Pacific Gas and Electric Company R
Gas Pipeline Facilities Strength Test Pressure Report
(For Pipeline Facilities Designed to Operate over 100 PSIG)

62-4921 (Rev. 2/04)
California Gas Transmission
(Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 3

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name	Area	Division/District	Job Number	Date Job Authorized
L-300A	3	Redacted	41497308	June 23, 2011

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Test 1 - Temporary cut cap and pups to seal off tied ends of existing piping to facilitate hydrostatic test (refer to sheet 3 & 5 details 7,8, 2 & 3)

Hydrotest L-300A from MP 496.36 – 499.77 Redacted (Test section 73)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	N/A Ft.	Static Head Calculation For Water	0.433 X Elev. Diff. = PSIG
	Min. Elevation	N/A Ft.	Other (Specify)	X Elev. Diff. = PSIG
	Elev. Diff.	N/A Ft.		

Pipe Specification Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS At MAOP	% of SMYS At Min. Test Press.	% of SMYS At Max. Test Press.	Pressure to Give 90% SMYS
34.00	.505	API 5L, X-60, DSAW (Item #101)	4'	Redacted	37.93	56.89	64.52	1604
34.00	.375	API 5L, X-65, DSAW (Item #102)	4'		47.15	70.72	80.21	1290
4.50	.237	API 5L, X-52, GR. B (Item #114)	2' 8"	TESTED ON 71	18.34	27.50	31.19	3318
				PIPING				
		SHOULD HAVE BEEN TESTED VTD			MAIN	TEST		
		INSPECTION TO		VERIFY				

Minimum Test Pressure @ Max. Elevation	1014 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM)	4 HOUR
Maximum Test Pressure @ Min. Elevation	1150 PSIG		- PREINSTALLATION [illegible] GAS STD. A-34)	

Prepared By: Redacted Date: 06/23/11 Redacted Redacted Date: 6/24/11

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached		Elevation at Test Point	FT	Min. Required Test Press. At Test Point	(1)	PSIG	Max. Allowable Test Press at Test Point	(4)	PSIG
Time and Date Test Ended		Max. Elevation in Test Section	FT	Min. Indicated Test Pressure	(2)	PSIG	Max. Indicated Test Pressure	(5)	PSIG
Actual Duration of Test		Min. Elevation in Test Section	FT	Min. Test Pressure at Max. Elevation	(3)	PSIG	Max. Test Pressure at Min. Elevation	(6)	PSIG

Test Fluid Used | Pipe Specification and Footage Verified (See Part I) Redacted

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated

Test Supervised By: Date: | Approved By: Date:

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET
SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

NOTES:
(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
(2) Use lowest pressure on test gauge at any time during test.
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
(5) Highest pressure on test gauge at any time during test.
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
(7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

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PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name	Area	Division/District	Job Number	Date Job Authorized
L-300A	3	Redacted	41497308	June 23, 2011

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts

Test 2 – Hydrostatically test tie-in pieces, hydrostatic test piping, and existing 34" L-300A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497308, sheet 6 of 6)

Hydrotest L-300A from MP 496.36 – 499.77 Redacted (Test section 73)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	140 Ft.	For Water	0.433 X Elev. Diff. =	36.81 PSIG
	Min. Elevation	55 Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	85 Ft.			

Pipe Specification: Size O.D.	Size W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS: At MAOP	At Min. Test Press.	At Max. Test Press.	Pressure to Give 90% SMYS
34.00	.505	API 5L, X-60, DSAW (Item #101)	73'	59.8 A	37.93	56.89	64.52	1604
34.00	.380	API 5L, X-60, DSAW (Item #1)	2055'	2062 A	50.40	75.61	85.75	1207
34.00	.500	API 5L, X-46, DSAW (Item #2)	16246'	16247 A	49.97	74.95	85.00	1218
34.00	.562	API 5L, X-60, DSAW (Item #3)	304'	Redacted	34.08	51.12	57.98	1785
34.00	.380	Elbow, Y-60 (Item #6)	15 ea.		50.40	75.61	85.75	1207
34.00	.406	Elbow, Y-50 (Item #7)	6 ea.		56.61	84.92	96.31	1075
34.00	.562	Elbow, Y-60, DSAW (item #8)	4 ea.		34.08	51.12	57.98	1785
34.00	.375	Elbow, Y-60, DSAW (item #9)	6 ea.		51.08	76.61	86.89	1191

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	1014 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1150 PSIG		- 30% SMYS & OVER (8 HRS. MINIMUM)	
			- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By: Redacted Date: 06/23/11 Redacted A Redacted

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached	5:55 AM 8-3-2011	Elevation at Test Point	130 FT	Min. Required Test Press. At Test Point (1)	1018 PSIG	Max. Allowable Test Press at Test Point (4)	1118 PSIG
Time and Date Test Ended	3:00 PM 8-3-2011	Max. Elevation in Test Section	140 FT	Min. Indicated Test Pressure (2)	1036 PSIG	Max. Indicated Test Pressure (5)	1113 PSIG
Actual Duration of Test	8 hours 50 min	Min. Elevation in Test Section	55 FT	Min. Test Pressure at Max. Elevation (3)	1032 PSIG	Max. Test Pressure at Min. Elevation (6)	1145 PSIG

Test Fluid Used WATER Redacted

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated
Barton 0-3000 202A-175572	6-7-2011	Chandler 50-9000 6106	5-19-2011

Test Supervised by: Redacted Date: 8-3-2011 Approved By: Redacted Date: 8-4-11

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

NOTES:

(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
(2) Use lowest pressure on test gauge at any time during test.
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
(5) Highest pressure on test gauge at any time during test.
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
(7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

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62-4921 (Rev. 2/04)
California Gas Transmission
(Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 3 of 3

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name	Area	Division/District	Job Number	Date Job Authorized
L-300A	3	Redacted	41497308	June 23, 2011

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts

Test 2 – Hydrostatically test tie-in pieces, hydrostatic test piping, and existing 34" L-300A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497308, sheet 6 of 6) Revision 1, 8-2-11 add field substitutions

Hydrotest L-300A from MP 496.36 – 499.77 Redacted (Test section 73) approved by Engineering: Mark Cabral, PE 8/2/11

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	140 Ft.	For Water	0.433 X Elev. Diff. =	36.81 PSIG
	Min. Elevation	55 Ft.	Other (Specify)		
	Elev. Diff.	85 Ft.		X Elev. Diff. =	PSIG

Pipe Specification: Size O.D.	Size W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS: At MAOP	At Min. Test Press.	At Max. Test Press.	Pressure to Give 90% SMYS
34.00	.456	Sleeve, X-60 (item #10)	4 ea.	Redacted	42.00	63.00	71.45	1448
~~4.50~~	~~.237~~	~~GR. B, SMLS (item #12)~~	~~3'~~	Not in test	~~18.34~~	~~27.50~~	~~31.19~~	~~3318~~
34.00	.315	API 5L, Gr X-60, DSAW @	4.6'	✓ A	51.08	76.61	86.89	1191
34.00	.375	API 5L, Gr X-65, DSAW @	6.2'	✓ A	47.15	70.72	80.21	1291
4.50	.237	GRB. SMLS ITEM 12	6"	Redacted	18.34	27.50	31.19	3318

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	1014 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1150 PSIG		- 30% SMYS & OVER (8 HRS. MINIMUM)	
			- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By: Redacted Redacted Date: 06/23/11 Redacted Approved Redacted Date: 6/24/11

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached	5:55 AM 8-3-2011	Elevation at Test Point	130 FT	Min. Required Test Press. At Test Point (1)	1018 PSIG	Max. Allowable Test Press at Test Point (4)	1118 PSIG
Time and Date Test Ended	3:00 PM 8-3-2011	Max. Elevation in Test Section	140 FT	Min. Indicated Test Pressure (2)	1036 PSIG	Max. Indicated Test Pressure (5)	1113 PSIG
Actual Duration of Test	9 hours 50 min	Min. Elevation in Test Section	55 FT	Min. Test Pressure at Max. Elevation (3)	1032 PSIG	Max. Test Pressure at Min. Elevation (6)	1145 PSIG
Test Fluid Used	Water			Redacted			

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated
Barton [illegible]	6-7-2011	Chandler 50-3000 6106	5-19-2011

Test Supervised By: Redacted -3-2011 Approved By: Redacted Date: 8-4-11

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

NOTES:

(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
(2) Use lowest pressure on test gauge at any time during test.
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
(5) Highest pressure on test gauge at any time during test.
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
(7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

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(For Pipeline Facilities Designed to Operate over 100 PSIG)

62-4921 (Rev. 2/04)
California Gas Transmission
(Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 3 of 4

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name	Area	Division/District	Job Number	Date Job Authorized
L-300A	3	San Jose	41497313	

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts

TEST 3 – Hydrostatically test tie-in piping, hydrotest piping, and existing 34" L-300a. Existing pipeline material listed (ie. pipe, elbows, sleeves, etc.) are from "Material of Record" (refer to Dwg. 41497313, Sheet 7) **Revision 2** – Added 34.00", 1.05", 4.50", and 0.84" pipe (Field Addition)

Hydrotest L-300A from MP 490.66 -- 493.59 San Jose, CA (Test Section 71)

COPY

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	SEP 02 2011 676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)				Static Head Calculation		
	Max. Elevation	200	Ft.	For Water	0.433 X Elev. Diff. =	34 PSIG
	Min. Elevation	123	Ft.	Other (Specify)		X Elev. Diff. = PSIG
	Elev. Diff.	77	Ft.			

PG & E

Pipe Specification: Size O.D.	Size W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS: At MAOP	At Min. Test Press.	At Max. Test Press.	Pressure to Give 90% SMYS
34.00"	0.505"	API 5L, X-60, DSAW (Item 101)	~~30'~~	45.8 A	37.93	56.89	64.52	1604
34.00"	0.500"	API 5L, X-46, DSAW (Item 2)	~~14,253'~~	14256 A	49.97	74.95	85.00	1218
34.00"	0.562"	API 5L, X-60, DSAW (Item 4)	177'	Redacted	34.08	51.12	57.98	1785
34.00"	0.380"	API 5L, X-60, DSAW (Item 5)	207'		50.40	75.61	85.75	1207
34.00"	0.500"	API 5L, X-60, DSAW (Item 6)	1155'		38.31	57.46	65.17	1588
8.625"	0.500"	API 5L, GR.B SMLS (Item 14)	6"		16.66	24.99	28.34	3652
2.375"	0.154"	API 5L, GR.B SMLS (Item 15)	2' 6"		14.89	22.34	25.34	4085
4.5"	0.237"	API 5L, GR.B SMLS (Item 15 & 17)	6'		18.34	27.50	31.19	3318
34.00"	0.375"	API 5L, X-60, DSAW	1.75'		51.08	76.61	86.89	1191
1.05"	0.154"	API 5L, GR.B SMLS	106'		6.58	9.88	11.20	9240
4.50"	0.237"	API 5L, GR.B SMLS	9'		18.34	27.50	31.19	3318

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	1014 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1150 PSIG		- 30% SMYS & OVER (8 HRS. MINIMUM)	
			- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Redacted | Date: 6/24/2011 | For Information or Changes, Call: Mark Cabral (925) 588-3640 | Approved By: Mark Cabral Date: 6-25-11

PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached	9:17 PM 7-29-11	Elevation at Test Point	123 FT	Min. Required Test Press. At Test Point (1)	1047 PSIG	Max. Allowable Test Press at Test Point (4)	1150 PSIG
Time and Date Test Ended	6:15 AM 7-30-11	Max. Elevation in Test Section	200 FT	Min. Indicated Test Pressure (2)	1066 PSIG	Max. Indicated Test Pressure (5)	1149 PSIG
Actual Duration of Test	8 HR 58 MIN	Min. Elevation in Test Section	123 FT	Min. Test Pressure at Max. Elevation (3)	1033 PSIG	Max. Test Pressure at Min. Elevation (6)	1149 PSIG

Test Fluid Used: WATER | Redacted

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated
Baton 0-3000 202A-175572	6-7-2011	Chandler 50-3000, 6106	5-19-2011

Test Supervised By: Redacted | Date: 9-15-2011 ① | Redacted | Date: 9-15-11

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

NOTES:

(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
(2) Use lowest pressure on test gauge at any time during test.
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
(5) Highest pressure on test gauge at any time during test.
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
(7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

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① Original Signed 7-30-2011