

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 construction in Class 3 location 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									
		2	4-26-82	UPDATED				KAT	
		1	4-1-81	UPDATED				DES	PAL
	CH	REV.	DATE	DESCRIPTION	GM	DWN.	CHKD.	SUPV.	APVD.
GM	PIPELINE - DATA SHEET				B/M				
SUPV.	MAOP OF LINES OPERATING AT OR OVER 20% SMYS				DWG LIST				
DSGN.	TYPICAL				SUPSDS				
DWN.	PACIFIC GAS AND ELECTRIC COMPANY				SUPSD BY				
CHKD.	SAN FRANCISCO, CALIFORNIA				SHEET NO. 1 of 2 SHEETS				
O.K.					DRAWING NUMBER		REV.		
DATE	SCALE					086868		2	
4/9/79									
61-4344 (REV 1-78) PRINTED ON DIEPO NO. 1020 CLEARPRINT 10-80					MICROFILM				

MAOP INDEX

Sheets 3 - 19	Transmission Lines Operating at or Over 20% SMYS
Sheets 20 - 24	Distribution Mains Operating at or Over 20% SMYS
Sheet 25	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 25 SHEETS	086868	2
		MICROFILM	

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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.
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
21	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
21	0.00	18.64	Napa "Y" to Adobe	16"	450	500	675	675
21	18.64	30.38	Adobe to Cotati 8" Feeder	16"	450	500	675	675
21	35.90	37.04	Stony Point Rd., Hearn to Sebastopol Rds.	16"	450	500	675	675
21	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	586**	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 construction in Class 3 location for line size listed.

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

PG & E CO
SHEET 3 OF 25 SHEETS

DRAWING NUMBER REV
088868
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LINES OPERATING AT OR OVER 20% SWS

P G & E CO.
SHEET 4 OF 25 SHEETS

MICROFILM

DRAWING NUMBER
086868
REV
2

Trans. Line No.	MP	to	MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP 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
57A	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	109	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	500	670**	500
105	6.88		23.03	Irvington Station to San Lorenzo Regulator Station	20", 24", 26", 34"	250	250	500	500
*105	23.03		37.33	San Lorenzo Regulator Station to Kirkham Street at Fifth Street	20", 22", 24", 30"	150	193	275	275
*105	37.98		52.01	Kirkham Street at 17th Street to San Pablo Station	20", 22", 30"	150	198	275	275
*105	0.00		2.03	East Bay Division Gas Load Center to Oakland City Limits (Parallel)	20", 22", 24"	150	198	275	275

(1) Transmission line name changed from "57" to "57A."

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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.
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	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 Avenue 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	275	400
109	0.00		43.47	Milpitas Terminal to Sullivan Avenue Reg Station	22", 30"	375	375	400	400
*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

(2) This Section of L-108 has a 175 psig MOP when operated in conjunction with the Pacific Paperboard Feeder.

P G & E CO
SHEET 5 OF 25 SHEETS

DRAWING NUMBER
085868

REV
2

MICROFILM

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LINES OPERATING AT OR OVER 20% SWS

SHEET 6 OF 25 SHEETS

MICROFILM

Trans. Line No.	MP	to	MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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
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	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

P G & E CO.

DRAWING NUMBER 086988 REV 2

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LINES OPERATING AT OR OVER 20% SWS

P G & E CO
SHEET 7 OF 25 SHEETS

MICROFILM

DRAWING NUMBER REV
086868 2

Trans. Line No.	MP to	MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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"	485 ⁽³⁾	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
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	713	713
*126	0.00	0.36	MP 0.00 to Eureka Manifold Propane Air Plant	10"	167	167	713	713

(3) This section of Line 120 is directly tied to Sutter Buttes Field Collection System which has a MOP of 485 psig.

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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.
126	10.89	12.61	Union Street Reg Station to Line 137	6"	167	167	713	713
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 ⁽⁴⁾ 510 ⁽⁵⁾	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
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	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"	400	500	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	14th and Albee Streets, Eureka, to Arcata Reg Station	4", 6"	167	167	275	275

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

PG&E CO
 SHEET 8 OF 25 SHEETS
 DRAWING NUMBER
 086868
 REV
 2
 MICROFILM

61-4344 Rev 1-76

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.
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(6)	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(6)	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**
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 & "V" St Regulator	6", 10"	600	600	720	720
*142	9.00	11.47	Brundage Lane & "V" 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

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

PG&E CD
SHEET 9 OF 25 SHEETS
DRAWING NUMBER 086868
REV 2
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LINES OPERATING AT OR OVER 20% SWS

PG&E CO
SHEET 10 OF 25 SHEETS

MICROFILM

DRAWING NUMBER REV
086888 2

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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
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
*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	8", 10"	390	498	865	890

61-4314 Rev 1-76

LINES OPERATING AT OR OVER 20% SMS

PG&E CO
SHEET 11 OF 25 SHEETS

DRAWING NUMBER REV
086868
2

MICROFILM

Trans. Line No.	HP	to NP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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 (7)	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
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

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

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ALL LINES OPERATING AT OR OVER 20% SMS

P G & E CO
SHEET 12 OF 25 SHEETS

DRAWING NUMBER REV
086868 2

MICROFILM

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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
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	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	800	800
182			Suisun Field Collection System	2" - 6"	510	510	800	800
183	0.00	6.35	Moffat Ranch Field Meter & Reg Station to Firebaugh Regulator Station	3"	175	320	800	800
185	0.00	0.014	Hollister Gas Field Tie to Main 301A	4"	396	396	600	500
186	0.00	26.1	Red Top Regulator to Dos Palos Meter Station	3", 4", 6"	500	625	720	720

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LINE'S 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.
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 Harkins 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"	600	600	600	600
191				Antioch Town Meter Station Cross Tie	16"	600	600	600	600
191	3.87	9.93		MP 3.87 to SP 3-Line 191 Meter Sta Via Pittsburg Power Plant	20", 24"	338	390	600	600
191	9.93	25.30		SP 3-Line 191 Meter Sta to Reliez Station Road Regulator Station	16", 20", 24"	338	338	600	600
*191	25.30	29.36		Reliez Station Road Regulator Station to The Junction	8", 10", 12"	268	283	400	400
*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

SHEET 13 OF 25 SHEETS

P G & E CO

MICROFILM

DRAWING NUMBER REV
086968 2

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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.
194	0.00	4.39	McMullin Field Dehydrator Station to California Ammonia Company	6"	440	440	960	800
194			McMullin Ranch Field Collection System	2" - 10"	440	440	800	800
195			Rio Vista Field, East Side Collection System (HP)	2" - 16"	800 ⁽⁸⁾	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 ⁽⁸⁾	800	800	800
197A	0.00	21.41	Las Vinas Station to Brandt Rd PLS	10"	388 ⁽⁹⁾	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 ⁽⁹⁾	320	720	720
197B	0.00	5.50	Las Vinas Station to V-5.50	6"	388 ⁽⁹⁾	388	720	720
197B	21.47	31.24	Brandt Rd PLS to V 31.24	8"	320 ⁽⁹⁾	320	720	720
197C	17.44	23.02	Ione Tap to MP 23.02	10"	388 ⁽⁹⁾	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 ⁽⁸⁾	800	800	800
*200			Rio Vista Field, West Side, Collection System (LP)	2" - 16"	510	510	800	800
200	0.00	6.51	Rio Vista Field, West Side, Collection System (LP), Rio Vista "Y" Mixer Station to Serpa Junction Compressor Station	12"	510	800 ⁽¹⁰⁾	800	800
200			Rio Vista Field, West Side, Collection System (30 psig)	3" - 10"	400	510	800	800
200			Liberty Island Field Collection System	4"	800 ⁽¹¹⁾	800	800	800
200			Lindsey Slough Field Collection System	3" - 10"	720 ⁽¹¹⁾	868	960	960

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

PG&E CO
SHEET 14 OF 25 SHEETS

MICROFILM

DRAWING NUMBER REV
086868
2

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LINES OPERATING AT OR OVER 20% SWS

P G & E CO
SHEET 15 OF 25 SHEETS

MICROFILM

DRAWING NUMBER REV
086968 2

Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
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
208			Union Island Field to Lathrop Dehydrator Station	12"	825	1000	1000	1000
209			Johas 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 Herrmann 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	890	890	890
220	0.00	2.41	Rio Vista "Y" to Maine Prairie Meter & Reg Station	16"	792	800	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