APPENDIX H

DRILLER'S DEVELOPMENT PUMPING PRODUCTION LOGS

Layne Christensen Company
Fontana

Date: 6-4-01 Page 1

Customer: City of San Bernardino #108

Job No. 27- 5567

Meter 12 x 748

Static level 179.00 Feet
Airline depth 297.50 Feet

Hours/Day 5
Total hours 5

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	Develop
12:23	Start							
:38	15.1	100	185.46'	6.46'	900	15.5	77561 - Meter	T.S.
:53	39.8	300	189.85	10.85'	950	27.6	Sl. Cloudy - Q↑	46
1:08	34.1	300	188.93'	9.93'	950	30.2	Brown	149
:23	36.0	200	186.96'	7.96'	950	25.1	Extr. Brown - Q↓	
:38	13.3	150	184.77'	5.77'	950	26.0	Brown - Q↓	117
	drain	Baker	Tanks				Extr. Cldy - S x 1	282
:56	Resume	pumping						
2:11	9.5	100	184.54'	5.54'	925	18.1	Cloudy	257
:26	4.9	100	184.54'	5.54'	925	18.1	Cloudy	234
:41	7.6	100	184.65'	5.65'	925	17.7	Extr. Cloudy	235
:56	15.1	100	184.54'	5.54'	925	18.1	Brown	257
3:11	11.2	100	184.77'	5.77'	925	17.3	Extr. Cldy	251
:26	11.7	100	184.54'	5.54'	925	18.1	" "	226
:41	6.4	100	184.54'	5.54'	925	18.1	Cloudy	200
:56	4.2	100	184.77'	5.77'	925	17.3	Cloudy - Q↑	157
4:11	3.8	200	186.62'	7.62'	950	26.2	Cloudy	114
:26	3.8	200	186.62'	7.62'	950	26.2	Cloudy - Q↑	111
:41	1.5	300	189.39'	10.39'	975	28.9	Cldy	100
:56	3.5	300	189.43'	10.43'	975	28.8	Extr. Cldy	90
5:11	9.1	300	189.43'	10.43'	975	28.8	Cloudy	96
:26	7.6	300	189.50'	10.50'	975	28.6	Sl. Cldy	87
							Shutdown	
							77673	
							83,776 gpd	

Layne Christensen Company
Fontana

Date: 6-5-01 Page 2

Customer: City of San Bernardino #08 Job No. 27-5567

Meter 12 X 748

Static level 179.92 Feet
Airline depth 297.50 Feet

Hours/Day 7 1/2
Total hours 12 1/2

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity (develop)	Comments	
8:35	START						77673	T.S.S
:50	3.5	100	186.85'	6.93'	950	14.4	Sl. Cloudy -Q↑	21
9:05	3.8	200	188.00'	8.08	950	24.8	Clearing -Q↑	22
:20	13.3	300	190.08'	10.16'	975	29.5	Brown	335
:35	12.1	300	189.73'	9.81'	975	30.6	Extr. cldy	237
:50	3.4	300	189.62'	9.70'	975	30.9	" "	194
10:05	4.7	300	189.04'	9.12'	975	32.9	Cloudy	149
:20	3.9	300	189.16'	9.24'	975	32.5	" "	112
:35	3.7	300	189.16'	9.24'	975	32.5	Sl. cldy -Q↑	98
:50	1.9	400	191.24'	11.32'	1000	35.3	Clearing	59
11:05	1.5	400	191.47'	11.55'	1000	34.6	Clear -Q↑	46
:20	3.8	500	194.12'	14.20'	1000	35.2	Cloudy	53
:35	11.4	500	193.55'	13.63'	1000	36.7	Brown - Sx1	123
:41	resume						"	
:56	18.3	200	186.96'	7.04'	950	28.4	Extr. cldy	132
12:11	15.1	300	189.39'	9.47'	975	31.7	Brown	331
:26	21.9	300	189.27'	9.35'	975	32.1	Lt. Brown	313
:41	11.4	300	189.27'	9.35'	975	32.1	Extr. cloudy -Q↑	216
:56	6.6	400	190.78'	10.86'	975	36.8	" "	193
1:11	3.8	400	191.24'	11.32'	975	35.3	" "	153
:26	3.1	400	191.24'	11.32'	975	35.3	Cloudy	118
:41	3.8	400	191.24'	11.32'	975	35.3	Cloudy -Sx1	98
:45	resume							
2:00	11.0	450	191.47'	11.55'	975	38.9	Cloudy	88
:15	34.1	450	191.58'	11.66'	1000	38.6	Brown	338
:30	15.1	450	191.70'	11.78'	1000	38.2	Extr. cldy	282
:45	8.3	450	191.70'	11.78	1000	38.2	Cloudy	227
3:00	4.9	450	191.58'	11.66'	1000	38.6	Cldy -Sx1	161
:04	resume							
:19	26.5	400	191.00'	11.08'	1000	36.1	Cloudy	115
:34	56.7	400	191.00	11.08'	1000	36.1	Brown -Q*	295
:49	5.6	250	188.12'	8.20'	1000	30.5	Lt Brown	240

Layne Christensen Company
Fontana

Date: 6-5-01 Page 3

Customer: City of San Bernardino #108 Job No. 27- 55567

Meter 12 X 748 Static level 179.92 Feet Airline depth 297.50 Feet Hours/Day 2 Total hours 14½

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S.
4:04	11.4	300	188.93'	9.01'	1000	33.3	Extr. cldy	195
:19	7.6	300	189.04'	9.12'	1000	32.9	Cloudy	139
:34	7.0	300	189.16'	9.24'	1000	32.5	Cloudy - SX2	112
:37	resume							
:52	7.6	400	190.08'	10.16'	1000	39.4	Extr. cloudy	97
5:07	22.7	400	189.16'	9.24'	1000	43.3	Brown	299
:22	15.1	400	189.50'	9.58'	1000	41.8	Extr. cldy	248
:37	7.6	400	189.39'	9.47'	1000	42.2	" "	178
:52	7.6	400	189.50	9.58'	1000	41.8	Cloudy	125
							Shutdown	
							77990	
							237,116 gpd	

Layne Christensen Company
Fontana

Date: 6-6-01 Page 4

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748

Static level 182.00 Feet
Airline depth 297.50 Feet

Hours/Day 7
Total hours 21 1/2

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments (develop)	T.S.S
7:00	START						77990	
:15	3.4	300	188.12'	6.12'	950	49.0	Cloudy	71
:30	20.8	300	188.23'	6.23'	950	48.2	EXTR. Cldy	29
:45	13.3	300	188.12'	6.12'	950	49.0	Lt. Brown	129
8:00	9.5	300	188.23'	6.23'	950	48.2	EXTR. Cldy	127
:15	7.2	300	187.77'	5.77'	950	52.0	Cloudy - Q↑	85
:30	3.4	400	191.00'	9.00'	1000	44.4	Sl. Cldy - Sx1	64
:31	resume							
:46	7.6	350	189.85'	7.85	1000	44.6	EXTR. Cldy	61
9:01	15.1	400	190.54'	8.54'	1000	46.8	Brown	172
:16	9.5	400	190.54	8.54'	1000	46.8	EXTR. Cldy -Sx3	151
:25	resume							
:40	8.0	400	190.31'	8.31'	1000	48.1	EXTR. Cldy	130
:55	49.2	400	190.66'	8.66'	1000	46.2	Brown -Q↓	441
10:10	17.0	300	188.69'	6.69'	1000	44.8	Lt. Brown	362
:25	11.4	300	188.69'	6.69'	1000	44.8	EXTR. Cldy	283
:40	6.8	300	188.93'	6.93'	1000	43.3	Cloudy	202
:55	3.8	300	188.93'	6.93'	1000	43.3	Cloudy	143
11:10	1.9	300	188.69'	6.69'	1000	44.8	Clearing	104
:25	1.1	300	188.46'	6.46'	1000	46.4	Clr - Sx2	72
:30	resume							
:45	11.4	300	188.93'	6.93'	1000	43.3	EXTR. Cldy	65
12:00	26.5	300	188.69'	6.69'	1000	44.8	Brown	204
:15	14.1	300	188.46'	6.46'	1000	46.4	Lt. Brown	198
:30	11.4	300	188.23'	6.23'	1000	48.1	EXTR. Cldy	151
:45	3.8	300	188.46'	6.46	1000	46.4	Cloudy	115
1:00	1.5	300	188.69'	6.69	1000	44.8	Clearing -Sx2	88
:02	resume							
:17	7.6	300	188.23'	6.23'	1000	48.1	Cloudy	61
:32	12.5	300	188.23'	6.23'	1000	48.1	Lt Brown	151
:47	8.0	300	188.12'	6.12'	1000	49.0	EXTR. Cloudy	144
2:02	4.2	300	187.77'	5.77'	1000	52.0	Cloudy	119

Layne Christensen Company
Fontana

Date: 6-6-01 Page 5

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 x 748

Static level 182.00 Feet
Airline depth 297.50 Feet

Hours/Day 3 1/2
Total hours 24

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S.
2:17	1.9	300	187.77'	5.77'	1000	52.0	Cloudy - Sx3	84
:21	resume							
:36	4.2	300	187.31'	5.31'	1000	56.5	Cloudy	70
:51	11.4	300	187.31'	5.31	1000	56.5	Lt. Brown	149
3:06	8.0	300	187.77'	5.77'	1000	52.0	Extr. Cldy	158
:21	4.5	300	187.31'	5.31	1000	56.5	Clearing	123
:36	3.0	300	187.31'	5.31'	1000	56.5	Clr	87
:51	0.9	300	187.54'	5.54'	1000	54.2	Clr - Sx3	62
:54	resume							
4:09	3.9	300	187.54'	5.54'	1000	54.2	Cloudy	62
:24	8.8	300	187.54'	5.54'	1000	54.2	Extr. Cldy	110
:39	6.8	300	187.54'	5.54'	1000	54.2	Cldy - Sx3	114
:44	resume							
:59	3.8	300	187.54	5.45'	1000	54.2	Cloudy	108
5:14	8.0	300	187.19'	5.19'	1000	57.8	Extr. Cldy	160
:29	7.2	300	187.31'	5.31'	1000	56.5		165
							Shutdown	
							78330	
							254,320 gpd	

Layne Christensen Company
Fontana

Date: 6-7-01 Page 6

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748

Static level 181.30 Feet
Airline depth 297.50 Feet

Hours/Day 7
Total hours 31

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	develop 7.5.5
7:30	START						78330	
:45	6.8	300	188.93'	7.63'	1000	39.3	CLEARING	30
8:00	1.1	300	188.46'	7.16'	1000	41.9	Cloudy - SX3	39
:04	resume							
:19	4.9	300	188.35'	7.05'	1000	42.6	EXTR. cldy	107
:34	7.2	300	188.23'	6.93'	1000	43.3	" "	169
:49	7.6	300	187.54'	6.24'	1000	48.1	" "	188
9:04	4.2	300	187.77'	6.47'	1000	46.4	Cloudy	161
:19	3.0	300	187.31'	6.01'	1000	49.9	CLEARING	114
:34	1.1	300	187.31'	6.01'	1000	49.9	C/R - SX3	83
:38	resume							
:53	3.8	300	187.77'	6.47	1000	46.4	Cloudy	78
10:08	7.6	300	187.42'	6.12'	1000	49.0	EXTR. cloudy	130
:23	7.6	300	187.19'	5.89'	1000	50.9	Cloudy	155
:38	4.5	300	187.19	5.89'	1000	50.9	Cloudy	133
:53	3.4	300	187.19'	5.89'	1000	50.9	CLEARING - SX3	103
:58	resume							
11:13	3.8	350	187.77'	6.47'	1000	54.1	Cloudy	32
:28	11.4	300	187.54'	6.24'	1000	48.1	EXTR. Cloudy	164
:43	11.4	300	187.08'	5.78'	1000	51.9	cldy	168
:58	3.5	300	187.19'	5.89'	1000	50.9	sl. cldy	129
12:13	1.9	300	187.19'	5.89'	1000	50.9	" "	98
:28	2.3	300	187.54'	6.24'	1000	48.1	C/R - SX1	67
:31	resume							
:46	NO READ	300	187.54'	6.24'	1000	48.1	Cloudy	57
1:01	7.6	300	187.31'	6.01	1000	50.0	EXTR. cldy	89
:16	4.9	300	187.54'	6.24'	1000	48.1	Cldy	93
:31	3.6	300	187.42'	6.12'	1000	49.0	CLEARING - SX1	71
:32	resume							
:47	3.4	300	187.31'	6.01'	1000	49.9	sl. cldy	60
2:02	7.6	300	187.08'	5.78'	1000	51.9	Cloudy	75
:17	4.5	300	187.08	5.78'	1000	51.9	sl. cldy - SX1	69

Layne Christensen Company
Fontana

Date: 6-7-01 Page 7

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748

Static level 181.30 Feet
Airline depth 297.50 Feet

Hours/Day 1½
Total hours 32½

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	develop T.SS
2:22	resume pumping							
:37	4.2	300	186.96'	5.66'	1000	53.0	Cloudy	61
:52	15.1	300	186.96'	5.66'	1000	53.0	Cloudy -5x1	72
:53	resume							
3:08	4.5	300	187.08'	5.78'	1000	51.9	Cloudy	84
:23	4.5	300	187.54'	6.24'	1000	48.1	Cloudy	87
:38	4.2	300	187.08'	5.78'	1000	51.9	Cloudy	87
:53	3.1	300	187.19'	5.89'	1000	50.9	Cloudy	72
4:08	6.3	300	186.85'	5.55'	1000	54.1	CLEAR	52
							Shutdown	
							78602	
							203,456 gpd	

Layne Christensen Company
Fontana

Date: 6-8-01 Page 8

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748

Static level 182.46' Feet
Airline depth 297.50 Feet

Hours/Day 6
Total hours 38 1/2

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments (develop)	T.S.S
9:04	START						78602	
:24	2.1	200	185.23'	2.77'	950	72.2	Sl. Cldy	55
:39	1.9	200	186.38'	3.92'	950	51.0	Cloudy	79
:54	13.3	200	185.46'	3.00'	950	66.7	" "	77
10:09	7.0	200	185.11'	2.65'	950	75.5	Clearing -Q↑	46
:24	1.5	350	186.85'	4.39'	1000	79.7	CIR	22
:39	1.6	350	186.85'	4.39'	1000	79.7	CIR -Q↑	0
:54	0.9	500	188.23'	5.77'	1000	86.7	CIR -Q↑	0
11:09	1.5	750	191.24	8.78'	1025	85.4	CIR -Q↑	0
:24	2.3	1000	195.28'	12.82'	1050	78.0	Cloudy	114
:39	3.7	1000	195.86'	13.40'	1050	74.6	Cloudy	102
:54	3.5	1000	195.74'	13.28'	1050	75.3	Cloudy	110
12:14	3.8	1000	195.86'	13.40'	1050	74.6	Sl. Cldy -Q↑	61
:34	3.8	1200	198.40'	15.94'	1075	73.3	Cloudy	118
:54	3.1	1200	197.93'	15.47'	1075	77.6	Cldy	105
1:14	4.8	1175	198.28'	15.82'	1075	74.3	Cloudy	115
:34	7.2	1200	198.40'	15.94'	1075	75.3	Cldy	87
:54	2.8	1200	198.17'	15.71'	1075	76.4	Cldy	93
2:14	3.4	1200	198.17'	15.71'	1075	76.4	Sl. Cldy -Q↑	57
:34	7.2	1375	201.63'	19.17'	1100	71.7	Exhr. Cldy	211
:54	5.3	1400	202.09'	19.63'	1100	71.3	" "	203
	Shutdown						79031	
							320,892 gpd	

Layne Christensen Company
Fontana

Date: 6-9-01 Page 9

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748 Static level 183.15 Feet Airline depth 297.50 Feet Hours/Day 6 Total hours 44½

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	develop T.S.S
7:00	START						79031	
:15	3.8	400	188.58'	5.43'	975	73.7	Cloudy	64
:30	11.4	400	188.93'	5.78'	975	69.2	Cldy	159
:45	4.9	400	188.93'	5.78'	975	69.2	CLEAR -Q↑	31
8:00	3.4	550	191.24'	8.09'	1000	68.0	Sl. Cldy -Q↑	49
:15	4.7	850	194.12'	10.97'	1025	77.5	Cloudy	98
:30	1.9	850	194.12'	10.97'	1025	77.5	Sl. cldy -Q↑	47
:45	3.8	1000	196.09'	12.94'	1075	77.3	Sl. Cldy -Q↑	62
9:00	4.0	1150	198.17'	15.02'	1075	76.6	Cloudy	110
:15	3.8	1200	199.90'	16.75'	1100	71.6	Cldy	101
:30	3.8	1200	199.32'	16.17'	1100	74.2	Cldy -Q↑	81
:45	11.3	1500	203.36'	20.21'	1125	74.2	Extr. Cldy	275
10:00	13.3	1500	203.59'	20.44'	1125	73.4		176
:15	8.7	1500	203.94'	20.79'	1125	72.2	Cloudy	159
:30	9.5	1500	203.94'	20.79	1125	72.2	Cldy	105
:45	7.6	1500	203.71	20.56'	1125	73.0	Cldy	146
11:00	7.6	1500	203.71'	20.56'	1125	73.0	Extr. Cldy	172
:15	7.2	1500	203.71'	20.56'	1125	73.0	cloudy	132
:30	4.9	1500	203.71'	20.56	1125	73.0	Cldy -SX1	120
:31	resume							
:46	9.5	550	190.77'	7.62'	1000	72.2	BROWN	627
12:01	9.5	550	190.54'	7.39'	1000	74.4	Cldy	125
:16	3.7	550	190.31'	7.16'	1000	76.8	Clearing -Q↑	57
:31	3.4	900	194.01'	10.86'	1050	82.9	Cloudy	90
:46	1.2	900	194.01'	10.86'	1050	82.9	Clearing	33
1:01	11.4	1500	200.48	17.33'	1150	86.6	Cloudy	142
:16	8.6	1500	200.94'	17.79'	1150	84.3	Cloudy	101
	Shutdown - Neighbor Complaint over discharge water							
	HELP Sandbag discharge							

Layne Christensen Company
Fontana

Date: 6-9-01 Page 10

stomer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748

Static level 183.15 Feet
Airline depth 297.50 Feet

Hours/Day 3 1/2
Total hours 48

Operator: R. Webber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S.
1:55	resume pumping							
2:10	11.7	1050	197.01'	13.86'	1050	75.8	EXTR. Cldy	462
:25	7.2	1000	196.69'	12.94'	1050	77.3	Cloudy	131
:40	3.8	1000	195.86	12.71'	1050	78.7	Clearing -Q↑	42
:55	7.2	1550	202.79'	19.64'	1150	78.9	Cldy	184
3:10	13.3	1500	203.02'	19.87'	1150	75.5	Cldy	128
:25	11.4	1500	203.02'	19.87'	1150	75.5	Cldy -Q↑	88
:40	30.3	2000	209.72'	26.57'	1200	75.3	Lt. Brown	399
:55	98.4	2000	209.95'	26.80'	1200	74.6	Cloudy	250
4:10	37.9	2000	209.83'	26.68'	1200	75.0	Cldy	211
:25	132.5	2000	210.06'	26.91'	1200	74.3	Cldy	205
:40	98.4	2000	210.29'	27.14'	1200	73.7	Cldy	176
:55	22.7	2000	209.95'	26.80'	1200	74.6	Cldy	171
5:10	8.7	2000	209.95	26.80'	1200	74.6	Cldy	149
:25	7.6	2000	209.95	26.80'	1200	74.6	Cldy	140
							Shutdown	
							80054	
							765,204 gpd	

Layne Christensen Company
Fontana

Date: 6-11-01 Page 11

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 x 748

Static level 182.57 Feet
Airline depth 297.50 Feet

Hours/Day 6 1/2
Total hours 555

Operator: R. Walker

develop

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S
7:00	START						80054	
:15	7.6	450	189.04'	6.47'	1000	69.6	Cloudy -SX1	170
:24	resume							
:39	11.4	350	187.54'	4.97'	975	70.4	Extr. cldy	100
:54	8.8	350	187.65'	5.08'	975	68.9	" "	163
8:09	7.5	350	187.77'	5.20'	975	67.3	Cloudy -QT	59
:24	4.2	550	189.16'	6.59'	1000	83.5	Cldy -QT	57
:39	8.7	950	193.78'	11.21'	1050	84.7	Sl. Cldy -QT	69
:54	53.0	1400	198.28'	15.71'	1125	89.1	Extr. Cloudy	160
9:15	37.9	1400	198.40	15.83'	1125	88.4	Cloudy -QT	75
:30	42.4	1700	202.09'	19.52'	1150	87.1	Cloudy	144
:45	34.1	1650	202.79'	20.22'	1150	81.6	Cldy	112
10:00	41.6	1650	202.90'	20.33'	1150	81.2	Cloudy -QT	74
:15	53.0	2000	207.06'	24.49'	1200	81.7	Extr. Cldy	339
:30	75.7	2000	207.41'	24.84'	1200	80.5	" "	200
:45	75.7	2000	207.64'	25.07'	1200	79.8	Cldy	146
11:00	87.1	2000	207.64'	25.07'	1200	79.8	Cldy	119
:15	22.7	2000	207.64'	25.07'	1200	79.8	Cldy	107
:30	13.3	2000	207.75'	25.18'	1200	79.4	Cldy -QT	72
:45	7.6	2250	211.33'	28.76'	1250	78.2	Extr. Cldy -33p.s.i -	313
12:00	26.5	2250	212.03'	29.46'	1250	76.4	" "	219
:15	22.7	2250	212.37'	29.80'	1250	75.5	" "	293
:30	15.1	2200	212.83'	30.26'	1250	72.7	Cldy	176
:45	13.3	2200	212.73'	30.15'	1250	73.0	Cldy	150
1:00	11.0	2200	213.18'	30.61	1250	71.9	" " -QT	134
:15	22.7	2500	216.88'	34.31'	1300	72.9	Extr. Cldy -38p.s.i -	330
:30		2500	216.99'	34.42'	1300	72.6	" "	340
							Shutdown	
							80892	
							626,824 gpd	

Layne Christensen Company
Fontana

Date: 6-12-01 Page 12

stomer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 7.48 Static level 184.31 Feet Airline depth 297.50 Feet Hours/Day 7 1/2 Total hours 62

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments develop	T.S.S
7:05	START						8027 ω	
:20	15.1	500	191.00'	6.69'	1000	74.7	Cloudy	159
:35	15.1	500	189.27'	4.96'	1000	101	Lt. Brown	607
:50	3.8	500	189.16'	4.85'	1000	103	Cloudy -QT	75
8:05	4.2	1000	193.78'	9.47'	1050	106	Sl. cldy -QT	54
:20	18.9	1500	199.67'	15.36'	1150	97.7	cldy	193
:35	30.3	1500	200.48'	16.17'	1150	92.8	Sl. cldy	97
:50	14.1	1500	200.48'	16.17'	1150	92.8	Sl. cldy -QT	64
9:05	15.1	2000	205.67'	21.36'	1200	93.6	Extr. cldy	434
:20	18.9	2000	206.48'	22.17'	1200	90.2	cldy -28 p.s.i	166
:35	19.7	2000	206.48'	22.17'	1200	90.2	Cldy	150
:50	7.6	2000	206.71'	22.40'	1200	89.3	Sl. cldy -QT	79
10:05	30.3	2500	215.03'	30.72'	1350	81.4	Extr. cldy -40 p.s.i	646
:20	35.3	2500	215.49'	31.18'	1350	80.2	" "	319
:35	22.7	2500	216.07'	31.76'	1350	78.7	" "	322
:50	26.5	2500	216.07'	31.76'	1350	78.7	" "	243
11:05	30.3	2500	216.41'	32.10	1350	77.9	Cloudy	232
	GRAVEL	tubes	-N @ 442'		S @ 275'			
:20	24.6	2500	216.88'	32.57'	1350	76.8	Extr. cldy - Air	333
:35	16.3	2500	216.88'	32.57'	1350	76.8	" "	274
:50	14.8	2500	217.22'	32.91'	1350	76.0	" "	266
12:05	7.6	2500	218.26'	33.95'	1350	73.6	" "	243
:20	11.4	2500	218.49'	34.18'	1350	73.1	Cloudy - Air	228
:35	9.5	2500	218.72'	34.41'	1350	72.7	" "	204
:50	12.1	2400	219.19'	34.88'	1350	68.8	" "	205
1:05	7.6	2400	219.53'	35.22'	1350	68.1	" "	174
:20	7.6	2400	219.65'	35.34'	1350	67.9	" "	176
:35	7.2	2400	219.76'	35.45'	1350	67.7	" "	159
:50	8.0	2400	220.11'	35.80'	1350	67.0	" "	148
2:05	7.6	2400	220.11'	35.80'	1350	67.0	" "	143
:20	11.4	2400	220.57'	36.26'	1350	66.2	" "	144
:35	11.7	2400	220.69'	36.38'	1350	66.0	" "	138

Layne Christensen Company
Fontana

Date: 6-12-01 Page 13

Customer: City of San Bernardino #08 Job No. 27- 5567

Meter 12 X 748

Static level 124.31 Feet
Airline depth 297.50 Feet

Hours/Day 3
Total hours 65

Operator: R. Walker

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S.
2:50	8.3	2400	220.80'	36.49'	1350	65.8	Cloudy-Air -39p.s.i	-132
3:05	8.0	2400	221.03'	36.72'	1350	65.4	" "	138
:20	11.7	2400	221.03'	36.72'	1350	65.4	" "	122
:35	8.0	2400	221.27'	36.96'	1350	64.9	" " -Q-1	103
:50	17.0	2750	224.27'	39.96'	1400	68.8	Cloudy-Air -45p.s.i	-246
4:05	15.1	2750	227.04'	42.73'	1400	64.4	" " "	241
:20	7.6	2750	228.08'	43.77'	1400	62.8	EXTR.Cldy-Air	255
:35	9.5	2750	228.66'	44.35'	1400	62.0	Cloudy-Air	242
:50	7.6	2750	228.54'	44.23'	1400	62.2	EXTR.Cloudy-Air	267
5:05	15.1	2750	229.58'	45.27'	1400	60.7	Cldy-Air	220
20		2750	230.04'	45.73	1400	60.1	" "	197

82704

1,355,376

Layne Christensen Company
Fontana

Date: 6-13-01 Page 14

stomer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 x 748 Static level 182.92 Feet Airline depth 297.50 Feet Hours/Day 7 1/2 Total hours 72.5

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments develop	T.S.S
7:00	START						82704	
:15	13.3	250	187.77'	4.85'	950	51.5	Lt. Brown	621
:30	37.9	250	187.54'	4.62'	950	54.1		643
:45	83.3	250	186.96'	4.04'	950	61.9	Brown -Q ↑	779
8:00	75.7	100	185.92'	3.00'	950	33.3	Extr. cldy	296
:15	26.5	100	184.88'	1.96'	950	51.0	Cloudy -Q↑	205
:30	37.9	1000	193.89'	10.97'	1050	91.2	Extr. cldy	332
:45	53.0	1000	193.89'	10.97'	1050	91.2	Cldy	182
9:00	13.3	1000	194.01'	11.09'	1050	90.2	cldy	70
:15	5.7	1000	194.24'	11.32'	1050	88.3	Sl. cldy	39
:30	5.7	1000	194.58'	11.66'	1050	85.8	CLEAR	13
:45	4.5	1000	194.24'	11.32'	1050	88.3	CLR -Sl. AIR -Q↑	26
10:00	5.7	1300	195.86'	12.94'	1100	100.5	Sl. cldy	71
:15	20.8	1300	195.97'	13.05'	1100	99.6	cldy	125
:30	10.6	1300	198.17'	15.25'	1100	85.2	cldy	91
:45	8.7	1300	198.05'	15.13'	1100	85.9	Sl. cldy -Q↑	54
11:00	18.0	1600	200.48'	17.56'	1150	91.1	cldy	235
:15	22.7	1550	200.94'	18.02'	1150	86.0	cldy	248
:30	12.5	1550	200.59'	17.67'	1150	87.7	cldy	105
:45	11.4	1550	200.48'	17.56'	1150	88.3	Sl. cldy -Q↑	79
12:00	14.1	1900	204.86'	21.94'	1200	86.6	Extr. cldy	266
:15	15.5	1900	205.10'	22.18'	1200	85.7	Cloudy	160
:30	7.6	1900	205.21'	22.29'	1200	85.2	cldy	119
:45	7.6	1900	205.33'	22.41'	1200	84.8	cldy	94
1:00	6.7	1900	205.33'	22.41'	1200	84.8	cldy -Q↑	76
:15	22.7	2250	209.72'	26.80'	1250	84.0	Extr. cldy	356
:30	18.9	2250	210.18'	27.26'	1250	82.5	cldy -Sl. AIR -34 p.s.i	213
:45	18.9	2250	209.95'	27.03'	1250	83.2	" "	151
2:00	14.1	2250	210.29'	27.37'	1250	82.2	" "	150
:15	18.9	2250	211.33'	28.41'	1250	79.2	" "	133
:30	17.0	2250	211.79'	28.87'	1250	77.9	" "	157
:45	15.1	2250	211.22'	28.30'	1250	79.5	" "	111

Layne Christensen Company
Fontana

Date: 6-13-01 Page 15

Customer: City of San Bernardino #10 Job No. 27- 5567

Meter 12 X 748 Static level 182.92 Feet
Airline depth 297.50 Feet

Hours/Day 3
Total hours 75½

Operator: R. Webber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S
3:00	18.9	2200	211.45'	28.53'	1250	77.1	Cloudy - Sl. Air	175
:15	11.4	2200	211.10'	28.18'	1250	78.1	Sl. Cldy - Sl. Air - Q↑	83
:30	30.3	2400	212.26'	29.34'	1300	81.8	Extr. Cldy - Air	315
:45	11.0	2400	213.64'	30.72'	1300	78.1	Cloudy - Air	151
4:00	7.6	2400	213.18'	30.26'	1300	79.3	" "	119
:15	11.3	2350	212.95'	30.03'	1300	78.3	" "	104
:30	7.6	2350	213.18'	30.26'	1300	77.7	" " - Q↑	96
:45	13.3	2550	216.18'	33.26'	1350	76.7	Cldy - Air	188
5:00	7.6	2550	216.18'	33.26'	1350	76.7	PSI - 45 "	178
:15	11.7	2550	216.53'	33.61'	1350	75.9	" "	128
:30	7.6	2550	216.65'	33.73'	1350	75.6	" "	110
							Shutdown	
							84144	
							1,077,120 gpd	

Layne Christensen Company
Fontana

Date: 6-14-01 Page 16

stomer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748 Static level 182.92 Feet Airline depth 297.50 Feet Hours/Day 6 Total hours 81

Operator: R. Weber

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S
7:30	START						develop 84138	
:45	56.8	1000	196.09'	13.17'	1050	75.9	muddy	1067
8:00	75.7	1000	195.86'	12.94'	1050	77.3	Cloudy	314
:15	17.1	1000	195.62'	12.70'	1050	78.7	Sl. cldy	87
:30	8.2	1000	195.51'	12.59'	1050	79.4	clR - Q↑	33
:45	20.1	1300	198.17'	15.25'	1100	85.2	cldy	102
9:00	15.1	1300	198.40'	15.48'	1100	84.0	Sl. cldy - Q↑	78
:15	22.7	1600	202.09'	19.17'	1150	83.5	Cloudy	180
:30	14.8	1600	202.44'	19.52'	1150	82.0	Sl. cldy - Q↑	80
:45	18.9	1900	205.10'	22.18'	1200	85.7	cldy	177
:00	11.4	1850	205.10'	22.18'	1200	83.4	cldy	98
:15	11.4	1850	205.10'	22.18'	1200	83.4	Sl. cldy - Q↑ - 25 p.s.i -	72
:30	15.1	2200	209.02'	26.10'	1250	84.3	Cloudy - Air	209
:45	15.9	2200	209.02	26.10'	1250	84.3	Cldy - Air - 30 p.s.i -	139
11:00	15.1	2200	209.83'	26.91'	1250	81.8	" "	130
:15	11.4	2200	209.95'	27.03'	1250	81.4	" "	109
:30	8.7	2200	209.95'	27.03'	1250	81.4	" "	103
:45	10.6	2200	210.29'	27.37'	1250	80.4	" "	85
12:00	7.6	2200	210.29'	27.37	1250	80.4	" "	82
:15	7.6	2200	209.95'	27.03'	1250	81.4	Sl. cldy - Q↑	57
:30	11.4	2400	212.95'	30.03'	1300	79.9	cldy - Air	153
:45	7.6	2400	213.18'	30.26'	1300	79.3	Sl. cldy - Air - 37 p.s.i -	118
1:00	11.7	2600	215.95'	33.03'	1350	78.7	cldy - Air	168
:15	13.3	2600	214.91'	31.99	1350	81.3	" "	143
							85027	
:45	resume pumping							

Layne Christensen Company
Fontana

Date: 6-15-01 Page 17

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 x 748 Static level 183.84 Feet Airline depth 297.50 Feet Hours/Day 6 Total hours 87

Operator: R. Waller

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	T.S.S
8:30	START						85027	
:45	22.7	1800	200.48	16.64'	1150	108	Cloudy	147
9:00	9.5	1850	200.59'	16.75'	1175	110	Clearing - QT	24
:15	6.4	2000	201.86'	18.02'	1200	111	CIR - QT - 28p.s.i -	18
:30	9.5	2350	205.10'	21.26'	1275	111	CIR - Sl.AIR - 34p.si - QT -	26
:45	9.8	2750	209.02'	25.18'	1350	109	Cldy - Sl.AIR - 40p.s.i - QT -	66
10:00	11.4	3000	212.72'	28.88'	1425	104	Cldy - AIR - 48p.si - QT -	103
:15	17.0	3400	218.03'	34.19'	1500	99.4	cldy - AIR - 58p.s.i -	125
:30	11.4	3450	218.96'	35.12'	1500	98.2	Cldy - AIR - QT	48
:45	17.0	3700	222.88'	39.04'	1600	94.8	Cldy - AIR - 68p.s.i	164
:00	11.4	3700	223.58'	39.74'	1600	93.1	Cldy - AIR - QT	91
:15	14.8	3800	225.42'	41.58'	1650	91.4	Cloudy - AIR - 71p.si - SX1	135
:26	resume							
:41	26.5	2900	211.33'	27.49'	1400	105	Cloudy - AIR - SX2	- 84
:44	resume							
:59	26.5	3000	211.33'	27.49'	1425	105	Sl.cldy - AIR - SX3	53
12:03	resume							
:18	30.3	3000	211.56'	27.72'	1425	108	Sl.cldy - AIR - 48p.s.i	58
:33	4.2	3050	212.26'	28.42	1425	107	CIR - AIR - SX3	0
:45	resume							
1:00	7.6	3300	212.60'	28.76	1500	115	CIR - AIR - SX3 - 55p.s.i	30
:05	resume							
:20	4.2	3400	212.83'	28.99'	1500	117	CIR - AIR - SX3	42
	fix discharge pipe at drain							
:57	resume							
2:12	13.3	3300	211.33'	27.49	1500	120	CIR - AIR - SX3 - 53p.s.i	33
:15	resume							
:30	9.5	3400	213.18'	29.34	1525	116	CIR - AIR - SX3	21
:35	resume							
:50	14.4	3750	214.80'	30.96'	1600	121	CIR - AIR - SX3	21
:55	resume							
3:10	13.3	3000	208.56'	24.72'	1400	121	CIR - AIR - SX3	5

Layne Christensen Company
Fontana

Date: 6-15-01 Page 18

stomer: City of San Bernardino #102 Job No. 27- 5567

Meter 12 X 748

Static level 183.84' Feet
Airline depth 297.50 Feet

Hours/Day 2
Total hours 89

Operator: R. Walker

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments develop	T.S.S
3:16	resume pumping							
:31	22.7	2500	204.40'	20.56'	1300	122	sl. cldy - SX3	53
:35	resume							
:50	8.7	2500	204.40'	20.56	1300	122	CLEAR - SX3	12
:54	resume							
4:09	5.3	2050	201.86'	18.02'	1200	114	CLR - SX3	5
:21	resume							
:36	7.6	3200	209.72'	25.88'	1500	124	CLR - EXTR. AIR - SX3	9
:42	resume							
:57	7.6	3900	215.49'	31.65'	1650	123	CLR - EXTR. AIR	9
							Shutdown	
							86592	
							1,170,620 gpd	

Layne Christensen Company
Fontana

Date: 6-16-01 Page 19

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter/2 X 748 Static level 183.70 Feet Airline depth 296.50 Feet Hours/Day 4 1/2 Total hours 93 1/2

Operator: R. WEBER

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments (develop)	T.S.S
7:33	Start						86592	
:48	4.2	2950	204.33'	20.63'	1400	143	CLEAR-EXTR. AIR	16
8:03	0.4	2900	205.71'	22.01'	1400	132	" " SX3	0
:07	resume							
:27	3.2	3300	209.41'	25.71'	1500	128	CLR -EXTR. AIR -SX3	0
:31	resume							
:51	5.9	3650	212.41'	28.71'	1600	127	CLR - EXTR. AIR -SX3	0
:56	resume							
9:16	2.8	4000	215.65'	31.95'	1675	125	CLR-EXTR. AIR - SX3	5
:20	resume							
:40	5.6	4000	215.65'	31.95'	1675	125	CLR-EXTR. AIR -SX3	9
:52	resume							
10:12	8.1	3850	213.91'	30.21'	1625	127	CLR-EXTR. AIR -SX3	7
:21	resume							
:41	6.3	3950	215.41'	31.71'	1650	125	CLR - EXTR AIR -SX3	9
:46	resume							
11:06	3.8	4000	215.65'	31.95	1675	125	CLR-EXTR. AIR -SX3	3
:10	resume							
:30	5.3	4000	215.88'	32.18'	1675	124	CLR-EXTR. AIR -SX3	4
:34	resume							
:49	4.5	3350	211.03'	27.33'	1500	123	CLR-EXTR. AIR	0
12:04	0.8	3300	210.68'	26.98'	1500	122	" "	0
							Shutdown	
							87626	
							773,432 gpd	

Layne Christensen Company
Fontana

Date: 6-13-01 Page 2 c

Customer: City of San Bernardino Job No. 27- 5567

Meter 12 X 748 Static level 183.95 Feet
Airline depth _____ Feet

Hours/Day 7
Total hours 100½

Operator: R. Weber

Step test

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	
7:00	Start						T.S.S	876027
:05	2.1	1989	196.17'	12.22'	1200	163	CLEAR - 13 mg/l	640.3
:15	0.5	2005	198.00'	14.05'	1200	143	CIR O	667.1
:30	0	1989	198.71'	14.76'	1200	135	CIR O	707
:45	0.8	1979	199.27'	15.32'	1200	129	CIR O -Adj Q↑	746.7
8:00	0	2039	200.00'	16.05'	1200	127	CIR	787.6
:15	0	2045	200.33'	16.38'	1200	125	CIR O	828.6
:30	0	2034	200.49'	16.54'	1200	123	CIR	869.4
:45	0	2039	200.69'	16.74'	1200	122	CIR O	910.3
9:00	0	2030	200.79'	16.84'	1200	121	CIR -Q↑	951
:05	0	2468	203.96'	20.01'	1300	123	CIR O	967.5
:15	0.4	2475	204.19'	20.24'	1300	122	CIR-AIR O	88000.6
:30	0	2483	204.59'	20.64'	1300	120	" "	50.4
:45	0	2463	204.83'	20.88'	1300	118	" " O - Adj Q↑	99.8
10:00	0	2528	205.28'	21.33'	1300	119	" "	150.5
:15	0	2513	205.45'	21.50'	1300	117	" "	200.9
:30	0	2508	205.59'	21.64'	1300	116	" " O	251.2
:45	0	2508	205.68'	21.73'	1300	115	" "	301.5
11:00	0	2508	205.84'	21.89'	1300	114	" " Q↑	351.8
:05	1.1	2857	208.44	24.49'	1425	117	CIR-EXTR. AIR O	370.9
:15	0	2872	208.58'	24.63	1425	117	" " -Adj Q↑	409.3
:30	0	2922	209.29	25.34'	1425	115	" "	467.9
:45	0.1	2972	209.90'	25.95'	1425	115	" " O	527.5
12:00	0	2967	210.11'	26.16'	1425	113	" " -Adj Q↑	587
:15	0	3027	210.68'	26.73'	1450	113	" "	647.7
:30	0	3027	210.79'	26.84'	1450	113	" "	708.4
:45	0	3017	210.96'	27.01'	1450	112	" "	768.9
:00	0	3017	211.05'	27.10'	1450	111	" " Q↑	829.4
:06	0	3465	214.20'	30.25'	1550	115	CIR-EXTR. AIR	857.2
:15	0	3465	214.69'	30.74'	1550	113	" " O	898.9
:30	0	3525	215.37'	31.42'	1550	112	" "	969.5
:45	0	3540	215.68'	31.73'	1550	112	" " O	89040.5

Layne Christensen Company
Fontana

Date: 6-18-01 Page 21

Customer: City of San Bernardino #108 Job No. 27- 5567

Meter 12 X 748 Static level 183.95 Feet Hours/Day 5
Airline depth _____ Feet Total hours 10.5 1/2

Operator: R. Weber

Step test (cont.)

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	
2:00	0	3515	215.80'	31.85'	1550	110	CIR-EXHR. AIR	89111
:15	0	3515	215.96	32.01'	1550	110	" "	181.5
:30	0	3511	216.08'	32.13'	1550	109	" "	251.9
:45	0	3521	216.14'	32.19'	1550	109	" "	322.3
3:00	0	3515	216.30'	32.35'	1550	109	" "	393
:15	0	3500	216.35'	32.40'	1550	108	" "	463.2
:30	0	3511	216.43'	32.48'	1550	108	" "	533.6
:45	0	3511	216.52	32.57'	1550	108	" "	604
4:00	0	3515	216.67'	32.72'	1550	107	" " Q↑	674.5
:05	1.1	3770	218.80'	34.85'	1675	108	CIR-EXHR. AIR 5	699.7
:15	1.1	3830	219.04'	35.09'	1675	109	" "	750.9
:30	0.5	3800	219.23'	35.28'	1675	108	74 p.s.i 0	827.1
:45	0	3810	219.33'	35.38'	1675	108	CIR-EXHR. AIR	903.5
5:00	0	3785	219.53'	35.58'	1675	106	" "	979.4
:15	0	3820	219.66'	35.71'	1675	107	" "	90056
:30	0	3810	219.65'	35.70'	1675	107	" "	132.4
:45	0	3810	219.90'	35.95'	1675	106	" " 0	208.8
6:00	0	3800	219.78	35.83'	1675	106	" "	285
:15	0	3795	219.85'	35.90'	1675	106	" "	361.1
:30	0	3810	219.96'	36.01	1675	106	" "	437.5
:45	0	3805	220.02'	36.07	1675	105	" "	513.8
7:00	0	3820	220.05'	36.10	1675	106	" "	90 590.4
							Shutdown	
							2,216,623 gpd	

Layne Christensen Company
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Date: 6-19-01 Page 22

stomer: City of San Bernardino Job No. 27- 5567

Meter 12 x 748 Static level 185.10 Feet Hours/Day 13
Airline depth _____ Feet Total hours 113½

Operator: R. WEBER / J. SLACK

Constant Flow

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments	
								2106270
11:01	Start						McCrometer	905927
:05	2.7	3403	208.17'	23.07'	1550	148	CIR - EXHR. AIR	610.9
:10	2.1	3485	209.44'	24.34'	1550	143		634.2
:15	0	3470	210.57'	25.47'	1550	136		657.4
:20	0		211.04	25.94	1550			2177262
:30	0	3511	211.79'	26.69'	1550	132		2212378
:45	0	3495	212.30'	27.20'	1550	128	0 - T.S.S	2264816
12:00	0	3490	212.88'	27.78'	1575	126		2317168
:15	0	3490	213.38'	28.28'	1575	123		69531
:30	0	3467	213.62'	28.52'	1575	122	-Adj Q↑	2421547
:45	0	3486	214.11'	29.01'	1575	120		2473840
1:00	0	3494	214.37'	29.27'	1575	119		2526257
:15	0	3491	214.55'	29.45	1575	119		2578624
:30	0	3476	214.89	29.79'	1575	117		2630768
:45	0	3490	215.13	30.03'	1575	116		2683130
2:00	0	3489	215.11'	30.01'	1575	116		2735432
:30	0	3483	215.43'	30.33'	1575	115	-Adj Q↑	2839929
3:00	0	3538	216.14'	31.04'	1575	114		2946089
:30	0	3534	216.36'	31.26'	1575	113		3052125
4:00	0	3540	216.57'	31.47'	1575	112	0 - T.S.S	3158315
:30	0	3535	216.71	31.61'	1575	112		3264369
5:01	0	3537	216.90'	31.80'	1575	111		3374031
:30	0	3536	217.09'	31.99'	1575	111		3476574
6:00	0	3570	217.23'	32.13'	1575	111		3583672
:30	0	3509	217.33'	32.23'	1575	109		3688958
7:00	0	3556	217.32"	32.22'	1575	110		3795476
8:00	0	3536	217.82	32.72'	1575	108		4007676
9:00	0	3549	216.34	31.24'	1575	113		4220625
10:00	0	3548	216.82	31.72'	1575	112		4433554
11:00	0	3544	218.38	33.28	1575	109		4646205
12:00 midn.	0	3496	217.93	31.93	1575	91		4855933

Layne Christensen Company
Fontana

Date: 6-20-01 Page 23

stomer: City of San Bernardino Job No. 27- 5567

Meter 12 x 748 Static level 185.10 Feet Hours/Day 32
Airline depth _____ Feet Total hours 145½

Operator: J. SLACK / R WEBER

Constant flow test

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments
1:00 A.M.	0	3615	218.70	33.60	1575	107	5072866
2:00	0	3555	217.58	32.48	1575	110	5286193
3:00	0	3566	217.52	32.42	1575	110	5500123
4:00	0	3559	219.05	34.0	1575	105	5713707
5:00	0	3559	217.83	32.73	1575	109	5927270
6:00	0	3561	219.54	34.44'	1575	103	6140965
7:00	0	3556	219.54'	34.44'	1575	103	6354351
8:00	0	3550	219.50'	34.40'	1575	103	6567370
9:00	0	3547	219.54'	34.44'	1575	103	6780160
10:00	0	3540	219.47'	34.37'	1575	103	6992587
11:00	0	3534	219.51'	34.41	1575	103	7204611
12:00 pm	0	3532	219.55'	34.45'	1575	103	7416558
1:00	0	3528	219.56'	34.46'	1575	102	7628234
2:01	0	3525	219.44'	34.34'	1575	103	7843267
3:00	0	3525	219.48'	34.38'	1575	103	8051230
4:00	0	3518	219.47'	34.37'	1575	102	8262310
5:00	0	3516	219.53'	34.43'	1575	102	8473288
6:00	0	3520	219.58'	34.48'	1575	102	8684533
7:00	0	3534	219.67'	34.57'	1575	102	8896565
8:00	0	3530	219.73'	34.63'	1575	102	9108383
9:00	0	3528	219.77'	34.67'	1575	102	9320056
10:00	0	3540	219.83'	34.73'	1575	102	9532475
11:00	0	3535	219.95'	34.85'	1575	101	9744587
12:00 Mid	0	3536	220.0'	34.9'	1575	101	9956792
1:00 A.M.	0	3541	220.17'	35.0'	1575	101	10169252
2:00	0	3544	220.15	35.05'	1575	101	10381950
3:00	0	3552	220.32'	35.22'	1575	100	10595120
4:00	0	3551	220.35	35.25'	1575	101	10808190
5:00	0	3555	220.38'	35.28'	1575	101	11021490
6:00	0	3545	220.43'	35.33'	1575	100	11234230
7:00	0	3546	220.53'	35.43	1575	100	11447010
8:00	0	3540	220.45	35.35'	1575	100	11659420

Layne Christensen Company
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Date: 6-21-01 Page 24

Customer: City of San Bernardino Job No. 27- 5567

Meter 12 X 748

Static level 185.10 Feet
Airline depth _____ Feet

Hours/Day 27
Total hours 172.5

Operator: R. Weber / J. Slack

Constant flow

Time	P.P.M.	G.P.M.	Pumping Level	Draw-down	Engine R.P.M.	Specific Capacity	Comments
9:00 AM	0	3530	220.48'	35.38'	1575	99.8	11871190
10:00	0	3519	220.56	35.46'	1575	99.2	12082350
11:00	0	3524	220.62'	35.52'	1575	99.2	12293770
12:00 p.m	0	3513	220.68'	35.58'	1575	98.7	12504580
1:00	0	3510	220.68'	35.58'	1575	98.6	12715170
2:00	0	3502	220.78'	35.68'	1575	98.2	12925310
3:00	0	3502	220.66'	35.56'	1575	98.5	13135400
4:00	0	3501	220.70'	35.60'	1575	98.3	13345430
5:00	0	3506	220.76'	35.66'	1575	98.3	13555786
6:00	0	3512	220.68'	35.58'	1575	98.7	13766520
7:00	0	3517	220.77'	35.67'	1575	99.0	13977550
8:00	0	3517	220.82'	35.72'	1575	98.4	14188610
9:00	0	3525	221.0'	35.90'	1575	98.1	14400130
10:00	0	3527	221.0'	35.90'	1575	98.2	14611750
11:00	0	3529	221.0'	35.90'	1575	98.1	14823190
12:00 Mid	0	3528	221.08	35.98'	1575	98.0	15034890
1:00 A.M.	0	3529	221.15'	36.09'	1575	97.7	15246360
2:00	0	3530	221.23'	36.13'	1575	97.7	15458190
3:00	0	3531	221.34'	36.24'	1575	97.4	15670100
4:00	0	3528	221.39'	36.29'	1575	97.2	15881790
5:00	0	3532	221.46'	36.36'	1575	97.1	16093740
6:00	0	3531	221.55'	36.45'	1575	97.0	16305640
7:00	0	3526	221.62'	36.52'	1575	97.0	16517220
8:00	0	3501	221.75'	36.65'	1575	95.5	16727290
9:00	0	3496	221.72'	36.62'	1575	95.5	16937050
10:00	0	3489	221.78'	36.68'	1575	95.1	17146410
11:00	0	3484	221.63'	36.53'	1575	95.4	17355440
							Shutdown
							15,249,170 gpd
							110753 - McCrometer