2 hrs

1 Foreman J.C. Part Time 1 P.M. Foreman

3 Operators, 3 Oilers, Truck Dr. 1 Tr Checker

27 Men: As Follows
1 Drill Bldg 5 of N Slope Sta 5+ El 660
1 Vent holes

4 Drills, 2 Loaders, 1 Ripper, 1 Helper, 1 N Slope Sta 5+25 El. 800
A " " 3+75 El 840
* 9 " " 1+2+50 " 800
1 Drill " 0+75 " 735
2 Slope " 0-1 " 750+

525-25-5 1/2 G. Rock to E El 675 + W
E 920-26-5 1/2 E 1203-25-6 E
535-26-4 1/2 925-25-6 E 1210-26-6 1/2 W
544-25-5 1/2 1057-26-6 1/2 W 1236-26-6 1/2
548-26-6 1115-25-5 E 1256-26-6
603-25-3 1/2 1117-26-6 W 118-26-6 1/2
616-26-5 1/2 1130-26-6 1/2 W 139-26-7
623-25-5 1/2 1131-25-4 1/2 E 200-26-6
755-26-5 1/2 1140-34-5 E
805-25-5 1/2 1146-25-6 E
853-26-6 1150-26-6 1/2 W
906-26-3 1/2 1156-34-5 1/2 W

56 1/2
62 1/2
47 1/2
163.5
14
23
14
95
98
46 W
71 E
Reported

8/20/33 Sunday In San Diego
 8/21/33 J.T.N. Spillway Excavation
 5 AM to 2 PM Cool 150°
 Unit #7 El. 765± Just N of Sta 5+60. ^{2nd} 520±
 " #8 " 785 Near N Slope Sta 2±
 " #12 " 725± Sta 3+50± 0 Sec W. Side of ^{Down 1 AM}
 " #10 Idle ^{100'} E of S.W. El. 730±

2 Port Camp Cat 30 - Comp Plant, Part

Trucks 4, 6, 7, 8, 14, 23, 25, 39, 34 (25) (17)

D.G. to D.S. Hy. fill Sec + to E Spoil Area.

Unit #7: Not separating Rock, D.G. as should.

Mc Guire + 3 men. Pipeline 30 Rep ¹² 30 Min

1 Foreman P. Time, 1 PM Foreman, 3 operators, 3 oilers.

1 Dumpman, 1 Tr Checker 9 Tr. Dr. 1 Op Camp

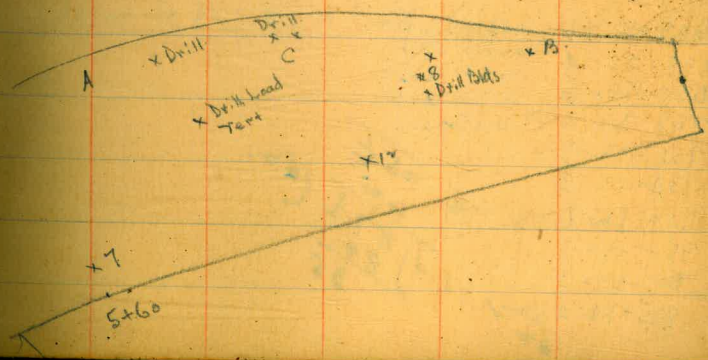
24 Men - (5 Drill, 2 load, 2 Shippers, 2 Help, 13 Quarry slope

752-39-5 1/2 W
 816-39-7 E
 836-39-6 W
 1042-25-7 W
 1050-17-6 1/2 W
 1100-15-8 E
 1109-17-8 1/2 E
 1114-39-5 1/2 W
 1122-25-8 1/2 W
 1127-34-3 1/2 E
 1129-17-8 1/2 W

40 1/2 E
 93 1/2
 53
 198
 120
 14
 40
 38
 125
 126
 Reported W

Spoke to John Connolly about Modules
 dumped over end of DStUS Rock Emb El
 675 instead of Sides where can be shot.
 Said dumpmen had orders to dump on
 Sides - These were dumped evidently
 Sat. night or Sunday AM. Observed at
 520 AM. Also question of loss
 thru failure to separate rock was
 spoken of and observed at Unit #7 + 8

8/21/33 From A Sta 4+75 to B Sta 1± Elev. 800 840 770
 19 Men at work along N Slope including 3 Drillers, 1 helper, 1 Shipp
 1 loader (loader at 7:15 Sta 3+50 look over high Slope



8/22/33 X + Newcomb
Spillway Excavation

no 658.7

49

Unit # 7 El. 780 Near N Slope Sta 1+75±
" 4+50 1hr

" # 8 " 725 Sta 3± Ogee Sec 4 hrs
" Repair 4 "

" # 9 " 740 " 0-1 Toe Slope - N Side

" # 10 Idle 100 ft of S.W.

Trucks 6, 7, 8, 12, 14, 23, 34, 1, 39. ④

2 Port Comps Cat 30 Camp Plant - Part

McGuire's 5 Men Charge 15 Steel Pipe 3 1/4 to 4 in. Tool

1 Foreman - Part time

1 P.M. Foreman, 3 operators, 3 boilers, 1 TrCh

1 Dumpman E of S.W. 1 Op. Comp Plant

23 Men: 1 D. Mill El. 800 Sta 4+ + 2 Mendress Slope 2 Loaders etc

" " 800 " 3+50 2 Shippers.

" " 790 " 1+50 Sta 1-3+ 1 A.G. Slope.

5 45-34-5 " (1 D. Mill 0 Sec PM 2 hrs) (1-4 hrs)

5 46-23-6

6 05-23-5 1/2

6 23-23-6 10 46-23-5 1/2

6 38-23-4 10 55-39-4

6 51-23-5 11 24-34-5 1/2

7 03-34-4 11 57-34-5 1/2

7 06-23-3 1/2 12 25-34-5

7 34-23-3

7 42-34-6 1/2

7 50-23-6

8 05-23-3

8 35-34-4 1/2

25 1/2
62
1.4) 87 1/2
84
35

755 Slide Sta 2±15± below Top of 4 D.G. man

Knocked off of 800 level not hurt.

1230 Slide Sta 4+50± From Top of Slope

about 10 x 15 x 5. Joe, Indian, was

on slope, below same but left

just before slide to get drink +

escaped - large rock in slide (2±4)

This is where Crack was noted

back of Slope.

Nest Rock lift to 675 Completed

across Night of 8/23-24/33

Ramped up from 670 Road to 675 lift

Rock at N Ab. E-W Emb when lift started

8/25/33 AT Newcomb

Spillway Excavation

- Unit #7 El 765 15-100' N of Sta 5+50 S. Side
- " 8 " 760 100' N of " 5 " "
- " 12 " 725 100' N " 1-2-3 S Side O. Side
- " 10 Idle 100' W of S.W 1250 Pm to Tower

2 Port + Comp. Cat 30 Camp Plant 65' DG. to E + W. Spoil Area. + to W. Hy Fill Blanket Sand.

Trucks 24, 23, 25, 26, 6, 8, 34, 40, 14, 39, 44, 11

1 Foreman, J.C. Part Time, 1 P.M. Foreman lot in Dr

3 Operators, 3 Boilers (1-only thru E Hy Fill Dump El. 675) 2 Dumpmen 1 Tr Checker.

18 Men (4) 5 6 Quarry Sta 3-4 El. 800+ (2) Small Blks 0 Sta Sta 3

- 1 Drill - 680 - 100' + Sta 5+45.
- 2 " 670 - Blks 1-5 " 5+60
- 3 " N Slope of 50 to 1+50 780 ft.

2 Loaders. 3 Helpers.

X-Port of loadless 1/2 Nippers.

Rock to E.F.F.E. 675-	17-4 1/2	925-23-4 1/2	1127-23-4 1/2
516-25-4-1/2	740-24-4 1/2	1038-25-5 1/2	1135-26-6-0
518-24-3 1/2	743-24-6 1/2	1045-24-5 1/2	1136-26-7-0
633-34-3 1/2	757-23-5	1050-24-4	1148-34-5-0
639-17-4	801-24-5 1/2	1048-23-5 1/2	1150-23-5 1/2
640-24-5	806-25-5 1/2	1048-23-5 1/2	1151-24-7-0
646-25-6	812-23-4	1055-25-7	1157-25-7-0
650-23-4 1/2	812-24-5 1/2	1101-26-4 1/2	1201-34-4 1/2
655-34-5	830-24-5 1/2	1102-24-7	1205-40-4-1/2
655-17-5	830-25-7	1103-23-4 1/2	1211-26-3-0
705-24-6	849-24-5 1/2	1103-23-4 1/2	1215-23-4 1/2
712-34-4 1/2	854-34-4 1/2	1105-40-4 1/2	1224-26-4 1/2
723-24-7	901-25-6 1/2	1108-34-4	1232-24-6 1/2
730-25-7	905-34-4 1/2	1112-25-5 1/2	100-25-7 1/2
	911-24-6 1/2	1113-26-4 1/2	
	918-25-7	1118-23-5-0	
		1123-24-6 1/2	
		1125-26-5 1/2	

Spoke to John Connolly about Separating 51 Rock + loading out same Separately. Pointed out we both lose money on Spoiling Rock. He immediately called operators on 8/26/33 for improvement on this especially Unit #2

11:5 AM. Begun washing S Ab of FRack Emb El 675 - Road Ramp (etc)

Stopped 12:50 Pm

8/26/33 7:45 A.M. Called John Connolly's attention to Rock up Gulches Sta 0+1 N. Slope that should be Quarried down.

13:00 AM. Driver Truck ← 20 hurt leg

8/30/33

note about 50' E + 50' W of E 5000 Paralleling N Slope to 780.

after that in P.M. this shows broken condition 5 to 15 away from slope. It thinned out

to 3 ft deep along this while. Called Mr Woods

attention at 3 P.M. and invited him to look at same but he did not do so yet.

8/26/33 J.T.N.

Spillway Excavation
Unit #7 El. 760 75' N of Sta 5+40.

Material D.G. (Blocky) + Boulders.

Unit #8 Down^{Repairs} 1 1/2 hrs El. 730 Sta 1-2 N Slope Top^{Soft Top of}
At 9 AM " 745 " 50' Sec.

" #12 " " " 725 " 3' North of 0 Sec
D.G. to E. by Fill El 615 to 7 AM then to E. Spoil unit 7. 9 A.

Trucks 15, 17, 25, 44, 23, 34, 44, 20, 26, 40, 33
8 AM check. 250

2 Port Comp, Cat 30 Comp Plant

Welders Equip on Repairs #12 1 1/2 hrs

1 Foreman, 1 PM Foreman, 3 operators 30 hrs

1 Dumpman to Spoil, 1 Tr Checker

1 Operator Comp Plant Truck Drivers

19 Men (1 Drill Slope 3+50 El 800+
Tony Ch. Slope, Loads etc.)

- 4 Men Quarry "
- 2 Drill Stak El 780
- 5 Quarry + Slope Stak
- 2 Nippers.
- 1 Loader.

Time 1/2 Drill El 780 11 N Slope Sta 3+15
2 Helpers, loading etc.

522-15-5 1/2	11-15-25-5 1/2	1-17-17-5
910-17-4 1/2	11-25-15-5	1-36-20-3
922-20-5 1/2	11-30-25-5	1-40-15-4
930-15-4 1/2	11-34-26-4 1/2	1-52-20-6
10-35-15-3	11-35-17-4	18
10-36-25-3	11-45-15-5	57
10-36-26-3	11-50-17-5	63.5
10-48-17-5 1/2	11-58-15-4 1/2	
10-52-20-5	12-01-25-6	
10-57-25-5 1/2	12-15-17-5 1/4	
10-58-26-5 1/2	12-20-15-5	
11-03-17-3 1/4	12-36-15-4	
11-13-15-4	12-42-17-4 1/4	
57	63 1/2	

Total 138.5
(14)

Reported

Cut 22 yards Spoil by Unit 12

52

Unit #7 and Unit #8 wasting material to
down stream spoil after 11:30 P.M. Unit #7
working southerly from about center of
Spillway, Sta. about 5+40, elev. 760. Unit #8
working northerly from same location and same
elevation. Unit #12 wasting material to down-
stream spoil after 11:45 - same location as A.M.

Trucks. 40-39-44-17-20-26-15-34-25 (23 to 11 A.M.)
Unit #11 with drag-line bucket backfilling
around outlet tower in P.M. with loose material
excavated from shaft and deposited near same.

Unit #12 down from 1:15 to 2:00
Unit #8 " " 1:20 to 1:30

G.M.C.

8/28/33 J.T.N.

Sta 4+75 Cut 126' to Out.

Cracked 2' N. of this stake Can. Put back

in + up hill E. Cracked further back

from slope but unable to say just

where runs out

40 E. of Slide Cracked back 10' of

Present Slope

No offset Stake Some evidence of Crack here

Not Certain of along rock

Crack back of Rock 2' S of this stake

About 2' back of present top slope

Crack Cont back of N of Large rock 1+75
No offset.

Mr. J.T.N. reported this crack at 11:30 P.M. at Sta. 4+75. It is 2' N. of stake. It is 2' S of stake. It is 2' N of stake. It is 2' S of stake.

11:30 P.M.

to north 25' N of stake 1+75

8/30/33 J.J.N. Spillway Excavation

6 AM to 5 PM

Unit #7 Sta 0+75 Ogee Sec El. 725±

✓ D.C. + Bldg

" #8 Sta 2± El. 76± Near N Slope

✓ D.C. + Bldg

PM. Sta 5 N of El. 760

Spoil to West Spoil Area - D.C. Rock to E R R E I 675

Trucks 15, 23, 40, 60, 34, 31, 24, 39

5 J.N. (3)

1 Port Comp on Drill Bldg E Rev Sec. * 1 Ripper

2 Drillers

① 1 Man New Mag

1 Foreman John Connolly Part Time

1 PM Foreman - ⑩ 2 Men

* 4 ②
2 Dress S Slope O. Sect 1

② 1 Drill Sta ± El 740± N.

② 2 Quarry " 1 " " "

✓ 1 Drill " 3+75 El 800

Vert 1 " " " 780

✓ 3 Slope " 2-3 " 800-

✓ 2 Loaders, etc

✓ 3 Helpers

✓ 1 Slope Sta 0 El 748

2 operators

2 oilers

1 Dumpman w.

1 Checker Tr

7± Truck Drivers

1 Operator Comp. Pl.

702-23-4 1/2 937-15-5

710-15-4 1/2 241-23-5

725-23-5 253-15-5 1/2

729-15-5 1/2 300-23-5 1/2

748-23-5

757-15-5

800-23-4 1/2

815-15-4

822-23-5

830-15-4 1/2

900-23-4 1/2

915-23-4

930-23-5 1/2

61

Force Account

Modules E Slope E R R E I 675

1 Port Comp. (Cat 60)

2 Jack hammers

Hose - Drill

2 Drillers 1200-3 PM

Reported

8/31/33 J.J.N. Spillway Excavation

6 AM to 5 PM

Unit #7 Sta 0-3 - 75 ft of S Side El. 725±

76 740

" #8 Sta 3± 125 N of S Side El. 760

PM. " 2± N. Slope

D.C. Spoil N. of Spillway

Trucks 44, 15, 32, 40, 39, 34, 60, 31, 43, 23

1 Port Comp Cat 30 3 Jack H

Comp Plant (1 Port Comp) 2 Main Units down

1 Foreman 2 Ex New Powder Mg.

1 PM " + 11 Men 1 Quarry E end.

2 operators (15) 2 Dress S Side O. Sec.

2 Oilers 3 Drill N Slope at 50-1+50 740-780

1 Dumpman 1 Loader

1 Tr. Checker 3 Helpers

8 Tr. Drivers. 1 Drill + 1 Helper Sta 3+50 El. 760

Force Account Sheet Modules E R R E I 675 from Sp. Way

1 Port Comp. 2 Jack H. Hose, Steel

2 Drillers 125 Caps. 90 Stick ix 8" Dym

1 loader - 650' hose 40%

930 Tom + John O over Slope

1030 AM Frank has taking

Pictures

638-15-5 141-23-5 1/2

651-32-5 154-23-6

711-32-5 210-31-5

718-15-5 222-31-5

728-32-4 240-15-5 1/2

756-15-4 1/2 300-23-6

901-15-4 1/2

927-15-5

1000-32-3 1/2

1016-15-6

1030-32-5 1/2

1250-15-5

108-15-6

64

33. ✓
64
222 (69.7) ✓
82
130
126
4

Reported

W.

Sept. 1, 1933. H. Newcomb
 Spillway Excavation
 Unit #7 Sta 3-4 El. 720± Ogee Sec.

Unit #8 Sta 2-3 El. 760 Near N. Slope.

Spoil D.G. West Spoil Area-

Trucks: 15, 34, 39, 40, 23, 31, 44, 32 (12)

2 Port Comp. 1 Cat 30 Comp Plant 5 J.H.
 * 1 Comp. Cat to 700 El. Road 9:30 AM. 2 Drillers + Ripper

1 Foreman John Connolly Part Time

1 PM " + 1 Merit * 2 Drill Ogee Sec Bldg

2 operators * 1 Ripper

2 oilers 5 Quarry Sta El. 760±

7 Truck Drivers 2 Drill " 1-2 " "

1 " Checker 1 Ripper " " " "

1 Dumpman W Spoil. 1 Drill " 3+50 " 780±

1 Comp Operator (Part) 1 Helper

Force account - Tony - Load, Shoot Modules ERS El. 676-

PM. Tr 4th Class 88 Caps 5 hrs. + (3 Loads)

1201-15-7 55 Shocks

150' fuse.

2 Yd. Spoiled 2:30 PM 1 Boulder Unit #8. No foreman here

35 Kegs Powder

Loading Shot 760 El. S of but near N Slope Sta 2-3

" " 780-800 N Slope, Sta 2+50 to 3+50

Sept. 2 1933 H. Newcomb AM. No 66.8
 Spillway Excavation 55

Unit #7 Sta 1-2 El. 730± Near N Slope

Unit #8 Sta 2-3 El. 760 50± S of N Slope

Trucks 31, 40, 15, 44, 23, 34 60

2 Port Comp, Cat 30, Comp Plant (Part)

Mr. Stares here at 6:40 AM. Both units wait for Tr

1 PM Foreman Frank Malata + 14 Men:

Tony + 3 Men Quarry El. 800 Sta 3+50

3 " Dress S Slope Ogee Sec

2 Drill + 1 Help Sta 1 El. 735 Near N Slope

1 " + 1 " " 2+ 760 75' S of N " + 1 Quarry to N

1 Loads El. 725 Sta 2-3 N. of Ogee

(100 El. Road NE + SW) 1 Comp - 2 Drillers + Helper

Newcomb	Ampaan	
630-21-4	1145-15-4	209-23-5
640-31-3	1156-15-5	227-15-5
718-15-7	1216-23-4	238-15-5
805-23-5	1242-23-5	248-15-5
960-23-7	118-23-5	
955-15-6	123-15-5	
1005-23-6	144-15-6	
1015-15-6	155-23-5	
45	39	

20 ✓
 39 74
 45
 104
 98
 60
 1.4

9/5/33

EGTST

Rock from Stripping NE + RE + Hy F

L (3x4x3 Not placed RE. by Trans.)

4x5x3 1/2

6x3x3

3x3x3

L 3x3x3

(2 (3x3x3) Left in Hy Fill Sec)

4x4x3

L 3(3x3x3)

4x4x2

4x3x3

L 3x3x3

4x4x2

4x3x3

6x5x3

4x4x2

6x4x2 1/2

9/5/33. H. Newcomb

56

To Spillway 6 AM with Mr Reed Took up

Rock on Preceding Page Went over

at Slope Spillway with Reed + Return

to Camp 8:30 AM.

Pack up. Lunch with Mr, Miss & Miss Wood

+ drive to River view Pumping Plant.

Go over work of Modeling S.W

with Mr. Clean up House + to bed

8:30 PM

9/6/33. { H. Newcomb
L.B. Hayward
C.F. Kelley

Clean up, Take Inventory

Over Plan with Mr Wood 10:30 AM

9/7/33. H. Newcomb
L.B. Hayward
C.F. Kelley

Continue work on Flume + Tank

9/8 Same

9/9 Spillway

9/10 Sunday

9/11 Same force Spillway Clean up etc

9/12 " " "

9/13/33 To Spillway 940 A.M. to 9:30 P.M.

Checking Alignment from

Coordinates + on forms.

H. Newcomb

L. B. Hayward

C. F. Kelley

Trouble with alignment some

of slope over phone on

Coordinates wrong + distance

do not check. Fixed correct

500 m + worked on same to 9:30 P.M.

9/14/33 On work all day + cleaned

up around house evening

H. Newcomb

L. B. Hayward

C. F. Kelley

Model Spring at Sta. 6+85 caused

some delay in correcting to correct
Elev. + on Hydraulic Inf. to 9:30 P.M.

9/15/33 H. Newcomb

L. B. Hayward

C. F. Kelley

On forms for Spillway Ogee Sec.

Cut out Copper set grades.

Hayward suggested we fire tanks

and get settlement on same before

setting final grades. Ran water

into tank with hose. Tank leaked

field same and let stand. Kelly

cleaned up weeds around place

etc. H. & I worked on Copper

strips + seats for same etc.

9/16/33 H. Newcomb

L. B. Hayward

C. F. Kelley

Continue on Model. Hayward with Ed

Williams to Barnett + Morana dam

Site ex. clean up and etc.

- 9/17/33 AT Newcomb in San Diego.
- 9/18/33 AT Newcomb, L.B. Hayward
and C.T. Kelley continue on
model. of Ex. setting lines
Copper strips etc
- 9/19/33 Same force continue on
model. in wood line at 7 PM
- 9/20/33 Same force continue on
model. Set Ogee bands, copper
strips + wood spaced strips
clean up. Ev ch. + etc.
in garage here etc.
- 9/21/33 Same force continue set
spaced strip etc
- 9/22/33 Same force set forms end ogee
+ ogee sec.
- 9/23/33 Same force concrete mat 10' x 15' x 5"
+ make floor spillway + water
proof around end ogee.

- 9/24/33 Newcomb in San Diego
- 9/25/33 " Hayward, Kelley
continue on spillway model
- 9/26 Same
- 9/27 "
- 9/28 " Place side walls 5+10 to 10+37±
- 9/29 " Pour ogee section, set side forms
10' to 15+50, Prep to set three nipples
in haulpipe. Warped sec 0 end ogee.
ATN begins the day by starting
water from tank at 5:45 AM +
now at 6:45 have completed my
time sheets - only time off long
enough to eat 3 meals + wash
dishes. Lowered pipe nipple in
concrete riser + on warped sec
0 end ogee, cleaned up at outside
house while water getting hot.
W.

Sept 30th 1933. Newcomb, Hayward
& Kelly continue on Const
of Spillway Model like
Wall Cone etc.

Oct 1st 1933 Sunday in San Diego.
Hayward, watched Concrete in
AM & PM. m & m.

Oct 2, 1933 Newcomb, Hayward
Kelly continue on Spillway
Model Const at Riverview
Pumping Plant.

Oct 3rd 1933. Same.
" 4th " Same - Completed
Model except for some details
such as setting back gages
making baffles - No material
cleaning up & dressing up
Model. Today we placed

warped sec. at West end Spillway

" " at Sta 10+98 - 11+78.

made one baffle
Mr Clark out to day, checking
over pipe lines - Ran pumps
some filled up cone tank

Next in got Oxyacetylene torch
and cut 8" off of Galv Nipple

in riser pipe. Saw Newcomb
here & went in to day late PM
last day for Mr Hayward & B.

& C. F. Kelley. Picture taken

Oct 5th 1933. At Newcomb
and Mr Clark. Mr Clark

starts up pumps Repair leaks
& 1st water over spillway at

11 AM. Dressed model etc

Letterth sent down - 1 bid from
San lets PM.

Oct 6th Newcomb & Clark work
on Model, make baffle & on
back gages. clean up etc

Oct 7th Newcomb + Clark on
Model - Hook gauges etc
Messrs Niece, Pyle, Wood,
here and run test over
8" weir. Mr Niece thought
width could be reduced.
Into San Diego P.M.

Oct 8th In " "
" 9th Newcomb + Clark on Model
Fig hook gauges. + set slope
beards 8.40 to Sta 15+50 to 8.50'
Sta 4+75' and run test in
P.M. Mr Wood here in A.M.
Mr Pyle, Mr Savage, Mr Cosgrove
here when test being run
3/4" over spillway + 7/2" over
weir with revised N. slope.
Mr Pyle thought it looked
pretty good. Mr Savage had 2
pictures made.

60
Oct 10th 1933. J.T. Newcomb +
J.A. Clark, of Operating Dept Realign
+ adjust beards etc for Sec with N. slope
of S.W. Model set 5. 12 1/2" at Sta 5 +
10 1/2" at Sta 10 + to 15+50 Place + Make
baffles. Raise weir Rustle lumber
trip to set strips to gauge flow at each Sta

Oct 11th 1933 J.T. Newcomb + J.A.
Clark set and align gauging
strips for each station of
spillway. E.S. Williams here.
Dusties + hestie Vernon out today with Mrs K. Eliz.

Oct 12th 1933. J.T. Newcomb + J.A. Clark
continue set strips + Sta same. Paul Beerman
out in P.M. Niece + Run test + gauge from
strips at each Sta P.M. 3 5/16 on Spillway 8.25"
on weir. Mr Waste out.

Oct 13 1933, J.T. Newcomb + Paul Beerman take
readings at Sta strips to 40 with water gauging on
Round Sec. + Make + set Bippelotte weir at Road Culvert

Oct 14th 1933 J.T. Newcomb + Paul Beer
continue at Spillway Model Test + gauge
readings at different Spillway cap.
M + Pyle out + G.B. car struck.
Oct 15th 1933 Sunday. Newcomb J.T., Paul
Beerman + H.A. Clark make runs
on Spillway Model.
Oct 16th 1933 J.T. Newcomb + Paul B.
continue tests + to Ee Capitan Dam + up
Choc. Br to town
Oct 17th 1933 J.T. Newcomb flat bed of
flood discharge over Spillway Model.
Oct 18th In office Law A.
" 19 " " " "
" 20 Paul B + J to Spillway Model + Paul in
" 21 In Law Diego office ^{H.A. Clark} work afternoon
" 22 Sunday in Law B.
" 23 In office Law Diego on Hodge Dam
" 24 " " " " + more equip into
Law Diego.

61
Oct 25 to Nov 12 In office Law Diego
including Saturday afternoon + Sundays
and vacation 11 days.

Nov 13th Report back to Ee Capitan
assigned to Mr Dice work.

Look over possible Clay def
West of Camp 4 mi ± N + S of River
with Mr Albert.
Over work in P.M.

- 320 Summit Pass 680.7 3PM.

Gravel plant - no one present at
plant - Eng down + foreman + 1 man.
^{an Eng rep at shop}

^{Shop} Quarry: 1 Blacksmith + 1 helper
1 Ee trouble shooter

1 Foreman Shop } Book, McGuire + 2 men
1 Blacksmith } lay Pipe line in N.W. 1/4
1 welder at shop } for my fire bed Ee 700-
1 machinist }
4 mechanics }
2 Truck Drivers (temporary)
1 Light first truck + driver.

* Hunt 2 new Ref. Op. + sider for Ee 750 Spillway
1 m. dev. equip (30m on shore)
* 6. Repair West of Spillway Ee 700 ± 1 operator
Lock Emb. 1 Foreman, 2 Bulldozers 600 1 E + 1 mot Ee 700
3 men placing rock N. E. Emb. Ee 700-
2 " level for Pipe E. No fire Ee 700-

107 70720.

11/14/33 Quarry 1 Steel Sharpener + Helper
1 Elec

Gravel Plant - Foreman + 1 man
operator + oil Rep Unit #11

East. Rock Emb

2 Cat Bulldozers + operators Quarry

1 Foreman + 4 men placing in NE

1 Elec.

1 Water Wagon.

Pictures:

- 1 Group Picture of Judge Hardins Court at ^{Sta 6±} Spillway Sta 2± S. of Ogce.
- 2 Same
- 3 View across Spillway N. to South at Sta 6±
- 4 Group Picture of Judge Hardins Court at N Side Spillway Sta 6±
- 5 View West along E Spillway from Sta 6±
- * 6 View S. Abutment from El 700 E.R. Emb. N 2400±

11/15/33

62

Gravel Plant 270 Sand
50 ^{3/4}

Unit #11 + 5 Trucks 145 1/2

1 Foreman.

1 operator, 1 oiler on #11

5 Truck Drivers. 1 Dump Man.

1 Man on Belt Conv., 1 Eng + to Mass

Rock Emb. 700±

1 Foreman

2 Cat 6 Bulldozer. E.R. Emb

4 Men placing " " NE

Unit #8 opt oiler.

Quarry. 1 Blacksmith + helper + Elec.

Hy Pipe - Unit 10 - 230 to 2 cm. placing
pipe on E. Hy Pipe 700-

Shop.
same

11/16/33

Gravel Plant

Unit #11 + 5 trucks

foreman + 4 men

field 65 $\frac{3}{4}$
160 $\frac{1}{2}$
275 land

Rock Emb 2 Cat Co B.D.

1 foreman + 4 men

1 foreman + driver

1 water wagon

Quarry

2 Boss truck help

Shop

1 Blacksmith

2 welders

2 Elec.

4 Mach.

1 mach

1 foreman

2 truck men helpers

4th 110 63

11/17/33

Gravel Plant

Same 1 man short

^{operator} Unit #11 + 5 Trucks

Foreman 9 3 men

~~3~~ $\frac{3}{4}$ 55 - 130
265 land.

Shop

1 Foreman 4 Mech 1 Mach

1 Blacksmith

2 Welders

Quarry 1 Blacksmith 1 helper

Rock Emb. 2 Cat Co B.D.

1 Foreman + 4 men hand placing

11/18/33.

Gravel Plant.

Unit #11 + 4 Trucks. + 4 Men.

Quarry - 1 Blacksmith & helper.

Rock Emb. NE 1/4 700-

2 Cat 60 B.D. Foreman + 4 Men.

Shop.

1 Foreman. 2 Welders.

1 Blacksmith 2 Elec.

4 Mechanics. + 1 Mach.

2 Helpers.

11/19/33 Sunday

11/20/33 To San Diego.

West Rock Emb 1 Cat 60 - 1 Foreman - 2 Men

Quarry 3 men. Truck, trailer & Cat Moving Elec. ^{used} _{men}

Gravel Plant Foreman + 1 man

Shop. Same. ^{A new wh.} no extra men.

to pay wages for checks

11/21/33 West R Emb. Ee 700 - 1 Cat 60.

1 Foreman - 5 men

Quarry - Blacksmith's helper ^{used}
Moving Elec. Elec. Operator, Oiler - 2 ^{Tractor} ^{Tractor}
_{1 Foreman} _{2 " Dr + 2 Co men}

Shop - Same + 1 man extra

Gravel Plant - 1 Foreman, 4 Men. ^{5 Tr Dr.} Op Oiler
Unit #11 West of Plant
5 Trucks. 50 + 90 yds 140

Taking samples Biddle Cove Sec ^{50 + 2 = 65}

11/22/33 To Passim. ^{21 55} ¹⁰⁰

Gravel Plant ^{F. 4 Men.} 5 Trucks. ²⁴⁵

Pictures Tunnel fracture

1 Sta 1 + 80. Looking N. side of flash

2 " 2 + 25 " N-E side " } 10 30 ft

3 " 1 + 50 " N. to S. Side "

4 " N'ab of Dam Showing Pipe layout ^{11 ft}

from E R Emb. N. 3800 Ee 700.

5 View from Ee 800 E end Spillway 10 ft N into ^{11/23/33}
North Side of Oge into Sump.

6 View of Slide ^{to S. N. Slope Spillway} from Sta A + 15 top Oge ^{3:30 PM 11/23/33 at T}

11/23/33 2000 Cos next to Eng. between
 Ford #476 Engine and Radiator, 2 Hub Caps
 Double Bell Connection, ^{Price} Re Sale for
 for Truck Absorber.
 22 Men all told. 1 Man off

Gravel Plant 75 3/4
 150 1 1/2
 200 Sand
 Unit #11 + 5 Trucks 1 Foreman, 1 op + 101
 4 Laborers.
 5 Tr Dr 5 Men.
 W. Rock Emb 700- 5 1/2 1 Tractor, Foreman
 Quarry 1 B Smith + Helper, Elec + 3 men ^{some with}
 1 Cat 60, 1 hired truck 3 men
 more part * Elec to San D.
 Shop 1 Foreman, 1 B Smith
 1 Mach 4 Mech 2 Elec 1 at Quarry
 1 Lt Truck, 1 watchman

11/24/33
 to Clearing Basin Look Chain Back Steed Double Bit
 handles
 23 Men all told
 A bunch at gravel plant Shop: 1 Foreman
 A man + F. 1 Mach
 Unit #11 1 Mech
 West Rock Emb 500 2900 1 B Smith
 1 Cat Bulldozer op 2 Elec 1 at 2
 1 Foreman + 6 men 2 Welders
 many Preschlosser 2 Helpers
 Bit + Pin

11/25/33
 Sand & Gravel Plant Foreman, Repair
 1 Man.
 West Rock Emb El 700- 5 1/2
 1 Cat 60 Bull Dozer + Operator + 5 men

Quarry - 1 Blacksmith + 1 helper
 Bal of Unit #1, Elec Moved from
 John Connolly in San Diego Loading
 Shore #9 for Shipping
 Shop 1 Foreman 2 Welders
 1 Mach 2 Elec (1 at Quarry)
 1 Blacksmith in morning
 4 Mech 3 men night
 3 "

11/26 Sunday
 11/27-28-29 Making up Overtime
 11/30 Thanksgiving Day
 12/1 Making up Overtime
 12/2 " " "
 12/3 Sunday
 12/4 Work in Field Office on Estimate Rock O
 12/5 " " " " "

12/6/33 In Field Office Tol. Cap. Dam on Col. Item 3

12/7/33 " " " " " " Same

12/8/33 " " " " " " "

Hee later said this was first day used 6" Mt in Sampling & C

10/12/36 To Testing Laboratory in San Diego
1/4/34

1/5/34 Reported to Mr. Head E. Capitan Dam
In office on Hy Sample chart
sections

1/6/34 In office on Dam Revision &
parling N. end at S. Wge.

1/7/34 Sunday 1/8/34 in Office P.C. Secs

1/8/34 In Office Same + Same as Cth

1/10/34 " " Dam Revise Sec N. end ^{P.C. Sec's}

1/11/34 " " " " " " " " Plotting

1/12/34 " " " " " " " " P.C. Sections

1/13/34 " " " " " " " " "

1/14/34 Sunday.

1/15/34 In Office Revise N. end Dam.

1/16/34 " " " " " " " " + Inspect with Yan Segron P.M.

1/17/34 Concrete Insp. in Yan Segron stead

1/18-1/27 In Office at Dam P.C. Sec & Rev
of Dam at etc of Spillway.

1-27-2-3 In Office at Dam P.C. Sec

2-4 Sunday

2-5 " " " " " " " " + etc

2-6 J.M.M. & S on Map Contours of P.C. + Sec

2-7 In Office P.C. Sec

2-8 To Dam get Flume with 5' 10" +
work up Steel + on P.C. Sec letter ^{Notes}

2-9 1/224 General Work in office
check Core trace and receipt + & C Sec.

2/26-28 Feature Incidents & Data E. Cap. Dam ^{27th and 28th}

3/5 Review Concrete reports etc same as above.

3/6 Review + write notes on above ^{get out}

3/7 Reviewing Quarry reports + Trace ^{" " out out same as above}

3/15 Data on Summit Pool Depths

3/16-17 P.C. Extra Sampling Cost etc 12/6-3/5
 3/18 Sunday
 3/19/34 Platting P.C. Sec of 3/8-3-10
 3/20/34 " " " " " " " "
 3/21-22 Data for Mr Wood on Ex P.C. Long Costa P.C.
 3/23-24 Platting P.C. Sec of 3/8-3/15
 3/25 Sunday
 3/26 Data + dates 1/2 day
 Dam at N end 1/2 day.
 3/27 Date + dates + P.C. data + S.W. Ext
 3/28 Reduce Spillway Extension X Sec Notes
 3/29/33 To Julian with Leslie
 3/30/33 Plan & draw Sec
 4/1/34 Sunday
 4/2/34 Spillway Ex. Draw in Sec Plan.
 (today report 1hr)
 4/3/34 Spillway Ext. Platting Notes
 4/4/34 Estimate #23 Hy fill Q. + Spillway Spoil Q.
 4/5/34 Spillway Ext - Notes, Platting Areas
 4/6/34 " " " " " "
 4/7/34 " " " " " "
 4/8/34 Sunday
 4/9/34 Spillway " 1/2 P.C. Samples Sec Sheets
 4/10/34 " " " " " "
 4/11/34 " " " " " "
 4/12/34 P.C. Samples
 4/13-14 Spillway Extension Top Map
 4/15 Sunday
 4/16/34 P.C. Section 1/2 hrs Spillway Ext. Top Map 2 hrs
 4/17/34 S.W. Ext Top Map
 4/18/34 " " " " " "
 4/19/34 " " " " " "
 4/20/34 P.C. Sec " " " " " "
 4/21/34 " " + P.C. Sheets 20 Sunday
 4/22/34 " " + " Data for Contour P.C. sheet
 4/24/34 " " + data for Contour P.C. sheet + S.W. Ext Sec
 4/25/34 " " 2 S.W. Ext 4hr S.W. Ext Vol. plan 4hrs
 4/26/34 " " 4 P.C. Data
 4/27-28/34 Spillway Ext. Cal Vol 50 Q. Platting etc

May 1st 1934 P.C. Sec of 4/30/34 + P.C. Drawings for Mr W. 2 hrs
 2 S.W. Ext. Areas with Plan 8
 3 Core Wall Duplicate Elevation Sheet
 4 " " " " " "
 5 " " " " " "
 6 Sunday. Th Atom Groat Holes @ C.W. El. Near Sheet
 8 Spillway Sec on N. Align. on Plan Sheet 4 hrs
 C.W. Map 4 hrs
 9 Data for P.C. Quantities # + C.W. Map #
 10 P.C. Map 4 hrs - Core wall Profile " 4
 11 Data for Hy fill " " " 4
 12 Core Wall Profile " " " " " "
 13 Sunday in Sand D. Fill Map
 14 Data on Borrow Pit Map + Sand on Hy
 15 P.C. data of 5-11 Sec on Sections.
 To Sand D. with Mr Woods reports etc.
 P.C. plan of Sampling.
 16 P.C. Sec data of 5/11 + Plat. etc
 17 Hy fill Map as of 5/11
 18-19 " " " " " "
 20 Sunday
 21, 22, 23 Profile Core Tr. road + Quantities Same
 24-25-26 " checking Calc on map from P.A.
 27 Sunday Secret
 28-29
 30 Decoration Day. To Parade + to La Jolla Beach.
 Quantities Core Wall Concrete + etc on Profile
 June 1 " " " " " "
 2 " " " " " "
 3 Sunday in Sand D.
 4 P.C. Map 9 hrs
 5 " " " " " "
 6 Quan Core Wall + Sec
 7 " " " " + Sec
 8 P.C. data for Mr Wood. + Plat
 9 " " " " " "
 10 Sunday in SD.
 11 Core wall + Core Tr. Q. + Map
 12 Hy fill data for Mr Wood. 8 hrs
 13 C.W. + C.Tr. Q. checking
 14 " " " " " "
 15 " " " " " "
 16 " " " " " "
 17 in SD.
 18 Spillway Ext + Steel details 8
 19 Hy Data for Sta Sample taking 4
 20 " " " " " "
 21 " " " " " "
 22 Data with Mr Woods on Estimates Sources.
 23 " " " " " "

1935

- Newcomb
- April 3 7 to 8 AM Read gauges + Meirs + Tunnel
8 to 12 Reduce Road X Sec Notes.
1 to 3.30 Stake Grades with G.M. Road to Top
3.30 to 4.30 Same
- April 4 Lt Rain. Read gauges + Reduce Level
Notes Road X Sec. + Index Notes
+ Ink Tracings.
- April 5 Read Gauges. Ink Alignment on Tracings.
Calculate + Check I.M. Cal Cords to
Fill up S. Side Dam Crest to outside of
6.50 Berm. + 13.4
Plot Profile of Road on Tracings.
- Apr 6th Read gauges etc. 6.5-8 Reduce Notes FA 506.
6.40-12.45
- Apr 7th Sunday in San Diego. To Camp 6.30 P.M. of 7.45
+ 5.05
- Apr 8th Read Gauges - Reduce Notes 506 + Plot dam
6.40-4.30
- Apr 9th Read Gauges - Correct Alignment +
6.40-4.30 Changes on Tracings + Plot + etc Profiles.
- Apr 10 Read Gauges + Checked Profile plotting + inked
6.40-4.30 in same. Changed to better location on tracings.
- Apr 11 Into Tower, Read gauges, Straighten up notes
6.40-4.30 + ink Profile + etc.
- Apr 12 Read Gauges Continue inking on
6.45-4.30 Profiles + checking same + Index Bookset
- Apr 13 Read Gauges + Plug + report flow from
6.40-12 Noon 36" Pipes. Reduce Notes + Plot Profile
+ Prepare to take Payroll to office
Have flat tire + change same but
I.M. goes in with line Street 1st.
- Apr 14 Sunday in San Diego.
- " 15 7 AM to 4.30 P.M. Read Gauges - Work on index
2 hrs. Plot + ink profile Sheets 1-3.

1935

- Apr 16th Read Gauges + Plot + ink Profiles
of Road + Pipe line. Mr Pyle here
Read Gauges.
- Apr 17 Plot revised Profile and inking
Go to San Diego to Bring Dodge Truck
Leave home 6.30 via Street Car to
18 + B City Shop. Get Dodge drive
to darn. Read Meirs etc +
make changes on Road + Pipe
line Profiles.
- Apr 19 Check plotting of X Sec of
Road Lakeside to dam G.M.
+ I.M.
Read Res Gauge + Meirs
- " 20 Newcomb + Fullerton off all day
- " 21 " " in " Entebbe
- " 22 " " Read Gauge + Meirs
+ Sec Road for Ent + Cal
Same to South End of Dam I
Straighten up Records in office
2 hrs
- " 23 Read Res Gauge Meirs etc Records etc
+ worked with I.M. Tighten up bolts on
Flanges on 36" dia pipe in Tunnel. Check flow.
Clean up + to town to vote.
- " 24 Read Gauges. Get I.M. reports for
office Records etc + in P.M. fix gauge
at Sta 7 in Tunnel.
- " 25 Read Gauges + etc + over Reservoir
Road Cond. to Diverting Dam with I.M.

1935

- Apr. 26, Read Gauges + etc + Over Road + Pipe Line Const. + flag Same Lakeside to Park
- Apr 27 Read Gauges + etc + Makeup
- Time Streets + Take Same to Main Office
- " 28 Sunday in San Diego
- " 29 Read Gauges (Rain) (L.H.N.) on Indexing + etc
- " 30 Read Gauges (Rain) " " "
- May 1 " " J.H.N. in town + over Durr with Mr Holmes + Indexing Notes to San D. Night.
- May 2 Read Gauges + X Sec Road to Top Dam and Cal Vol. Est for 10 day Report.
- May 3 Read Gauges and etc Records date etc. Reped. Blue Store Res. in P.M. (J.H.N. + G.M.C. + J)
- May 4 Read Gauges + go over with Simpson.
- May 5 Gen. in office + to San Diego 1 P.M.
- " 6 In San Diego office on tracing of Core Wall Const.
- " 7 Same.
- " 8 " "
- " 9 " "
- " 10 To Durr 6 A.M. + Ret. to Main Office + on Same. + Tracing of Grooving
- " 11 on " " "
- " 12 In San Diego.
- " 13 on Tracing of Tunnel Grooving

1935

- May 6 June in San Diego office on General Drafting. El. Cap to Lakeside Ch.
- Revision of Drawings for State + etc
- July 1 Coloring Prints for Municipal Water Sup. Res.
- " 2 " " " " " "
- " 2 Pipe Line Profile + Realignment
- " 3 Checking Cal of Tee Capitan Res. Dist. Sect.
- " 4 Holiday - In San Diego.
- " 5 Mr. Cyle + etc. on Lot. U.S. C.S. Comm. To Over - Check French Exp. etc Cal of check. into sec. milled pipe.
- Plot Pipe Line Profile 1" = 1000'
- " 6 Cal. of Te & of Pipe Line +
- " 7 In Expo.
- " 8 Plot + ink in valves. Blow off etc on Pipe Line Profile - erase + tank
- " 9 1/2 Lab. Cal + proofread + Profile
- 1/2 day on Gaps Map Pantograph of City
- " 10 Same all day.
- " 11 1/2 Completing Pipe Line Profile maps 1000'
- 1/2 Contour map City Pantograph 1" = 2600'
- " 12 Same.
- " 13 1/2 Inking contours on enlarged " City Sec
- " 14 Sunday in San D. to Beach.
- " 15 1/2 and tracking with P.B. + R.C. Joh. + items + ink. map
- " 16 1/2 " " " " " "
- " 17 Pantograph, fine underwriter map to topo of City Area
- " 18 3rd pane.
- " 19 " " + Cl. Res. water Dist. 1/2
- " 20 Profile 1" = 100' of 1,000' 3000' of P.B. Sample
- " 21 Sunday. Leslie I + Beach.
- " 22 Cl. Heta Core Q on Pipe Line to Lakeside + Cone.
- 1/2 hrs on Topog. Map
- " 23 1/2 hrs on ch. Ex. Class 2 Pipe Line + Fuel &
- 1/2 " on Topog. Map + other Cal. Res.
- " 24 4 " " " " + A. Brown P.L. data

1935

H.A.W. Diary of Operations

- July 25 Progressing shaking up + changing drawings.
- July 26 Checking quantities on Pipe Line + etc
- " 27 Sunday Leslie + I to Ch 111 + Arrive 9 AM.
- " 28 Errands, ch up on Quon for Pipeline etc.
- " 29 More Talk etc to Brass office + change Quon on Sch. 112 for Plus
- " 30 Check + Change Quon on P.L. Proposals.
- " 31 Check over with P.R. Changes on E.L.C. - L. Ph. Proposals + change.
- August 1 1935 Work up Areas along Deluzara Diversion etc
- " 2 Work up Areas around ETAY
No for Drawings in P.L. + change Spec. P.L.
- " 3 Proof Reading + changing + Cor. Proposals
- " 4 Sunday in San Diego.
- " 5 ch + changing Spec.
- " 6 Proof reading with Mr. Barner over Spec. etc
- " 7 " " Binding P.L. Specs 1-7
- " 8 " " " " " "
- " 9 " " " " " "
- " 10 on P.L. Profile. To Store Room + on P.L. Trac.
- " 11 Sunday.
- " 12 on P.L. Profile
- " 13 San Day Holiday marked on 100 to 101 A.L. Profile
- " 14 Revising Maps P.L. to Shop, on Inventory + Spec
- " 15 Revising Profile 1"=1000 P.L. Tracings.
- " 16 Revising Profile 1"=1000 P.L. Tracings.
- " 17 El Monte Pumpin Plant layout P.L. Tracings
- " 18 Sunday in San D.
- " 19-27 On Tracings of El Capitan Dam to Lakeside
1"=100 Profile Sheets + Corrections due to
- " 27 to 9/4 Changes on other drawings of same.
Same - 9/1 Sunday, 9/2 Labor Day off.
- Sept 4 1/2 day on Colo May San licenses Marr on
+ ch. water El Capitan Dist.
- " 5-6 Ch. Dist water El Cap. + Cal Ce 112 Ex P.L.
- " 7 Coloring Beckin Maps of Water Dist.
- " 8 Sunday 9/9 Admission Day
- " 10-11, 12. 1/2 Gen. work Cal O Ex P.L.
- " 13 Coloring Beckin Maps of Water Source in City.
- " 14 Same + Notes on P.L. Profiles
- " 15 Sunday.

70

Sept 16- Oct 16th In San Diego Office Gen.

Work and Profiles of Pipe Line

Revised etc.

Nov. 17 1935 Sunday.

" 18th Vacation in San Diego to 11/21/35Bal Due 1 day + other time due for
work on Holidays. Dec 7th ~~holidays~~Dec 7-1936
Gen. Feb. San Office on Pipe LinePlans, Specifications + Surveying
proof reading and assemblingColorado River - tracings + key maps 1"=10^{ft}

Feb 22 Holiday - on 3rd 23 At Home - to office 24

" 24 In Office - on Personal report.

" 25-29 " " General

Colorado River Water
March 10-11 1/2 12 on 1"=10 miles Map of S.D. Cor. etc

" 12 on Profile Route 3 Map

" 13 " " " "

" 14 " " " "

" 15 " " " "

" 16 " " " "

" 17 " " " "

" 18 " " " "

" 19 " " " "

" 19 Hodges Contracts 1/2
Col River Profiles 1/2

1936.

Apr 21 Newcamp - with party in tunnel layout Pier at Tug + Set Points + some chipping with Pipe, etc. + Hudson. also with Party to check

slope stakes to 179-184. + in office

Classification of Haul from Reads Reports + Take Sample Pea gravel in to Testing Lab.

Apr. 22. Out at 7:30 AM. To Tunnel to hold up work on Pier 23 to revise line. General in office + checking grades on Pipe with reference to Pipe Excavation grade.

Rearrange Records in Vault. to 11 PM.

Apr. 23, In office on General. Plot Notes + Cal Vol fill 228± To Eng Club at night with J.W.

Apr 24 in office Revising Class 2 Ex + fill To Final x Sec. + General Routine Sketches of Piers. Docks etc. (Pier for

" 25 Same in Office Revising Fill to final + Ch.

Apr 26 Sunday in J.D.
" 27 Over work in Tunnel - Plans + etc with J.W. over location in field with party + J.W. at 85. Note Field office from Dam to El Morote Pump Plant. At Schrey Police + 4 Prisoners. on Data for Final Est Class 2, 4, 5

" 28 Gen. 99.18 General Routine - To Tunnel to check grade + alignment Piers A + 1 + Calculations Ex Class 2 + Fill -

29 99.22 Gen. 16 2002 In office on General Routine + Cal for Est.

30 Sick Tooth In office on Gen Routine + Cal for Estimate

Converse in office on Changes to Alignment + Grade + On Est 1/2 day.

May 1st Sick Tooth 1/2 day Conveys + in office on Estimate quantities

1936

- May 2 Newcomb & in Office on
Ulcered
Teeth Estimate & etc. Ink Sec.
To San D in PM.
- May 3 in San D. - Sunday.
- " 4 Out in AM. on Est Quar.
Ulcered
Teeth + ink + plot Sections.
- " 5 Holiday - Election Day in San Diego
- " 6 To El Capitan 7:40 AM. in Office
on X Sec + general.
- " 7 In Office at El Capitan on
Tabulation of Class 2 + stems
4 + 5 Quantities + General
Routine.
- " 8 Ink X Sec. and General
office Routine - Check up
grade of Pipe Line Plot
Profile new ground line.
- " 9 Over work in Tunnel with J.M.W.
and in office on checking
Cons Drawings + General.
To San Diego 3 PM

73

- May 10 1936 - Sunday in San Diego
- " " " To Dawn 7:30 AM. Copy Dist
notes into 534 + General. To SD
with J.M.W. at night to exchange
car 476 for 206.
- May 12 Check Cons. Drawing + General
To Tunnel with Reed night.
- " 13. General. Files, etc.
- " 14 Copy Notes for Irr Dist 534
and general. Payroll etc. ^{F.B.}
- " 15 Payroll, Reports etc.
- " 16 On Sections + General.
- " 17 Sunday
- " 18 Check + Tabulate Grades from
Steel Co detail sheets + on
inking Sections + General.
- " 19 J.M.W. One Carpenter, myself
Simpson, + Field Party Set up
Field Office in AM.
General Routine in PM.

1936. 36" Valve Layout etc
May 20 General work in Office.
May 21 Over Work and Loc

of Valve Sta 17+00. Pier 38

Conceding 36.39 + Ex.

Very Ragged. Valve Layout ^{Date}

Crown Timber Sta in Turn.

Ground Line at Sta 17+

+ General.

22 Plot Location Valve Sta 17 on

Dam Topo Sheet. Straighten

up Maps in Vault + General

23 General routine in office

24 Sunday in San Diego.

25 Out 7:30 AM Cal Concrete

Valve Chamber Sta 13+00. Sketch

for Anchor Sta 11+50 + General

- look for data on Pipe lines to +

from this camp.

26 General.

27 Tol Piers - Plot Class 2 Ex. Sec

on Dist end. + ch. Con. Dwg. Gen.

May 28. Over Valve Lay out Sta 17+00

with at-rrr. Plat. Class 2

Sec on Dist. Contr. Make up

pay roll - 7:30 to 5:45.

May 29 Inkin class 2 Sec on Dist

make up payroll + General
To San Diego

May 30 Holiday in San Diego

" 31 Sunday " " "

June 1 ¹⁹³⁶ At El Capitan Dam Plot + in final

Sec of Class 2 to Dist Contr.

Over work in field with Converse

+ check air valve + Blowoff data ^{Rep}

June 2. General in Office.

" 3 To San Diego " on Tracing

for Valve installation Sta 17

" 4 check Hodges Est.
Same + revise said dwg.

" 5 Tracing of Lay out at
El Monte Pumping Plant
+ Completion of above Tr.

" 6 Same AM only off PM.

" 7 Sunday in San D

1936.

June 8 H.W. in San D. office Complete
Tracing + Some add to El Norte Pump
Layout + Check over. Con Seal
Dwg in P.M.

9. On Relocation to Sare Special on
Pipe Line. G.M.C. in office.
Paul to L.A.

" 10-11-12 On above and checking
drawings of R.L.

" 13-21 In San Diego Office on
Valve Chamber design + tracing
+ Tracing of layout at El
Norte Pumping Plant + Ch Con
drawings etc.

1936

June 22 To El Capitán A.M. with Leslie.
On inventory of Equip at
this camp.

June 23 Same on inventory
" 24 Check up on drawings
make sketch of Anchor at 11450
Time Sheets. Record of over depth
required in trench + General. photos

75

June 25 1936. Check up Air Valve
and etc on Dist Contract + etc
on Profiles + Con detail Sheets
Take inventory of Office equipment
6 P.M.

June 26. Write up + Continue in r.
Make up time Sheets - Look up data
in Specifications.

June 27 - Check copying of notes
into 530 for District Record. Check
data in Specifications -

June 28 Sunday
" 29 Inventory, Patrie Cham.
Checking Notes + etc
" 30 " " + Copying
for District + our records.
over work in field.

July 1, 1936. Check notes, Make up Est.*4

" 2 " Check Est.*4. Check Con detail Sheet
at lower end. Make up diary, Time Sheets.

July 3, In Res Brig Office on Gen.
" 4 Holiday.
" 5 Sunday.

8/19/36 General office routine
+ make up list of Appurtenances
+ Stations City Contract.

8/20/36 Worked data for field party on
Location near Lakeside + Gen

8/21/36 3:30 P.M. on General work in office
at Dam. Work up Volume of Pier A
+ Valve Supports after going over
Same on G.M. Prod.

8/22/36 Over work of Simpsons + in
office on Gen + to San Diego

8/23/36 In San Diego

8/24/36 To Dam 5:30 out of SD. Record for
Simpson + report + on Dist
Records Copying + etc.

8/25/36 Holiday in San Diego Elec. Day.

8/26/36 on General Routine + Copy Records
of Irr. Dist Sec into 534.

8/27/36 Copy Records into Dist 534 - Payroll
+ General. + on Est Q City Sec.

8/28/36 Estimate of Q for Mr Kasper
in S. D.

8/29/36 " "

8/30/36 To Res at 645 + dope for
Simpson. Hough here on Est. 6
Check data for Class 1 Ex F.B. 528
+ General.

9/1/36 N + Hough, C.B. + Data for Est #6
+ general.

9/2/36 Same

9/3/36 " "

9/4/36 Newcomb, Same. Hough to San Diego office

9/5/36 " in Field office on notes.

9/6/36 Sunday

9/7/36 Labor Day Holiday

9/8/36 Newcomb Revised grade on our Set
Properties to Con Steel grade + check notes.

9/9/36 Admission Day - Holiday

9/10/36 Revise Dwg P.P. 463 + Sketch Pumpout Box
+ General.

9/11/36 Check Q Class 1 Ex. + on Drawings
of Valve Chamber + Pumpout Box +
to 10 P.M. Cal Line on Revision of
Road location near Lakeside.

9/12/36 Complete Map of Pump out Box
and into San Diego Office - today report
in S.D. Cal Tr. here, Sunday.

9/13/36 To Dam " " home - Check Class 1 Ex.

9/14/36 " " " " " " " "

9/15/36 Check Class 1 Ex F.B. 528. Sketch for Anchors - etc.

9/16/36 " " " " " " + General

9/17/36 " " " " " " + "

9/18/36 " " " " " " " "

9/19/36 " " " " " " " "

9/20/36 In San Diego

9/21/36 To Dam. in Office Change of
Alignment at 410 + Stone Ex Q
and Class 1 Q

9/22/36 Over time with J.M.M. To take X Sec
of Backfill Sec. Super too busy.
in Office Check Class 1 data Q.

9/23/36 Cal. of Class 1 + Data same + Cal.
+ data on Class 3 Ex + General.

9/24/36 Same

9/25/36 With Party at Lakeside - Sketch for
Anchor - Change Grade at
Lakeside - List of Steel + etc

9/26/36 Over with Hudson for Final
Q. Measure up Catwalk Lumber etc

9/26 To S.D. 2:30
In " "

9/28 To Dam + Simpsons Data + etc 2 hrs.
on Corrections to Kaspers Drawings.
to 2:30. Class 1 Ex Q to

9/29 Data for Class 1 + Cal 1 + 3.

9/30 Same + To Pipe Line to
Lakeside Valve Chamber
revise Anchor Sta 312 + etc

10/1/36 W.M. in Camp at Kettle's house
Cal Cl. 1 + 3 Ex. Over line with 4 m
Data for 10 day report + to See Super.

10/2/36 Estimate #7. 10/3/36 Same

10/4/36 Sunday 10/5/36 Est to 9:30 PM.

10/6/36 Est. by Insp Talre Cham 13:00. etc

10/7/36 Take Simpson Data + get men to 3 hrs.
Plat Final ground Class 1 on Profile.
Look over on ground Anchor 3 in

10/8/36 Make up + go over with J.W. Backfill
requirements + Data required for same.
+ Data on change to date

10/9/36 Data on change for letters, etc

10/10/36 " " " " " "

10/11/36 Sunday 10/12/36 Columbus Day.

10/13/36 Mr Pyle here at 8 AM. on Cal of
Pal of Class 1 Ex. + etc

10/14/36 Simpsons work 6:45 to 9 AM. For McKusper
+ Return same to Pump Plant 1 hr.
Cal. Class 3 + 4 Ex. + on Backfill Sec.

10/15/36 Anchor + Steel detail 4 + 6 + Data from
Field party + Cal. Q Class 3 + 4 etc.

10/16/36 Anchor + Steel detail 411 + 77 Data to
field books + on Prints + Final Q. Est.

10/17/36 Took up Simpsons work + reports
at 9 A.M. + On Estimate of

10/18/36 S. Final Q. Pipe Line.

10/19/36 On General Change Order + Final
Est Prelim.

10/20/36 Est of Final Q + To office on same.

10/21/36 Simpsons work + etc 3 hrs. + General
Conduit for Recording Sta. Cons. + etc

10/22/36 Ch. notes on Final Profile + Plat + General.

10/23/36 General in office + To Sand with J.W.
in office - Got Tracings to be
Corrected to date

10/24/36 At Dam on General + etc + 6 Q.

10/25/36 Sunday 10/26/36 To Dam.

10/26/36 At Dam On Gen + Final Q. Cal.

10/27/36 " " " " " "

10/28/36 " " Simpsons work + " " Cl. 3 + 1 Ex + Con

Nello.
Se Top Ceiling

	11/6/36	11/24/36
#1 N. 3620 E 4760	663.4	48° 50°
#2 N. 3620 E 4840	699.4	Covered up. Abandoned.
#3 N. 3620 E 4920	689.3	33° 32°
#4 N. 3620 E 5092	698.0	49° 45.5°
#5 N. 3620 E 5140	700.8	79.5° Covered up.
#6 N. 3450 E 4840	701.5	73.5° 74.0°
#7 N. 3740 E 4840	696.7	Covered up.
Summit Pool El	681.0	682.0
See also E. U.S. Toe Wall	569.7	568.8
" " " " " "	570.5	570.0
" " " of Dam #2 Dr. Wall	547.5	548.0
10/29/36. 2 at Dam, over Backfill Const. with J.W. + FDP. - To Road Const to Top Dam + Cal.		
10/30/36 Over line with J.W. + on Cal of Backfill + etc.		
10/31/36 General work in office		
11/1/36 Sunday 11/2/36 Cal Final Q Conc.		11/3/36 Election day.
11/4/36 Final Q + Est #9 11/5 Ch notes, plat + final profile + Cal		
11/6/36 Est #8 + Reed checking Final Q.		11/7/36 Change day
11/8/36 Sunday 11/9/36 Changes on Drawings, + etc		11/10/36 Same
11/11/36 Armistice. 11/12/36 Correcting Drawings to date		11/13/36 Same
10/11/36 Const. Day. (15) Sunday (16) Const. "		(17) Cal final Est.
18 + 19 Make up final Est to over on 19th with Scanland		shack
20 - 21 (22) Sunday 23, 24, 25 (26) Thanks 27 Final Est + Draw.		work
28 Est.		

CALCULATION OF EARTHWORK.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
For Single Track Embankment.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.1
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	69.4	40

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w = 16.2 and h = 5.3, cu. yds. = 1.48 + .028 + .089 = 1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) = h, and 1/2 the roadbed = w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.