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PGWE FOR INTRA-COMPANY USES

DIVISION OR DEPARTMENT FILE NO

VICE PRESIDENT - GAS OPERATIONS

RE LETTER OF SUBJECT

Standard Practice 463-8 MAOP of Pipelines and Mains Operating Over 20% of SMYS

MOMR

April 9, 1979

DIVISION MANAGERS MANAGER, GENERAL CONSTRUCTION MANAGER, PIPE LINE OPERATIONS DIVISION GAS SUPERINTENDENTS DISTRICT MANAGERS DISTRICT GAS SUPERINTENDENTS DIVISION ADMINISTRATIVE ANALYST OR EQUAL

DIRECTOR, PROCEDURES AND ORGANIZATION:

The attached Standard Practice 463-8 dated April 9, 1979 replaces the revised Standard Practice issued on May 1, 1975.

The Standard Practice no longer contains Appendices A, B, and C which listed the pressure of pipelines, mains and high pressure underground holders operating at or above 20% of SMYS. This information is now contained in drawing 086868, which will be issued by the Manager of Gas System Design Department and updated as required. A copy of drawing 086868 is attached.

Additional copies of this Standard Practice may be obtained from Gas Operations by calling extension 1604.

Copies of drawing 086868 may be obtained by calling extension 3202.

JYura (2863) : cm

Gas Operations Managers

Attachments

62 7301 REV 4-65

PACIFIC GAS AND ELECTRIC COMPANY

STANDARD PRACTICE

STANDARD	PRACTICE	NO	463-8

EXECUTIVE OFFICE OR DIVISION ____ GAS OPERATIONS

PAGE NO 1 EFFECTIVE 4/9/79

ISSUING DEPARTMENT_

GAS SYSTEM DESIGN

PAGE NO 1 EFFECTIVE 5/1/75

MAXIMUM OPERATING PRESSURES OF PIPELINES AND MAINS OPERATING AT OR ABOVE 20% OF S.M.Y.S.

PURPOSE AND POLICY

*1. To establish a uniform procedure for identifying, reviewing and revising Design Pressure (DP), Maximum Allowable Operating Pressures (MAOP), and Maximum Operating Pressure (MOP) (PG&E) for all pipelines, mains and holders operating at or above 20% of specified minimum yield strength (SMYS) of the pipe material.

RECISIONS

All previous instructions, oral or written, that may be contrary to this Standard Practice.

RESPONSIBILITY

- 3. Division Gas Superintendents and the Manager of Pipe Line Operations shall be responsible for the performance required by this Standard Practice. Performance will include reviews of design procedures for the lines and the records generated by the referenced Standard Practices any time a change in MOP, MAOP, or DP is contemplated.
- 4. The Manager of Gas System Design will establish and confirm changes to MOP (PGGE); MAOP and DP.

REFERENCES

- *5 Drawing 086868 "Maximum Operating Pressures of Pipelines and Mains Operating at or Above 20% of SMYS"
 - Current edition of California Public Utilities G.O. 112 S.P. 412-1, "External Corrosion Control of Buried Gas Facilities"
 - S.P. 460-1, "Location Class Changes: Pipelines and Mains"
 - S.P. 460.2-2, "Physical Inspection: Pipelines, Mains and Services"
 - S.P. 460-21-4, "Periodic Leakage Surveys of Gas Transmission and Distribution Facilities"
 - S.P. 463.7, "Pipeline History File, Establishing and Maintaining"

DEFINITIONS

*6. Design Pressure (DP) is the maximum pressure permitted by the design sections of the current edition of G.O. 112, 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 for Type 3 construction for line size listed (See double asterisk entries in Drawing 086868).

* Paragraph Revised ** Paragraph Added

(SEE OVER)

62 7501 REV 4-65

PACIFIC GAS AND ELECTRIC COMPANY

STANDARD PRACTICE

STANDARD	PRACTICE	NO	463-B

EXECUTIVE OFFICE OR DIVISION GAS OPERATIONS

PAGE NO 2 EFFECTIVE 4/9/79

ISSUING DEPARTMENT ____

GAS SYSTEM DESIGN

PAGE NO 2 EFFECTIVE 5/1/75

SUBJECT.

MAXIMUM OPERATING PRESSURES OF PIPELINES AND MAINS OPERATING AT OR ABOVE 20% OF S.M.Y.S.

DEFINITIONS

Future Design Pressure is the Design Pressure (DP) to be used for future additions to existing facilities, as shown on the latest revision of Drawing 086868.

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.

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.

Specified Minimum Yield Strength (SMYS) is the minimum yield strength in psi prescribed by the specification under which pipe is purchased from the manufacturer or as specified in Section 192.107 of the current edition of G.O. 112.

APPLICATION

*7. Procedural details appear in the addenda to this Standard Practice.

RECORD

8. Pressure Recording Charts and Operating Sheets (record of hourly data) which document the MAOP and/or MOP (PG&E) of pipelines and mains operating at or above 20% of SMYS shall be kept current by the Division and/or Pipe Line Operations Department assigned with the responsibility of maintenance and operation of facility.

SUPPLEMENT

 The Supplement establishes the procedure for designating the MOP (PG&E), MAOP and DP for each facility.

APPROVED BY:

Howard M. McKinley

Vice President - Gas Operations

DISTRIBUTION:

Division Managers

Division Gas Superintendents

District Gas Superintendents

District Managers

Division Admin. Analyst or Equal Director, Procedures Analysis

Pipe Line Operations

Additional copies of this Standard Practice may be obtained from Gas Operations, 77 Beale Street, San Francisco, (PG&E Ext. 22-1604).

* Paragraph Revised ** Paragraph Added

(SEE OVER)

Supplement S.P. No. 463-8 Page 1 Effective 4/9/79

PROCEDURAL DETAILS

- *10. Piping systems shown on Drawing 086868 are not to be operated in excess of the MOP (PG&E). This limitation has been determined by the lowest of the following:
 - a) The test pressure or the rated working pressure of the pipe, valves, and fittings in the line.
 - b) The MAOP of the line as established in accordance with the provisions of the current edition of G_0 . 112.
 - c) The MAOP of another pipeline system connected to the first system where there is no pressure control complete with over pressure protection between the two systems.
 - d) Operating conditions that limit pressure.
- *11. The MOP (PGSE) may equal, but shall never exceed the MAOP or the DP. In some cases where the MAOP is less than DP, it is anticipated that the MAOP may be increased at some future time, in accordance with Subpart K (Uprating) of the current edition of G.O. 112. For this reason, all new additions to an existing system shall have a design pressure at least equal to the design pressure listed in Drawing 086868. Some sections of an existing system may not qualify for the established design pressure and would require reconstruction, testing, or replacement prior to increasing the MAOP. See Paragraph 6.
- 12. New or replacement sections of line should be tested and qualified for the ultimate MAOP of the system, even though the MOP (PG&E) of the system is limited by the MAOP of other facilities connected to it.
- Any changes contemplated in the MOP (PGWE) 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. A copy should be sent to the Manager of Gas System Planning.
- *14. The MOP (PG&E), MAOP and DP of all newly installed pipelines and mains operating at or above 20% of SMYS, along with those in Drawing 086868 shall be confirmed annually by letter on or before February 1, by the Division Gas Superintendents and the Manager of Pipe Line Operations to the Manager of Gas System Design Department, for each facility within the scope of this Standard Practice.
- *15. The Manager of Gas System Design Department will issue and distribute an updated copy of Drawing 086868 giving pipeline pressures (Drawing 086868) as required.

*Paragraph Revised **Paragraph Added

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-C.

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.

<u>Design Pressure</u> (DP) is the maximum pressure permitted by the design sections of the current edition of G.O. 112-C, 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-C for Type 3 construction for line size listed (see double asterisk entries).

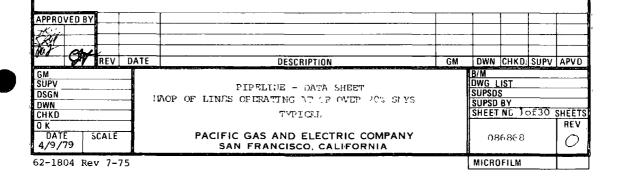
 $\underline{\text{Future Design Pressure}}$ is the Design Pressure (DP) to be used for $\underline{\text{future additions}}$ to existing facilities.

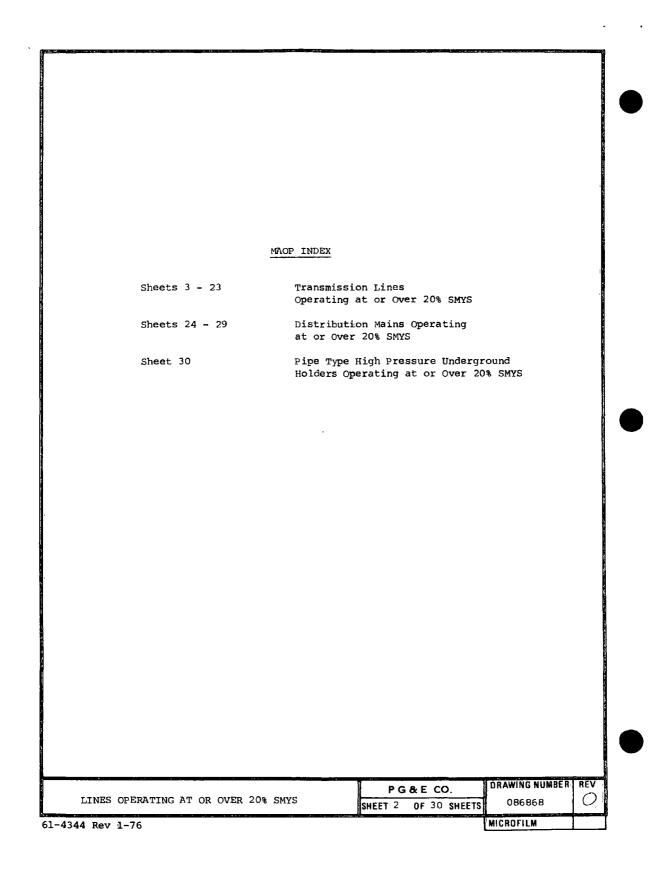
CHANGES IN THE MAOP REQUIRE CPUC NOTIFICATION

General Order 112-C (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.





LINES OPERATING	Trans. Line No.	<u>MP</u>	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MACP	Design Press.	Future Design Press.
1 6	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 Reis Avenue	16"	250	258	575**	575**
4	21	2.71	12.05	Reis Avenue to Napa "Y"	12"	250	375	585	585
ខ្ល	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 MP 51.41	12"	450	500	720	675
CVED	21	51.41	53.12	MP 51.41 to Santa Rosa Compressor			300	, 20	J. J
				Station	12"	450	494	720	675
2	21	53.12	137.38	Santa Rosa Compressor Station to					
				Willits	8" & 12"	820	820	890	890
CHAC.	21	0.00	18.64	Napa "Y" to MP 18.64	16"	450	500	720	675
3	21	18.64	25.84	MP 18.64 to Pepper Road	16"	450	500	720	675
	21	34.84	35.86	McDowell Road Tap to Petaluma					
				Meter Station	12"	450	500	593	675
	21	0.00	21.11	Adobe to San Rafael HPU Holder					
				Station	16" & 20"	450	500	500	500
	21	0.00	21.11	Adobe to San Rafael HPU	12"	450	500	500	500
	*50	0.00	2.87	5th & Walnut Streets, Marysville					
				to Yuba City HPU	8"	400	400	720**	720**
P	*50	2.87	21.62	Yuba City HPU to Biggs Regulator Station	8"	250	250	720**	720**
ด	*50	21,62	26.94	Biggs Regulator Station to			_		
ρ.				Richvale "Y"	6" & 8"	250	250	720**	720**
m	*50	26.94	44.87	Richvale "Y" to Butte Station	6", 8", 12"	400	400	686**	720**
0	50	0.00	7.81	MP 0.00 to Paradise	8"	400	720	720	720
8	56			Pleasant Creek Field Storage Syste	em 4"	1300	1300	1300	1440
DRAWING NUMBER	*Indic **DP ha editi	s been e	stablished	sections of line are under 20% SMYS as the maximum pressure for the mi r 112-C for Type construction for l	, but are liste	kness red	_		uity.

61-4344 Rev	Ľ.		<u> </u>			Nominal		<u> </u>		
4	LINES	Trans	_			Pipe	PG&E			Future
8		Line	•			Diameter	MOP		Design	Design
۷ ۲	OP ERATTING	No.	MP	to MP	Description	(Inches)	psig	MAOP	Press.	Press.
1-76	RAT	56			Pleasant Creek Field Storage					
1		57			System McDonald Island Field Storage	4" & 8"	1300	1440	1440	1440
1	ΑŦ			- 4-	System	4" - 12"	2160	2160	2160	2160
1	유	57	0.00	7.47	McDonald Island Compressor Station to PLS	n 14",16",18"	1025	1025	1025	1025
ı	OVER	57 57 B	7.47 0.00	16.64 16.46	PLS to Brentwood Terminal Brentwood Terminal to McDonald	18"	867	867	867	867
-		5/8	0.00	16.46	Island	22"	2160	2160	2160	2160
	20%	65			SP 3 (T176.7) to Los Medanos Compressor Station	4",6",10"	315	600	600	600
1	SYMS	65			Los Medanos Field Storage System	4"	1000	1000	1000	1800
	29	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 Avenue Station Via Bayshore to San Francisco	20"				
	SHEET _	*101	33,68	44.56	Border Meter Station San Francisco Meter Station Via Bayshore Boulevard to Potrero		180	180	275	400
Ĭ.	º	*103	0.00	23.55	Gas Plant Hollister Meter Station Regulator	20"	109	110	275	275
- 2	S Sp	103	23.55	26,63	Station California Street Regulator Static	12"	350	350	670**	500
	7 CO.	103	23.33	20.63	To Harkins Road Meter and					
	SHEETS	105	6.88	23.03	Mixer Station Irvington Station to San Lorenzo	12" 20", 24"	313	313	670**	500
					Regulator Station	26" & 34"	250	250	500	500
MICROFILM	OR A									
Ĩ	RAWING N 086868									
*	DRAWING NUMBER 086868									
+										
	\bigcirc \mathbf{z}						ra majorina jan			

*105					psig	MAOP	Press.	Press.
	23.03	52.01	San Lorenzo Regulator Station to	20". 22"				
			San Pablo Station	24" & 30"	150	198	275	275
*105	0.00	2.03	Oakland Holder Station to					
								275
				20"	250	250	590	500
*105	0.00	0.185						
105-				22" & 24"	250	250	500	500
105B	0.00	11.85						
107				24"	400	400	400	400
107	0.00	13.11						
107	12 11	21 22	The second secon	22"	500	500	500	720
107	13.11	31.22		2011		400	500	500
1076	21 22	20 12		22"	4//	480	500	720
1075	31.22	30.12		2011 2411 6 2611	477	477	500	720
108	0.00	4 50		22",24" & 36"	4//	4//	500	720
100	0.00	4.59	-	16"	Enn	500	720	890
108	4 59	8 79		10	300	300	720	030
				16"	408	408	720**	720**
108	8.79	16.7		10	400	400	,20	720
			MP 16.7	16"	408	408	720**	720**
108	16.7	43.5	MP 16.7 to Las Vinas Station	16"	412	412	720**	720**
108	43.5	62,20	Las Vinas Station to MP 62.20	16"	490	490	500	720
108	62.20	75.10	MP 62.20 to Sacramento Division					
			Gas Load Center	16" & 24"	412	. 412	500	656
*108	27.10	1.71	E. Hazleton & B Streets Regulator					
			Station to Stockton Gas Plant	12"	175	185	275	275
109	0.00	43.47	Milpitas Terminal to Sullivan					
			Avenue Regulator Station	22" & 30"	375	375	400	400
	108 108	105 0.00 *105 0.00 105B 0.00 107 0.00 107 13.11 1075 31.22 108 0.00 108 4.59 108 8.79 108 16.7 108 43.5 108 62.20 *108 27.10	105 0.00 0.18 *105 0.00 0.185 105B 0.00 11.85 107 0.00 13.11 107 13.11 31.22 1078 31.22 38.12 108 0.00 4.59 108 4.59 8.79 108 8.79 16.7 108 16.7 43.5 108 43.5 62.20 108 62.20 75.10 *108 27.10 1.71	Berkeley City Limits (Parallel)	Berkeley City Limits (Parallel) 24"	Berkeley City Limits (Parallel) 24" 150	Berkeley City Limits (Parallel)	Berkeley City Limits (Parallel)

LINES	Trans				Nominal Pipe	PG&E			Future
	Line				Diameter	MOP		Design	Design
EE .	No.	MP	to MP .	Description	(Inches)	psig	MAOP	Press.	Press.
OPERATING	*109	43.47	52.71	Sullivan Avenue Regulator to					
zi I				Potrero Gas Plant	26"	150	150	275	275
	111	0.00	21.65	Helm Junction to Fresno Junction	12"	650	650	800	720
ΑT	111	21.65	28.05	Fresno Junction to Division Gas					
OR R				Load Center	8"	400	400	720	720
	111			Raisin City Field Collection					
OVER				System	4"	650	800	800	800
ð	111			San Joaquin Field Collection System	3" & 4"	650	800	960	960
N)	112			Vernalis Field Collection System	3" - 8"	594	594	800	800
20%	114	0.00	9.01	West Rio Vista Field to Antioch					
מ				Terminal	12" & 16"	510	510	800	800
SYMS	114	9.01	16.59	Antioch Terminal to Brentwood					
מ				Terminal	22"	595	595	595	720
	114	16.59	28.97	Brentwood Terminal to Dalton Avenue	22"	595	595	59 5	720
1	114	28,97	33.85	Dalton Avenue to Livermore Junction	36"	595	595(1)	595	720
	115			Petaluma Gas Field	2"	450	675	675	675
1	*116	0.00	3,86	Davis Meter Station to Swingle					
1				Junction	8"	500	500	500	800
	*116	3.86	6.19	Swingle Junction to V-6.19	16"	500	800 (2)	800	800
	*116	6.19	12.89	V-6.19 to Sacramento Gas Plant	8"	500	500	500	720
اہا	*118	0.00	6.09	Division Gas Load Center to Fresno					
ด				Junction	8"	400	400	500	720
	118	0.00	0.66	Division Gas Load Center to Fresno					
m				HPU Station	12"	690	690	720	720
8	*118	5.86	12.57	Fresno Junction to MP 12.57	12"	400	400	720	720
8	*118	12.57	73.26	MP 12.57 to Livingston	8"	400	400	500	720
	118	0.00	38,39	Herndon to Athlone	12"	400	400	720	720
). DRAWING NUMBER	(1) _{Wher}	this s		" Line 114 was abandoned in 1977, the					

line No. 118 118		to MP		Diameter				
118		to MP		D TOTAL CET	MOP		Design	Design
		_	Description	(Inches)	psig	MAOP	Press.	Press.
118	73.26	74.89	Livingston to Collier Road	6"	400	720	720	720
	74.89	83.74	Collier Road to Bradbury Road	ŭ	400	720	120	720
			Regulator Station	6"	400	400	400	720
118	80,68	83.74	MP 80.68 to Bradbury Road	· ·		400	400	120
			Regulator Station	8"	400	720 (3)	720	720
118	83.74	84.69	Bradbury Road Regulator Station to	•		, _ ,	720	720
				6" 6 8"	500	890	99.0	890
119	0.00	3.85			300	050	050	0,70
			Junction	12"	792	792	800	800
119	3.85	4.85	Swingle Junction to MP 4.85	12"				720
119	4.85	11.14	MP 4.85 to MP 11.14	12"	500			720
119	11.14	11.35	MP 11.14 to MP 11.35	10"	500			720
119	11.35	16.46	MP 11.35 to N. Sacramento HPU	12"	500	520	800	720
119	0.00	10.17	N. Sacramento HPU to Antelope Meter				_	
			Station	12"	500	500	500	600
119	0.00	8.41	N. Sacramento HPU to Antelope Meter					
_			Station	6" & 16"	500	500	500	600
_				24"	180	180	545	545
				12"	500	500	500	600
119	0.00	5.25						
120								500
				4" & 6"	492	492	720	720
120				40 - 60				
121	0.00	11 54		4" & 6"	485	485	720	720
	0.00	11.54		C II	405	405		
			Tuba City APO	6"	485	485	720	720
(3) The	720 psi g	MAOP of the	nis new parallel section of Line 118 wa	s establish	ed by hy	drostatic	tests	
comp	leted on	2/4/75.						
	119 119 119 119 119 119 119 119 119 119	119 3.85 119 4.85 119 11.14 119 11.35 119 0.00 119 0.00 119 0.00 120 120 121 0.00 (3) The 720 psig	119	MP 84.69 (L-215 Tap) Parallel 119 0.00 3.85 Davis Meter Station to Swingle Junction 119 3.85 4.85 Swingle Junction to MP 4.85 119 4.85 11.14 MP 4.85 to MP 11.14 119 11.35 16.46 MP 11.35 to N. Sacramento HPU 119 0.00 10.17 N. Sacramento HPU to Antelope Meter Station 119 0.00 8.41 N. Sacramento HPU to Antelope Meter Station 119 0.00 2.80 N. Sacramento HPU to MP 2.80 119 4.6 5.5 Elm and Traction Avenue Regulator 119 0.00 5.25 Sonoma Avenue Regulator and Del Paso Boulevard to Roseville Regulator Station 120 Sutter Creek Field Collection System 121 0.00 11.54 Marysville Buttes Meter Station to Yuba City HPU (3) The 720 psig MAOP of this new parallel section of Line 118 wa	MP 84.69 (L-215 Tap) Parallel 6" & 8"	MP 84.69 (L-215 Tap) Parallel 6" & 8" 500	MP 84.69 (L-215 Tap) Parallel	MP 84.69 (L-215 Tap) Parallel 6" & 8" 500 890 890 119 0.00 3.85 Davis Meter Station to Swingle Junction 12" 792 792 800 12" 500 720 800 119 3.85 4.85 Swingle Junction to MP 4.85 12" 500 720 800 119 4.85 11.14 MP 4.85 to MP 11.14 12" 500 520 800 119 11.15 16.46 MP 11.35 to N. Sacramento HFU 12" 500 520 800 119 0.00 10.17 N. Sacramento HFU to Antelope Meter Station 12" 500 500 500 500 119 0.00 8.41 N. Sacramento HFU to Antelope Meter Station 12" 500 500 500 500 119 0.00 2.80 N. Sacramento HFU to MP 2.80 24" 180 180 545 119 4.6 5.5 Elm and Traction Avenue Regulator 12" 500 500 500 500 119 0.00 5.25 Sonoma Avenue Regulator and Del Paso Boulevard to Roseville Regulator Station 6" 180 500 500 500 120 Sutter Creek Field Collection System 4" & 6" 485 485 720 121 0.00 11.54 Marysville Buttes Meter Station to Yuba City HFU 6" 485 485 720 13 The 720 psig MAOP of this new parallel section of Line 118 was established by hydrostatic tests

LINES OPER	Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
OPERATING	123	0.00	13.57	Antelope Meter Station to Lincoln Junction	12"	500	500	670**	670**
a A	124	0.00	23.46	Lincoln Junction to 5th & Walnut, Marysville	8"	400	400	720	600
9	124	0.00	26.03	Lincoln Junction to Yuba City HPU	16"	600	600	600	600
ROVER	124	0.00	3.76	Beale Air Force Base Tap (T 13,31) to MP 3,76	6"	400	400	720	600
ġ I	125			Tompkins Hill Field Collection Syste		448	448	720	
20%	126	0.00	10.57	Tompkins Hill Meter Station to Union Street Regulator	4"	350	445	720	720 720
SMVS	126	0.00	10.89	Tompkins Hill Meter Station to Union Street Regulator	5" 6"	350	425	720	720
ñ	126	0.00	3,62	Elk River Road Regulator to T 12.38, Line 126	-	167	167	720	720
	*126	0.00	0.36	MP 0.00 to Eureka Propane	10"	167	167	720	720
1	126	10.89	12.61	Union Street Regulator to Line 137	6"	167	167	720	720
- 1	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	E. Rio Vista Field	12"	510	685	800	720
PG	131	0.00	9.19)" & 12"	720 (4) 510 (5)	720	720	720
ξe E	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
8	131	16.87	50.57	Brentwood Terminal to Irvington Station	24"	500	525	600	650
DRAWING NUMBER	Coll (5) _{The}	ection S	System. 510 psig who	en this section of L-131 is operated i	•				

LINES OPERATING	Trans. Line No.	MΡ	to	м₽	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Puture Design Press.
RAT	131	50.57		57.45	Irvington Station to Milpitas Termin	al 30"	590	595	650	650
ij	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	30", 36"	390	390 (6)	400	400
3	132	46.59		51.50	Martin Station to Potrero Plant	24"	145	145	275	275
	132	10.32		0.00,	-	24	143	143	275	2/3
မ္က	132	10.32		1.47	Avenue Station	16" & 24"	400	400	400	400
OVER	132	46.59		39.86	Martin Station to Geneva Avenue	20"	109	110	275	275
၌	133	40.55		37.00	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
20%	134	21.57		27.04	MP 21.57 to Arbios Meter Station	6"	500	500	720	720
	134	27.04		30.50	Arbios Meter Station to MP 30.50	6" & 8"	500	500	720	720
SYMS	134	27.04		34.13	Arbios Meter Station to Firebaugh	0 4 5	500	500	,20	,20
S.	154			34,13	Regulator Station	3" & 4"	500	500	720	720
1	136	0.00		2.64	Ord Bend Meter Station to MP 2.64	6"	479	565	720	720
3	136	5.14		12.89	MP 5.14 to Butte Station	6"	550	550	720	720
ı	*137	0.00		11.83	Whipple and Albee Streets, Eureka	v	330	330	,	,20
	10,	0,00		11100	to MP 11.83	4" & 6"	167	167	720	720
	137	3.58		7.37	Ryan Slough Regulator Station to		207	20,	. 20	,
		- •		. •	Arcata	8"	350	350	720	720
	138A	0.00		14.94	Helm Tap Station to Helm Junction	16"	800 (7)	862	862	862
1_1	138B	0.00		14.71	Helm Tap Station to Helm Junction	20"	700	700	800	890
PG	138	14.71		22.04	Helm Junction to Elkhorn Station	18"	800 ⁽⁷)	865	865	890
	138	20.50		22.04	Elkhorn Station to Burrel Meter					
IM.					Station	18"	650	650	865	720
8	138	22.04		38.59	Burrel Meter Station to Adams &					
8					Elm Meter and Regulator Station	16 "	650	650	720**	720**
٥										
DRA	(6) _{Revi}	sed to	confo	rm to d	locumented records.					
DRAWING NUMBER	(7) _{This}	sectio	n of	L-138/I	138A has a 700 psig MOP when operati	ng in conjunc	tion wit	h 20" L-1	1388.	

LINES OPI	Trans Line	МФ	to	MP	Description	Di	Vominal Pipe Lameter	PG&E MOP		Design	Future Design
RA.	No.	<u> MP</u>	το	MP	Description	_ (1	(nches)	<u>psig</u>	MAOP	Press.	Press.
OPERATING I	138	38,59		49.42	Adams & Elm Meter Station to San Joaquin Division Gas Load Center	100	,12" & 1 6"	650		700	700
AT OR	138	43.58		50,02	T 43.58 to Chestnut & Clay	10.,			650	720	720
					Regulator Station		16"	650	650	720	720
OVER	138 141E	45.10		46.64	MP 45.10 to Peach Avenue Thornton Meter Station to E		10"	650	720	720	720
20%	141W				Thornton Field Collection System Thornton Meter Station to W.		" & 6"	538	538	800	800
SYMS	*141				Thornton Field Collection System N.E.River Island & Walnut Grove		" - 10"	768	768	800	800
S	142N	0.00		14.05	Field Collection System Bakersfield Tap to Bakersfield Meter Station		' & 8" ,16",20"	768 475	768 475	800 720	800 720
i	142S	0.00		9.00	Gosford Road Meter Station to Brundage Lane Regulator		' & 10"	600	600	720	720
	*142	9.00		11.47	Brundage Lane Regulator to Bakersfield Meter Station		" & 12"	300	300	720	720
	*143 144	0.00		3.50	Millar Field Collection System Millar Meter Station to Millar	_	' & 4"	792	800	800	800
.,	145				Field Maine Prairie Field Collection	10'	" & 12"	792	796	800	800
G & E	146	0.00		6.00	System Maine Prairie Meter Station to	3",	, 4", 6"	510	796	800	800
	147	0.00		3.39	Maine Prairie Field Edgewood Road Crossover to San		8"	510	796	800	800
6	148	0.00		17.63	Carlos Regulator Station McMullin Ranch Mixer Station to	20'	' & 24"	400	400	400	400
					Morgan Road Station		8"	408	408	720	720
DRAWING N	149				Winters Field Collection System	4'	' & 6"	750	750	800	800
DRAWING NUMBER											

닭	Lin e No.	MP	to MI	D escrip tion	Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
>	1100		_		(21101100)	<u> P319</u>	11101	11000.	11000.
ON THE AGE OF	150	0.00	18.0	Winters Meter Station to Davis Meter Station	6"	750	750	800	800
	151	0.42	14.0		ь	750	/50	800	800
ă	202	••		Regulator Station	6"	250	250	720	720
3	152	0.00	0.4						
				Station	6"	250	250	720	720
O STATE	153	0.00	18.0	O Irvington Station to Marina Bouleva					
				Station	30",32",34"	420	420	500**	500**
ž	*153	18,00	27.8						
				Market Streets	24" & 30"		246	275	275
CMVC	153			Tap to 50th Avenue Holder Station	16" & 20"	246	246	275	275
ñ	153			Tap to Oakland Holder Station	20"	246	246	275	275
1	153			Alvarado Crossover to Line 105	16"	246	250	500**	500**
1	*153			Fairway Avenue Crossover to Line 10		150	198	542	500
- 1	155			Durham Field Collection System	4"	680	680	800	800
	156	0.00	5.7		ć II		500	000	000
	158	4.90	13.6	Station	6"	680	680	800	800
	130	4.90	13.6	5 Dunnigan Hills Field to Dunnigan Hills Meter & Regulator	6"	500	564	800	800
	*158			Woodland Field Collection System	3" & 4"	500	564	800	800
	159	0.00	0.6		3 04 4	500	504	000	000
י ד	133	0.00	0.0	to V 0.65	4"	975	975	1000	975
ଜ	159	0.65	3.9		•	3.3	2.3	2200	
ξe Qe			-•-	Station	4"	975	975	1000	975
	159	3.91	6.0		·				
8				Winters Meter Station	4"	750	750	800	800
	159			Winters Field Collection System	4"	750	750	800	800
8									
يسمح									
믉									
}									
AWING N				·					
) <u>z</u>									
DRAWING NUMBER									

LINES OPERATING		_					Nominal				
OPE		Trans. Line					Pipe Diameter	PG&E			Future
H H		No.	MP	to	MP	Description	(Inches)	MOP psig	MAOP	Design	Design
ᅜ	- 1	NO.	PIE	to	<u> </u>	Descripción	(Inches)	bara	MAOP	Press.	Press.
Ã		*162	0.00		7.73	Tracy Station to Banta Regulator					
Z	1				. •	Station	6" & 8"	365	365	720	720
		162	0.00		6.61	Tracy Station to Holly Road	10"	365	720	720	720
AT		164	•		• •	Coalinga Field Collection System	10" & 8"	498	498	865	890
OR.		167	0.00		34.50	E. Beehive Bend Odorizer Station					
						to Yuba City HPU	12" & 16"	800	800	800	800
OVER		167	0.00		4.60	Wild Goose Field Meter to Wild Goose Mixer & Odorizer					
20%						Station (Parallel)	10"	800	800	800	800
		167	4.60		6.54	Wild Goose Mixer to Gridley					
SXMS	1					Junction	8"	800	800	800	800
છે	- 1	167 167	4 10		~ ~~	Wild Goose Collection System	3" & 4"	800	800	800	800
	ı	167	4.12		7.60	Princeton Field Collection System	3"	800	800	800	800
Ĭ		167				Compton Landing Field Collection	3	800	800	800	800
		107				System	4" & 6"	800	800	800	800
		167				Bounde Creek Field Collection		355	000	000	555
i						System	4"	800	800	800	800
ωT	_	168				River Island Field Collection					
SHEET	ا,					System HP	4", 6", 8"	800 720 (8)	800	800	800
12	ด	168				River Island Field Collection					
	ÇΦ					System LP	3" - 8"	698	698	800	800
	П	169				Beehive Bend, Willows, Llano					
3	8					Seco & Perkins Lake Field					
오	~ I	172	0.00		co o1	Collection System W. Beehive Bend Meter Station to	3" - 20"	800	800	800	800
30 SHEETS		1/2	0.00		69.81	Swingle Junction	18" & 20"	800	800	800	800
ξ						Swingle Junction	10. % 20	800	800	800	800
086868	DRAWING NUMBER	(8) _{The}	MOP of	Line	168 sha	11 be 720 when operated in conjunc	tion with Line	e 131.			
₽											
	쮼										

	Trans	s.			Nominal Pipe	PG&E			Future
	Line No.	MP	to MP	Description	Diameter (Inches)	MOP psig	MAOP	Design Press.	Design Press.
	172	69.81	79.51	Swingle Junction to Sacramento					
	172	0.00	0.60	Gas Plant Crosstie Between Line 172 and	16"	500	520	720	720
	172	75.45	9.68	Line 167 Crosstie Between Line 172 and	10"	800	800	800	800
	*173	0.00	17.56	Line 119	12"	500	520	720	720
9		0.00	17.56	Line 123 (V 6.51) to Aurburn Regulator Station	4" 6" 8"	500	500	720	720
	*174 176			Aurbuckle Field Collection System Roberts Island Field Collection	2" - 10"	800	800	800	800
	176	0.00	18.85	System Roberts Island Field to Tracy	2" - 8"	500	555	800	800
•	177	0.00	0.87	Station Sacramento Avenue Junction to	6" & 8"	500	555	800	800
1		•		Grapeway Regulator Station	10"	819	819	960	960
	177	0.86	7.13	Grapeway Regulator to Butte Station	6" & 10"	469	469	600	600
ᅵ	177	0.00	4.75	Fell Regulator & Odorizer to Sacramento Avenue Junction	16"	819	819	960	960
. 1	177	4.75	29.09	Sacramento Avenue Junction to Corning N. Dome Station	10"	819	819	960	960
P G	177	0.00	2.19	Tap 27.60 to Tap 29.87 Parallel		-	_		
ξο ITI	177	29.09	37.84	Section Near Corning N. Dome Corning N. Dome Station to Gerber	6" & 8"	819	819	960	960
8	177	37.84	163.04	Compressor Station Gerber Compressor Station to	12"	819	819	960	960
				Cummings Creek PLS	12"	819	819	960	960
-									
AWING									
DRAWING NUMBER								•	

<u>۽</u> ۾								11-11-11-11-11-11-11-11-11-11-11-11-11-	and the second s	
1-4344 Rev 1	LINES OPERATING	Tran Line No.	-	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	маор	Design Press.	Future Design Press.
1-76	RAT	177	163.04	178.18	Cummings Creek PLS to Tompkins					
ı	ING				Hill Meter & Regulator Sta.	12"	430	430	720	720
	AT	177	178.18	192.29	Tompkins Hill Meter & Regulator Station to Ryan Slough					
	OR' OVER	177	37.8	149.18	Regulator Station Crosstie Between Lines 177 and	12"	350	425	600	600
Ì	WER	177	43.87	1.24	Line 400 Tap to Red Bluff and Diamond	12"	819	819	960	960
	20%	177			National Rancho Capay Field Collection	6"	819	819	960	960
ì					System	4"	819	819	960	960
	SYMS	179 180			Corning Field Collection System Kettleman Hills Field Collection	6"	819	819	960	960
					System	8" - 20"	421	421	500	500
		181A 181A	0.00 6.19	1.56 20.15	Soap Lake Meter Station to V 1.56 V-6.19 to Watsonville Meter	10"	300	300	400	400
ı		181B	0.00	10.85	Station Anzar Road Meter and Regulator to	10" & 12"	300	303	400	400
ľ	ξ	*182			Watsonville Meter Station	10",16",20"	400	400	400	400
I	SHEET	182	0.00 16.77	16.77 18.23	Serpa "Y" to V-81 V-81 to Shell Chemical Meter Station	4" - 12"	400	435	800	800
	G & E	*182	18.23	18.87	Shell Chemical Meter Station to	4" - 12"	435	435	800	800
ē	30 60	182			Suisun Junction Meter Station Kirby Hills Field Collection	12"	435	435	600	800
ı	္ဆိုပါ	182			System	3" - 8"	435	435	800	800
	SHEETS	162			Suisun Field Collection System	2" - 6"	435	435	800	800
MICROFILL										
	DRAWING NUMBER 086868									
	○ ₹						New York Williams		1 704 - N. W. W. 11 - 12	

LINES C	Trans Line	٠.				Nominal Pipe Diameter	PG&E MOP		Design	Future Design
PER	No.	<u>MP</u>	to	<u>MP</u> _	Description	(Inches)	psig	MAOP	Press.	press.
OPERATING	183	0.00		6.35	Firebaugh Regulator Station to Moffat Field Meter Station	3*	175	320	800	800
ΑŢ	186	0.00		26.1	Dos Palos Meter Station to Red Top Regulator	3" 4" 6"	500	625	720	720
ନ୍ଥ	186	26.1		29.4	Red Top Regulator Station to					
OVER	187	0.00		22.58	Chowchilla Field San Ardo Field Meter Station to	2" 3" 4"	500	960	960	960
20%	187	22.58		65.70	Jolon Road Regulator Station Jolon Road Regulator Station to Harkins Road Meter & Mixer	6"	313	313	720	720
SYMS	189	0.00		1.72	Station Elk River Road Regulator Station	8"	313	313	720	720
۳ ا					to Humboldt Bay P.P.	10"	350	425	720	720
	190	0.00		16.08	Kettleman Compressor Station to Coalinga Nose Storage Field	12" & 16"	2160	2160	2160	2160
	190	16.08		16.22	Coalinga Nose Storage Field to Union Oil Company	16"	2160	2160	2160	2160
<u></u>	191	0.00		3.86	Antioch Terminal to Antioch Town Meter Station	30" & 34"	315	600	600	600
Taaws	191				Antioch Town Meter Station Cross Tie	16"	315	600	600	600
ភេត	191	3.87		9.93	MP 3.87 to MP 9.93 Via Pittsburg Power Plant	20" & 24"	315	390	600	600
유 유	191	9.93		25.30	MP 9.93 to Reliez Station Road					
3 8	*191	25.30		29.36	Regulator Station Reliez Station Road Regulator	16" 20" &24"	315	338	600	600
SHEETS					Station to Junction L-191	8" 10" & 12"	268	283	400	400
DRAWING NUMBER 086868										

LINES OPERATING	Trans Line No.	MP.	to	MP_	Descripțion	Nominal Pipe Piameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
Z I	*191	29.36		32.76	Junction Line 191 to MP 32.76	10"	268	270	400	400
Z	*191	32.76		35.83	MP 32.76 to Martinez Meter and					
					Regulator Station	10"	268	268	400	400
ΑT	*191A				Junction Line 191 to Ardilla and					
유					Camino Pablo & Orinda Regulator					
					Station	3" 6" & 8"	268	283	400	400
OVER	*191B	0.00		1.53	Junction Line 191 to Reliez Valley					
					Road Regulator Station	8"	268	283	400	400
20%	193				Rice Creek Field Collection System		819	960	960	960
	193				Malton Field Collection System	4",6",8"	819	960	960	960
SMYS	193				Kirkwood & Rice Creek Field					
SS I					North Collection System	6"	819	819	960	960
J.	194	0.00		4.39	McMullin Field Dehydrator Station					
ı	10.4				to California Ammonia Company	6"	437	437	960	960
	194				McMullin Ranch Field Collection	2" - 10"		40		
	105				System	2" - 10"	437	437	800	008
	195				Rio Vista Field Collection System	2" - 16"	800 720 ⁽⁹)	800		
	*195				(HP)	2" - 16"	/2015/	800	800	800
	*195				Rio Vista Field Collection System	2" - 16"	510	510	200	500
	196	0.00		13.45	(LP) Las Vinas Station to Isleton	2" - 16"	210	210	800	800
T	156	0.00		13,43	Meter Station	8" & 12"	800 (9)	800	800	800
ត	197A	0.25		21.41	Las Vinas Station to MP 21.41	10"	385	388	720	720
20	197A	21.41		31.23	MP 21.41 to MP 31.23	10" & 12"	320	720 (10)	720	720
1	197A	31.23		39.57	MP 31.23 to MP 39.57	12"	320	320	720	720
8	197A	39.57		41.78	MP 39.57 to Calaveras Cement	8"	320	320	720	720
DRAWING NUMBER	(10) _{Af} th MA	ter re at the OP of	viewi 500 720 p	ng recor psig lim sig. The	n of line is 720 psig when it is open as and the requirements of Section of Latation of this section of L-197A di to 720 psig MAOP of this section of L and 7/23/69.	92.619 of G. d not exist,	0. 112-C, and the	it has be section of	en determ Line has	an

4	Trañs	· .				Nominal Pipe	PG&E			Future
	Line No.	MP	to	MP _	Description	Diameter (Inches)	MOP psig	MAOP	Design Press.	Design Press.
	197B	0.25	i	5.50	Las Vinas Station to MP 5.50	6"	385	388	720	720
	197B	21.47		31.24	V 21.47 to V 31.24	8"	320	320	720	720
:	197C	17.44		23.02	Ione Tap to MP 23,02	10"	385	720	720	720
	199 200				Bunker Field Collection System W. Rio Vista Field Collection	3" - 8"	792	796	800	800
	*2 00				System (HP) W. Rio Vista Field Collection	2" - 16"	800 (9)	800	800	800
	200				System (LP) W. Rio Vista Field Collection	2" - 16"	510	510	800	800
	200				System (30 psig) Liberty Islands Field Collection	3" - 10"	400	510	800	800
•					System	4"	800 720 ⁽⁹)	800	800	800
ı	200				Lindsay Slough Field Collection System	3" - 10"	800 (9)	868	960	960
ı	201				Todhunters Lake Field Collection System	2" - 12"	792	960	960	960
	202	0.00		23.72	Grass Valley Tap to Regulator Station near Robin Avenue,					
٦	203				Grass Valley Greens Lake Field Collection	6" & 8"	400	720	720	600
G Q	204				System Cheney Ranch Field Collection	4"	500	800	800	800
ш	206				System Pleasant Creek Tap to Pleasant	3" & 4"	500	890	890	890
CO.	207				Creek Compressor Station Conway Ranch Field Collection	12"	975	1440	1440	1440
DRAW					System	4", 6", 8"	800	1000	1000	1000
DRAWING NUMBER	(9) _{The}	MOP o	f thi	s sectio	on of line is 720 psig when it is op	erated in co	onjunction	with L-l	31.	

LINES		Tran Line					Nominal Pipe Diameter	PG&E MOP		Design	Future Design
OPERATING	1	No.	_ <u>MP</u>	to	MP	Description	(Inches)	psig	MAOP	Press.	Press.
ER	1	208				Union Island Field to Lathrop					
Ħ	- 1					Dehydrator Station	12"	825	1000	1000	1000
ลี	ı	209				Line 400 to Line 128 at Willows	4"	479	720	720	720
Ą	- 1	210	0.00		1.40	Rio Vista "Y" to Creed Station	16"	737	800	800	800
	- 1	210	1.40		25.98	Creed Station to Napa "Y"	16" & 18"	650	650	740	720
OR R	ı	210	1.40		19.47	Creed Station to Cordelia Regulat					
OVER	1					Station	32"	650	675	675	675
喜		210	19.47		25.62	Cordelia Regulator to Napa "Y"	10" & 12"	650	650	800	800
	B	210	0.00		1.36	Rio Vista "Y" to Creed Station	10"	650	650	800	800
20%	- 1	210	19.47		32.11	Cordelia Regulator to Herrmann	~ * "				
	- 1	210	0.00		3.7	Station V 27.67 to Exxon Oil Meter	24"	650	675	675	675
SYYS	- 1	210	0.00		3./	V 27.67 to Exxon OII Meter Station	18"	650	720	720	675
on	- 1	212				Tremont Field Collection System	4" & 6"	792	800	800	800
		215	0.00		20.05	Oak Flat Road Meter to West		,,,,	000	000	000
	- 1					Avenue Regulator Station	12"	500	890	890	890
	ı	220	0.00		2.41	Rio Vista "Y" to Maine Prairie					
	- 1					Meter Station	16"	792	800	800	800
φT	┥	220	0.00		2.41	Rio Vista "Y" to Maine Prairie					
SHEET	- 1					Meter Station	10"	510	796	800	800
	⊸	220	2.41		22.01	Maine Prairie Meter Station to					
18	ର					Davis Meter and Regulator		792	796		
위	Я° m	220	22 21		24.46	Station	8",10",12"	/92	/96	800	800
		220	22.01		34.46	Davis Meter & Regulator to Dunniqan Spreckels Regulator					
ĕ١	8					Station Station	6" & 8"	500	500	500	800
일	.					Station	0 & 0	300	300,	500	000
30 SHEETS	- 1										
S.	⊣ i										
	유										
8	DRAWING NUMBER										
086868	3										
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LINES OPERATING AT OR	NO. MP 300A 0.0	0 0.64	Description Colorado River to Topock Compressor Station	(Inches)	MOP psig	MAOP	Design Press.	Design Press.
AT OR	300A 0.6							
AT OR		4 40.87	Compressor Station					
ଚ୍ଛ			Topock Compressor Station to	30" & 34"	660	700	700	700
			PLS la	34"	867	867	890	890
	300A 40.8	-	PLS lA to PLS 2A	34"	815	815	815	815
	300A 103.7		PLS 2A to PLS 2AX	34"	688	688	688	688
₽ [300A 130.3	7 159.33	PLS 2AX to Hinkley Compressor					
OVER	2			26" & 34"	573	573	573	573
	300A 159.3	3 203.02	Hinkley Compressor Station to					
20%	2002 002 0		PLS 3A	34"	861	861	890	890
ស	300A 203.0		PLS 3A to PLS 4A	34"	803	817	817	817
SYMS	300A 256.2		PLS 4A to PLS 5A	34"	736	757	757	757
ω .	300A 299.0	1 353.85	PLS 5A to Kettleman Compressor					
- 1			Station	34"	669	688	688	688
1	300A 353.8	5 436.74	Kettleman Compressor Station to					
			PLS 6A	34"	840	840	890	890
	300A 436.7		PLS 6A to Pacheco Pass PLS	34"	715	715	715	715
	300A 461.0	7 490.65	Pacheco Pass PLS to PLS 7A Silver					
П			Creek	34"	631	631	715	715
	300A 490.6		PLS 7A to Milpitas Terminal Statio		558	558	676	676
T 70 P	300B 0.00	0.45	Colorado River to Topock Compresso					
ด			Station	34"	660	660	735	735
ξe [H	300B 0.45	40.49	Topock Compressor Station to PLS					
			1B	34"	867	867	894	894
8	300B 40.4		PLS 1B to PLS 2B	34"	815	821	821	821
	300B 103.5		PLS 2B to PLS 2BX	34"	688	688	688	688
ı	300B 130.4	0 161.02	PLS 2BX to Hinkley Compressor					
			Station	34"	573	573	573	573

LINES O	Trans. Line No.		to MP	Description	Nominal Pipe Diameter	PG&E MOP	12.00	Design	Future Design
PERAT	NO.	<u>MP</u>	- <u>MP</u>	Description	(Inches)	psig	MAOP	Press.	Press.
OP ERATING	300в	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
ΑŢ	300в	256.64	299.00	PLS 4B to PLS 5B	34"	736	75 7	757	757
	300B	299.00	354.02	PLS 5B to Kettleman Compressor		,,,,			737
윷	1	•		Station	34"	669	688	688	688
9	300B	354.92	436.85	Kettleman Compressor Station to	J-1	003	000	000	000
OVER				PLS 6B	34"	840	840	890	890
	300в	436.85	461.08	PLS 6B to Pacheco Pass PLS	34"	715	715	7 1 5	715
20%	300B	461.08	490.92	Pacheco Pass PLS to PLS 7B Silver	3.	713	,13	, 13	,13
	_	•		Creek	34"	631	631	715	715
SXMS	300B	490.92	502.64	PLS 7B to Milpitas Terminal Station		600	600 (11)	669	669
ťλ	301G	0.00	24.68	Hollister Meter Station to Moss					000
1				Landing Power Plant	24" & 30"	500	500	500	500
	301A	0.00	24.84	Hollister Meter Station to Moss					500
1				Landing Power Plant	20"	396	396	500	500
1	301B	0.00	14.02	Dolan Road Meter Station to					200
				Hilltown Regulator Station	12"	408	408	600	500
	*301C	14.02	17.20	Hilltown Regulator Station to					
盖				Harkins Road Meter and Mixer					
P G SHEET 20	ł			Station	8" & 12"	313	313	500	500
P G	*301F	0.00	7.94	Espinosa Road to Marina Regulator					
1 4	1			Station	16"	408	412	412	412
유유	*301E	0.00	1.02	Crosstie - Monterey #2 to Main 301	12 ⁿ	408	408	500	500
	301D	0.00	1.72	Anzar Tap Station to Anzar Road					
30 6	,			Meter & Regulator Station	10"	500	500	500	500
SHEETS	301H	0.00	1.72	Anzar Tap Station to Anzar Road					
13	l.			Meter & Regulator Station	16"	500	500	500	500
	Į			•					
DRAWING NUMBER 086868	(11) _{Ré}	evised t	o conform t	to documented records.					
	4								
0 7									

T THE COLOR	Trans. Line No.	MP	to MP	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Desing Press.	Future Design Press.
	302			Sutter Buttes, W. Butte, Butte Slough, Grimes, Sycamore, Kirk,					
	302	0.00	5.76	Moon Bend & Buckeye Field Collection System Buckeye Creek PLS to Hershey	2" - 20"	1000	1000	1000	1000
	303	0.00	7.95	Junction Antioch Terminal to Brentwood	20"	975	975	1000	975
				Terminal	36"	720	720	720	720
	303	7.95	11.97	Brentwood Terminal to Vasco Road	36"	725	793 (11		864
	303	11.97	20.43	Vasco Road to Dalton Avenue	36"	725	776 (11		864
:	303	20.43	25,54	Dalton Avenue to Livermore Junction	ı 36"	725	864 (11	^{C)} 864	864
	303	25.54	36.56	Livermore Junction to Sheridan Road PLS	36"	725	731 (11)	d) ₈₇₇	877
1	303	36.56	42.86	Sheridan Road PLS to Irvington	36"	590	590	600	877
- 1	304	0.00	11.29	Tracy Station to Lathrop Dehydrator	•				
				& Odorizer Station	12"	825	825	825	825
- 1	304			Lathrop Field Collection System	3" - 12"	825	825	825	825
4	306	0.00	43.3	Kettleman Compressor Station to Dry Creek PLS	20"	840	840	840	840
	306	43.3	70.02	Dry Creek PLS to Morro Bay Power					
╗				Plant	20"	650	650	840	840
o Re	307	0.00	16.36	Spreckels Sugar Meter Station to Spreckels Sugar Regulator	8"	500	500	915	890
E C0	307	12.05	16.92	Derrick Road Tap to Arbios Regulator Station	8"	500	890	915	890
8	311	0.00	54.44	Main 300 (V 180.64A) to Westend Primary Regulator Station	10" & 12"	700	700	960	890
₩0	(lla)	he 793	psig MAOP o	f this Section of L-303 was establish	ned by hydro	static t	est comple	ted on ll	/23/66.
DRAWING NUMBER				f this Section of L-303 was establish					
· 21									

LINES OPERATING	Trans Line No.	MP	to .	MP _	Description	Nominal Pipe Diameter (Inches)	PG&E MOP psig		Design Press.	Future Design Press.
TING	311 312	31.97 0.00		8.49 8.00	Parallel Section to MP 38.49 Line 300A (T 273.27) to Paloma	12"	700	810	960	890
AT	313	0.00	3	4.4	Field Meter Station Lucerne Valley Tap Meter Station	8"	736	740	820	820
OR O	314	0.00	2	4.19	to Permanente Company Meter Hinkley Compressor Station to	8" & 10"	573	573	720	720
OVER					MP 24.19	12"	861	861	890	890
R 20%	*314 *314	24.19 29.00		9.00 3.18	MP 24.10 to MP 29.00 MP 29.00 to Black Mountain Meter	10"	293	293	720	720
					and Regulator Station	8" & 10"	293	293	720	720
SXMS	*314				Tap to Riverside Cement	8"	293	293	720	720
SS.	*314 *316				Tap to Airbase Road Meter Station Dutch Slough & River Break Field	8"	293	293	720	720
ı	317				Collection System Chickahominy Field Collection	2" - 12"	800	800	800	800
ſ	318				System Black Butte Field Collection	3"	975	975	975	975
	331				System Santa Nella Tap to Tri Valley	3"	911	911	96 0	960
7					Growers	4" & 6"	500	890	890	890
	334				Poppy Ridge Field	4"	412	490 (12)		800
្ន	336 372	0.00	3	3.7	Harte Field Collection System Ridgecrest Tap to Ridgecrest	3"	412	800	800	800
ន្ត្រ	400	0.00	24	4.60	Primary Regulator California-Oregon Border to	6"	700	700	960	960
SHEETS					Tionesta Compressor Station	36"	911	911	911	911
DRAWING NUMBER	(12) _L	ine 334	is a ne	ew lin	e. The 490 psig MAOP was establish	ned by hydro	static te	ests comple	ted on 3/	27/78.

	Trans Line					Nominal Pipe Diameter	PG&E MOP		Design	Future Design
	No.	<u>MP</u>	to M	· -	Description	(Inches)	<u>psig</u>	MAOP	Press.	Press.
	400	24.60	48.6	4 :	Fionesta Compressor Station t	В				
					Indian Springs PLS	36"	911	911	911	911
	400	48.64	82.3	3 :	Indian Springs PLS to Burney					
					Compressor Station	36"	911	911	911	911
	400	82.33	104.	0 1	Burney Compressor Station to					
					MP 104.20	36"	911	911	911	911
		104.20	115.		MP 104.20 to Shingletown PLS	36"	911	915	942	942
	400	115.26	149.	18 8	Shingletown PLS to Gerber					
	40.				Compressor Station	26" & 36"	911	911	911	911
	400	149.18	180.7	7 (Gerber Compressor Station to					
	4000	180.77			V-180.77	24" & 36"	911	911	911	911
' I	400A	100.77	197.8	י בי	V 180.77 to Delevan Compresso. Station					
ı	4005	180.76	197.		Station MP 180.76 to Delevan Compress	36"	911	911	911	911
•	4008	100.70	197.	2 1	Station State of the Delevan Compress	or 36"	911	911	911	911
ı	400	197.72	233.8		Station Delevan Compressor Station to		911	911	911	911
	400	137.72	233.0	, 1	Buckeye Creek PLS	36"	1040	1040	1040	1040
	400	233.87	298.8	27 1	Buckeye Creek PLS to Antioch	36	1040	1040	1040	1040
_	400	233.07	200.0	,, ,	Terminal	26" & 36"	975	975	975	975
	402	0.00	9.9	6 1	Redding-Calaveras Tap to PLS	12"	300	300	865	865
	402	9.96	38.		PLS to Calaveras Cement Tap	8".10" & 12"	300	300	720	720
PG	403	0.00	1.3		Rio Vista "Y" to Creed	- ,				
8					Station	16"	650 ⁽¹³⁾	800	855	800
E CO DRAWING NUMBER	*Ind	licates (that line	or se	O when operated in conjunction ections of line are under 20% as the maximum pressure for to 112-C for Type 3 construction	SMYS, but are l	thickness		-	-

LINES OF	Location	Nominal Pipe Diameter (Inches)	PG&E MOP Psig	MAOP	Design Press.	Future Design Press.
OP ERA	COAST VALLEYS DIVISION					
OPERATING AT	Monterey #1 - Harkins Road Meter & Mixer Station to Fig-Frank Streets Regulator Station Monterey #2 - Fort Ord to Fig-Frank Streets Regulator	8" & 12"	313	313	500	400
Я Э	Station Monterey (V-18.65 to Carmel V-2.13) Aquajito Road	10" 12" 16"	313	313	400	400
OVER	Regulator Station Harkins Road Meter and Mixer Station to MP 2.45	8" & 10" 8" & 10"	313 313	313 313	500 500	400 500
20%	MP 2.45 to MP 3.50	8" 8"	313	313	500	500
SXWS &	MP 3.50 to California Street Regulator Station Salinas Main - Foster Road to San Miguel Avenue	8"	313 313	313 313	500 500	500 500
SA	DFM-6 Espinosa Road Main from 301-B, V-3.18 DFM-7 Union Carbide Main from 187, MP 17.42	6" 3"	408 313	500 313	720 720	500 870
	DFM-8 Paradise Road to Meridian Road Main	4" & 6"	500	500	720	500
	COLGATE DIVISION					
P C SHEET 24	Yuba City HPU Holder to Market Street Regulator Pit	6" & 8" 6"	135	135	400	400
P G	Tap to Schohr Ranch Tap to Strain Ranch Dryer	4"	250 800	250 800	720 800	720 800
OF 30	DE SABLA DIVISION					
SHEETS	Butte College Tap Orland Tap from L-177 to Second Stage Regulator	3" & 4" 6"	400 490	720 4 90	720 720	720 720
DRAWING NUMBER						
UMBER						
0						

DRUM DIVISION Diamond Caks Feeder EAST BAY DIVISION Avon Power Station Feeder Lion Oil Company Feeder Nichols Road Tap Pacific States Steel Feeder	6" 8" & 12" 12"	500 315	500	500	600
EAST BAY DIVISION Avon Power Station Feeder Lion Oil Company Feeder Nichols Road Tap	8" & 12" 12"			500	600
Avon Power Station Feeder Lion Oil Company Feeder Nichols Road Tap	12"	315			
Lion Oil Company Feeder Nichols Road Tap	12"	315			
Nichols Road Tap			338	600	600
		315	338	600	600
Pacific States Steel Feeder	4"	315	338	600	600
Warm Chringe Reeder					500
					600 600
	_				275
					600
					600
					275
San Ramon Feeder					600
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	720	720
	6" 8" 10"	315	338	600	600
	3" & 4"	867	867	867	867
					400
Atlas Road Feeder	8"	400	400	400	400
	Warm Springs Feeder Port Costa Feeder 50th Avenue Holder Feeder Off Line 105 Pittsburg Town Feeder Concord Feeder to Alpha Beta Regulator Oleum Steam Plant Tap San Ramon Feeder Standard Oil Feeder Rodeo Feeder Concord Feeder	Warm Springs Feeder 2" & 4" Port Costa Feeder 6" 50th Avenue Holder Feeder Off Line 105 Pittsburg Town Feeder 12" Concord Feeder to Alpha Beta Regulator 6" & 8" Oleum Steam Plant Tap 8" 10" 12" 16" San Ramon Feeder 16" Standard Oil Feeder 22" Rodeo Feeder 6" & 8" Concord Feeder 6" & 8" Concord Feeder 6" 6" & 8" Danville Feeder 6" Danville Feeder 6" Discovery Bay Feeder - From Line 57A to Secondary Stage Regulator (Bixler Road) 3" & 4" Discovery Bay Feeder - From Bixler Road Regulator to Pt. of Timber Regulator 4" 6" 8"	Warm Springs Feeder 2" & 4" 465 Port Costa Feeder 6" 315 50th Avenue Holder Feeder Off Line 105 16" & 20" 150 Pittsburg Town Feeder 12" 315 Concord Feeder to Alpha Beta Regulator 6" & 8" 315 Oleum Steam Plant Tap 8" 10" 12" 16" 250 San Ramon Feeder 16" 500 Standard Oil Feeder 22" 400 Rodeo Feeder 6" & 8" 204 Concord Feeder 8" 10" 12" 170 Antioch Feeder 6" 8" 10" 12" 170 Antioch Feeder 6" 8" 10" 315 Danville Feeder 6" 8" 10" 315 Discovery Bay Feeder - From Line 57A to Secondary Stage Regulator (Bixler Road) 3" & 4" 867 Discovery Bay Feeder - From Bixler Road Regulator to Pt. of Timber Regulator 4" 6" 8" 400	Warm Springs Feeder 2" & 4" 465 465 Port Costa Feeder 6" 315 338 Soth Avenue Holder Feeder Off Line 105 16" & 20" 150 198 Pittsburg Town Feeder 12" 315 338 Concord Feeder to Alpha Beta Regulator 6" & 8" 315 600 Oleum Steam Plant Tap 8" 10" 12" 16" 250 250 San Ramon Feeder 16" 500 500 Standard Oil Feeder 22" 400 400 Rodeo Feeder 6" 8 " 204 204 Concord Feeder 8" 10" 12" 170 170 Antioch Feeder 6" 8" 10" 12" 170 170 Antioch Feeder 6" 8" 10" 315 338 Discovery Bay Feeder - From Line 57A to Secondary Stage Regulator (Bixler Road) 3" & 4" 867 867 Discovery Bay Feeder - From Bixler Road Regulator to Pt. of Timber Regulator 4" 6" 8" 400 400	Warm Springs Feeder 2" & 4" 465 465 500 Port Costa Feeder 6" 315 338 600 50th Avenue Holder Feeder off Line 105 16" & 20" 150 198 275 Pittsburg Town Feeder 12" 315 338 350 Concord Feeder to Alpha Beta Regulator 6" & 8" 315 600 600 Oleum Steam Plant Tap 8" 10" 12" 16" 250 250 250 275 San Ramon Feeder 16" 500 500 500 Standard Oil Feeder 22" 400 400 400 400 Rodeo Feeder 6" & 8" 204 204 400 Concord Feeder 8" 10" 12" 170 170 600 Antioch Feeder 6" 8" 10" 315 338 600 Danville Feeder 6" 8" 10" 315 338 600 Discovery Bay Feeder - From Line 57A to Secondary 3" & 4" 867 867 867 Stage Regulator (Bixler Road) 3" & 4" 867 867 867 Discovery Bay Feeder - From Bixler Road Regulator 4" 6" 8" 400 400 400 400

NORTH BAY DIVISION STATE NORTH BAY DIVISION NORTH BAY DIVISION	Cotati Feeder 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 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 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-4.63 8" 450 500 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 720 *Sacramento Division Gas Load Center to North Sacramento 8" & 12" 260 260 275 275 16" L-108 to Florin Road Primary 6" & 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" & 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 L-108 to Elk Grove Primary 4" 4" 4" 4" 500 500 500 500 Hunts Feeder Main 6" 500 500 500 500 500 500 Gibson Feeder Main 6" 500	LINES O	Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
12" Line 21 (V-16.15) to Fine Street Meter Station	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" 450 500 675 675 675 68" Sonoma Tap Line 6" 450 500 675 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 675 675 675 675 675 675 675	PER I	NORTH BAY DIVISION					
12" Line 21 (V-16,15) to Fine Street Meter Station 8" 450 500 675 12" Line 21 (V-16,15) to Kilburn Regulator Station 10" 450 500 675 Kilburn Regulator Station to Rutherford 8" & 10" 450 500 675 6" Sonoma Tap Line 6" 450 500 675 Tap to Kaiser Steel East of Napa River 4" 450 500 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 SACRAMENTO DIVISION (14)	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" 450 500 675 675 675 68" Sonoma Tap Line 6" 450 500 675 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 500 675 675 675 675 675 675 675 675 675 675	á	Cotati Bandar	Q#	450	500	675	675
12" Line 21 (V-16.15) to Kilburn Regulator Station 10" 450 500 675 Kilburn Regulator Station to Rutherford 8" & 10" 450 500 675 6" Sonoma Tap Line 6" 450 500 675 Tap to Kaiser Steel East of Napa River 4" 450 500 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 16" L-108 to Florin Road Primary 6" & 10" 412 412 500 L-108 to Florin Road and Woodline Avenue 6" & 10" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 L-108 to Elk Grove Primary 4" 412 412 500 Fairfield - Knolls Feeder 4" 500 500 500	12" Line 21 (V-16.15) to Kilburn Regulator Station 10" 450 500 675	ล็		-				
Kilburn Regulator Station to Rutherford 8" & 10" 450 500 675	Kilburn Regulator Station to Rutherford 8" & 10" 450 500 675 675 6" Sonoma Tap Line 6" 450 500 675 675 675 675 Tap to Kaiser Steel East of Napa River 4" 450 500 675 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 500 500 500 500 500 500 500	Ŋ.		-				
6" Sonoma Tap Line 6" 450 500 675 Tap to Kaiser Steel East of Napa River Line 21-S, V-4.59 to V-4.63 8" 450 500 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator *Sacramento Division Gas Load Center to North Sacramento Holder Holder 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 L-108 to Florin Road Primary 6" & 10" 412 412 500 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 Hunts Feeder Main 6" 750 750 800 Hunts Feeder Main 6" 500 500 500	6" Sonoma Tap Line Tap to Kaiser Steel East of Napa River Tap to Kaiser Steel East of Napa River Line 21-S, V-4.59 to V-4.63 8" 450 500 675 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 500 SACRAMENTO DIVISION Line 1-108 to Galt Primary Regulator *Sacramento Division Gas Load Center to North Sacramento Rolder Rolder 8" 8 12" 260 260 275 275 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 656 L-108 to Florin Road Primary 6" 8 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 656 L-108 to Florin Road and Riverside 8" 8 10" 412 412 500 656 L-108 to Florin Road and Riverside 6" 8 8" 412 412 500 656 Tremont Tap to Dixon Meter Station 6" 750 750 800 800 Hunts Feeder Main 6" 500 500 500 500 Rollinois Street 10" Feeder 6" 8 10" 650 675 740 720 Gibson Feeder Main 6" 500 500 500 500 800							
Tap to Kaiser Steel East of Napa River 4" 450 500 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 *Sacramento Division Gas Load Center to North Sacramento	Tap to Kaiser Steel East of Napa River 4" 450 500 675 675 Line 21-S, V-4.59 to V-4.63 8" 450 500 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 720 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 275 16" L-108 to Florin Road Primary 6" & 10" 112 412 500 656 L-108 to Florin Road Primary 6" & 10" 412 412 500 656 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 656 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 656 Sutterville Road to 43rd and Riverside 6" 8 8" 412 412 500 656 Tremont Tap to Dixon Meter Station 6" 750 750 800 800 Hunts Feeder Main 6" 500 500 500 800 Fairfield - Knolls Feeder 4" 500 500 500 800 Gibson Feeder Main 6" 500 500 500 500 800 Gibson Feeder Main 6" 500 500 500 500 800		<u> </u>					
SACRAMENTO DIVISION (14) 16" L-108 to Calt Primary Regulator 4" 490 490 500 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 L-108 to Florin Road Primary 6" & 10" 412 412 500 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 L-108 to Elk Grove Primary 4" 412 412 500 Tremont Tap to Dixon Meter Station 6" 750 750 800 Hunts Feeder Main 6" 500 500 500	Line 21-S, V-4.59 to V-4.63 8" 450 500 500 500 SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 720 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 275 16" L-108 to Florin Road Primary 6" & 10",12",16" 412 412 500 656 L-108 to Florin Road Primary 8" & 10" 412 412 500 656 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 656 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 Tremont Tap to Dixon Meter Station 6" 750 750 800 800 Hunts Feeder Main 6" 500 500 500 800 Fairfield - Knolls Feeder 4" 500 500 500 800 Illinois Street 10" Feeder 6" & 10" 650 675 740 720 Gibson Feeder Main 6" 500 500 500 500 800	9		•				
SACRAMENTO DIVISION (14) 16" L-108 to Galt Primary Regulator 4" 490 490 500 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 L-108 to Florin Road Primary 6" & 10" 412 412 500 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 L-108 to Elk Grove Primary 4" 412 412 500 Hunts Feeder Main 6" 750 750 800 Fairfield - Knolls Feeder 4" 500 500 500	SACRAMENTO DIVISION (14) 16" I-108 to Galt Primary Regulator 4" 490 490 500 720 *Sacramento Division Gas Load Center to North Sacramento Holder 8" & 12" 260 260 275 275 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 656 L-108 to Florin Road Primary 6" & 10" 412 412 500 656 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 656 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 656 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 656 L-108 to Elk Grove Primary 4" 412 412 500 656 Tremont Tap to Dixon Meter Station 6" 750 750 800 800 Hunts Feeder Main 6" 500 500 500 800 Fairfield - Knolls Feeder 6" & 10" 650 675 740 720 Gibson Feeder Main 6" 500 500 500 800	ΕĦ		-				
SACRAMENTO DIVISION (14)	16" L-108 to Galt Primary Regulator		22.0 22.57 43.55 65 4 43.55	· ·	450	300	300	300
**Sacramento Division Gas Load Center to North Sacramento **Rolder	*Sacramento Division Gas Load Center to North Sacramento Holder Holde		SACRAMENTO DIVISION (14)					
Holder 8" & 12" 260 260 275 16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 L-108 to Florin Road Primary 6" & 10" 412 412 500 Union Carbide Tap to Union Carbide Corp. 8" & 10" 412 412 500 L-108 to Florin Road and Woodline Avenue 6" 412 412 500 Sutterville Road to 43rd and Riverside 6" & 8" 412 412 500 L-108 to Elk Grove Primary 4" 412 412 500 Tremont Tap to Dixon Meter Station 6" 750 750 800 Hunts Feeder Main 6" 500 500 500 Fairfield - Knolls Feeder 4" 500 500	Holder	ß		-	490	490	500	720
16" L-108 Tap to Sacramento Boulevard Regulator L-108 to Florin Road and Woodline Avenue 6" 412 412 500 Sutterville Road to 43rd and Riverside 6" 8 8" 412 412 500 Sutterville Road to 43rd and Riverside 6" 8 8" 412 412 500 Florin Road and Woodline Avenue 6" 412 412 500 Sutterville Road to 43rd and Riverside 6" 8 8" 412 412 500 Florin Road and Woodline Avenue 6" 8 8" 412 412 500 Florin Road and Riverside 6" 8 8" 412 412 500 Florin Road and Riverside 6" 8 8" 412 412 500 Florin Road and Riverside 6" 8 8" 412 412 500 Florin Road and Riverside 6" 8 8" 412 412 500 Florin Road to 43rd and Riverside 6" 8 8" 412 412 500 Florin Road and Riverside 6" 8 8" 412 412 500 Floring Road Flor	16" L-108 Tap to Sacramento Boulevard Regulator 10",12",16" 412 412 500 656							
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9 9	7 Illinois Street 10" Feeder 6" & 10" 650 675 740 720 Gibson Feeder Main 6" 500 500 500 800			_				
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Illinois Street 10" Feeder		ħ.	Gibson Feeder Main	6"	500	500	500	800
O N (14) A number of DFMs have been added by Sacramento Division because of operation at pressure of 20% or more of SMYS.	or more of SMYS.	DRAWING NUMBER 086868	or more of SMYS.					

Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	МАОР	Design Press.	Future Design Press.
Sacramento Division (Continued)					
American Home Foods Feeder Vacaville Feeder	2" & 4" 6"	720 400	720 4 00	720 400	720 400
Vacaville - Travis to Vacaville Junction	3", 4", 6"	400	400	400	720 4 00
Anheuser Busch Feeder	2" & 4"	650	650	720	720 720 675
Fairfield Feeder - Scandia Road - Vaca Tap Robben Road Feeder - Dixon	12" 6"	650 750	650 750	7 40 800	7 4 0 800
SAN FRANCISCO DIVISION	140 - 440		(14a)		0.75
Hunters Point Power Plant Feeder	20"	145	145	275 275	275 275
SAN JOAQUIN DIVISION					
Tranquility Feeder	3"	650	800	900	900
					720 7 20
	•				720 720
	_	_			720
Clovis Feeder Main	6" & 12"	650	650	720	720
Vinewood Avenue Feeder	4"	400	720	720	720
(14a) Revised to conform to documented records.					
	Sacramento Division (Continued) American Home Foods Feeder Vacaville Peeder Vacaville - Eldridge to Nut Tree Road Vacaville - Travis to Vacaville Junction Vacaville - SNRR to Elmira Road Anheuser Busch Feeder Fairfield Feeder - Scandia Road - Vaca Tap Fairfield Feeder - Scandia Road - Vaca Tap Robben Road Feeder - Dixon SAN FRANCISCO DIVISION Peninsula Main Hunters Point Power Plant Feeder SAN JOAQUIN DIVISION Tranquility Feeder Yosemite Avenue Feeder Snelling Highway Feeder Dixon Dryer Feeder Peach and Central Feeder Clovis Feeder Main	Pipe Diameter (Inches)	Pipe Diameter MOP	Pipe Diameter MOP Inches Diameter Diamete	Pipe PGSE Diameter MOP Design

San Joaquin Division (Continued) Winton Avenue Feeder Elm Avenue Feeder US Borax Feeder Cressey Way Feeder Valley Nitrogen Feeder Ashland Avenue Feeder SAN JOSE DIVISION Half Moon Bay Feeder Line Santa Cruz to Davenport Milpitas Terminal to PIS #7, Kings Road, 20" Feeder Watsonville to River Street Regulator Station Watsonville to Rob Roy Junction SHASTA DIVISION	6" 8" 4" & 6" 4" & 6" 6" 4" & 6" 8" 10" 12" 10" & 12" 16" 20" 30" 8" & 10"	400 263 490 400 650 400 400 300 200 300 300 300	720 263 490 400 650 593 577 303 200 303 400	720 400 720 720 800 720 577** 557** 275 577**	720 400 720 720 720 720 720 720 577** 400 526 400
Elm Avenue Feeder US Borax Feeder Cressey Way Feeder Valley Nitrogen Feeder Ashland Avenue Feeder SAN JOSE DIVISION Half Moon Bay Feeder Line Santa Cruz to Davemport Milpitas Terminal to PLS #7, Kings Road, 20" Feeder Watsonville to River Street Regulator Station Watsonville to Rob Roy Junction	8" 4" & 6" 4" & 6" 6" 4" & 6" 8" 10" 12" 10" & 12" 16" 20" 30" 8" & 10"	263 490 400 650 400 400 300 200 300	263 490 400 650 593 577 303 200 303	400 720 720 800 720 577** 557** 275 577**	400 720 720 720 720 720 720
Half Moon Bay Feeder Line Santa Cruz to Davenport Milpitas Terminal to PLS #7, Kings Road, 20" Feeder Watsonville to River Street Regulator Station Watsonville to Rob Roy Junction	10" & 12" 16" 20" 30" 8" & 10"	300 200 300	303 200 303	557** 275 577**	400 526
Santa Cruz to Davenport Milpitas Terminal to PLS #7, Kings Road, 20" Feeder Watsonville to River Street Regulator Station Watsonville to Rob Roy Junction	10" & 12" 16" 20" 30" 8" & 10"	300 200 300	303 200 303	557** 275 577**	400 526
SHASTA DIVISION			400	577**	400
Simpson Lee Paper Mill Feeder U. S. Plywood Plant Feeder Enterprise Town Feeder Calaveras Cement Company Feeder Red Bluff District Tap	6" 4" 4" & 6" 8" 2"	300 300 300 300 911	300 720 300 300 911	720 720 720 720 720 911	720 720 720 720 720 911
**See Paragraph 6					
	Calaveras Cement Company Feeder Red Bluff District Tap	Calaveras Cement Company Feeder 8" Red Bluff District Tap 2"	Calaveras Cement Company Feeder 8" 300 Red Bluff District Tap 2" 911	Calaveras Cement Company Feeder 8" 300 300 Red Bluff District Tap 2" 911 911	Calaveras Cement Company Feeder 8" 300 300 720 Red Bluff District Tap 2" 911 911 911

LINES OPE	Location	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MAOP	Design Press.	Future Design Press.
OPERATING AT OR OVER 20% SMYS	Valley Tomato Trunk Line Eight Mile Road Trunk Line Ripon-Modesto Feeder (Parallel) Dale Road to North Avenue Feeder Riverbank Feeder Carpenter Road Feeder (Modesto) Modesto Feeder via Pauline Boulevard Turner Road Feeder Turner Road Feeder Turner Road Feeder Louise Avenue Feeder	8" 4" & 8" 8" & 12" 4", 6", 8", 12" 8" & 10" 4" \$ 12" 4" \$ 6" 8" 4" \$ 6" 4" \$ 8"	412 408 408 408 408 408 300 300 295 408	500 412 (16) 408 408 (16) 500 408 720 300 295 408	720 720 720 720 720 720 720 720 720 720	720 720 720 720 720 720 720 720 720 400 400 720
PG&E CO. SHEET 29 OF 30 SHEETS	(15) A number of DFMs have been deleted by Stoc than 20% of SMYS. (16) Revised to conform to documented records.	ckton Division because	of operat:	on at pres	sures less	

61-4344 Rev 1-76	LINES OPERATING	<u>Location</u>	Length (Feet)	Nominal Pipe Diameter (Inches)	PG&E MOP psig	MA OP	Design Press.	Future Design Press.
Company of the Compan	G AT OR	COLGATE DIVISION Yuba City	24,784	34"	525	525	550	550
AND ADDRESS OF THE PARTY OF THE	OVER	<u>NORTH BAY</u> San Rafael	37,392	30"	625 (18)	650	690	690
	20% SMYS	SACRAMENTO DIVISION	·		•			
	ry .	Sacramento San JOAQUIN DIVISION	78,452	34"	445	445	550	550
		Fresno SAN JOSE DIVISION	43,722	30"	650 ⁽¹⁸⁾	690	690	690
*	SHEET	Santa Cruz	7,221	30"	618	618(19)	618	660
	PG & E CO.	$^{(18)}$ The MOP is lowered pending a hyd $^{(19)}$ Revised to conform to documented		34" (AOP.	618	618 ⁽¹⁹⁾	618	660
MICROFILM	DRAWING NUMBER 086868							
	O.EV							