

PURPOSE

This drawing lists the operating limitations and design requirements for all pipelines, mains and holders operating at or above 20% of the specified minimum yield strength (SMYS) of the pipe.

See S.P. 463-8 for detailed requirements for establishing and maintaining the MAOP of gas facilities.

DEFINITIONS

Maximum Allowable Operating Pressure (MAOP) is the maximum pressure at which a pipeline or section of a pipeline may be operated in accordance with all the applicable provisions of the current edition of G.O. 112-D.

Maximum Operating Pressure (MOP) (PG&E) is the maximum pressure at which a gas system may be operated as specified by the Manager of the Gas System Design Department.

Design Pressure (DP) is the maximum pressure permitted by the design sections of the current edition of G.O. 112-D, applicable to the materials and locations involved. In some cases, the DP has been established as the maximum pressure for the minimum wall thickness required under the current edition of G.O. 112-D for Type 3 construction for line size listed (see double asterisk entries).

Future Design Pressure is the Design Pressure (DP) to be used for future additions to existing facilities.

CHANGES IN THE MAOP REQUIRE CPUC NOTIFICATION

General Order 112-D (Subpart C) requires the Company to notify the CPUC 30 days prior to the uprating of any system operating, or to be operated, at 20 percent SMYS or greater.

The CPUC must be advised within 30 days after the lowering of the MAOP of a line operating at 20 percent or more of SMYS.

Any changes contemplated in the MOP (PG&E) or the MAOP of a line operating at or over 20% of SMYS shall be submitted by the Division Gas Superintendent or the Manager of Pipe Line Operations, in letter form, to the Manager of Gas System Design, for review and approval.

APPROVED BY										
		1	4-1-81	UPDATED						
		REV.	DATE	DESCRIPTION	GM	DWN.	CHKD.	SUPV.	APVD.	
GM		PIPELINE - DATA SHEET MAOP OF LINES OPERATING AT OR OVER 20% SMYS TYPICAL PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA						B/M		
SUPV.								DWG. LIST		
DSGN.								SUPSDS		
DWN.								SUPSD BY		
CHKD.								SHEET NO. of 30 SHEETS		
O.K.								DRAWING NUMBER		REV.
DATE	SCALE	086868			/					
4/9/79		MICROFILM								

MAOP INDEX

Sheets 3 - 23

Transmission Lines
Operating at or Over 20% SMYS

Sheets 24 - 29

Distribution Mains Operating
at or Over 20% SMYS

Sheet 30

Pipe Type High Pressure Underground
Holders Operating at or Over 20% SMYS

LINES OPERATING AT OR OVER 20% SMYS

PG & E CO.

DRAWING NUMBER

REV.

SHEET 2 OF 30 SHEETS

086868

1

MICROFILM

01-4844 (REV 1-76) PRINTED ON DIEPO NO 1020 CLEARPRINT 6-79

31 6544 (REV. 1-78) PRINTED ON BUREAU 1000 CLEARFILM 4-78

LINE OPERATING AT OR OVER 20% SMYS

P G & E CO.
 SHEET 3 OF 30 SHEETS
 DRAWING NUMBER: 086868
 REV. 1
 MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
21	0.00	1.07	Crockett Station to MP 1.07	24" & 26"	400	405	650	675
21	1.07	1.52	MP 1.07 to Herrmann Station	24"	400	675	675	675
21	1.52	2.71	Herrmann Station to Vallejo Station	16"	250	258	575**	575**
21	2.71	12.05	Vallejo Station to Napa "Y"	12"	250	375	585	585
21	12.05	35.05	Napa "Y" to MP 35.05	12" & 26"	450	450	675	675
21	35.05	51.41	MP 35.05 to Monroe Reg. Station	12"	450	500	675	675
<u>21</u>	51.41	53.12	Monroe Reg. Station to Santa Rosa Compressor Station	12"	450	494	675	675
21	53.12	137.38	Santa Rosa Compressor Station to Willits	8" & 12"	820	820	890	890
<u>21</u>	0.00	18.64	Napa "Y" to Adobe	16"	450	500	675	675
<u>21</u>	18.64	30.38	Adobe to Cotati 8" Feeder	16"	450	500	675	675
<u>21</u>	34.84	35.86	McDowell Road Tap to Petaluma Reg. Station	12"	450	500	593	675
21	0.00	21.11	Adobe to San Rafael Underground Holder	16" & 20"	450	500	500	500
21	0.00	21.11	Adobe to San Rafael Underground Holder	12"	450	500	500	500
*50	0.00	2.87	Marysville Service Center Reg. Station to Yuba City Underground Holder	8"	400	400	720**	720**
*50	2.87	21.62	Yuba City Underground Holder to Biggs Reg. Station	8"	250	250	720**	720**
*50	21.62	26.94	Biggs Regulator Station to Richvale "Y"	6" & 8"	250	250	720**	720**
*50	26.94	44.87	Richvale "Y" to Butte Station	6", 8", 12"	400	400	686**	720**
50	0.00	7.81	MP 0.00 to Paradise	8"	400	720	720	720
56			Pleasant Creek Field Underground Storage System	4"	1300	1300	1300	1440

*Indicates that line or sections are under 20% SMYS, but are listed for the purpose of continuity.

**DP has been established as the maximum pressure for the minimum wall thickness required under the current edition of General Order 112-D for Type 3 construction for line size listed.

Note: Transmission line numbers which are underlined indicate changes by this revision of Standard Practice 463.8.

BY 4344 (REV. 1-78) PRINTED ON DESK NO. 100 CLEARTEXT 5-79

LINES OPERATING AT OR OVER 20% SMS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E HOP psig	MAOP	Design Press.	Future Design Press.
56			Pleasant Creek Field Underground Storage System	4" & 8"	1300	1440	1440	1440
57			McDonald Island Field Underground Storage System	4" - 12"	2160	2160	2160	2160
57	0.00	7.47	McDonald Island Compressor Station to Palm Tract PLS	14", 16" 18"	1025	1025	1025	1025
57	7.47	16.64	Palm Tract PLS to Brentwood Terminal	18"	867	867	867	867
57B	0.00	16.46	Brentwood Terminal to McDonald Island Field Underground Storage System	22"	2160	2160	2160	2160
65			SP 3 (T176.70) to Los Medanos Compressor Station	4", 6", 10"	315	600	600	600
65			Los Medanos Field Storage System	4"	1000	1000	1000	1800
100	134.5	150.13	MP 134.5 to Milpitas Terminal	20"	400	400	552	552
101	0.00	9.80	Milpitas Terminal to Rengstorff Avenue Station	36"	400	400	400	400
*101	9.80	33.68	Rengstorff Ave Sta Via Bayshore to San Francisco Division Border Meter Sta	20"	180	180	275	400
*101	33.68	44.56	San Francisco Division Border Meter Sta Via Bayshore Blvd to San Francisco Division Gas Load Center	20"	109	110	275	275
*103	0.00	23.55	Hollister Meter Station Reg Station to California Street Reg Station	12"	350	350	670**	500
103	23.55	26.63	California Street Regulator Station to Harkins Road Meter and Mixer Station	12"	313	313	670**	500
105	6.88	23.03	Irvington Station to San Lorenzo Regulator Station	20", 24" 26" & 34"	250	250	500	500

SHEET 4 OF 30 SHEETS

P G & E CO.

MICROFILM

088868

DRAWING NUMBER REV. 1

11-4824 (REV. 1-1-81) PRINTED ON DIBOND NO. 1030 CLEARMASTER 0.75

LINES OPERATING AT OR OVER 20% SMS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
*105	23.03	52.01	San Lorenzo Regulator Station to San Pablo Station	20", 22" & 30"	150	198	275	275
*105	0.00	2.03	East Bay Division Gas Load Center to Berkeley City Limits (Parallel)	24"	150	198	275	275
105	0.00	0.18	Baine Avenue Crossover to Line 153	20"	250	250	590	500
*105	0.00	0.185	West Winton Avenue Crossover to Line 153	22" & 24"	250	250	500	500
105B	0.00	11.85	Crockett Station to San Pablo Station	24"	400	400	400	400
107	0.00	13.11	Tracy Station to Livermore Junction	22"	500	500	500	720
107	13.11	31.22	Livermore Junction to Irvington Station	22"	477	477 ⁽¹⁾	500	720
107S	31.22	38.12	Irvington Station to Milpitas Terminal	22", 24" & 36"	477	477	500	720
108	0.00	4.59	Stanpac 2 to Vernalis Field Mixing Station	16"	500	500	720	890
108	4.59	8.79	Vernalis Field Mixing Station to McMullin Ranch Mixer Station	16"	408	408	720**	720**
108	8.79	16.7	McMullin Ranch Mixer Station to Louise Ave. Meter and Reg Station	16"	408	408	720**	720**
108	16.7	43.5	Louis Ave. Meter and Reg Station to Las Vinas Station	16"	412	412	720**	720**
108	43.5	62.20	Las Vinas Station to Clarksburg PLS	16"	490	490	500	720
108	62.20	75.10	Clarksburg PLS to Sacramento Division Gas Load Center	16" & 24"	412	412	500	656
*108	27.10	1.71	E. Hazleton & "B" Streets Reg Station to Stockton Division Gas Load Center	12"	188 ⁽²⁾	188 ⁽³⁾	275	400
109	0.00	43.47	Milpitas Terminal to Sullivan Avenue Reg Station	22" & 30"	375	375	400	400

- (1) Calculations corrected.
- (2) This Section of L-108 has a 175 psig MOP when operated in conjunction with the Pacific Paperboard feeder.
- (3) Revised to conform to documented records.

PG&E CO. DRAWING NUMBER REV.
 SHEET 5 OF 30 SHEETS 086868 1
 MICROFILM

91-4844 (REV. 1-79) PRINTED ON GLOSS NO. 1020 CLEARFILM 9-79

LINES OPERATING AT OR OVER 20% SWS

P G & E CO.
SHEET 6 OF 30 SHEETS

DRAWING NUMBER
086868
REV.
1
MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP paig	MAOP	Design Press.	Future Design Press.
*109	43.47	52.71	Sullivan Avenue Regulator to San Francisco Division Gas Load Center	26"	150	150	275	275
111	0.00	21.65	Helm Junction to Fresno Junction	12"	650	650	800	720
111	21.65	28.05	Fresno Junction to San Joaquin Division Gas Load Center	8"	400	400	720	720
111			Raisin City Field Collection System	4"	650	800	800	800
111			San Joaquin Field Collection System	3" & 4"	650	800	960	960
112			Vernalis Field Collection System	3" - 8"	594	594	800	890
114	0.00	9.01	Rio Vista Field West Side to Antioch Terminal	12" & 16"	510	510	800	800
114	9.01	16.59	Antioch Terminal to Brentwood Terminal	22"	595	595	595	720
114	16.59	28.97	Brentwood Terminal To Dalton Avenue Station	22"	595	595	595	720
114	28.97	33.85	Dalton Avenue Station to Livermore Junction	36"	595	595	595	720
115			Petaluma Gas Field	2"	450	675	675	675
*116	0.00	3.86	Davis Meter and Reg Station to Swingle Junction Meter and Reg Station	8"	500	500	500	800
*116	3.86	6.19	Swingle Junction Meter and Reg Station to MP-6.19	16"	500	800	800	800
*116	6.19	12.89	MP-6.19 To Sacramento Division Gas Load Center	8"	500	500	500	720
*118	0.00	6.09	San Joaquin Division Gas Load Center to Fresno Junction	8"	400	400	500	720
118	0.00	0.66	San Joaquin Division Gas Load Center to Fresno Underground Holder	12"	690	690	720	720
*118	5.86	12.57	Fresno Junction to MP 12.57	12"	400	400	720	720
*118	12.57	73.26	MP 12.57 to Livingston Reg Station	8"	400	400	500	720
118	0.00	38.39	Herndon Junction to Athlone	12"	400	400	720	720

10 4844 187V 11-791 PRINTED ON DIBRO NO. 1030 CLAIMANT 8 79

LINES OPERATING AT OR OVER 20% SMS

P & E CO. SHEET 7 OF 30 SHEETS

DRAWING NUMBER 086868 REV. 1

MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
118	73.26	74.89	Livingston Reg Station to Collier Road	6"	400	720	720	720
118	74.89	83.74	Collier Road to Bradbury Road Reg Station	6" & 8"	400	400 ⁽⁴⁾	400	720
118	78.08	83.74	MP 78.08 to Bradbury Road Reg Station	8"	400	720	720	720
118	83.74	84.69	Bradbury Road Reg Station to MP 84.69 (L-215 Tap) Parallel	6" & 8"	500	890	890	890
119	0.00	3.85	Davis Meter Station to Swingle Junction Reg and Meter Station	12"	792	792	800	800
119	3.85	4.85	Swingle Junction Reg & Meter Station to MP 4.85	12"	500	720	800	720
119	4.85	11.14	MP 4.85 to MP 11.14	12"	500	520	800	720
119	11.14	11.35	MP 11.14 to MP 11.35	10"	500	520	800	720
119	11.35	16.46	MP 11.35 to N. Sacramento Underground Holder	12"	500	520	800	720
119	0.00	10.17	N. Sacramento Underground Holder to Antelope Meter Station	12"	500	500	500	600
119	0.00	6.69	N. Sacramento Underground Holder to Roseville Rd Reg Station	16"	500	500	500	600
119	0.00	7.85	Roseville Rd Reg Station to Antelope Meter Station	6" & 16"	500	500	500	600
119	0.00	5.25	Sonoma Avenue Reg and Del Pasa Blvd to Roseville Rd Reg Station	6"	180	500	500	500
120			Sutter Creek Field Collection System	4" & 6"	492	492	720	720
120			Sutter Buttes Field Collection System	4" & 6"	485	485	720	720
121	0.00	11.54	Marysville Buttes Meter Station to Yuba City Underground Holder	6"	485	485	720	720

(4) The 720 psig MAOP of this new parallel section of Line 118 was established by hydrostatic tests completed on 2/4/75 and 7/12/79.

91-4844 (REV. 1-73) - PRINTED ON GIBCO NO. 1040 CLEARFILM - 8-73

LINES OPERATING AT OR OVER 20% SHWS

P G & E CO.
SHEET 8 OF 30 SHEETS

DRAWING NUMBER
086868
REV.
1
MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
123	0.00	13.57	Antelope Meter Station to Lincoln Junction Reg Station	12"	500	500	670**	670**
124	0.00	23.46	Lincoln Junction Reg Station to Marysville Service Center Reg Station	8"	400	400	600	600
124	0.00	26.03	Lincoln Junction Reg Station to Yuba City Underground Holder	16"	600	600	600	600
124	0.00	3.76	Beale Air Force Base Tap (T 13.31) to Beale Air Force Base Reg Station	6"	400	400	600	600
125			Tompkins Hill Field Collection System	3",4",6"	448	448	720	720
126	0.00	10.57	Tompkins Hill Meter & Reg Station to Union Street Reg Station	4"	350	425	720	720
126	0.00	10.89	Tompkins Hill Meter Station to Union Street Reg Station	6"	350	425	720	720
126	0.00	3.62	Elk River Road Reg Station to T 12.38, Line 126	10"	167	167	720	720
*126	0.00	0.36	MP 0.00 to Eureka Manifold Propane Air Plant	10"	167	167	720	720
126	10.89	12.61	Union Street Reg Station to Line 137	6"	167	167	720	720
130A	0.00	0.50	HP Rio Vista Sacramento River Crossing	10"	800	800	800	800
130B	0.00	0.50	LP Rio Vista Sacramento River Crossing	10"	510	510	800	720
131	0.00	0.71	Rio Vista Field East Side	12"	510	685	800	720
131	0.00	9.19	Rio Vista Field East Side to Antioch Terminal	10" & 12"	720 ⁽⁵⁾ 510 ⁽⁶⁾	720	720	720
131	9.19	10.47	Antioch Terminal to MP 10.47	24"	438	438	600	720
131	10.47	16.87	MP 10.47 to Brentwood Terminal	24"	438	495	600	720
131	16.87	50.57	Brentwood Terminal to Irvington Station	24"	500	525	600	650

(5) The MOP is 720 psig when this section of L-131 is operated in conjunction with the HP Rio Vista Collection System.
 (6) The MOP is 510 psig when this section of L-131 is operated in conjunction with the LP Rio Vista Collection System.

91-6868 (REV. 1-78) PRINTED ON BIRCO NO. 1050 CLEARFILM 9 70

LINES OPERATING AT OR OVER 20% SMYS

P G & E CO.
SHEET 9 OF 30 SHEETS

DRAWING NUMBER
086868
REV.
1

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
131	50.57	57.45	Irvington Station to Milpitas Terminal	30"	590	595	650	650
132	0.00	35.84	Milpitas Terminal to MP 35.84	24", 30", 36"	400	400	400	400
132	35.84	46.59	MP 35.84 to Martin Station Reg Station	30", 36"	390	390	400	400
132	46.59	51.50	Martin Station Reg Station to San Francisco Division Gas Load Center	24"	145	145	275	275
132	10.32	0.00, 1.47	Sierra Vista Avenue Crossover to Rengstorff Avenue Station	16" & 24"	400	400	400	400
132	46.59	39.86	Martin Station Reg Station to Geneva Avenue	20"	109	110	275	275
133			Gill Ranch Field Collection System	4", 6", 8"	300	300	500	720
134	0.00	21.57	Herndon Junction to MP 21.57	6" & 8"	400	500	720	720
134	21.57	27.04	MP 21.57 to Arbios Reg Station	6"	500	500	720	720
134	27.04	30.50	Arbios Reg Station to MP 30.50	6" & 8"	500	500	720	720
134		34.13	Arbios Reg Station to Firebaugh Regulator Station	3" & 4"	500	500	720	720
136	0.00	1.65	Ord Bend Meter Station to MP 1.65	6"	479	565	720	720
136	5.14	12.89	Fell Reg & Odorizer Station to Butte Station	6"	550	550	720	720
*137	0.00	11.83	Eureka Whipple and Albee Streets, to Arcata Reg Station	4" & 6"	167	167	720	720
137	3.58	7.37	Ryan Slough Reg Station to Arcata Reg Station	8"	350	350	720	720
138A	0.00	14.94	Helm Tap Station to Helm Junction	16"	800 ⁽⁷⁾	862	862	862
138B	0.00	14.71	Helm Tap Station to Helm Junction	20"	700	700	800	890
138	14.71	20.50	Helm Junction to Elkhorn Station	18"	800 ⁽⁷⁾	865	865	890
138	20.50	22.04	Elkhorn Station to Burrel Meter Station	18"	650	650	865	720
138	22.04	38.59	Burrel Meter Station to Adams & Elm Meter and Regulator Station	16"	650	650	720**	720**

(7) This section of L-138/L-138A has a 700 psig MOP when operating in conjunction with 20" L-138B.

01-0884 (REV) 1-78) PRINTED ON GLEBO NO. 1030 CLEARPRINT 4-78

LINE OPERATING AT OR OVER 20% SWS

PG & E CO.
SHEET 10 OF 30 SHEETS

DRAWING NUMBER
086868
REV. 1

MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
138	38.59	49.42	Adams & Elm Meter & Reg Station to San Joaquin Division Gas Load Center	10", 12" & 16"	650	650	720	720
138	43.58	50.02	T 43.58 to Chestnut & Clay Reg Station	16"	650	650	720	720
138	45.10	46.64	MP 45.10 to Peach Avenue	10"	650	720	720	720
141E			E Thornton Field Collection System	4" & 6"	538	538	800	800
141W			W Thornton Field Collection System	3" - 10"	768	768	800	800
*141			N.E. River Island & Walnut Grove Field Collection System	6" & 8"	768	768	800	800
142N	0.00	14.05	Bakersfield Tap to Bakersfield Reg Station	12", 16", 20"	475	475	720	720
142S	0.00	9.00	Gosford Road Meter Station to Brundage Lane & "U" St Regulator	6" & 10"	600	600	720	720
*142	9.00	11.47	Brundage Lane & "U" St Regulator to Bakersfield Reg Station	8" & 12"	300	300	720	720
*143			Millar Field Collection System	3" & 4"	792	800	800	800
144	0.00	3.50	Millar Field to Millar Meter Station	10" & 12"	792	796	800	800
145			Maine Prairie Field Collection System	3", 4", 6"	510	796	800	800
146	0.00	6.00	Maine Prairie Field to Maine Prairie Meter Station	8"	510	796	800	800
147	0.00	3.39	Edgewood Road Crossover to San Carlos Regulator Station	20" & 24"	400	400	400	400
148	0.00	17.63	McMullin Ranch Mixer Station to Morgan Road Regulator Station	8"	408	408	720	720
149			Winters Field Collection System	4" & 6"	720	750	800	800

01-ASB/D / REV 1-78) PRINTED ON DIBRO NO. 1030 CLEARPRINT 4-78

LINES OPERATING AT OR OVER 20% SMYS

SHEET 11 OF 30 SHEETS

P G & E CO.

MICROFILM

DRAWING NUMBER
086868
REV.
1

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
150	0.00	18.09	Winters Meter Station to Davis Meter Station	6"	720	750	800	800
151	0.42	14.05	Afton Odorizer Station to Afton Reg Station	6"	250	250	720	720
152	0.00	0.42	Afton Field Collection System	6"	250	250	720	720
153	0.00	18.00	Irvington Station to Marina Blvd Station	30",32",34"	420	420	500**	500**
*153	18.00	27.89	Marina Blvd Station to East Bay Div Gas Load Center	24" & 30"	246	246	275	275
153			Tap to 50th Avenue Holder	16" & 20"	246	246	275	275
153			Tap to East Bay Div Gas Load Center	20"	246	246	275	275
153			Alvarado Crossover & Reg Station to Line 105	16"	246	250	500**	500**
*153			Fairway Avenue Crossover Station to Line 105	20" & 30"	150	198	542	500
155			Durham Field Collection System	4"	680	680	800	800
156	0.00	5.72	Durham Field to Durham Field Meter Station	6"	680	680	800	800
158	4.80	13.65	V-4.80 to Dunnigan Spreckels Reg Station	6"	500	564	800	800
*158			Woodland Field Collection System	3" & 4"	500	564	800	800
159	0.00	0.65	Pleasant Creek Field Compressor Station to V-0.65	4"	975	975	1000	975
159	0.65	3.91	V-0.65 to Pleasant Creek Line 159 Regulator Station	4"	975	975	1000	975
159	3.91	6.08	Pleasant Creek Line 159 Regulator Station to Winters Meter Station	4"	720	750	800	800
159			Winters Field Collection System	4"	720	750	800	800

LINE OPERATING AT OR OVER 20: SHWS

SHEET 12 OF 30 SHEETS

P G & E CO.

086868

MICROFILM

DRAWING NUMBER REV
1

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MDP psig	MAOP	Design Press.	Future Design Press.
*162	0.00	7.73	Tracy Station to Banta Regulator Station	6" & 8"	365	365	720	720
162	0.00	6.61	Tracy Station to Holly Road	10"	365	720	720	720
164			Coalinga Nose Field Collection System	10" & 8"	390	498	865	890
167	0.00	34.50	Beehive Bend Field to Yuba City Underground Holder	12" & 16"	800	800	800	800
167	0.00	4.60	Wild Goose Field Meter Station to Wild Goose Mixer & Odorizer Sta (Parallel)	10"	800	800	800	800
167	4.60	6.54	Wild Goose Mixer & Odorizer Station to Gridley Junction Station	8"	800	800	800	800
167			Wild Goose Field Collection System	3" & 4"	800	800	800	800
167	4.12	7.60	Princeton Field Collection System	3"	800	800	800	800
167			Compton Landing Field Collection System	4" & 6"	800	800	800	800
167			Bounde Creek Field Collection System	4"	800	800	800	800
168			River Island Field Collection System HP	2" - 8"	800	800	800	800
168			River Island Field Collection System LP	2" - 8"	698	698	800	800
169			Beehive Bend, Willows, Llano Seco & Perkins Lake Field Collection System	3" - 20"	800	800	800	800
172	0.00	69.81	Beehive Bend Field, West, Meter & Odorizer Station to Swingle Junction Reg & Meter Station	18" & 20"	800	800	800	800
172			Sugarfield Field Collection System	2" - 4"	800	800	800	800
172			Dufour Field Collection System	4"	800	800	800	800

(8) The MOP of Line 168 shall be 720 when operated in conjunction with Line 131.

91 4864 (REV. 1-72) PRINTED ON GUPP NO. 1848 CLEARPRINT 8-79

LINE OPERATING AT OR OVER 20% SWS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
172	69.81	79.12	Swingle Junction Reg & Meter Station to Sacramento Div Gas Load Center	16"	500	520	720	720
172	0.00	0.60	Crosstie Between Line 172 and Line 167	10"	800	800	800	800
172	75.45	9.68	Crosstie Between Line 172 and Line 119	12"	500	520	720	720
*173	0.00	17.56	Turkey Ranch Meter Station to Auburn Reg Station	4", 6", 8"	500	500	670	670
*174			Arbuckle Field Collection System	2" - 10"	800	800	800	800
176			Roberts Island Field Collection System	2" - 8"	500	555	800	890
176	0.00	18.85	Roberts Island Field to Tracy Station	6" & 8"	500	555	800	890
177	0.00	0.87	Sacramento Avenue Junction to Grape Way Regulator Station	10"	819	819	960	960
177	0.86	7.13	Grape Way Reg Station to Butte Station	6" & 10"	469	469	600	600
177	0.00	4.75	Fell Regulator & Odorizer to Sacramento Avenue Junction	16"	819	819	960	960
177	4.75	29.09	Sacramento Avenue Junction to Corning N. Dome Station	10"	819	819	960	960
177	0.00	2.19	Tap 27.60 to Tap 29.87 Parallel Section Near Corning N. Dome	6" & 8"	819	819	960	960
177	29.09	37.84	Corning N. Dome Station to Gerber Compressor Station	12"	819	819	960	960
177	37.84	163.04	Gerber Compressor Station to Cummings Creek PL Station	12"	819	819	960	960

PG&E CO. DRAWING NUMBER REV. SHEET 13 OF 30 SHEETS 086868 1 MICROFILM

LINES OPERATING AT OR OVER 20% SWYS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
177	163.04	178.18	Cummings Creek PL Station to Tompkins Hill Meter & Regulator Station	12"	430	430	720	720
177	178.18	192.29	Tompkins Hill Meter & Regulator Station to Ryan Slough Regulator Station	12"	350	425	600	600
177	37.8	149.18	Crosstie Between Lines 177 and Line 400	12"	819	819	960	960
177	43.87	1.24	Red Bluff Tap to Red Bluff and Diamond National Corp.	6"	819	819	960	960
179			Corning Field, South, Collection System	6"	819	819	960	960
181A	0.00	1.56	Soap Lake Meter Station to Gilroy Junction Station	10"	300	300	400	400
181A	6.19	20.15	V-6.19 to Watsonville	10" & 12"	300	303	400	400
181B	0.00	10.85	Anzar Road Meter and Regulator to Watsonville Station	10", 16", 20"	400	400	400	400
*182	0.00	12.86	Serpa "Y" to V-12.86, Suisun Junction	8" - 10"	510	510 (8A)	800	800
182	12.86	18.23	V-12.86 to Shell Chemical Meter Station	10" & 12"	435	435	800	800
*182	18.23	18.87	Shell Chemical Meter Station to Suisun Junction Meter Station	12"	435	435	600	800
182			Kirby Hills Field Collection System	3" - 8"	510	510 (8A)	800	800
182			Suisun Field Collection System	2" - 6"	510	510 (8A)	800	800

(8A) Established by uprate completed in 1980

PG & E CO.

SHEET 14 OF 30 SHEETS

DRAWING NUMBER 088868 REV. 1

MICROFILM

01-HEAD (REV. 1-78) PRINTED ON BIRDO NO. 1080 CLEARPRINT 8 78

LINES OPERATING AT OR OVER 20% SWS

P G & E CO.
 SHEET 15 OF 30 SHEETS

DRAWING NUMBER
 086868

REV.
 1

MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP paig	MAOP	Design Press.	Future Design Press.
183	0.00	6.35	Moffat Ranch Field Meter & Reg Station to Firebaugh Regulator Station	3"	175	320	800	800
186	0.00	26.1	Red Top Regulator to Dos Palos Meter Station	3",4",6"	500	625	720	720
186	26.1	29.4	Chowchilla Field to Red Top Regulator Station	2",3",4"	500	960	960	960
187	0.00	22.58	San Ardo Field to Jolon Road Regulator Station	6"	313	313	720	720
187	22.58	65.70	Jolon Road Regulator Station to Markins Road Meter & Mixer Station	8"	313	313	720	720
189	0.00	1.72	Humboldt Bay PP Tap to Humboldt Bay PP	10"	350	425	720	720
190	0.00	16.08	Kettleman Compressor Station to Coalinga Nose Dehydrator Station	12" & 16"	2160	2160	2160	2160
190	16.08	16.22	Coalinga Nose Dehydrator Station to Coalinga Nose Field	16"	2160	2160	2160	2160
191	0.00	3.86	Antioch Terminal to Antioch Town Meter Station	30" & 34"	315	600	600	600
191	3.87	9.93	Antioch Town Meter Station Cross Tie MP 3.87 to SP 3-Line 191 Meter Sta Via Pittsburg Power Plant	16"	315	600	600	600
191	9.93	25.30	SP 3-Line 191 Meter Sta to Reliez Station Road Regulator Station	20" & 24"	315	390	600	600
*191	25.30	29.36	Reliez Station Road Regulator Station to The Junction	16",20"&24"	315	338	600	600
				8",10"& 12"	268	283	400	400

01-4848 (REV. 1-79) PRINTED ON PAPER NO. 1020 CLAIMING 4-79

LINES OPERATING AT OR OVER 20% SHYS

P G & E CO.
 SHEET 16 OF 30 SHEETS

DRAWING NUMBER 086868
 MICROFILM
 REV. 1

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
*191	29.36	32.76	The Junction to MP 32.76	10"	268	270	400	400
*191	32.76	35.83	MP 32.76 to Martinez Meter and Regulator Station	10"	268	268	400	400
*191A			The Junction to Ardilla and Camino Pablo Regulator Station	3",6"&8"	268	283	400	400
*191B	0.00	1.53	The Junction to Reliez Valley Road, Lafayette	8"	268	283	400	400
193			Rice Creek Field Collection System	2" - 8"	819	960	960	960
193			Malton Field Collection System	4",6",8"	819	960	960	960
193			Kirkwood & Rice Creek Field, North, Collection System	6"	819	819	960	960
194	0.00	4.39	McMullin Field Dehydrator Station to California Ammonia Company	6"	440	440 ⁽⁹⁾	960	800
194			McMullin Ranch Field Collection System	2" - 10"	440	440 ⁽⁹⁾	800	800
195			Rio Vista Field, East Side Collection System (HP)	2" - 16"	800 ⁽¹⁰⁾	800	800	800
*195			Rio Vista Field, East Side Collection System (LP)	2" - 16"	510	510	800	800
196	0.00	13.45	Isleton Meter Station to Las Vinas Station	8" & 12"	800 ⁽¹⁰⁾	800	800	800
197A	0.00	21.41	Las Vinas Station to Brandt Rd PLS	10"	388 ⁽¹¹⁾	388	720	720
197A	21.41	31.23	Brandt Rd PLS to MP 31.23	10" & 12"	320	720	720	720
197A	31.23	39.57	MP 31.23 to MP 39.57	12"	320	320	720	720
197A	39.57	41.78	MP 39.57 to Calaveras Cement Meter Station	8"	320	320	720	720

- (9) Revised to conform to documented records.
- (10) The MOP of this section of line is 720 psig when it is operated in conjunction with L-131.
- (11) This section of L-197A/197B/197C has a 320 psig MOP when operated in conjunction with L-197A (MP21.47-41.78).

01-4946 (REV. 1-79) PRINTED ON GIBBS NO. 1039 CLAIMING 5-78

LINES OPERATING AT OR OVER 20% SWS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
197B	0.00	5.50	Las Vinas Station to V-5.50	6"	388 ⁽¹²⁾	388	720	720
197B	21.47	31.24	Brandt Rd PLS to V 31.24	8"	320	320	720	720
197C	17.44	23.02	Ione Tap to MP 23.02	10"	388 ⁽¹²⁾	720	720	720
199			Bunker Field Collection System	3" - 8"	792	796	800	800
200			Rio Vista Field, West Side, Collection System (HP)	2" - 16"	800 ⁽¹³⁾	800	800	800
*200			Rio Vista Field, West Side, Collection System (LP)	2" - 16"	510	510	800	800
200			Rio Vista Field, West Side, Collection System (10 psig)	3" - 10"	400	510	800	800
200			Liberty Island Field Collection System	4"	800	800	800	800
200			Lindsey Slough Field Collection System	3" - 10"	800 ⁽¹³⁾	868	960	960
201			Todhunters Lake Field Collection System	2" - 12"	792	960	960	960
201			Greens Lake Field Collection System	2"	792	960	960	960
202	0.00	23.72	Camp Far West Meter Station to Grass Valley Reg Station	6" & 8"	400	720	720	600
203			Winchester Lake Field Collection System	3" & 4"	500	800	800	960
204			Cheney Ranch Field Collection System	3" & 4"	500	890	890	890
206			Pleasant Creek Tap to Pleasant Creek Field Compressor Station	12"	975	1440	1440	1440
207			Conway Ranch Field Collection System	4", 6", 8"	800	1000	1000	1000

- (12) This section of L-197A/197B/197C has a 320 psig MOP when operated in conjunction with L-197A (MP 21.41-41.78).
- (13) The MOP of this section of line is 720 psig when it is operated in conjunction with L-131.

P G & E CO.
 SHEET 17 OF 30 SHEETS
 DRAWING NUMBER 086868
 MICROFILM
 REV. 1

11 4844 (REV. 1-79) PRINTED ON DESK NO. 1030 CLEARPRINT 9 79

LINES OPERATING AT OR OVER 20% STRESS

P G & E CO.
SHEET 18 OF 30 SHEETS

DRAWING NUMBER
086868
REV. 1

MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
208			Union Island Field to Lathrop Dehydrator Station	12"	825	1000	1000	1000
209			Johns Manville Reg Station to 5th & Garden, Willows	4"	479	720	720	720
210	0.00	1.40	Rio Vista "Y" to Creed Station	16"	737	800	800	800
210	1.40	25.98	Creed Station to Napa "Y" Meter Station	16" & 18"	650	650	720	720
210	1.40	19.47	Creed Station to Cordelia Reg Station	32" & 34"	650	675	675	675
210	19.47	25.62	Cordelia Regulator Station to Napa "Y" Meter Station	10" & 12"	650	650	675	675
210	0.00	1.36	Rio Vista "Y" to Creed Station	10"	650	650	800	800
210	19.47	32.11	Cordelia Reg Sta to Hermann Station	24"	650	675	675	675
210	0.00	3.7	Exxon Tap to Exxon Meter Station	18"	650	720	720	675
212			Tremont Field Collection System	4" & 6"	792	800	800	800
213	0.00	1.81	Orland Field Collection System	3" & 4"	819	960	960	960
215	0.00	20.05	Oak Flat Road Meter Sta to West Ave. Reg Station	12"	500	uS0	890	890
220	0.00	2.41	Rio Vista "Y" to Maine Prairie Meter & Reg Station	16"	75m	ug0	800	800
220	0.00	2.41	Rio Vista "Y" to Maine Prairie Meter & Reg Station	10"	510	796	800	800
220	2.41	22.01	Maine Prairie Meter & Reg Station to Davis Meter and Reg Station	8", 10", 12"	792	796	800	800
220	22.01	34.46	Davis Meter & Regulator Station to Dunnigan-Spreckels Regulator Station	6" & 8"	500	500	500	800

LINES OPERATING AT OR OVER 20% SMS

SHEET 19 OF 30 SHEETS

P G & E CO.

DRAWING NUMBER REV.

086868

1

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
300A	0.00	0.64	Colorado River to Topock Compressor Station	30" & 34"	660	700	700	700
300A	0.64	40.87	Topock Compressor Station to PLS 1A	34"	867	867	890	890
300A	40.87	103.72	PLS 1A to PLS 2A	34"	815	815	815	815
300A	103.72	130.37	PLS 2A to PLS 2AX	34"	688	688	688	688
300A	130.37	159.33	PLS 2AX to Hinkley Compressor Station	26" & 34"	573	573	573	573
300A	159.33	203.02	Hinkley Compressor Station to PLS 3A	34"	861	861	890	890
300A	203.02	256.21	PLS 3A to PLS 4A	34"	803	817	817	817
300A	256.21	299.01	PLS 4A to PLS 5A	34"	757	757	757	757
300A	299.01	353.85	PLS 5A to Kettleman Compressor Station	34"	669	688	688	688
300A	353.85	436.74	Kettleman Compressor Station to PLS 6A	34"	840	840	890	890
300A	436.74	461.07	PLS 6A to PLS 6AX	34"	715	715	715	715
300A	461.07	490.65	PLS 6AX to PLS 7A	34"	631	631	715	715
300A	490.65	502.34	PLS 7A to Milpitas Terminal	34"	558	558	676	676
300B	0.00	0.45	Colorado River to Topock Compressor Station	34"	660	660	735	735
300B	0.45	40.49	Topock Compressor Station to PLS 1B	34"	867	867	894	894
300B	40.49	103.51	PLS 1B to PLS 2B	34"	815	821	821	821
300B	103.51	130.40	PLS 2B to PLS 2BX	34"	688	688	688	688
300B	130.40	161.02	PLS 2BX to Hinkley Compressor Station	34"	573	573	573	573

01-2549 REV 1-790 PRINTED ON BIRKO NO. 1000 CLEARWAX 8 78

LINES OPERATING AT OR OVER 20% SHYS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
300B	161.02	203.07	Hinkley Compressor Station to PLS 3B	34"	861	861	897	897
300B	203.07	256.64	PLS 3B to PLS 4B	34"	803	816	816	816
300B	256.64	299.00	PLS 4B to PLS 5B	34"	757	757	757	757
300B	354.02	436.85	Kettleman Compressor Station to PLS 6B	34"	840	840	890	890
300B	436.85	461.08	PLS 6B to PLS 6BX	34"	715	715	715	715
300B	461.08	490.92	PLS 6BX to PLS 7B	34"	631	631	715	715
300B	490.92	502.64	PLS 7B to Milpitas Terminal	34"	600	600	669	669
301G	0.00	24.68	Hollister Meter Station to Moss Landing Power Plant	24" & 30"	500	500	500	500
301A	0.00	24.84	Hollister Meter Station to Moss Landing Power Plant	20"	396	396	500	500
301B	0.00	14.02	Dolan Road Meter Station to Hilltown Regulator Station	12"	408	408	600	500
*301C	14.02	17.20	Hilltown Regulator Station to Harkins Road Meter and Mixer Station	8" & 12"	313	313	500	500
*301F	0.00	7.94	Espinosa Road Tap Station to First Avenue Reg Station, Fort Ord Reg Station	16"	408	412	412	412
*301E	0.00	0.89	Reservation Rd Tap to Reservation Rd, Fort Ord	12"	408	408	500	500
301D	0.00	1.72	Anzar Tap Station to Anzar Road Meter & Regulator Station	10"	500	500	500	500
301H	0.00	1.72	Anzar Tap Station to Anzar Road Meter & Regulator Station	16"	500	500	500	500

PG&E CO.
SHEET 20 OF 30 SHEETS

DRAWING NUMBER
086868
MICROFILM
REV.
1

81-14844 (REV. 1-78) PRINTED ON GIBCO NO. 1038 CLAMPBOND 470

LINES OPERATING AT OR OVER 20% SMYS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
302			Grimes Area Collection System	2" - 20"	1000	1000	1000	1000
302W	0.00	5.76	Hershey Junction to Buckeye Creek PLS	20"	975	975	1000	975
303	0.00	7.95	Antioch Terminal to Brentwood Terminal	36"	720	720	720	720
303	7.95	11.97	Brentwood Terminal to Vasco Road	36"	720 ⁽¹⁴⁾	793	864	864
303	11.97	20.43	Vasco Road to Dalton Avenue Station	36"	720 ⁽¹⁴⁾	776	864	864
303	20.43	25.54	Dalton Avenue Sta to Livermore Junction	36"	720 ⁽¹⁴⁾	864	864	864
303	25.54	36.56	Livermore Junction to Sheridan Road PL Sta	36"	720	731	877	877
303	36.56	42.86	Sheridan Road PL Station to Irvington Sta	36"	590	590	600	877
304	0.00	11.29	Lathrop Dehydrator & Odorizer Station to Tracy Station	12"	825	825	825	825
304			Lathrop Field Collection System	3" - 12"	825	825	825	890
306	0.00	43.3	Kettleman Compressor Station to Dry Creek PL Station	20"	840	840	840	840
306	43.3	70.02	Dry Creek PL Station to Morro Bay Power Plant Reg Station	20"	650	650	840	840
307	0.00	16.36	Spreckels Sugar Meter Station to Spreckels Sugar Regulator Station	8"	500	500	915	890
307	12.05	16.92	Derrick Avenue Tap to Arbios Reg Station	8"	500	890	915	890
311	0.00	54.44	Trona Tap Meter Station to Westend Primary Regulator Station	10" & 12"	700	700	960	890

(14) Division regulation, cross-tied to Line 114 and Line 303, can operate at pressures up to 600 psig. If it becomes necessary to feed regulation from Line 303, then the Line 303 MOP becomes 600 psig.

P G & E CO.	DRAWING NUMBER	REV.
	086868	1
SHEET 21	OF 30 SHEETS	
MICROFILM		

01-3844 (REV. 1-74) PRINTED ON GLENE NO. 1000 CLASSIFIED 4-79

LINES OPERATING AT OR OVER 20% SMYS

P & E CO. SHEET 22 OF 30 SHEETS

DRAWING NUMBER: 086858
 REV. 1
 MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
311	31.97	38.49	Parallel Section to MP 38.49	12"	700	810	960	890
312	0.00	8.00	Paloma to Paloma Field Meter Station	8"	757	757 ⁽¹⁵⁾	820	820
313	0.00	34.4	Lucerne Valley Tap Meter Station to Kaiser Cement Company Meter Station	8" & 10"	573	573	720	720
314	0.00	24.19	Hinkley Compressor Station to PLS	12"	861	861	890	890
*314	24.19	29.00	PLS to Southwest Portland Cement Meter & Reg Station	10"	293	293	720	720
*314	29.00	43.18	Southwest Portland Cement Meter & Reg Station to Black Mountain Meter & Reg Station	8" & 10"	293	293	720	720
*314			Tap to Riverside Cement	8"	293	293	720	720
*314			Tap to Airbase Road Meter Station	8"	293	293	720	720
*316			Dutch Slough Area Collection System	2" - 12"	800	800	800	800
318			Black Butte Field Collection System	3"	911	911	960	960
319	0.00	9.00	"Gosford Intertie" Kern River Station PG&E to Cowles Levee Reg Station P.L.S. Co.	34"	757	1440	1440	1440
331			Santa Nella Tap to Tri Valley Growers	4" & 6"	500	890	890	890
334			Stone Lake Field Collection System	4"	490	490	800	800
335			Putah Sink Field	3" & 4"	800	800	800	800
336			Harte Field Collection System	3"	412	800	800	800
337			Zamora Gas Field	3" & 4"	800	800	800	800
339A	0.00	0.87	Rancho Capay Field Collection System	4"	819	960	960	960
339B	0.00	0.06	Rancho Capay Field Collection System	4"	819	960	960	960
372	0.00	3.7	Ridgecrest Tap to Ridgecrest Primary Regulator Station	6"	700	700	960	960
400	0.00	24.60	California-Oregon Border to Tioneata Compressor Station	36"	911	911	911	911

(15) Revised to conform to documented records.

01 4844 (REV. 1-78) PRINTED ON DIEFO NO. 1050 CLEARPRINT 5-78

LINES OPERATING AT OR OVER 20% SWS

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
400	24.60	48.64	Tionesta Compressor Station to Indian Springs PL Station	36"	911	911	911	911
400	48.64	82.33	Indian Springs PL Station to Burney Compressor Station	36"	911	911	911	911
400	82.33	104.20	Burney Compressor Station to MP 104.20	36"	911	911	911	911
400	104.20	115.26	MP 104.20 to Shingletown PL Station	36"	911	915	942	942
400	115.26	149.18	Shingletown PL Station to Gerber Compressor Station	26" & 36"	911	911	911	911
400	149.18	180.77	Gerber Compressor Station to V-180.77	24" & 36"	911	911	911	911
400A	180.77	197.83	V 180.77 to Delevan Compressor Station	36"	911	911	911	911
400B	180.76	197.72	MP 180.76 to Delevan Compressor Station	36"	911	911	911	911
400	197.72	233.87	Delevan Compressor Station to Buckeye Creek PL Station	36"	1040	1040	1040	1040
400	233.87	297.87	Buckeye Creek PL Station to Antioch Terminal	26" & 36"	975	975	975	975
402	0.00	9.96	Redding-Calaveras Tap to PL Station	12"	300	300	865	865
402	9.96	38.10	PL Station to Calaveras Cement Co.	8", 10" & 12"	300	300	720	720
403	0.00	1.38	Rio Vista "Y" to Creed Station	16"	650 ⁽¹⁶⁾	800	855	800

(15) The MOP of L-403 is 650 when operated in conjunction with L-210.

PG & E CO.
SHEET 23 OF 30 SHEETS

DRAWING NUMBER: 086868
REV. 1
MICROFILM

01-2824 (REV) 1-7801 PRINTED ON DIPS NO. 1050 CLEARWAX 4-79

LINES OPERATING AT OR OVER 205 S.M.S.

P G & E CO.
SHEET 24 OF 30 SHEETS
086868
DRAWING NUMBER
1
REV.

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
COAST VALLEYS DIVISION					
DFM-1 Monterey #1 - Harkins Road Meter & Mixer Station to Fig-Frank Streets Regulator Station	8" & 12"	313	313	500	400
DFM-2 Monterey #2 - Fort Ord to Fig-Frank Streets Regulator Station	10", 12", 16"	313	313	400	400
DFM-4 Monterey (V-18.65 to Carmel V-2.13) - to Aquajito Road Regulator Station	8" & 10"	313	313	500	400
DFM-3 Harkins Road Meter and Mixer Station to MP 2.45	8" & 10"	313	313	500	500
DFM-3 MP 2.45 to MP 3.50	8"	313	313	500	500
DFM-3 MP 3.50 to California Street Regulator Station	8"	313	313	500	500
Salinas Main - Foster Road to San Miguel Avenue	8"	313	313	500	500
DFM-6 Espinosa Road Main from 301-B, V-3.18	6"	408	500	720	500
DFM-7 Union Carbide Main from 187, MP 17.42	3"	313	313	720	720
DFM-8 Paradise Road to Meridian Road Main	4" & 6"	500	500	720	500
COLGATE DIVISION					
Yuba City Underground Holder to Market Street Regulator Pit	6" & 8"	135	135	400	400
Tap to Schohr Ranch	6"	250	250	720	720
DFM-1 Tap to Strain Ranch Dryer	4"	800	800	800	800
Feather River Boulevard	4"	600	600	600	600
DE SABLE DIVISION					
DFM-1 Butte College Tap	3" & 4"	400	720	720	720
Orland Tap from L-177 to Second Stage Regulator	6"	490	490	720	720
Paradise Primary Reg To Secondary Reg	8"	400	720	720	720
Holly Sugar Tap	4" & 6"	575	720	720	720

91-4884 (REV. 1-7-73) PRINTED ON GIBBS NO. 1050 CLEARANCE 8-79

LINES OPERATING AT OR OVER 20% SWS

PG&E CO.

DRAWING NUMBER 086868

REV. 1

SHEET 25 OF 30 SHEETS

MICROFILM

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
DRUM DIVISION					
Diamond Oaks Feeder	6"	500	500	500	600
EAST BAY DIVISION					
Avon Power Station Feeder	8" & 12"	315	338	600	600
Tosco Oil Company Feeder	12"	315	338	600	600
Nichols Road Tap	4"	315	338	600	600
Pacific States Steel Feeder	8" & 12"	420	420	500	500
Fort Costa Feeder	6"	315	338	600	600
50th Avenue Holder Feeder Off Line 105	16" & 20"	150	198	275	275
Pittsburg Town Feeder	12"	338	338	350	600
Concord Feeder to Alpha Beta Regulator	6" & 8"	315	600	600	600
Oleum Steam Plant Tap	8", 10", 12", 16"	250	250	275	275
San Ramon Feeder	16"	500	656	656	650
Standard Oil Feeder	22"	400	400	400	400
Rodeo Feeder	6" & 8"	204	204	400	400
Concord Feeder	8", 10", 12"	170	170	600	600
Antioch Feeder	6"	315	600	600	600
Danville Feeder	6", 8", 10"	315	338	600	600
Discovery Bay Feeder - From Line 57A to Secondary Stage Regulator (Bixler Road)	3" & 4"	867	867	867	867
Discovery Bay Feeder - From Bixler Road Regulator to Pt. of Timber Regulator	4", 6", 8"	400	400	400	400
Atlas Road Feeder	8"	400	400	400	400
Union Oil Tap	12"	400	400	400	400

91 4244 (REV. 1-78) PRINTED ON CROP NO. 100 CLAIMANT 4 78

LINES OPERATING AT OR OVER 204 SHVS

P G & E CO.

DRAWING NUMBER REV.
086868 1

SHEET 26 OF 30 SHEETS

MICROFILM

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
NORTH BAY DIVISION					
Cotati Feeder	8"	450	500	675	675
12" Line 21 (V-16.15) to Pine Street Meter Station	8"	450	500	675	675
12" Line 21 (V-16.15) to Kilburn Regulator Station	10"	450	500	675	675
Kilburn Regulator Station to Rutherford	8" & 10"	450	500	675	675
6" Sonoma Tap Line	6"	450	500	675	675
Tap to Kaiser Steel East of Napa River	4"	450	500	675	675
Line 21-S, V-4.59 to V-6.43	8"	450	500	500	500
SACRAMENTO DIVISION					
16" L-108 to Galt Primary Regulator	4"	490	490	500	720
*DFM-1 Sacramento Division Gas Load Center to North Sacramento Holder					
16" L-108 Tap to Sacramento Boulevard Regulator	8" & 12"	260	260	275	275
L-108 to Florin Road Primary	10", 12", 16"	412	412	500	656
DFM-2 Union Carbide Tap to Union Carbide Corp.	6" & 10"	412	412	500	656
L-108 to Florin Road and Woodline Avenue	8" & 10"	412	412	500	656
Sutterville Road to 43rd and Riverside	6"	412	412	500	656
L-108 to Elk Grove Primary	6" & 8"	412	412	500	656
Sacramento Underground Holder to Juliese Avenue Station	4"	412	412	500	656
Hunts Feeder Main	24"	180	180	545	275
Fairfield - Knolls Feeder	6"	500	500	500	800
Illinois Street 10" Feeder	4"	500	500	500	800
Gibson Feeder Main	6" & 10"	650	675	740	720
	6"	500	500	500	800

10-4884 (REV. 1-78) PRINTED ON GIBCO 1050 CLEARFILM 8 78

LINES OPERATING AT OR OVER 20% SWS

Location	Nominal Pipe Diameter (Inches)	PG&E NOP psig	MAOP	Design Press.	Future Design Press.
SACRAMENTO DIVISION (Continued)					
American Home Foods Feeder	2" & 4"	720	720	720	720
Vacaville Feeder	6"	400	400	400	400
Vacaville - Eldridge to Nut Tree Road	6"	400	400	720	720
Vacaville - Travis to Vacaville Junction	3", 4", 6"	400	400	400	400
Vacaville - SNRR to Elmira Road	3" & 6"	400	400	400	720
Anheuser Busch Feeder	2" & 4"	650	650	720	720
Fairfield Feeder - Scandia Road - Vaca Tap	10"	675	675	675	675
Fairfield Feeder - Scandia Road - Vaca Tap	12"	650	650	740	740
Robben Road Feeder - Tremont Tap to Dixon Meter Station	6"	720	750	800	800
119-Elm and Traction Avenue Regulator Station to T-0.93	12"	180	500	500	600
SAN FRANCISCO DIVISION					
Peninsula Main	16" & 20"	109	110	275	275
Hunters Point Power Plant Feeder	20"	145	145	275	275
SAN JOAQUIN DIVISION					
DFM-1 San Joaquin to Tranquility	3"	650	800	900	900
Yosemite Avenue Feeder	6"	400	400 ⁽¹⁷⁾	720	720
Snelling Highway Feeder	6"	400	400	400	720
DFM-3 Chowchilla Bypass Tap to Dixon Dryer	4"	500	500	720	720
Peach and Central Feeder	6"	650	720	720	720
Ciovis Feeder Main	6" & 12"	650	650	720	720
Vinewood Avenue Feeder	4"	400	720	720	720

(17) Revised to conform to the MAOP of L-118, which feeds this line.

PG&E CO. SHEET 27 OF 30 SHEETS DRAWING NUMBER: REV. 088868 MICROFILM 1

81 3444 (REV. 1-78) PRINTED ON DIBOND NO. 1050 CLEARPRINT 8 78

LINES OPERATING AT OR OVER 20: SMYS

PG & E CO.
SHEET 28 OF 30 SHEETS

DRAWING NUMBER REV.
088868 1
MICROFILM

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
SAN JOAQUIN DIVISION (Continued)					
Winton Avenue Feeder	6"	400	720	720	720
DFM-7 Adams & Elm Meter & Reg Sta to So. Cal. Gas Co.	8"	263	263	400	400
DFM-8 US Borax & Chem. Co. Reg Sta to US Borax & Chem. Co. Master Meter Sta	4" & 6"	490	490	720	720
DFM-4 Cressey Way Tap to Rogers Bros Packing	4" & 6"	400	400	720	720
DFM-6 Valley Nitrogen Feeder	6"	650	650	800	720
DFM-5 Ashland Avenue Tap to River Rock Products	4" & 6"	400	593	720	720
SAN JOSE DIVISION					
Half Moon Bay Feeder Line	8", 10", 12"	400	577	577**	577**
Santa Cruz to Davenport	10" & 12"	300	303	557**	400
Milpitas Terminal to PLS #7, King Road, 20" Feeder	16", 20", 30"	200	200	275	400
Watsonville to Santa Cruz	8" & 10"	300	303	577**	400
Watsonville to Rob Roy Junction	10"	400	400	577**	400
SHASTA DIVISION					
Simpson Lee Paper Mill Feeder	6"	300	300	720	720
U. S. Plywood Plant Feeder	4"	300	720	720	720
Enterprise Town Feeder	4" & 6"	300	300	720	720
Calaveras Cement Company Feeder	8"	300	300	720	720
Red Bluff District Tap	2"	911	911	911	911

01-2000 INCH 1:1.250 PRINTED ON DIBOND NO. 1030 CLEARPRINT 8.750

LINES OPERATING AT OR OVER 202 SMYS

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
STOCKTON DIVISION					
Valley Tomato Trunk Line	8"	412	500	720	720
Eight Mile Road Trunk Line	4" & 8"	412	412	720	720
Ripon-Modesto Feeder (Parallel)	8" & 12"	408	408	720	720
Dale Road to North Avenue Feeder	4", 6", 8", 12"	408	408	720	720
Riverbank Feeder	8" & 10"	408	408	720	720
Carpenter Road Feeder (Modesto)	4" & 12"	408	720 ⁽¹⁸⁾	720	720
Pauline Avenue Feeder	4" & 6"	408	408	720	720
Turner Road Feeder	8"	300	720	720	720
Turner Road Feeder (Parallel)	4" & 6"	300	300	720	720
McArthur Road Feeder	4"	295	295	400	720
Louise Avenue Feeder	8"	408	408	720	720

(18) Revised to conform to documented records.

PG & E CO.
SHEET 29 OF 30 SHEETS
DRAWING NUMBER
086868
REV
1
MICROFILM

01-2544 (REV. 1-79) PRINTED ON DESKO NO. 1050 CLEARPRINT 6-78

PIPE TYPE HIGH PRESSURE UNDERGROUND HOLDERS
OPERATING AT OR OVER 20% SMYS

P G & E CO.
SHEET 30 OF 30 SHEETS

DRAWING NUMBER: 086868
REV: 1
MICROFILM

<u>Location</u>	<u>Nominal Pipe Length (Feet)</u>	<u>PG&E Diameter (Inches)</u>	<u>HOP psig</u>	<u>MAOP</u>	<u>Future Design Press.</u>	<u>Design Press.</u>
<u>COLGATE DIVISION</u>						
Yuba City	24,784	34"	525	525	550	550
<u>NORTH BAY</u>						
San Rafael	37,392	30"	650	650 ⁽¹⁹⁾	690	690
<u>SACRAMENTO DIVISION</u>						
Sacramento	78,452	34"	500	500 ⁽²⁰⁾	500	500
<u>SAN JOAQUIN DIVISION</u>						
Fresno	43,722	30"	690	690 ⁽¹⁹⁾	690	690
<u>SAN JOSE DIVISION</u>						
Santa Cruz	7,221	30"	618	618	618	660
	4,838	34"	618	618	618	660

(19) MAOP confirmed through hydrostatic testing completed in 1979.
 (20) MAOP established through hydrostatic testing completed in 1980.

Appendix A
 S.P. S-463-8
 Effective: 6-1-81

PLD
 PUTS OUT

LINES IN TRANSMISSION CAPITAL OPERATING AT OR OVER 20% OF SMYS

Trans. Line No.	Location	Pipe Size (Inches)	Stanpac MOP PSIG	MAOP	Design Press.	Future Requirements	
						Design Press.	Size (Inches)
SP-2	Panoche Jct. to Tracy Tracy Station to Brentwood Terminal	22-26	500	500	500	890	26
		26	605	605	890(1)	890	26
SP-3	Brentwood Terminal to Delta Fair Jct. Delta Fair Jct. to Los Medanos PL Sta. Los Medanos PL Sta. to Crockett Jct. Crockett Jct. to San Pablo Sta. San Pablo Station to Chevron	26	360	360	456	600	26
		26	600 ✓	600	600	600	26
		22-24-26	315	315	375	600	26
		20-22-24-26	250	250	250	600	24
		16	150	150	150	250	16
SP-4	East Rio Vista Gas Fld. to Antioch Term.	8-10-12-16	720(2)	800 /	800	800	8-10-12-16
SP-5	Antioch Term. to Antioch Town Meter Sta. Antioch Town Meter Sta. to Delta Fair Jct.	24	338	390 ✓	500	600	24
		30	600(3)	600	600	600	30
Crockett Branch	Crockett Junction to Crockett Station	20-22	250	250	250	600	24
Ryer Island Branch	Los Medanos PL Sta. to M.P. 0.63	22	315	315	315	315	22

- NOTES: (1) At M.P. 149, a 950' pipeline section at the California Aqueduct crossing has a design pressure of 605 psig.
- (2) The MOP is: 510 psig when operated in conjunction with L-114. (West Rio Vista Field to Antioch Terminal)
 720 psig when operated in conjunction with L-131. (East Rio Vista Field to Antioch Terminal)
- (3) The MOP is: 360 psig when operated in conjunction with SP-3. (Brentwood Terminal to Delta Fair Junction)

DE 30