

315

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JAN 12 1965

325
12/37
36
30
24
60
218

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MIC

Profile levels over San Dieguito corridor

Top of Wall		249.92	BM#27
	7.34	257.26	
156+00	+3.51	248.98	W.S.
	11.79	245.47	Bottom
157+00	7.34	249.92	T/W
	+3.50	248.94	W.S.
	11.82	245.44	Bot.
158+00	7.53	249.73	T/W
	+3.50	248.91	W.S.
	11.85	245.41	Bot.
159+00	7.54	249.72	T/W
	+3.55	248.94	W.S.
	11.87	245.39	Bot.
160+00	7.53	249.73	T/W
	+3.55	248.94	W.S.
	11.87	245.39	Bot.
161+00	7.58	249.68	T/W
	+3.60	248.91	W.S.
	11.95	245.31	Bot.
162+00	7.70	249.56	T/W
	+3.60	248.90	W.S.
	11.96	245.30	Bot.
163+00	7.40	249.86	T/W
	+3.60	248.85	W.S.
	12.01	245.25	Bot.

P.O.G
Aug. 12-31

Aug. 26-31

Sta 156+00 = 154+48 as shown on Page 3 Book 303

Note Raising is at 157+00 instead 154+40

+ means to be added to bottom elevation 3.94
246.01 .93

1.11 gage at Dam

3.9	Gaging # 19	156+00	true dist. .92/249.00
	"	21	249.92 249.70 .93/248.77 ✓
	"	22	249.08 .59/248.54 ✓
3.76	"	23	248.84 .37/248.47 ✓
	"	24	249.56 1.20/248.36 ✓
	"	26	249.44 1.80/248.04 ✓
3.71	"	27	249.04 1.19/247.85 ✓
	"	28	250.40 3.16/247.24 ✓
	"	29	250.08 3.24/246.74 ✓
3.74	Gaging 375		
	"	29	
3.65	"	31	249.92 4.12/245.80

Aug 12 '31
R.O.G.

2

Aug. 26-31

164+00	257.26	7.58	249.68	T/W	3.69
		+ 3.65	248.84	W.S.	
		12.07	245.19	Bot.	
165+00		7.50	249.76	T/W	3.76
		+ 3.65	248.81	W.S.	
check in		12.10	245.16	Bot.	
166+00		7.62	249.64	BM #28	= 249.64
		7.40	249.86	T/W	3.82
		+ 3.65	248.81	W.S.	
		12.10	245.16	Bot.	
167+00		7.63	249.63	T/W	3.69
		+ 3.69	248.84	W.S.	
		12.11	245.15	Bot.	
168+00		7.52	249.74	T/W	3.84
		+ 3.65	248.79	W.S.	
		12.12	245.14	Bot.	
going upstream from BM #27			249.92		
	6.83		256.75		
155+00		6.77	249.98	T/W	3.98
		+ 3.45	248.98	W.S.	
		11.22	245.53	Bot.	
154+00		6.91	249.84	T/W	3.98
		+ 3.50	249.04	W.S.	
		11.21	245.54	Bot.	
153+00		7.08	249.67	T/W	3.68
		+ 3.45	249.02	W.S.	
		11.18	245.57	Bot.	

169+00 stationing is OK again

.97/249.01

.84/249.00

.64/249.03

San Diego with Conduct Profile

Aug. 12-31
P.O.C.

rainy!

3

2.5675

152+00

6.98 249.77 T/W

3.69

Aug. 26-31

.68/249.09

+3.45 249.07 W.S.

11.13 245.62 Bot.

151+00

7.03 249.72 T/W

3.70

.65/249.09

+3.50 249.09 W.S.

249.62
+18A

.59/249.08

11.16 245.59 Bot.

150+00

7.02 249.73 T/W

= BM # 26 = 249.72

.62/249.17

+3.45 249.12 W.S.

3.70

11.08 245.67 Bot.

149+00

7.05 249.70 T/W

3.63

.58/249.12

+3.45 249.13 W.S.

11.07 245.68 Bot.

T.P.

6.59 250.16

6.42

2.56.64

148+00

6.91 249.73 T/W

3.64

.58/249.15

+3.40 249.18 W.S.

10.86 245.78 Bot.

147+00

6.83 249.81 T/W

3.72

.69/249.12

+3.35 249.16 W.S.

10.83 245.81 Bot.

146+00

6.92 249.72 T/W

3.59

.59/249.17

+3.30 249.17 W.S.

10.77 245.87 Bot.

145+00

6.91 249.73 T/W

T.P. 2.62

+3.30 249.19 W.S.

246.11

10.75 245.89 Bot.

San Diegoito Conduit Profile

Aug. 12-31
P.O.G.

4

249.73 TP 54 14500

Aug. 26-31

6.73 256.46

144+00

6.75 249.71 T.W. 3.60

.56 / 249.15

+3.25 249.23 W.S.

10.48 245.98 Bot.

143+00

6.81 249.65 T.W. 3.56

.41 / 249.24

+3.20 249.22 W.S.

10.44 246.02 Bot.

T.P.

6.16 250.30

on top of strut

4.94 255.24

142+00

5.42 249.82 T.W. 3.60

.62 / 249.20

+3.20 249.28 W.S.

9.16 246.08 Bot.

141+00

5.56 249.68 T.W. 3.49

.45 / 249.23

+3.15 249.29 W.S.

9.10 246.14 Bot.

140+00

5.24 249.60 T.W. 3.36

.36 / 249.24

+3.15 249.25 W.S.

9.14 246.10 Bot.

249.72

#18

.46 / 249.26

check in

5.56 249.69

249.82 - 0.03

139+00

5.37 249.87 T.W. 3.53

.62 / 249.25

+3.10 249.32 W.S.

9.02 246.22 Bot.

138+00

5.46 249.79 T.W. 3.44

.50 / 249.28

+3.05 249.27 W.S.

9.02 246.24 B

check in

5.40 249.84 BM#25

249.85 - 0.01

San Dieguito Conduit Profile

Aug 12-31
F.O.S.

5

255.71

Aug 26-31

137+00

5.31 249.93 T.W.

3.48

.65/249.28

+2.95 249.34 W.S.

8.85 246.39 Bot.

T.P.

4.93 250.31

5.17 255.48
5.71 256.02

136+00

5.66 249.82 T.W.

3.38

.49/249.43

+3.10 249.36 W.S.

246.26

9.22 246.80 Bot.

135+00

5.67 249.81 T.W.

3.35

.48/249.33

+2.95 249.39 W.S.

246.44

9.04 246.98 Bot.

134+00

5.72 249.76 T.W.

3.20

.40/249.36

+2.90 249.34 W.S.

9.04 246.44 Bot.

249.72

check in

5.76 250.26 BM#24

249.72

? +.54?

133+00

5.73 249.75 T.W.

3.14

.40/249.35

+2.90 249.41 W.S.

8.97 246.51 Bot.

132+00

5.62 249.86 T.W.

3.26

.50/249.36

+2.85 249.46 W.S.

8.87 246.61 Bot.

131+00

5.65 249.83 T.W.

3.09

.49/249.43

+2.85 249.45 W.S.

8.88 246.60 Bot.

San Dieguito Conduit Profile

Aug 12-31
POB

6

Station	Profile	Point	Elevation	Notes	Distance	Remarks
130+00	256.02 255.48	5.53	249.95	T.W.	3.11	Aug 20-31 .49/249.46
		+2.80	249.50	W.S.		
		8.78	246.70	Bot.		
129+00		5.62	249.86	T.W.	3.08	.43/249.46
		+2.80	249.51	W.S.		
		8.77	246.71	Bot.		
checkm		5.63	249.85 250.39	BM+23	249.84	end of streets
	4.55 254.39					249.86 #16A .42/249.44
128+00		4.54	249.85	T.W.	3.04	.39/249.46
		+2.85	249.51	W.S.		
		7.73	246.66	Bot.		
127+00		4.56	249.83	T.W.	2.99	.20/249.43
		+2.75	249.55	W.S.		249.77 #16 .41/249.36
		7.59	246.80	Bot.		
126+00		4.59	249.80	T.W.	2.92	.37/249.43
		+2.80	249.57	W.S.		
		7.62	246.77	Bot.		
125+00		4.52	249.87	T.W.	2.80	.43/249.44
		+2.70	249.56	W.S.		
		7.53	246.86	Bot.		
124+00		4.45	249.94	T.W.	2.76	.45/249.49
		+2.70	249.60	W.S.		
		7.49	246.90	Bot.		

Aug 12-31
POG

raining

7

	254.39			
123+00	4.44	249.95	T.W	
	+2.70	249.63	W.S.	
	7.46	246.93	Bot.	
TR	4.44	249.94	BM#22	
	7.16	257.10		
122+00	7.09	250.01	T.W	
	+2.70	249.68	W.S.	
	10.12	246.98	B.	
121+00	7.14	249.96	T.W	
	+2.70	249.66	W.S.	
	10.14	246.96	Bot.	
120+00	7.00	250.10	T.W	
	+2.70	249.72	W.S.	
	10.08	247.02	Bot.	
119+00	6.97	250.13	T.W	
	+2.65	249.72	W.S.	
	10.03	247.07	Bot.	
116+88.5	7.33 9.84	249.77	T.W. indist	
	+2.55	249.81	W.S.	
	9.84	247.26	Bot.	
116+73.5	6.89? 7.27	250.23	T.W	
	+2.10	249.84	W.S.	
	9.86	247.24	Bot.	
116+00	6.83	250.27	T.W.	
	+2.60	249.86	W.S.	
	9.84	247.26	Bot.	

BM#22 249.94
2.93

Aug 26-31

.41/249.54

2.95

.49/249.52

2.89

.40/249.56

2.94

.50/249.60

2.97

.52/249.61

Beginning of Metal Flume East end #30
2.92

some spill

invert

10' East of Metal Flume

2.89

.54/249.73

San Dieguito Conduit Profile

Aug. 12-31
P.O.C

8

257.10

115+00

6.72 250.38 T.W.

2.93

Aug. 26.31

.59 249.79

+2.55 249.90 W.S.

9.75 247.35 Bot.

114+83

6.79 250.31 T.W.

10 West of Flume # 29

+2.60 249.89 W.S.

9.81 247.29 Bot.

114+73

7.19 249.91 T.W. metal

209 West end Flume # 29

.11/249.80

+2.55 249.90 W.S.

invert

9.75 247.35 Bot.

114+40

7.18 249.92 T.W. metal

232 East end Flume # 29

.11/249.81

+2.55 249.93 W.

9.72 247.38 Bot.

114+30

6.79 250.31 T.W.

10' East of East end # 29

+2.60 249.97 W.S.

9.73 247.37 Bot.

114+00

6.79 250.31 T.W.

2.86

.50/249.81

+2.60 249.93 W.S.

250.36

#14

.55/249.81

9.77 247.33 Bot.

113+00

6.67 250.43 T.W.

2.87

.55/249.88

+2.65 250.04 W.S.

9.71 247.39 Bot.

check

6.74 250.36 B.M. #21

112+00

6.68 250.42 T.W.

2.85

.48/249.94

+2.65 250.05 W.S.

9.70 247.40 Bot.

San Dieguito Conduit Profile

Aug 12 '31

P. 96

raining!

9

257.10

111+00

6.58 250.52 TW
 +2.55 250.05 W/S
 9.60 247.50 Bot

T.P. 2.96

Aug. 26-31

.62 249.90

west end Flume #30

6.18 250.92

6.37 257.29

117+34

7.58 249.71 TW metal
 +2.55 249.73
 10.11 247.18 Bot

2.38

this end spills freely on both sides of

metal section

.08 / 249.63

no spilling Aug 26

117+44

7.12 250.17 TW
 2.55
 17.12 249.72 W/S
 10.12 247.17 Bot

10' down stream

.56 / 249.61

250.52

7.22 257.74

110+00

7.26 250.48 TW
 +2.60 250.09 W/S
 10.25 247.49 Bot

2.88

.50 / 249.98

109+85

7.27 250.47 TW
 +2.60 250.04 W/S
 10.27 247.47 Bot

10' downstream Flume #28

109+85

7.63 250.11 TW metal
 +2.55 250.08 W/S
 10.21 247.53 Bottom

2.41

W end #28

.14 / 249.97

spilling slightly

109+70

7.61 250.13 TW metal
 +2.50 250.11 W/S
 10.19 247.61 Bot

2.40

.15 / 249.98

San Vicente Cordillera Profile

257.74

Aug. 26-31

109+00 7.26 250.48 TW

10' up st. #28

+2.60 250.08 W.S

10.26 247.48 Bot

10' down rail up st. #28 north side

109+00 7.18 250.56 TW

2.90

.54/250.02

+2.60 250.15 W.S

10.18 247.55 Bot

108+00 7.07 250.67 TW

3.00

.64/250.03

+2.50 250.17 W.S

10.07 247.67 Bot

107+00 7.08 250.66 TW

2.99

.61/250.05

+2.55 250.21 W.S

10.08 247.66 Bot

106+00 7.05 250.69 TW

2.93

.60/250.09

+2.50 250.20 W.S

10.09 247.70 Bot

105+00 7.04 250.70 TW

2.96

.60/250.10

+2.50 250.24 W.S

10.00 247.74 Bot

T.P. 6.75 250.99

4.34 255.33

104+00 4.53 250.80 TW

2.96

.67/250.13

+2.50 250.33 W.S

7.50 247.83 Bot

103+00 4.56 250.97 TW

2.90

.59/250.23

+2.55 250.36 W.S

7.52 247.81 Bot

San Diego Conduit Profile

Aug. 12-31
P. 276

255.32⁵

Aug. 26-31
250.83
#13 .60 / 250.23 ?

10' from West Siphon

Top of Wall at entrance of Siphon
1.58 250.56
251.07
#12 .57 250.50

102+37 #13 4.50 250.85 TW

+2.55 250.40 W.S

7.47 247.88 Bot

4.21 251.14

100+73 #12 4.26 251.09 TW

+2.60 250.70 W.S

7.25 248.10 Bot

100+00 4.25 251.00 TW

+2.65 250.72 W.S

7.28 248.07 Bot

check in 4.21 251.12 BM #19

4.38 250.97

251.14 -0.02

low section 50' long in South wall

99+00 4.20 251.15 TW

+2.55 250.73 W.S

7.17 248.18 Bot

98+00 4.09 251.26 TW

+2.55 250.81 W.S

7.09 248.26 Bot

97+00 4.07 251.28 TW

+2.55 250.80 W.S

7.10 248.25 Bot

T.P. 2.59 252.76

5.01 257.77

96+00 4.25 251.42 TW

+2.55 250.89 W.S

9.43 248.34 Bot

.48 / 250.52

.61 / 250.54

.66 / 250.60

.65 / 250.63

.77 / 250.65

San Dieguito Conduit Profile

Aug. 12-31
P.O.G.

rainy

12

259.77

95+00 6.31 251.46 T.W.

+2.50 250.90 W.S.

9.37 248.40 Bot.

94+00 6.32 251.45 T.W.

+2.50 250.92 W.S.

9.35 248.42 Bot.

93+00 6.30 251.44 T.W.

+2.50 250.90 W.S.

9.30 248.47 Bot.

92+00 6.26 251.51 T.W.

+2.45 250.97 W.S.

9.25 248.52 Bot.

91+00 6.21 251.56 T.W.

+2.45 251.02 W.S.

9.20 248.57 Bot.

T.H. 6.07 251.70

6.42 252.18

90+00 6.53 251.65 T.W.

+2.40 251.07 W.S.

9.51 248.67 Bot.

89+75 6.55 251.63

+2.45 251.07

9.56 248.62

89+65 7.03 251.15 T.W. (metal)

1.25 251.11 W.

9.57 248.61 Bot.

Aug. 26-31

.72 / 250.74

.68 / 250.77

.69 / 250.78

.69 / 250.82

.69 / 250.87

.72 / 250.93

Spilling slightly

10' downstream from #24

Wend #24

.15 / 251.00

San Diegoito Condumf

Aug. 12-31

13

258.12

Aug. 26-31

89+36 7.05 251.13 T.W
 +2.90 251.14 W.S
 9.44 248.74

East end # 24

.15 / 250.98

89+26 6.54 251.67 T.W
 +2.50 251.13 W.S
 4.55 248.63 Bot

10' lipstream # 24

89+00 6.50 251.68 T.W
 +2.50 251.12 W.S
 9.56 248.62 Bot

.70 / 250.98

88+00 6.98 251.70 T.W
 +2.05 251.21 W.S
 9.52 248.66 Bot

= BM/H/17 251.72

.70 / 251.00

87+00 6.47 251.76
 +2.45 251.22
 9.41 248.77
 251.22 BM # 17

.70 / 251.00

8.70 259.97

86+19.5 8.15 251.77 T.W
 +2.45 251.25 W.S
 11.12 248.20 Bot

10' downstream # 23

86+09.5 8.51 251.41 T.W metal
 +2.45 251.31 W.S
 11.06 248.86 Bot

W end # 23

.30 251.11

85+77 8.46 251.46 T.W metal
 +2.40 251.30 W.S
 #102 248.90 Bot

E end # 23

.27 / 251.19

San Diegoito Conduit

Aug. 12-31 Raining

259.92

85+67 8.09 251.83 TW

+2.45 251.29

11.08 248.84

85+00 8.10 251.82 TW

+2.45 251.32 W.S

11.05 248.87 Bot

84+00 7.96 251.96 TW

+2.45 251.34 W.S

11.03 248.89 Bot

83+00 7.93 251.99

7.96 259.25

83+00 7.26 251.99 TW

+2.50 251.45 W.S

10.30 248.95 Bot

82+00 7.23 252.00 TW

+2.45 251.48 W.S

10.22 249.03 Bot

81+00 7.20 252.05 TW

+2.50 251.55 W.S

10.20 249.05 Bot

80+00 7.05 252.25

+2.40 251.56

10.09 249.16

7.00 252.19 BM #16

7.05 252.20 TW

+2.45 ~~251.72~~ W.S

10.08 249.12 Bot

check in
79.50

Aug. 26-31

10' upstream # 23

.68 / 251.14

.69 / 251.27

.69 / 251.30

.71 / 251.29

.66 / 251.39

100SC mark in ditch

.80 / 251.45

252.14

.75 / 251.45

San Dieguito Conduit Profile

Aug. 12-31 rainy
P.O.G

15

259.25
78+00 7.03 252.72 TW
7.45 251.62 W.S
10.08 249.17 Bot
77+52 6.95 252.30 TW
+7.35 251.66 W.S
9.94 249.31

77+44 7.44 251.81 TW metal
12.45 251.66
10.04 249.71

77+05 7.45 251.80 TW metal
+7.10 251.90
9.95 249.30

76+75 7.51 252.24 TW
7.55 251.72 W.S
10.08 249.17 Bot

76+00 6.92 252.33 TW
+7.40 251.73 W.S
9.97 249.33 B.

75+00 6.92 252.33 TW
+7.40 251.75 W.S
9.90 249.35 Bot
6.81 250.44 B.M.H.S

5.22 255.66
73+65 # 11 5.29 250.77 252.43
+2.50 249.86 251.91
8.20 247.36 249.41

Aug. 26-31
.73 250.99

10' for American # 22 .30

West end # 12 .25 / 251.56

East end # 22 .30 / 251.50

10' for American # 22

.74 / 251.59

.69 / 251.64

250.45 + 0.101

252.40
11 .71 / 251.58

Del Mar Pipeline grade at State-Highway Road x sing

Aug. 13-31
rainy

16

0+00 is the stand pipe near Sta. 13+00
State Highway Profile
bolt in 6" Pine tree 166 left Sta. 27+00

	690	143.31		136.91	B.M.#6		
14+00			5.6	137.7	T of Gr.	23+00	88
			7.15	136.16	T of Pipe		
13+00			4.2		Gr.	24+00	20
			5.63	137.68	T of		
12+65=24+35	P.I.		3.4		Gr.		
			5.00	138.31	Pipe		
12+00			2.5		Gr.	25+00	31
			3.95	139.36	Pipe		
T.P.	10.47	151.34	2.44	140.87			
11+00			9.0		Gr.	26+00	61
			11.39	139.95	Pipe		
9+00			4.9		Gr.	27+60	70
			6.73	144.61	Pipe		
8+00			4.2		Gr.	28+75	50
			5.47	145.87	Pipe		
7+00			2.4		Gr.	29+72	26
T.P.	9.71	158.17	2.88	148.46			
7+00			10.64	147.53	Pipe		
6+00			7.2		Gr.	30+73	11
			8.55	149.62	Pipe		
5+50			8.30	149.87	Pipe	36+40	18
4+50			5.1		Gr.	37+40	39
			6.29	151.88	Pipe		

Del Mar Highway crossing of Pipeline
contin.

Aug 13 - 31

17

148.46

11.12 159.58

107 Gage

1.02 158.56

7.55 166.11

0.00

4.5 Ground

7.47 158.64 Block

157.64 Pipe

San Dieguito Conduit Profile

Aug 14 - 31
P.O.C.

18.

256.52 BM #3

Aug 26 - 31 Gage 1.09

7.93 264.45

Gage 7.10 1.07

4+00	7.85	256.60	T.W.
	+2.35	255.97	W.S.
	10.83	253.62	Bot.
5+00	7.81	256.64	T.W.
	+2.35	256.04	W.S.
	10.76	253.69	Bot.
6+00	7.90	256.55	T.W.
	+2.35	255.86	
	10.94	253.51	
7+00	8.04	256.41	
	+2.40	255.25	
	11.00	253.45	
7+15	8.00	256.45	
	+2.30	255.73	
	10.98	253.47	
7+25	8.37	256.08	metal
	+2.30	256.82	
	10.93	253.52	
7+43	8.41	256.04	metal
	+2.30	255.74	
	10.98	253.49	
7+53	8.00	256.45	
	+2.40	255.79	
	11.06	253.39	

0.7/255.90

.8/255.84

.77/255.78

.66/255.25

.32/255.76

.30/255.74

Flume #1

San Dieguito Conduit Profile

Aug 14-31

19

264.95

Aug. 26-31 Gage 1.09

7+70	7.97	256.48	TW		
	+2.40	255.79	WG		
	11.06	253.39	B&H		
7+80	8.47	255.98	metal	Flume # 2	.29/255.69
	+2.30	255.77			
	10.98	253.47			
8+78	8.51	255.94	metal	" # 7	.28/255.66
	+2.40	255.62			
	11.23	253.22			
8+22	8.20	256.25	T.W.		.73/255.52
	+2.40	255.65			
	11.20	253.25			
10+00	8.22	256.23		Road X 6 in	.70/255.53
	+2.45	255.59			
	11.31	253.14			
11+00	8.23	256.22			
	+2.35	255.56			
	11.24	253.21			
12+00	8.33	256.12			.71/255.41
	+2.45	255.55			
	11.35	253.10			
13+00	8.31	256.14			.77/255.37
	+2.30	255.46			
	11.29	253.16			
TP	8.31	256.14			

San Dieguito Conduit Profile

Aug. 14 - 31

20

	264.45			
14+00		8.31	256.14	
		+2.40	255.50	
		11.35	253.10	
	4.33	260.47		
14+46		4.35	256.12	+ W
		+2.30	255.42	W.S
		7.35	253.12	
14+56		4.86	255.61	metal
		+2.40	255.41	
		7.46	253.01	
16+40		5.00	255.47 255.90	metal
		+2.40	255.38	
		7.54	252.98	
16+50		4.58	255.89	
		+2.45	255.30	
17		7.62	252.85	
17+00		4.62	255.85	
		+2.40	255.32	
		7.65	252.82	
T.P.	7.17	262.95	4.69	255.78
18+00			7.12	255.83
			+2.45	255.26
			10.14	252.81
19+00			7.18	255.77
			+2.45	255.20
			10.20	252.75

Aug. 26-31 6 1.09

.76/255.38

Flume # 3

.25/255.36

.20/255.27

255.90
16+40

.32/255.38 ?

.65/255.20

.72/255.11

.66/255.11

San Diegoquito Comber Profile

262+95

20+00		7.31	255.64	T W
		+2.50	255.17	W.S
		10.28	252.64	Bot
21+00		7.11	255.84	
		+2.50	255.76	
		10.29	252.86	
22+00		7.02	255.83	
		+2.45	255.15	
		10.25	252.70	
22+50		7.46	255.49	
	5.10	260.86	7.19	255.76 BM#6
23+00		5.18	255.68	
		+2.40	255.00	
		8.26	252.60	
23+45		5.27	255.59	
		+2.00	255.02	
		8.34	252.52	
23+55		5.75	255.11	Metal
		+2.45	255.00	
		8.31	252.55	
24+16		5.98	255.08	Metal
		+2.45	254.95	
		8.36	252.50	
24+26		5.36	255.50	
		+2.50	254.95	
		8.41	252.45	

Aug 14 - 31
P. O. S

21

Aug 26-31 S 1.09

.53/255.11

.72/255.06

.76/255.07

south wall low place

.59/254.99

Flume # 4 big eddy

.25/254.86

.16/254.92

San Dieguito Conduit Profile

Aug. 14-31 rainy
P.O.C.

27

Station	Offset	Profile	Profile	Profile
	260.86			
25+00		5.40	255.46	
		+2.50	254.95	
		8.41	252.45	
T.P.	6.50	262.10	5.26	255.60
26+00		6.72	255.38	
		+2.45	254.85	
		9.70	252.40	
27+00		6.75	255.35	
		+2.50	254.83	
		9.77	252.33	
27+26		6.78	255.32	
		+2.50	254.83	
		9.77	252.33	
27+36		7.18	254.92	metal
		+2.45	254.83	
		9.72	252.38	
27+53		7.18	254.92	metal
		+2.30	254.77	
		9.63	252.49	
27+63		7.88	254.32	
		+2.45	254.77	
		9.78	252.32	
28+00		6.74	255.36	
		+2.50	254.76	
		9.84	252.26	

Aug 26 31 61.09

.63 / 254.83

.56 / 254.82

.56 / 254.79

F/uric #2 A eddy

.22 / 254.70

.19 / 254.73

.07 / 254.67

San Dieguito Conduit Profile

Aug 14-31
P.O.C

23

262110

Aug 26-31 G. 1109

T.D. 8.03 263.38 6.75 255.35

29+00 8.03 255.35

+2.50 254.70

11.18 252.20

29+20 8.16 255.32

+2.20 254.71

11.17 252.21

29+89 8.59 254.79 metal

+2.40 254.62

11.16 252.22

30+03 8.60 254.78 metal

+2.40 254.63

11.15 252.23

30+13 8.20 255.18

+2.45 254.65

11.18 252.20

30+82 8.25 255.13

+2.50 254.60

11.28 252.10

30+92 8.57 254.81 metal

+2.25 254.61

11.12 252.26

31+25 8.56 254.82 metal

+2.35 254.56

11.17 252.21

Flume #5

.19 / 254.60

.16 / 254.62

Flume #6

.29 / 254.52

.22 / 254.60

.59 / 254.76 ?

San Diegoito Conduit Profile

263.38.

31+35		8.22	255.16	
		+2.40	254.83	
		11.25	252.13	
32+00		8.29	255.09	
		+2.50	254.59	
		11.31	252.07	
33+00		8.25	255.13	
		+2.45	254.53	
		11.30	252.08	
T.P.	549	259.19	9.69	253.69
check in		4.16	255.02	BIM #8
34+00		4.15	255.04	
		+2.45	254.44	
		7.20	251.99	
35+00		4.31	254.88	
		+2.50	253.41	
		7.28	251.91	
35+37		4.19	255.00	
		+2.40	254.39	
		7.20	251.99	
35+45		4.62	254.57	metal
		2.30	254.39	
		7.46	252.09	
35+61		4.63	255.56	metal
		+7.25	254.28	
		7.16	252.03	

Aug 1A-31
P.O.G

74

Aug. 26-31 G 1.09

.63/254.46

.70/254.43

255.03

.66/254.38

Water escape to left he. 53/254.35
no # 3 254.99 .66/254.33

.36/254.21

Flume #7

.29/255.27

San Dieguito Conduit Profile

Aug. 14-31
P.O.G.

75

259.19

Aug 26-31

35+71	4.26	254.93	
	+3.30	254.24	
	7.25	251.94	
36+00	4.43	254.76	
	+3.55	254.29	
	7.45	251.74	
37+00	4.34	254.85	
	+3.45	254.24	
	7.40	251.79	
38+00	4.35	254.84	
	+2.40	254.24	
	7.35	251.84	
38+72	4.38	254.81	
	+2.40	254.18	
	7.41	251.78	
38+82	4.73	254.46	metal
	+2.35	254.18	
	7.36	251.83	
39+15	4.75	254.47	metal
	+2.30	254.19	
	7.30	251.89	
39+71	4.46	254.73	
	+2.40	254.14	
	7.45	251.74	

35+90 ^{254.80}/_{#4}

.53/254.27

.53 254.23

.69/254.21

.69/254.15

Elim #8

.29/254.17

.33/254.11

San Dieguito Conduit Profile

Aug. 14-31
P.O.C.

26

		259.19			
391.81			4.90	254.29	metal
			+2.35	254.08	
			7.46	251.73	
404.58			4.87	254.32	metal
			+2.25	254.03	
			7.41	251.78	
404.68			4.53	254.66	
			+2.10	254.00	
			7.59	251.60	
41+00			4.49	254.70	
			+2.30	254.03	
			7.46	251.73	
T.P.	4.77	259.57	4.40	254.79	BM#9
41+73			4.95	254.62	
			+2.30	253.94	
			7.93	251.64	
41+83			5.38	254.19	metal
			+2.30	253.81	
			7.94	251.51	
42+15			5.25	254.25	metal
			+2.20	253.88	
			7.89	251.68	
43+25			5.09	254.48	
			+2.35	253.84	
			8.05	251.52	

Flume #9

Aug. 26-31

.28 / 253.99

.39 / 253.93

.81 / 253.89

254.80

Flume #10
water escaping

.37 / 253.82

.42 / 253.83

San Dieguito Conduit Profile

259.57

42+08	5.03	254.54	
	+2.30	253.82	
	8.05	251.52	
42+78	5.39	254.18	metal
	+2.25	253.80	
	8.02	251.53	
43+10	5.43	254.14	metal
	2.20	253.81	
	7.96	251.61	
43+20	5.07	254.50	
	+2.25	253.77	
	8.05	251.52	
43+29	5.16	254.41	
	2.6	253.79	
	8.38	251.19	
44+06	5.28	254.29	Top of
46+48.5	5.17	254.40	"
46+60	5.34	254.72 254.23	"
594	260.17		
47+00	6.06	254.11	
	+2.35	253.45	
	9.07	251.10	
48+00	6.06	254.11	
	+2.30	253.34	
	9.13	251.04	

Aug. 14-31

P.O.C.

27

Aug. 26-31

Flume 10 A both legs in leadly
 $\frac{.40}{253.78}$

$\frac{.37}{253.77}$

$\frac{45254.31.73}{253.58}$

Headwall Siphon #1

254.16

254.16
HC

$\frac{.86}{253.30}$

$\frac{.72}{253.39}$

$\frac{.77}{253.34}$

San Dieguito Conduit Profile

Aug 14-31

28

260.171

48+55		6.08	254.09	BM #10	254.05	0.74	
		+2.30	257.87				
52+05	5.16		259.05		253.87		
		+2.05	252.99				
		8.11	250.94				
53+00		5.40	253.65				
		+2.35	252.96				
		8.44	250.61				
T.P.	4.86		258.74	5.17	253.88		
					253.85	on top of cover	
55+05		5.32	253.42				
		+2.30	252.86				
		8.12	250.56				
55+12		5.66	253.08	metal			
		7.30	252.80				
		8.24	250.50				
55+48		5.58	253.16	metal			
		+2.25	252.79				
		8.20	250.54				
55+50		5.23	253.51				
		+2.25	252.78				
		8.21	250.53				
57+00		5.30	253.44				
		+2.35	252.75				
		8.34	250.40				

254.05 0.74

Check levels

254.80 BM #9
4.77
259.57 H.I.
5.50
254.07 #8 .95 / 252.91
253.86
48+83 #7 .59 / 253.36
253.95

Beginning of covered section
+72 / 252.93

check levels

254.05
5.00
259.05
5.19
253.86 = 253.84
253.86 .33 / 252.75

Flume # 12

.37 / 252.79

56+00 break Aug 17-31

San Dieguito Conduit Profile

Aug. 14 - 31

29

258.74

57+02		5.80	252.94	metal
		+2.40	252.73	
		8.41	250.33	
57+19.5		5.84	252.90	metal
		+2.40	252.70	
		8.44	250.30	
57+21		5.28	253.46	
		+2.30	252.72	
		8.32	250.42	
57+44		5.35	253.39	
		+2.35	252.71	
		8.38	250.30	
57+46		5.73	253.08	metal
		+2.30	252.69	
		8.35	250.39	
57+64		5.81	252.93	metal
		+2.35	252.71	
		8.38	250.36	
57+65		5.30	253.38	
		+2.30	252.69	
		8.35	250.39	
T.P.	3.38		254.64	
			257.99	
		4.08	254.62	
60+23		4.84	253.23	metal
		+2.40	252.59	
		7.88	250.19	

Aug. 26-31

.26/252.68

14

.25/252.65

15

.36/252.65

.35 252.58

Flume # 16

loose rocks and dirt in bottom

~~252.58~~
~~252.58~~

San Dieguito Conduit Profile

Aug. 14-31

79.

	257.77 258.06	5.27	252.80	metal
60+25		+2.35	252.58	
		7.84	250.23	
60+57		5.28	252.79	metal
		+2.30	252.51	
		7.86	250.21	
60+59		4.79	253.28	
		+2.35	252.55	
		7.87	250.20	
61+ ⁴⁵ 50		4.97	253.10	
62+77		5.00	253.07	
		+2.35	252.43	
		7.99	250.08	
62+78		5.38	252.69	metal
		+2.25	252.28	
		7.94	250.03	
63+49		5.53	252.54	metal
		+2.50	252.49	
		8.18	249.99	
63+50		5.04	253.07	
		+2.15	252.37	
		8.15	249.92	
		4.77	253.29	BM 72
		5.11	252.96	
66+88		12.35	252.25	
		8.17	249.90	

Aug. 26-31

Flume #16

.26 / 252.54

.20 / 252.49

low place in broken cover section

.29 / 252.40

Flume #17

.16 / 252.38

253.29

4.72

252.07

Note: raise H.L. .08

Hole in cover

San Diego's Conduit Profile

Aug. 14-31

31

~~257.90~~

~~258.04~~

~~257.90~~

258.21

4.83

4.69

253.30

5.01

253.62

BM#13

= 253.20

69+04

5.52

252.69

hole in cover

bad leak

+2.40

252.19

8.44

249.77

T.P.

4.40

257.48

~~257.40~~

5.13

253.00

BM#14

253.08

70+15

4.85

252.63

end of covered section

+2.40

252.06

7.82

249.66

71+00

4.82

252.66

.73 / 251.93

+2.45

252.11

7.82

249.66

252.88

71+31 #10

.66 / 251.92

71+50±

4.84

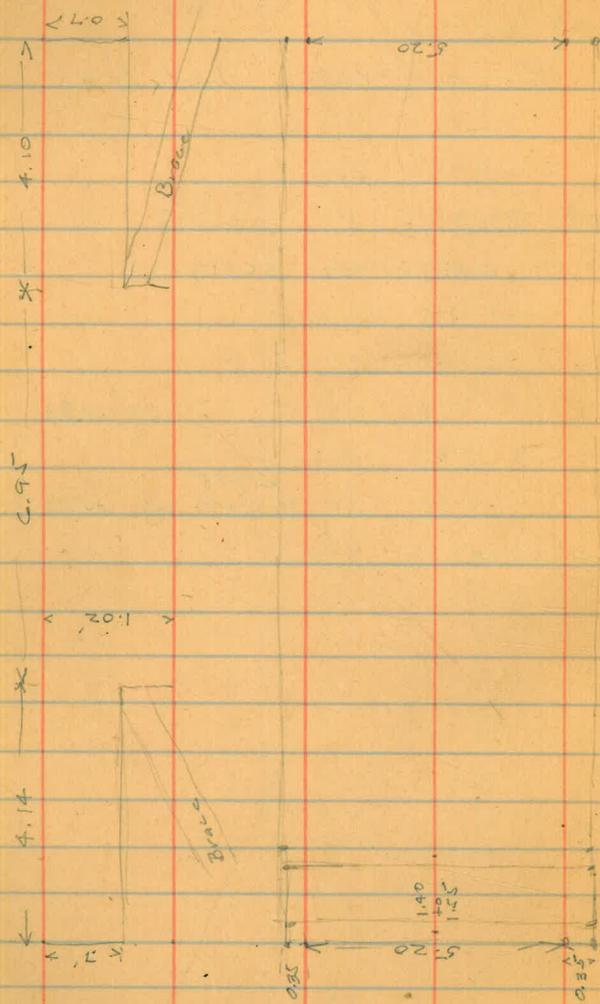
252.64

Top Headwall

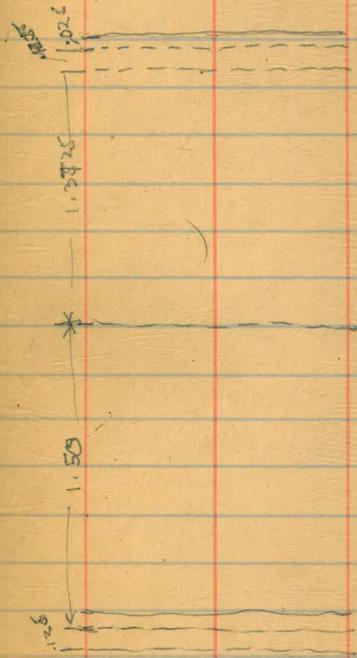
San Dieguito Conduit Profile

Aug. 14-31
P.O.G.

5.015
1.352
32



Struts 28x28x6' every other strut has double bolt



Band arrangement

Profile of a line relocating Del Mar Pipeline
to east side of and parallel 50' out of Highway
relocation

			136.41	
8.605	145.015 #5			
		0.43	144.585	
8.975	153.560			
		0.45	153.11	T.P. *
8.98	162.09			
		3.09	159.00	
5.87	164.87			
T 0+00		7.23	157.64	T. of P.
<hr/>				
	8.57	161.68	153.11	T.P. *
3+86 Δ Lt		8.7	153.0	Pipe
		6.8	154.9	ground
4+00		3.6	158.1	
4+50 = 37+90 P.I.		1.6	160.1	
5+00 Δ Rt		4.4	157.3	
5+35		8.6	153.1	
5+50		6.7	155.0	
6+00		10.0	151.7	
6+02		17.3	144.4	
6+07		21.5	140.2	
6+37		21.5	140.2	
6+42		11.8	149.9	
6+50		9.8	151.7	
6+64		7.1	154.6	

P.O.G
J. Salgado

Sept. 26-31

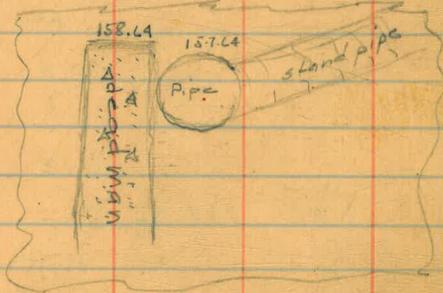
33

Bolt in Pine tree seepage

50' S-W of a point 3+86

Note: difference between this, and as established Aug. 13

is as shown:



Profile continued

P.O.G
T. Salgado

Sept 26-31

34

	161.68			
6+82		8.5	153.2	
7+00		5.8	155.9	
		0.19	161.49	
6.84	168.33			
7+32		8.0	160.3	
7+50		2.5	165.8	
8+00		4.7	163.6	
8+22		6.04	162.29	T.P.
8+22		6.52	161.81	W.S. Pav.
♀		7.87	160.46	♀
8+90		10.3	158.0	E.S. Pav.
9+07		1.5	166.8	
9+14		0.13	168.20	
0.86	169.06			
9+50		2.70	166.4	
10+00		5.7	163.4	
10+50		6.0	163.1	
11+00		6.8	162.3	
11+50		9.1	160.0	
		8.88	160.18	
0.61	160.79			
12+00		2.7	158.1	
12+50		5.0	155.8	
		8.27	152.12	on
13+00		9.1	151.7	
		8.97	151.82	SP 13+00

nail in hood curb West side pavement

U.S.G.S. BM

Profile contin.

P.O.G
7. Salgado

Sept. 26-31

35

151.82

153.50

1.68

1.68

13+50

4.98

148.52

8.93

144.57 T.P.

halfway down vert. bank 13+60 5' L+

0.82

145.39

13+60

4.5

140.9

13+84 = P.I.

6.9

138.5 on top

of existing +

= 13+47

14+00

old stationing

7.75

137.64 = 137.7

-6.3 139.1 old sta. 13+00 = 139.1

8.81

136.58

2.16

138.74

on Top of stake

15+00

2.30

136.4

16+00

4.5

134.2

17+00

5.8

132.9

18+00

8.6

130.1

8.82

129.92

2.15

132.07

19+00

3.9

128.2

20+00

5.5

126.6

21+00

6.9

125.2

6.97

130.32

8.72

123.35

22+00

8.2

122.1

22+53

9.3

121.0 Top Pipe

at Valve

7.58

122.74 on Top of

A.V.

2.11

211.9

211.9

206.8 ± ground

elevation H-W. Surrey 43+00 about 3' above ground

Elev. of Standpipe

1.2

210.7 Top Surge

Pipe

& Ground 0+00

9.6

202.3 50' RT of

Sta 43+00

12.5

199.4 60' L "

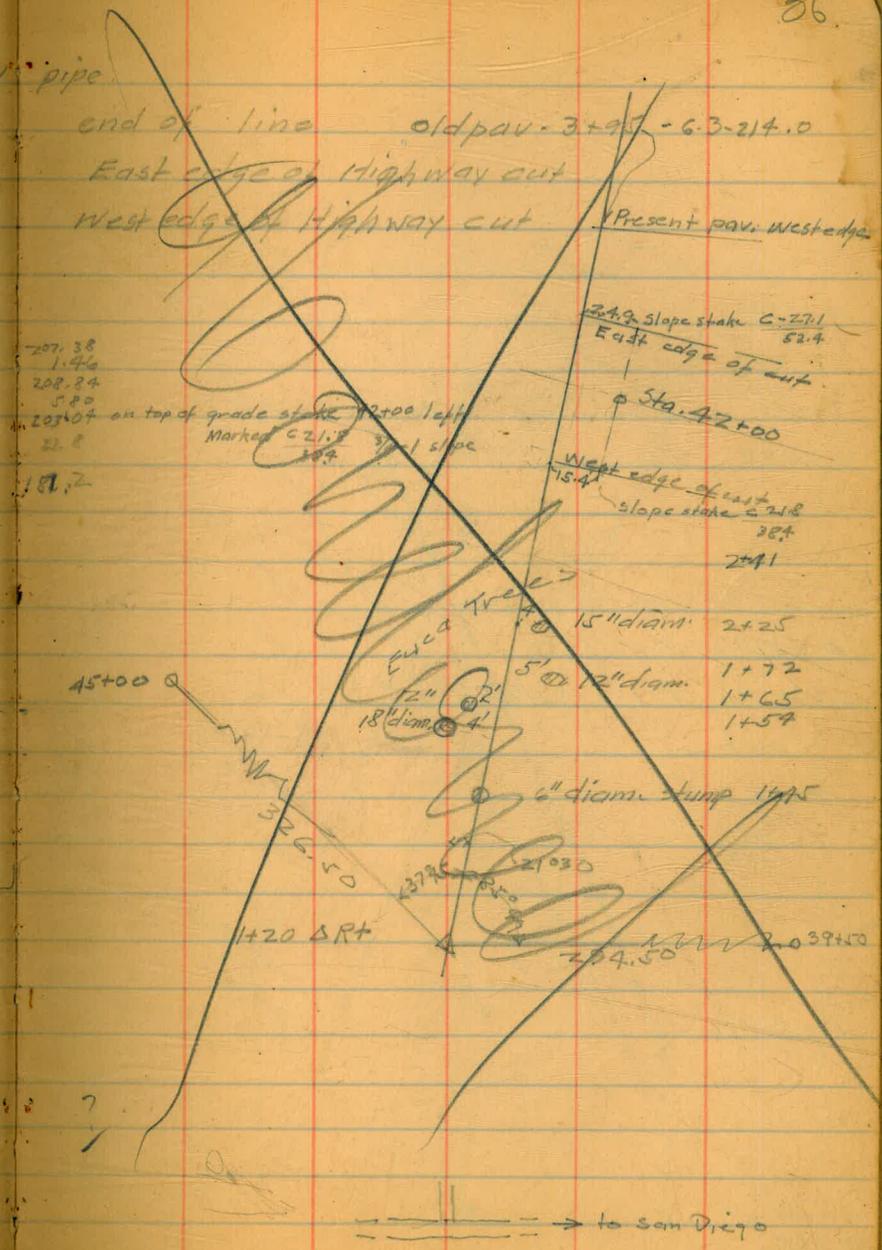
" " "

Stand Pipe relocation Notes

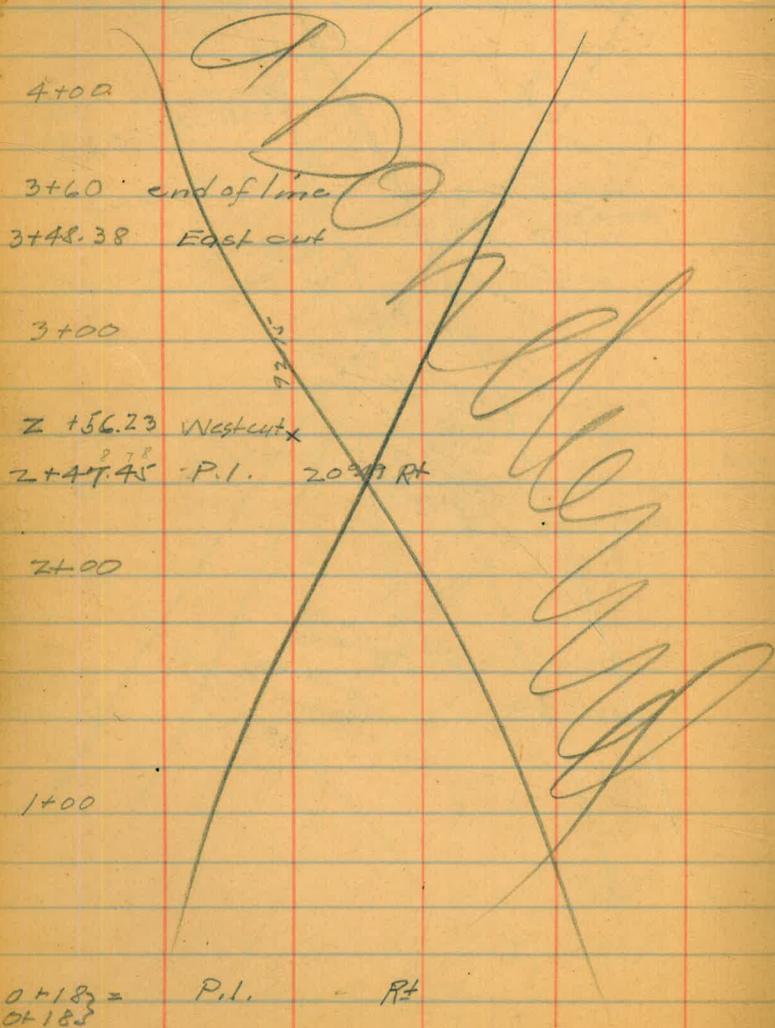
May 9, 1932 P.O.G.

36

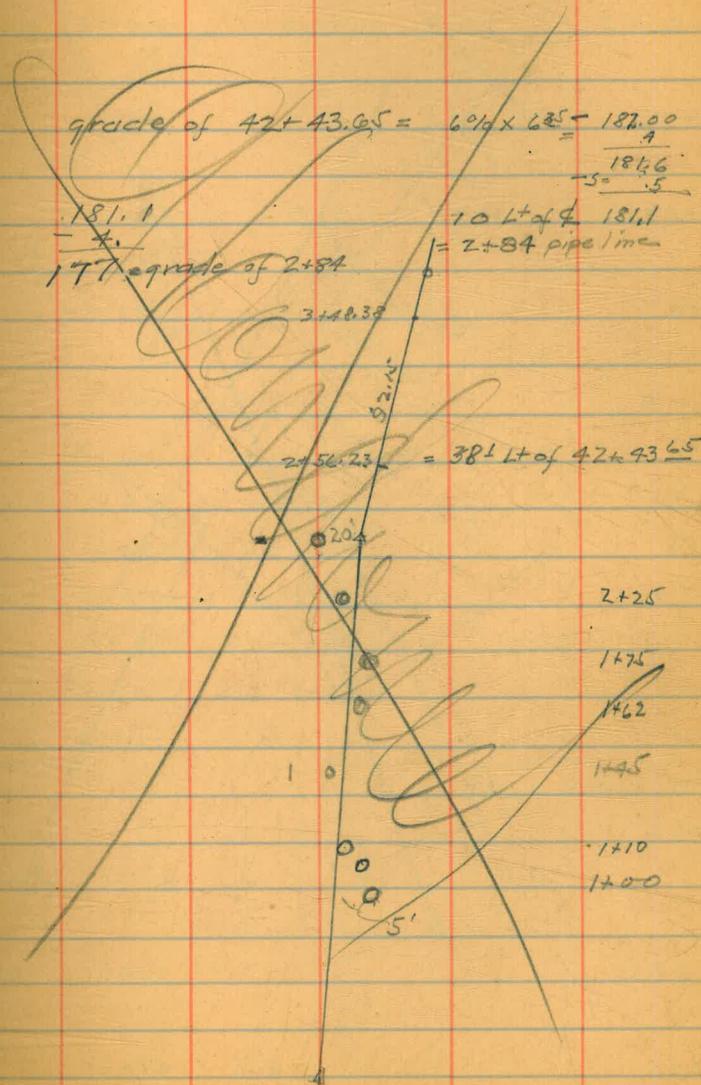
3+80	9.17	203.7	210.7	top stand pipe
3+55		5.3	215.0	
3+45 = 2+93		8.9	213.1	
North of 42+00		2.4	211.9	
227.1-52.4		12.96	207.38 + 207 - 207.45	
2+52 = 154 North of 42+00		3.4	204.0	
2+25		5.6	201.8	
2+00		9.4	198.0	
0.20		11.2	196.32	
1+50		3.50	193.1	
1+20	F.I.	9.2	190.4	ground pipe top
	0.78	12.21	188.27	
2+50 existing Stand pipe			187.0	
				field written on pipe 137
2+00				
1+20				
0+56		1.0	183.5	ground
		3.32	181.2	pipe top
0+18		12.6	173.00	pipe top
	0.29	12.59	171.96	
0+00 at "Y" with Pipe line				



Final location of surge pipe



37



Profile of line

Station	Offset	Height	Grade	Height
2+56.23	0.37	202.57		
2+50	0.4	202.2	gn. 176.4	
2+47.45	1.0	201.6	176.3	
2+00	1.5	201.1	176.3	
1+50	0.6	196.0	175.3	
1+50	12.3	189.3	174.3	
1+00	0.63	190.71	120.9	190.08
0+68	9.8	184.9	173.3	
0+50	10.1	180.6	172.7	
0+50	10.0	179.7	172.3	
0+35	0.78	179.03	12.41	178.30
0+18	6.3	172.8	172.0	
0+18	10.3	168.8	171.7	
2+84 grade = 177				
3+00	5.0	216.4	211.4	42+50
3+48.38	5.5	210.9	178.3	C 326
3+60	5.1	211.3		

Station	Offset	Height	Grade	Height
2+56.23	33.6	C25.8	C24.8	172.17
2+50	33.6	C25.3	C24.8	30.6
2+47.45	31.6	C24.8	C24.8	31.6
2+00	23.4	C20.7	C20.7	23.4
1+50	23.4	C15	C15	12.0
1+00	23.4	C16	C16	5.2
0+68	2	C7.8	C7.8	2
0+50	2	C7.4	C7.4	2
0+35	2	C7.4	C7.4	2
0+18	2	C7.4	C7.4	2
2+84 grade = 177				
3+00		64.38	128.76	177.0
3+48.38		178.3	grade at 3+48	

Eleva trees affected

210

±

RT

LT

Cut 264

42+50

202.2

64.38

128.76

177.0

178.3 grade at 3+48

Cut 285

C 326

Relocation of surge line
to left of Eucalyptus Tree Grove
and present alignment
at Del Mar

May 16-32
P.O.C

39

3+75 end of line

3+62.69 x East edge of Road cut

20.57

3+00

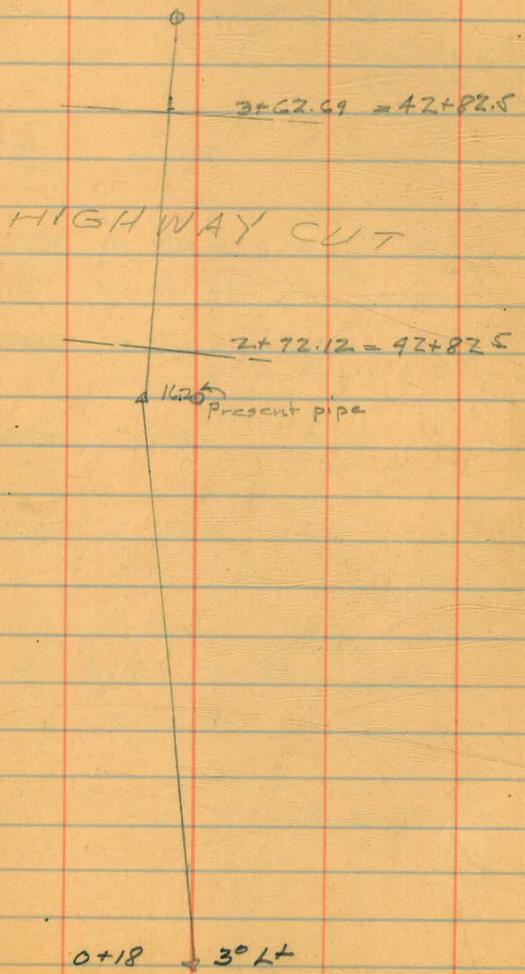
2+72.12 x West edge of Road cut

+50 P.I. 251°51'RT 16.2' north of ex. pipe

2+00

1+00

0+18 P.I. 83°00'LT



0+18 3° LT

Profile & cross-section
of final location

May 10
P.C.C

A0

Station	Dist	Elev	Dist	Elev	Notes	Grade	Grade	Grade	Grade
3+75	5.0	216.4	3.5	212.9	stake at 42+50 East side				
3+62.69				212.2					
2+72.12	2.02	204.22	1.02	203.2	stake at 42+50 West side				
2+50			6.5	197.7	grade = 178.4	C248 9.4	C248	C24.8 = 23.0 7.0 7.5	204.2 2.8 201.4 178.4 -2.0 should be 8.5
2+00			11.0	193.17		C20.1 7.0	C19.8	C21.1 7.5	
1+50	0.45	191.98	12.07	191.53		C15.5 4.7	C16.3	C17.5 4.9	C18.5 4.2
1+00			3.0	189.0		C12.4 3.2	C13.1	C13.4 2.5	C14.9 4.5
0+70			7.5	184.8		C9.1 2.0	C9.6	C9.9 2.0	
0+50			11.2	180.8		C6.5 2.0	C6.5	C6.5 2.0	
0+40	1.43	181.26	12.15	179.83		C6.0 2.0	C6.0	C6.0 2.0	
0+30			5.7	175.6				C1.9	
0+30 on pipe axis			8.5	172.6					

-20' grade

Williams 8-4-32

Satgado

16 bell + Labor helper part time to Excavate pipe.

Profile of Machine Banded Wood Stave ~~202.48~~

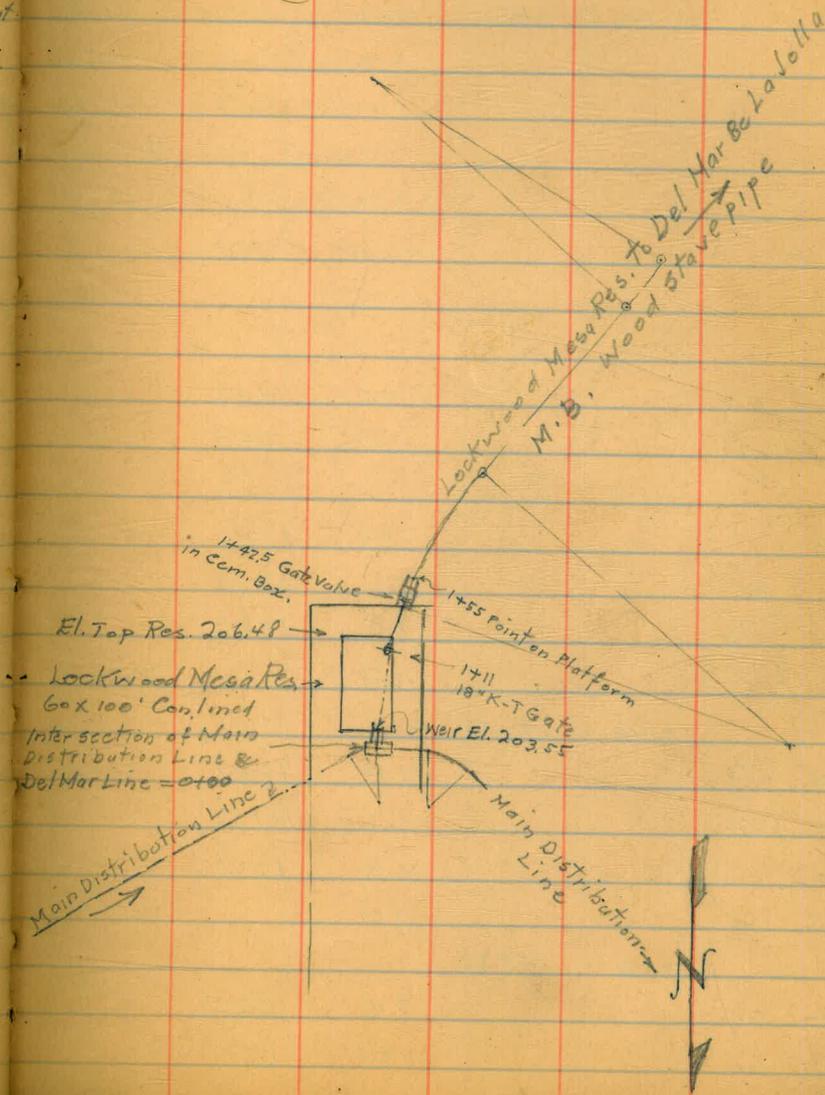
Pipe from Lockwood Mesa Reservoir 206.48

to Surge line. (Staked 9800 feet 7/4/32) 100 foot stations with plus to each valve, petcock and test pit. Elevations taken on ground, top of valve, top of Pipe & top of Sampler cock. Elevations marked on back of stakes.

G. --- AV. --->

41

Top of weir crest Lockwood Mesa
" " Wall of Reservoir



Williams
Salgado
12/20/11

8/5/32

(old elev. prior to 1932)
see New elev. ✓

(See B/P File 2554 EE)

Sta.	+	X	-	El.	B.M.	
					202.49	Top of Weir Crest Lockwood Mesa Reservoir
	1.92	208.40			206.48	Top of Concrete Wall
			4.85		203.55	Top of Weir Crest raised in 1932 Aug. 4. ✓
			3.20		205.20	Reservoir Spillway
			10.10		198.30	Bottom of Reservoir
			6.10		202.30	Mean Water Level
			6.70		202.70	Water El. Aug 5, 1932
2+00			12.60	195.80		Ground
1+200 T.P.			11.75		196.65	
	0.24	196.89				
3+00 Gr.			12.1	184.8		
3+10 T.P.			12.78	184.11		
	0.49	184.60				
3+10			1.55	183.0		top pipe
4- Gr.			7.8	176.8		
4+15 Top Pipe			10.5	174.1		
5+00 Top stak. T.P.			12.56		172.04	
	0.46	172.50				
4+99 Top Pipe			2.85	169.7		
5- Gr.			1.2	171.3		
6- T.P.			10.6	161.9		
			13.01		159.49	
	0.40	159.89				
7- Gr.			7.4	152.5		
8- Gr.			11.5	148.4		

8/5/32

43

sta	+	T	-	e/.
T.P.		159.89	12.56	147.33
9-	0.49	147.82	2.8	145.0
10-			6.6	141.2
11-			10.0	137.8
11+12 Top Pipe			12.9	134.9
T.P.			12.77	135.05
12- Gr.	1.02	136.07	2.2	133.8
13- Gr.			8.6	127.5
T.P.			12.71	123.36
14- Gr.	0.16	123.52	2.5	121.0
14+26 Top Pipe			6.4	117.1
15- Gr.			9.5	114.0
15+21 Top Pipe			14.0	109.5
T.P.			13.05	110.47
16- Gr.	0.10	110.57	9.3	101.3
T.P.			12.78	97.79
17- Gr.	0.33	98.12	12.0	86.1
T.P.			12.81	85.31
18- Gr.	0.38	85.69	10.3	75.4
T.P.	0.62	73.57	12.74	72.95
19+00 Top Pipe			12.6	61.0
T.P.			12.91	60.66
T.P.	0.26	60.92	12.87	48.05
T.P.	0.44	48.49		

8/5/32

44

Sta	+	X	-	El.
		48.49		
19+82 Top Pipe			10.46	38.0
20 - Center of Road Gr.			12.5	36.0
T.P.			12.80	35.69
20+52 Top Pipe	0.13	35.82	12.5	23.3
T.P.			12.56	23.26
21 - Gr.	0.15	23.41	0.9	22.5
22 - Gr			10.3	13.1
22+18 Top of Sampler Cask			12.8	10.6
22+83 Top of Valve Stem			12.18	11.23
	4.10	15.33		
23 - Top pipe			6.9	8.4
24 - Top pipe			6.7	8.6
25 - Top pipe			6.7	8.6
26 - Top Pipe			6.7	8.6
T.P.			4.54	10.79
	2.80	13.59	3.40	
27 - Top pipe			5.0	8.6
28 - Top Pipe			5.15	8.5
T.P.			4.97	8.62
29 - Top pipe	5.51	14.13	5.35	8.78
30 - Top pipe			5.50	8.6
31 - Top Pipe			5.9	8.2
32 - Top Pipe			6.3	7.8
T.P.			6.26	7.87
33 -	6.21	14.08	6.35	7.8

18" Valve without by-pass this valve operates hard under head

10.19 B.M. Nail in Tel. pole Intersection Del Mar + S.E. Ranch Road.

8/5/34

45

Sta	+	T	-	El.
34 - Top Pipe		14.08	6.5	7.6
34+1/2 Top of Sampler Cock			7.2	6.9
35 - Top Pipe			6.4	7.7
36 - Top pipe			6.4	7.7
T.P.	7.25	14.57	6.76	7.32
37 - Top Pipe			6.9	7.7
38 - Top Pipe			7.0	7.6
39 - Top Pipe			7.0	7.6
40 - Top Pipe			7.0	7.6
T.P.	6.38	14.00	6.95	7.62
41 - Top Pipe			6.3	7.7
42 - Top Pipe			6.3	7.7
43 - Top Pipe			6.4	7.6
44 - Top Pipe			6.3	7.7
45 - Top Pipe			6.5	7.5
T.P.	5.83	13.58	6.25	7.75
46 - Top Pipe			6.2	7.4
47 - Top Pipe			6.3	7.3
48 - Top Pipe			6.2	7.4
49 - Top Pipe			6.1	7.5
T.P.	6.28	13.73	6.08	7.50
50 - Top pipe			6.0	7.7
51 - Top Pipe			6.1	7.6
52 - Top pipe			6.3	7.4
T.P.	2.81	10.40	6.14	7.59

Sta.	+	\bar{x}	-	El.
53 - Top pipe		10.40	2.9	7.5
54 - " "			2.9	7.5
55 - " "			3.1	7.3
56 - " "			3.1	7.3
57 - " "			2.5	7.9
58 - " "			0.8	9.6
T.P.	4.85	14.65	0.60	9.80
58+29 " "			4.7	10.0
" " Sampler Cock			3.7	11.0
59 - Top pipe			4.7	10.0
60 - " "			4.8	9.9
60+75 Top of Cast Iron bell East end old Bridge Co. Road			5.43	9.37
61 - Gr.			6.9	7.8
61+16 Δ Gr.			7.4	7.3
62 - Gr.			6.4	8.3
63 - "			3.5	11.2
T.P.	10.67	23.27	2.05	12.60
64 - Gr.			9.0	14.3
65 - "			5.7	17.6
65+50 Top pipe			6.9	16.4
66 - Gr.			4.9	18.4
67 - Gr.			4.1	19.2
67+84 Top Pipe			6.6	16.7
67+84 Top Sampler on side of air Valve			3.24	20.03
68 - Gr.			4.5	18.8
69 - "			5.7	17.6

Sta	+	X	-	El.
T.P.		23.27		
	0.86	19.34	4.79	18.48
70- Ground			4.3	15.0
71- Gr.			7.1	12.2
72- "			8.2	11.1
73- "			8.1	11.2
74- "			7.6	11.7
T.P. 25 Ft of Sta. 74			6.75	
	8.88	21.49		12.59
75- Gr.			5.2	16.3
76- Gr.			4.7	16.8
77- Gr.			4.8	16.7
77+12 Gr.			5.1	16.4
77+12 Top Sampler Cock on side of air valve			3.71	17.76
78- Gr.			4.45	17.0
79- Gr.			3.0	18.5
T.P.			0.25	
	12.86	34.08		21.21
80- Gr			12.1	22.0
81- Gr.			6.5	27.6
82- Gr			1.7	32.4
83- Gr			1.0	33.1
83+21 Top of Sampler Cock on side of air valve			0.10	34.0
83+26 Top of 18" Gate Valve Stem			1.0	33.1
T.P.			1.42	
	3.33	35.99		32.66
83+60 Top of Sampler Cock on side of air valve			0.29	35.70
84- Gr.			5.1	30.9
85- Gr.			6.3	29.7
86- Gr			11.0	25.0

8/8/32

48

Sta.	+	T	-	E.L.
87- Gr.		35.99	11.8	24.2
T.P.	10.64	35.68	10.95	25.04
88- Gr.			7.5	28.2
89- Gr.			5.8	29.9
90- Gr.			4.6	31.1
90+15 Top Sampler, Cock on air Valve stem			5.15	30.53
91- Gr.			6.8	28.9
91+46 Top pipe			9.0	26.7
92- Gr.			7.7	28.0
T.P.	4.33	32.31	7.70	27.98
93- Gr			2.8	29.5
93+31 Top pipe			5.8	26.5
94 Gr.			3.9	28.4
T.P. Top. Stk. Sta. 94	6.75	35.91	3.15	29.16
95 Gr			13.2	22.7
95+53 Top of 4" Blow off Valve stem			18.4	17.5
96. Gr			13.2	22.2
97 Gr.			9.7	26.2
98 Gr			4.8	31.1
T.P.	7.62	43.27	0.26	35.65
99 Gr			8.5	34.8
100 Gr			5.7	37.6
101 Gr			4.8	38.5
102 Gr			4.5	38.8

Low point in Santa Fe drain

Sta		+	X	-	EI.
103	Gr		47.27	2.8	40.5
T.P.		12.95	53.62	2.60	40.67
104	Gr.			12.0	41.6
105	Gr.			6.6	47.0
T.P.		12.96	66.15	0.43	53.19
106	Gr.			11.8	54.3
107	Gr.			4.5	61.6
T.P.		12.93	78.56	0.52	65.63
108	Gr.			9.9	68.7
109	Gr.			4.5	74.1
110	Gr			2.0	76.6
111	Gr.			1.0	77.6
112	T.P. on curb	12.69	91.20	0.05	78.51
113	Gr.			10.2	81.0
114	Gr.			5.7	85.5
115	Gr.			1.0	90.2
T.P.		9.66	100.51	0.35	90.85
115+65	Gr. at air valve			8.8	91.7
115+65	Top of sampler Cock on side of air valve			7.15	93.36
116	Gr			7.5	93.0
117	Gr.			5.8	94.7
118	Gr			4.3	96.2
119	Gr			4.1	96.4
120	Gr.			5.3	95.2
T.P.		5.29	100.32	5.48	95.03

return
on curb, N.W. Cor 15th St.
+ Darlington Road Del Mar.

Pipeline Crosses
Under Curb

Top stk. Sta 115

119+84 leak in Pipe back of Curb
Repaired

W. Williams
Solgado
Isbell

8/8/32

50

Sta.	+	T	-	Elev.	
		100.32			
121 Gr			4.5	95.8	
122 Gr			4.8	95.5	
123 Gr			4.2	96.1	
124 Gr			3.6	96.7	about center of 11 th St
125 Gr			2.1	98.2	Del Mar
126 Gr			1.3	99.0	about 4' from N.S. Alley
T.P.	11.69	111.11	0.90		99.42
127 Gr			8.0	103.1	
128 Gr			4.5	106.6	about center of 10 th St
129 Gr			2.2	108.9	Del Mar
T.P.	11.01	121.65	0.47		110.64
130 Gr			10.7	111.0	
131 Gr			7.4	114.3	
132 Gr			5.7	116.0	
132+46 Gr Air Valve			5.2	116.5	
132+46 Top of Sampler Cock on side of Air Valve			3.45	118.20	
133 Gr			4.7	117.0	
134 Gr			4.1	119.6	
T.P.	6.78	125.07	3.36		118.79
135 Gr			6.9	118.2	Pipe swings E of line 3' same Elevation
136 Gr			6.0	119.1	Pipe swings E of line 4'
137 Gr			5.4	119.7	" " E of " 5'
138 Gr			5.2	119.9	" " E " 5'
139 Gr			4.6	120.5	" " E " 5'
140 Gr			4.8	120.3	" " E " 5'

8/8/32

51

Sta.	+	Σ 125.07	-	El.	
141	Gr.		4.1	121.0	Pipe E. of line as staked 5' same elevation
T.P.	7.13	128.79	3.41	121.66	" " " "
142	Gr.		6.5	122.3	" " " "
143	Gr.		5.0	123.8	" " " "
144	Gr.		3.7	125.1	" " " "
145	Gr.		2.5	126.3	" " " "
146	Gr.		1.0	127.8	" " " "
T.P.	Top of Stk. Sta 146 863	137.32	0.10	128.69	" " " "
147	Gr.		7.8	129.5	" " " "
148	Gr.		5.8	131.5	" " " "
149	Gr.		3.8	133.5	" " " "
T.P.	9.03	145.68	0.67	136.65	
150	Gr.		10.0	135.7	4
151	"		7.8	137.9	3
152	"		6.0	139.9	2
153	"		3.5	142.2	1
154	"		1.5	144.2	Pipe on line 0
T.P.	9.56	154.84	0.40	145.28	"
155	"		8.8	146.0	"
156	"		6.8	148.0	"
157	"		4.6	150.2	"
158	"		2.6	152.2	"
T.P.	10.32	163.78	1.38	153.46	
159	"		9.0	154.8	
160	"		8.0	155.8	

8/2/32

Sta.	+	X	-	El.	
161	Gr	163.78	6.2	157.6	
162	"		5.1	158.7	
162+37	Top Pipe		5.28	158.50	High point in pipe line
163	Gr.		4.9	158.9	
163+33	Top Pipe		6.21	157.57	
163+61	Top Pipe		6.24	157.54	
164-	Gr.		3.9	159.9	
164+26.0	on Pipe "T"		5.5	158.3	Int. main line with surge line
T.P.			4.47	159.31	
	2.43	161.74	12.77	148.97	
	0.76	149.73	11.91	137.82	
	1.00	138.82	2.35	136.47	
Check on B.M.				136.41	B.M. Bolt in Pine Tree see Page 33

61
28
33

52

3/a + π - El.

Location for change in alignment
of San Dieguito Pipe Line across
San Dieguito River flats.

5+29.00 P.O.T.

0+00

For alternate locations north of
Sta. 0+00 see page 62.

54

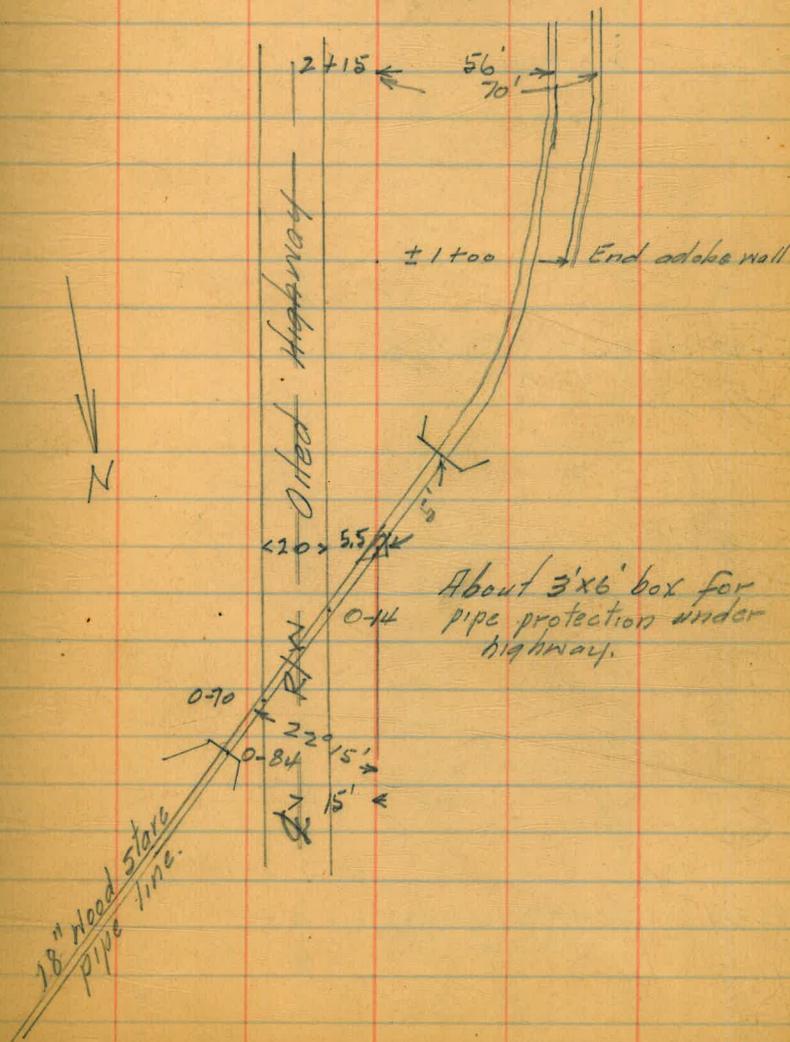
Aug. 76, 1936

Converse
Daniels

Driese, E.R.

3531 Georgia

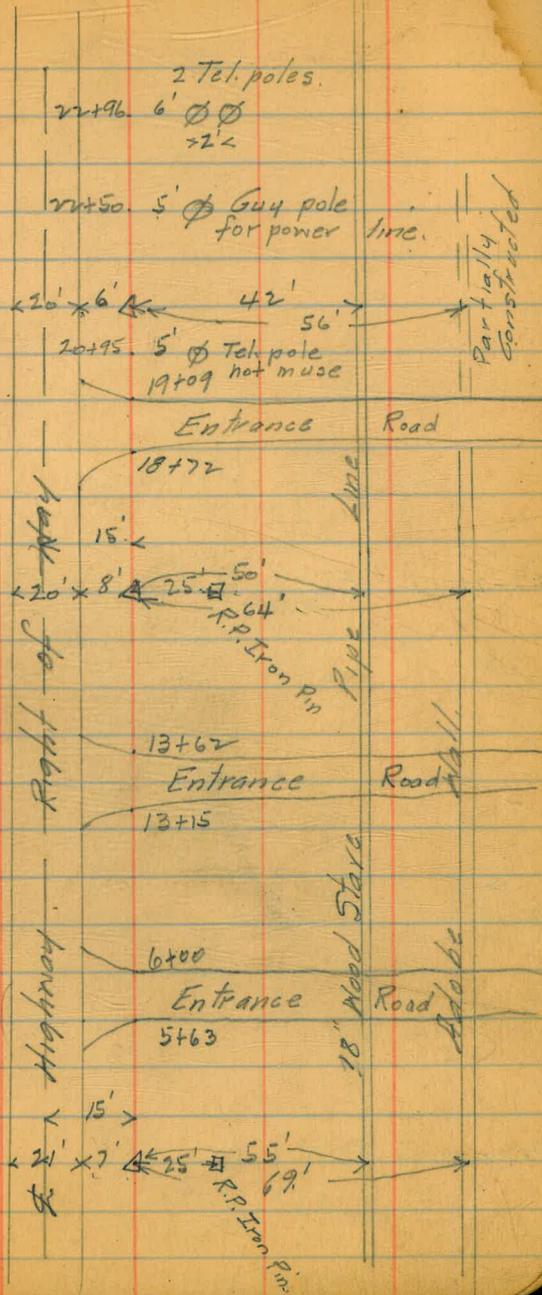
H. 8067-J



22+00.05 P.O.T.

15+28.13 P.O.T.

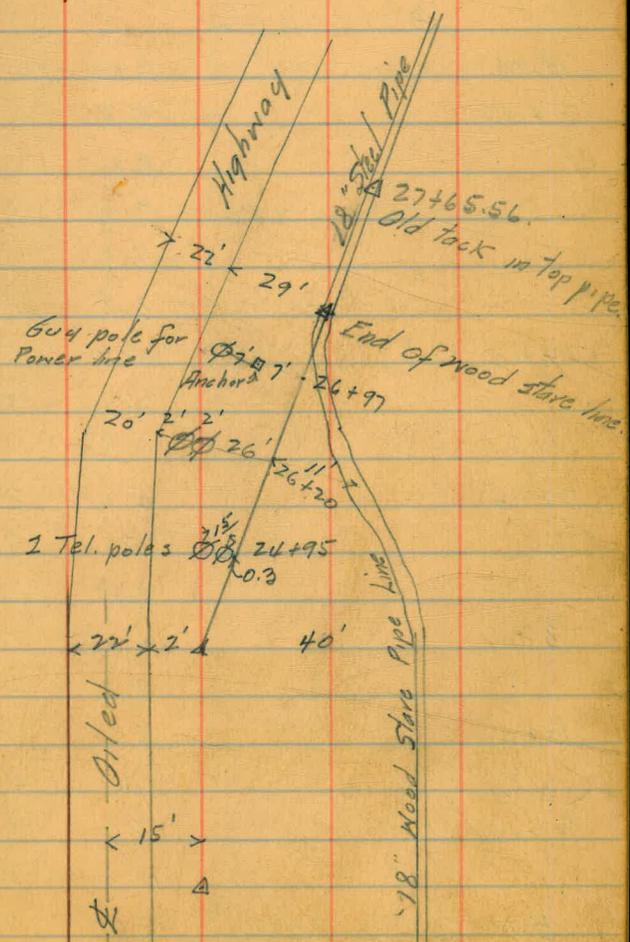
5+29.00 P.O.T.



27+26.41 x End of line.

P.I.
24+51.67 10° 44' R.

47+00.05 P.O.T.



Levels on location for change in
alignment of San Dieguito pipe line
across San Dieguito River flats.

B.M.			9.95
	6.84	16.79	
T.P.			5.96 10.83
	3.61	14.44	
B.M.			4.06 10.38
0+00			3.6 10.8
			8.2 6.2
			7.6 6.8
			5.9 8.5
			3.8 10.6
1+00			4.6 9.8
			4.6 9.8
			7.5 6.9
2+00			5.0 9.4
			5.0 9.4
			6.9 7.5
3+00			6.0 8.4
			9.8 4.6
4+00			5.5 8.9
			10.1 4.3
5+00			5.6 8.8
			10.0 4.4
B.M.			6.77 7.67
	6.83	14.50	

Spike in Tel. pole 70' R. Sta. 38+68. R.S. # 443
County B.M. at jct. of Hodges - Salano Beach
Roads.

Set spike in power pole # 12311 on east side
road near 0+00.

14' R. 0+00

Ground at entrance to box under road

Top wood stave pipe

£ oiled highway opposite 0+00.

£

4' R.

10' R.

£

3' R.

7' R.

£

10' R.

£

8' R.

£

9' R.

Spike in power pole # 12309 East side
road opposite 5+79.

Sta	+	-	El.	
		14.40		
B.M.		10.36	4.04	
5+60		5.5	8.9	
		9.5	4.9	
6+00		5.3	9.1	
		5.2	9.2	
6+15		5.4	9.0	
		10.0	4.4	
7+00		5.9	8.5	
		10.1	4.3	
8+00		6.6	7.8	
		5.2	9.2	
		9.7	4.7	
9+00		4.6	9.8	
		10.8	3.6	
10+00		4.8	9.6	
		10.1	4.3	
11+00		5.2	9.2	
		10.5	3.9	
		4.8	9.6	
B.M.		6.30	8.10	
	5.99	14.09		
12+00		4.4	9.7	
		4.4	9.7	
		10.7	3.9	

Aug. 27, 1936.

Cohverse

Daniels

Driess.

County B.M. # 5. 25'R. 5+29.

Iron pin. 40' left. Sta. 50+00 County Road Survey

8'R. Rev. Elev. 4.21.

E.

E pavement.

E

8'R.

E

7'R.

E

3'L.

6'R.

E

10'R.

E

10'R.

E

9'R.

E pavement.

Nail in power pole # 15729.

E

3'R.

12'R.

Sta	+	x	-	El.
		14.09		
13+00			4.7	9.4
			9.8	4.3
+10			4.7	9.4
			4.7	9.4
+65			4.7	9.4
			9.8	4.3
14+00			4.4	9.7
			10.3	3.8
15+00			5.6	8.5
			9.2	4.9
B.M.			11.15	2.94
16+00			7.5	6.6
			5.5	8.6
			10.4	3.7
17+00			7.1	7.0
			5.6	8.5
			10.7	3.4
			5.3	8.8
T.P.			5.49	8.60
	5.10	13.70		
18+00			7.4	6.3
			5.4	8.3
			10.0	3.7

£
 10'R
 £
 20'R
 £
 10'R
 £
 9'R
 £
 7'R

County B.M. #4. 25'R. 15+28.
 £ 40'L. County Station 40+00. Rec. Elev. 3.03.
 5'L.
 8'R.
 £
 7'L.
 10'R.
 £ pavement.

Sta	+	∓	-	E/L
		13.70		
+60			5.2	8.5
			10.6	3.1
19+00			4.9	8.8
+10			4.9	8.8
			10.6	3.1
20+00			6.2	7.5
			5.1	8.6
			11.0	2.7
21+00			6.1	7.6
			5.3	8.2
			11.2	2.3
22+00			5.6	8.1
			9.5	4.2
B.M.			6.22	7.48
	5.24	14.72		
23+00			4.8	7.9
			4.1	8.6
			10.1	2.6
24+00			4.8	7.9
			5.0	7.7
			9.8	2.9
24+51.47			5.4	7.5
			5.4	7.3
			9.4	3.3

\$
 12' R.
 \$ Same both sides
 \$
 11' R.
 \$
 5' L.
 10' R.
 \$
 5' L.
 13' R.
 \$
 10' R.
 Nail in power pole #2305
 \$
 \$ pavement.
 14' R.
 \$
 3' R.
 14' R.
 \$
 3' R.
 10' R.

17.72

+65		5.6	7.1
25+00		9.0	3.7
+40		11.0	1.7
26+00		10.1	2.6
+20		10.8	1.9
+30		7.2	5.5
27+00		7.8	4.9
+76.41		7.3	5.4
T.P.		5.95	6.77
	4.13	10.90	
+37		4.13	6.77
+65.56		4.05	6.85

26.41
39.15
65.56

Top 18" steel pipe at jct. with wood stave.

Top 18" steel pipe

Top 18" steel pipe.

Alternate lines at north end of proposed pipe line relocation across San Dieguito River flats. See page 54

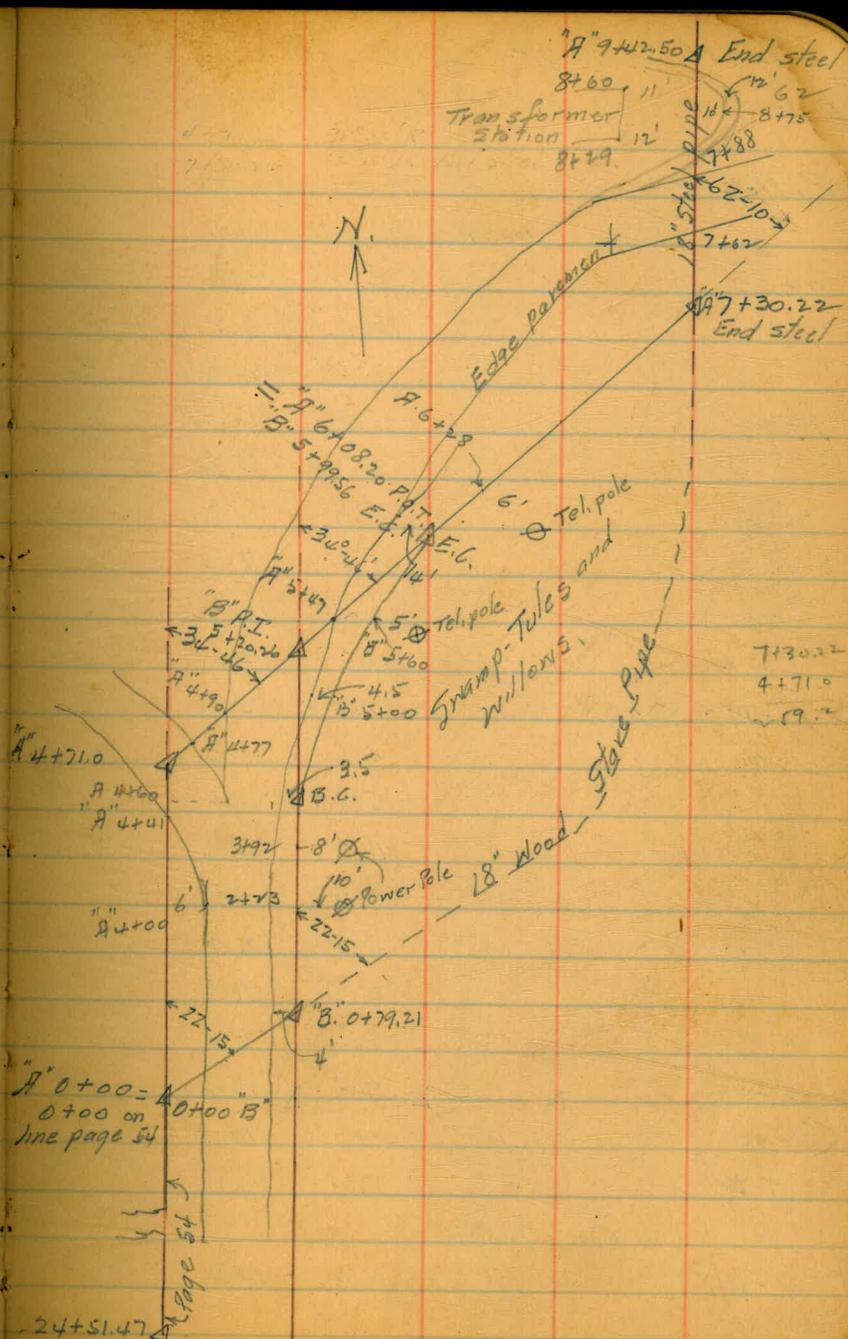
Curve data

	31306
"B" 5+20.26 P.I.	270
	<u>2191420</u>
$\Delta = 34^{\circ}46'$	62612
$\frac{1}{2}\Delta = 17-23$	<u>8452620</u>
$R = 270$	
$T = 86.53$	5934119
	<u>133809</u>
$L = 163.83$	6067928
B.C. = 4+35.73	<u>270</u>
E.C. = 5+99.56	424754960
	<u>17195854</u>
	1638340560

4+50	$-1^{\circ}33'$	1-30	5+20.26
+75	4-16	4-10	84.53
5+00	6-58	6-50	4+35.73
+25	9-41	9-30	<u>163.83</u>
+50	12-23	12-01	5+99.56
+75	15-06	14-41	
+99.56	17-48	17-23	

		14.27
	.1061	6
	17.38333	8562
	<u>16383</u>	
	100033	
	<u>97298</u>	
	27350	
	<u>16383</u>	
	967	

14.27	6.5
<u>7135</u>	
8562	65
<u>92755</u>	25
	325
	<u>130</u>
60) 162.5	
	<u>425</u>



Levels on "A" Line for San Dieguito
pipe line change across River bottom.

B.M.			10.38
	5.74	16.12	
0+00		5.3	10.8
		10.0	6.1
		5.5	10.6
1+00		5.9	10.2
		8.3	7.8
2+00		5.5	10.6
		8.8	7.3
3+00		5.5	10.6
		11.5	4.6
+79		12.0	4.1
4+00		4.8	11.3
		5.0	11.1
		11.5	4.6
		4.2	11.9
+40		4.2	11.9
		4.5	11.6
		7.5	6.6
+71		7.8	13.3
5+00		7.0	14.1
T.P.		7.01	14.11
	10.79	74.40	
+47		10.0	14.4

Aug. 28, 1936.
Converse
Driese.

63

Spike in power pole #12311 on east side road
opposite 0+00

±

12' L.

± pavement

±

10' L.

±

8' L.

±

10' L.

Flow line 24" G.I. Culvert 15' L. 3+79

±

4' L.

15' L.

± pavement

Pavement edge.

6' L.

15' L.

On pavement

On "

Pavement edge.

26.40

6+00

10.2 14.2

♀

8.9 15.5

9' L.

15.7 8.7

15' R.

+50

10.5 13.9

♀

7+00

10.6 13.8

♀

7.5 16.9

10' L.

15.3 9.1

7' R.

+10

10.2 14.2

♀

7+30

7.2 17.2

♀

12.79 11.61

Top 18" steel pipe at jct. with wood stave.

+62

6.3 18.1

Parament edge

+88

6.2 18.2

" "

+95

6.4 18.0

8+00

3.2 21.1

+06

2.1 22.3

Parament edge

+25

1.6 22.8

" "

T.P.

0.89 23.21

12.80 36.31

8+76

8.9 27.4

9+02

2.1 34.2

Parament edge

+06

+0.5 36.8

" "

+24

+1.9 38.2

+44

+4.7 41.0

Top 12" steel pipe at jct. with wood stave.

Levels on "B" Line for San Dieguito
pipe line change across River bottom.

B.M.			10.38
	5.81	16.19	
0+00		5.5	10.7
+14		5.8	10.4
+70		5.7	10.5
+79		5.4	10.8
		9.0	9.2
		8.0	8.2
		9.8	6.4
1+00		6.0	10.2
		9.3	6.9
2+00		5.5	10.7
		5.5	10.7
		8.1	8.1
3+00		4.9	11.3
		5.4	10.8
		9.8	6.4
3+83		4.8	11.4
		9.2	7.0
4+00		4.9	11.3
		4.3	11.9
		5.2	10.0
		7.0	9.2
4+35.73 B.C.		4.1	12.1
		3.8	12.4
		3.8	12.4
		4.2	12.0
		7.5	8.7

Aug. 28. 1936.

Converse

Driese.

65

Spike in power pole # 12311 on east side road
opposite 0+00.

Parapet edge.

" "

±

5'R

Top 18" wood stave pipe.

Ground at pipe.

±

7'R

±

2'R

8'R

±

1'R

11'R

±

Top 24" G.I. 5'R 3+83

±

2.5 L. edge parapet.

5'R

9'R

±

3.5 L. edge parapet.

± parapet.

6'R

13'R

16.19.

4+50

3.8 12.4
3.5 12.7
4.0 12.2

⊘
3'L. edge pavement
4'R

7.0 9.2

10'R

+75

3.3 12.9
3.0 13.2
3.6 12.6

⊘
3'L. edge pavement
3'R

7.8 8.4

12'R

T.P.

2.08 14.11

5.45 19.56

5+00

6.6 13.0

⊘

6.0 13.6

4'L. edge pavement

6.8 13.3

1'R

11.5 08.1

8'R

+75

6.4 13.2

⊘

5.5 14.1

6'L. edge pavement

6.4 13.2

3'R

11.8 07.8

13'R

+50

6.0 13.6

⊘

5.1 14.5

7'L. edge pavement

6.3 13.3

6'R

10.5 09.1

15'R

+75

4.8 14.8

⊘

4.3 15.3

9'L. edge pavement

6.8 12.8

7'R

17.1 07.5

17'R

19.56

5+99.56 F.C.	=	Equation.	5.4	14.2
6+08.20 P.O.T.			3.7	15.9
			7.4	11.2
			11.0	08.6

£

14' L. edge pavement

10' R. " "

15' R.

HODGES CONDUIT

Profile over destroyed wood stave conduit line - Hodges Dam

Hill - Soper
Isbell - Remmen

3/8/37

68

B.M.			315.0	x on spillway lip of Hodges Dam.
	2.57	317.57		
T.P.			12.95	304.62
	3.05	307.67		
T.P.			12.57	295.16
	0.09	295.19		
T.P.			12.79	282.40
	0.23	282.63		
T.P.			12.92	269.71
	1.79	271.50		
T.P.			12.32	259.18
	3.31	262.49		
			2.85	259.44
O+03			8.51	253.98
				Flow line of 36" wood stave line.
O+10.11			10.13	252.36
				2.02 Lt
O+10.11			10.18	252.31
				2.02 Rt.
O+10.11			10.17	252.32
				3.7 Rt. (Rthand corner of pier, top.)
T.P.			12.32	249.27
	0.57	250.24		
O+10.11			2.1	248.1
				4.8 Rt. S.R.
O+10.11			3.1	247.1
				13.0 Rt. S.R.

(cont.)

69

250.24

0+11.2	0.0	250.2	
0+15.4	1.4	48.8	
0+16.0	6.9	43.3	
0+18.5	6.5	43.7	S.R. Beginning of loose rock.
0+31	14.2	36.0	Water elevation, loose rock
0+84	14.2	36.0	Water elevation
0+90.1	11.5	38.7	Concrete mat on loose rock
0+90.11	10.09	40.15	Rt. Pedestal
0+90.11	10.07	40.17	Lt. Pedestal
1+10	7.3	12.9	Loose rock
1+18	5.3	44.9	Beginning of S.R.
1+30.11	7.29	242.97	Lt. Pedestal
1+36.11	9.74	40.50	Rt. Pedestal

(cont.)

250.24

7+50.11	8.54	241.70 ✓	Lt Pedestal
1+50.11	12.05	38.19 ✓	Rt. Pedestal
1+70.11	11.38	38.86 ✓	Lt Pedestal
1+90.11	8.72	41.52 ✓	Lt "
1+90.11	11.71	38.53 ✓	Rt "
2+10.11	5.06	45.18 ✓	Lt "
2+10.11	5.06	45.18 ✓	Rt. "
TR	11.34	238.90 ✓	
5.11	244.01		
1+70.11	8.12	35.89 ✓	Rt. Pedestal

Alternate location to miss deep pool.

1+30.11
=
1+45.31 31°08'30" Rt.

24°04'14"

1+08.94

47°14'14"

0+51.34

39°56'30" Rt.

0+10.11

76
31°08'30"

39°56'30"

Split of pier 2+10.11

Profile over alternate location.

	244.01		
0+21.0		4.8	239.2
0+31		3.6	240.4
0+51.34		6.4	237.6
0+68		8.3	235.7
0+83		8.9	235.1
1+08.94		3.6	240.4
1+13		1.1	242.9
1+27		0.8	243.2
1+45.31		3.0	241.0

(Same H.I. as page 70)

3/12/37

Hill.
Rose

73

Elev. at bent points for establishing footings. - Hodges conduit

	4.33	44.50	40.17	Elev. line	Tap at post	Post Ht.	L. Ped.
1+24			2.43.1	252.02	249.85	6.8	2'11"
1+01		1.4	39.6	252.34	250.17	10.6	
0+84		4.9	35.5	252.68	260.48	15.0	
0+64		9.0	36.6	252.97	250.80	14.2	
0+50		7.9	38.6	253.19	251.02	12.4	
0+33		5.4	39.1	253.46	251.29	12.2	

3/15/37

B.M.	3.41	262.59	259.18
T.P.		12.78	249.81
	0.84	250.65	

Soper &
Isbell
Kemmer
Hill. notes

0+33	9.58	241.07	Lt.	251.29	10.22 + 0.14	10.36	10' 4 ³ / ₈ "
	11.48	239.17	Rt.	251.29	12.12 + 0.16	12.28	12' 3 ³ / ₈ "
0+50	9.98	240.57	Lt.	251.02	10.35 + 0.14	10.49	10' 5 ⁷ / ₈ "
	12.72	237.92	Rt.	251.02	13.10 + 0.17	13.27	13' 3 ¹ / ₂ "

B.M.	6.57	246.74	240.17				
1+04 B ⁴ C	5.50	241.24	Lt.	250.17	8.93 + 0.11	9.04	9' 0 ¹ / ₂ "
	9.75	236.99	Rt.		13.18 + 0.17	13.35	13' 4 ¹ / ₄ "
1+24 B ⁷	2.22	244.52	Lt.	249.85	5.33 + 0.07	5.40	5' 4 ³ / ₄ "
	2.51	242.23	Rt.		7.62 + 0.07	7.71	7' 8 ¹ / ₂ "

2.22 242.39

240.17

Boots

5.98 236.91 Lt.

250.48 14.07 +0.18 14.25 14'3"

" 4

5.60 236.79 Lt.

250.80 14.01 +0.18 14.19 14'2 $\frac{1}{4}$ "

5.85 236.54 Rt.

250.80 14.26 +0.18 14.44 14'5 $\frac{1}{4}$ "

SAN DIEGUITO P.I.
Opposite Fair Grounds-

75

BM 8.30 18.68 10.38
~~0+01~~ Collar for splice Pole Marked St. 7.50
 8.78 9.90 7.0
 -4+77 2.35 16.33 13.4
 A-Line
 0+00 5.4 13.3 9.4 10.8

11.20 21.10 9.90 7.0
 Back 3.4 17.7 14.8
 -7+30 1.1 20.0 17.1

24+50 π
 BM 8.6
 5.0 13.6
 24+50 4.9 8.7
 25 4.9 8.7

Nail in Pole # 12311 6/8/38
 (Pg. 57)
 Top of Culvert
 Beerman
 Coote
 Remmen
 $\Delta = 32^{\circ} 03' \pm$
 to point 13' over

Edge Pave { -7+37 = End }
 { -7+20 \pm Valve }

Blowoff - 2+50
 6" Tap Sta. 5+38
 6" Tap 20+44
 Gate Valve 20+50

$\Delta = 10^{\circ} 33' \text{ Rt.}$ (8.5' E of Pole # 402741)
 #
 @ Tr Pave. Pg. 60 (Sta 23+00)

26	13.6	4.9	8.7
27		6.2	7.4
+26 End of line.		6.8	6.9

Ground

394	13.76	9.82
	4.83	8.93
	4.36	9.20
	5.20	8.76

BM. pole sta. 22+50
 E pole sta 23+00
 E " " sta. 24+50
 sta 24+50

78

A-9.16-31

Gage 0.14'

Patten-Blinn Lumber Co.

100-1"x1"x16" stakes.

Req. No. 2087. Part FA-403

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1% to 1%
If ground is nearly level, the cut or fill at side
stake is located by the double entry method in
left column and top row. The number in both
of table in same row and column gives distance

IMPROVED TABLES

AND

INFORMATION

TABLE No. 2.

To find Tangent and External for curve of
any other degree, divide by degree of curve and
add correction found in column of correction.
Degree of curve with a given T may be found
by dividing tangent (or external), opposite T by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

7.0
8.8

15.8
54

104

7.9 7.9 7.9 7.9
9.4 13.6 3.9 1.9
17.3 21.5 11.8 9.8

21.8
7.5

10.90
1526

16.950 38.4
21.8
38.4

1.5
3.8

1.75
2.08

229.45
18

247.45

3.80
1.75

2.05

27.1
13.55

6.775 189.7
47.425 27.1

47.425

27.1
13.55

6.775
52.855

20.325

42.50 27.8
6.35 10.9

43.65 4.45
35.25

15.35
23.05

92.15
2.56 23

3+48.38
11.62

48.05
1.670

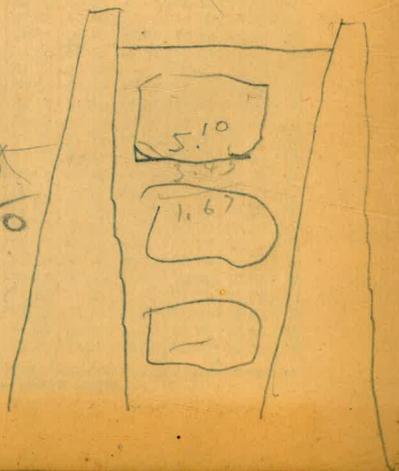
3.135

3.05

7.50
8.20

15.8
99.0

5.90



3.43

15.8
2

31.6
2

33.6

90.57
72.12

25
22.69

1872.31 6.35
38

181.6 38 10
10' high

10.7
2

21.4 17.60
117.50
62-10,
4 wide

5
15.4
2

308
2

38.1
36.8

273 = 181 18

2457.23
17.77

2474.00

18

202.2
2.84

256.2
27.8

.556

202.2
176.4

25.8 177.4

14.8
2

29.6
2

37.6

17.5

16 177
176.3 68

25.3 9 68
84
0.2 177

1.68 175.3

84
50

34 2
36.55
2

73.70
3.2
2

.64

171.3
.4

171.7

6.4

28.0

5

201.2
176.4

24.8

15.8

14.8
2

29.6
3

31.6

25.8

15.2
2

30.4
1

31.4

14.8
2

29.6
1

30.6

184.5
182

2.5

25
17.5

25
25

.875

100-4
10-15

184.5
9

183.6