



Pacific Gas and Electric Company  
**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 112.0)

Sheet 1 of 3

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>3</b>	Division/District <b>San Jose</b>	Job Number <b>41497325</b>	Date Job Authorized <b>September 1, 2011</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 2 - 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 41497325, sheet 6 of 6)**

Hydrotest L-300A from MP Redacted Morgan Hill, CA (Test section 68)

Location Class <b>3</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>631 PSIG</b>	Future Design Pressure <b>631 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>448 Ft.</b>	Static Head Calculation: For Water 0.433 X Elev. Diff. = <b>60.2 PSIG</b> Other (Specify) _____ X Elev. Diff. = _____ PSIG
	Min. Elevation <b>309 Ft.</b>	
	Elev. Diff. <b>139 Ft.</b>	

Pipe Specification			Footage to Be Tested	Pipe Spec. and Footage Verified in Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seam'less, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.375	API 5L, X-65, DSAW (Item #100)	51'	37.3 LLC	44.01	66.05	72.88	1291
34.00	.505	Elbow, Y-60 (Item #118)	4 ea.	MOR	35.40	53.13	58.63	1604
34.00	.507	API 5L, X-60, DSAW (Item #1)	337'	MOR	35.26	52.92	58.40	1611
34.00	.406	API 5L, X-60, DSAW (Item #2)	3107'	MOR	44.04	66.09	72.93	1290
34.00	.344	API 5L, X-52, DSAW (Item #3)	13299'	13299.5 LLC	59.97	90.00	99.31	947
34.00	.500	Elbow, Y-60 (Item #4)	4 ea.	MOR	35.76	53.66	59.22	1588
34.00	.500	API 5L, X-65 DSAW		33.7 LLC	33.01	49.54	54.66	1721

Minimum Test Pressure @ Max. Elevation <b>947 PSIG</b>	Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>1045 PSIG</b>			

Date: <u>9/2/11</u>	For Information or Changes, Call: <b>Mark Cabral (925) 588-3640</b>	Approved By: <u>Mark Cabral</u>	Date: <u>9-2-11</u>
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**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 <u>10:44am 11-3-11</u>	Elevation at Test Point <u>309' FT</u>	Min. Required Test Press. At Test Point (1) <u>1007 PSIG</u>	Max. Allowable Test Press at Test Point (4) <u>1045 PSIG</u>
Time and Date Test Ended <u>7:00pm 11-3-11</u>	Max. Elevation in Test Section <u>448' FT</u>	Min. Indicated Test Pressure (2) <u>1030 PSIG</u>	Max. Indicated Test Pressure (5) <u>1034 PSIG</u>
Actual Duration of Test <u>8 hr 16min</u>	Min. Elevation in Test Section <u>309' FT</u>	Min. Test Pressure at Max. Elevation (3) <u>970 PSIG</u>	Max. Test Pressure at Min. Elevation (6) <u>1034 PSIG</u>

Test Fluid Used <u>Water</u>	Pipe Specification and Footage Verified (See Part I) <u>Redacted</u>
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Make, Range, and Serial No. of Pressure Recording Gauge <u>Barton, 0-3000, 202A-175572</u>	Date Last Calibrated <u>6-7-11</u>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <u>Chandler, 50-3000, 16393</u>	Date Last Calibrated <u>5-19-11</u>
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Date: <u>11-3-11</u>	Approved By: <u>Redacted</u>	Date: <u>11-19-11</u>
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**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.

<b>NOTES:</b>	<b>DISTRIBUTION</b>
(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.	JOB FILE (AT SPONSORING ORGANIZATION)
(2) Use lowest pressure on test gauge at any time during test.	GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.	PROJECT MANAGER/PROJECT ENGINEER
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.	TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY
(5) Highest pressure on test gauge at any time during test.	CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.	RECORDS SECTION (WC), GSM&TS
(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.	REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

**FINAL**



Pacific Gas and Electric Company  
**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-31 and GO 112-D)

Sheet 2 of 3

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)										
Feeder Main Number, Line Number, or Station Name <b>L-300A</b>			Area <b>3</b>		Division/District <b>San Jose</b>			Job Number <b>41497325</b>		Date Job Authorized <b>September 1, 2011</b>
Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 2 - 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 41497325, sheet 6 of 6)</b>										
Hydrotest L-300A from MP <b>Redacted</b> <b>Morgan Hill, CA</b> (Test section 68)										
Location Class <b>3</b>		Design Factor (F) <b>.5</b>		MAOP to be Established for this Piping by this Test <b>631 PSIG</b>			Future Design Pressure <b>631 PSIG</b>			
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation <b>448 Ft.</b>		Static Head Calculation			60.2 PSIG			
		Min. Elevation <b>309 Ft.</b>		For Water			0.433 X Elev. Diff. =			
		Elev. Diff. <b>139 Ft.</b>		Other (Specify)			X Elev. Diff. = PSIG			
Pipe Specification			Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS		
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seam/less, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.			
34.00	.406	Elbow, Y-60 (Item #5)	4 ea.	MOR	44.04	66.09	72.93	1290		
34.00	UNK	Elbow, Unknown Grade (Item #6)	8 ea.	MOR	-	-	-	-		
34.00	.500	Sleeve, X-60 (Item #7)	1 ea.	MOR	35.76	53.66	59.22	1588		
34.00	.500	Sleeve, X-52 (Item #8)	1 ea.	MOR	41.26	61.92	68.33	1377		
34.00	.375	Sleeve, X-60 (Item #9)	4 ea.	MOR	47.68	71.55	78.96	1191		
12.75	.500	API 5L, GR. B, SMLS (Item #10)	108'	MOR	22.99	34.50	38.07	2471		
Minimum Test Pressure @ Max. Elevation			<b>947 PSIG</b>		Test Fluid To Be Used <b>WATER</b>			MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) <b>8 HOURS</b>		
Maximum Test Pressure @ Min. Elevation			<b>1045 PSIG</b>							
Redacted			9/2/2011		For Information or Changes, Call: <b>Mark Cabral (925) 588-3640</b>			Approved By: <i>Mark Cabral</i> Date: <b>9-2-11</b>		

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	<b>10:44am</b>	Elevation at Test Point	<b>309'</b>	Min. Required Test Press. At Test Point (1)	<b>1007 PSIG</b>	Max. Allowable Test Press at Test Point (4)	<b>1045 PSIG</b>		
Time and Date Test Ended	<b>7:00pm</b>	Max. Elevation in Test Section	<b>448'</b>	Min. Indicated Test Pressure (2)	<b>1030 PSIG</b>	Max. Indicated Test Pressure (5)	<b>1034 PSIG</b>		
Actual Duration of Test	<b>8hr 16min</b>	Min. Elevation in Test Section	<b>309'</b>	Min. Test Pressure at Max. Elevation (3)	<b>970 PSIG</b>	Max. Test Pressure at Min. Elevation (6)	<b>1034 PSIG</b>		
Test Fluid Used <b>water</b>			Pipe Specification and Footage Verified (See Part I) <b>Redacted</b>						
Make, Range, and Serial No. of Pressure Recording Gauge <b>Barton, 0-3000, 202A-175572</b>			Date Last Calibrated <b>6-7-11</b>		Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>Chandler, 50-3000, 16393</b>			Date Last Calibrated <b>5-19-11</b>	
Redacted			Date: <b>11-3-11</b>		AP: <b>Redacted</b>			Date: <b>11-14-11</b>	

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.

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| <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.</li> <li>Use lowest pressure on test gauge at any time during test.</li> <li>Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.</li> <li>Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.</li> <li>Highest pressure on test gauge at any time during test.</li> <li>Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.</li> <li>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.</li> </ol> | <p><b>DISTRIBUTION</b></p> <p>JOB FILE (AT SPONSORING ORGANIZATION)</p> <p>GSM&amp;TS RESPONSIBLE DISTRICT SUPERINTENDENT</p> <p>PROJECT MANAGER/PROJECT ENGINEER</p> <p>TECHNICAL &amp; CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</p> <p>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</p> <p>RECORDS SECTION (WC), GSM&amp;TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; PLANNING</p> |
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**FINAL**



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**Gas Pipeline Facilities Strength Test Pressure Report**  
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 California Gas Transmission  
 (Use in Accordance with Gas Standard A-34 and GO 112.0)

Sheet **3** of **3**

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>3</b>	Division/District <b>San Jose</b>	Job Number <b>41497325</b>	Date Job Authorized <b>September 1, 2011</b>
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 2 - Tie-in pieces, hydrostatic test piping and existing 34" L-300A. Existing pipeline material listed; i.e. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497325, sheet 6 of 6)**

**Hydrotest L-300A from MP 480.7432 - 483.7562 Morgan Hill, CA (Test section 68)**

Location Class <b>3</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>631 PSIG</b>	Future Design Pressure <b>631 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>448 Ft.</b>	Static Head Calculation For Water 0.433 X Elev. Diff. = <b>60.2 PSIG</b> Other (Specify) X Elev. Diff. = <b>PSIG</b>
	Min. Elevation <b>309 Ft.</b>	
	Elev. Diff. <b>139 Ft.</b>	

Pipe Specification				Footage to Be Tested	Pipe Spec. and Footage Verified in Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)				At MAOP	At Min. Test Press.	At Max. Test Press.	
<b>2.375</b>	<b>.154</b>	<b>API 5L, GR. B, SMLS (Item #11)</b>		<b>10'</b>	<b>MOR</b>	<b>13.90</b>	<b>20.86</b>	<b>23.02</b>	<b>4085</b>
<b>1.66</b>	<b>.140</b>	<b>API 5L, GR. B, SMLS (Item #12)</b>		<b>10'</b>	<b>MOR</b>	<b>10.69</b>	<b>16.04</b>	<b>17.70</b>	<b>5313</b>

Minimum Test Pressure @ Max. Elevation <b>947 PSIG</b>	Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>1045 PSIG</b>			

Prepared By: **Richard Avery** Date: **9/2/2011** For Information or Changes, Call: **Mark Cabral (925) 588-3640** Approved By: **Mark Cabral** Date: **9-2-11**

**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 <b>10:44am 11-3-11</b>	Elevation at Test Point <b>309' FT</b>	Min. Required Test Press. At Test Point (1) <b>1007 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>1045 PSIG</b>
Time and Date Test Ended <b>7:00PM 11-3-11</b>	Max. Elevation in Test Section <b>448' FT</b>	Min. Indicated Test Pressure (2) <b>1030 PSIG</b>	Max. Indicated Test Pressure (5) <b>1034 PSIG</b>
Actual Duration of Test <b>8 hr 16min</b>	Min. Elevation in Test Section <b>309' FT</b>	Min. Test Pressure at Max. Elevation (3) <b>970 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>1034 PSIG</b>

Test Fluid Used: **water** Pipe Specification and Footage Verified (See Part I) **Robert L. Choat A629**

Make, Range, and Serial No. of Pressure Recording Gauge <b>Barton, 0-3000, 202A-175572</b>	Date Last Calibrated <b>6-7-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>Chandler, 50-3000, 16393</b>	Date Last Calibrated <b>5-12-11</b>
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Test Supervised By: **Brandon Durand** Date: **11-3-11** Approved By: **Paul Mansur** Date: **11-14-11**

**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:**
- Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
  - Use lowest pressure on test gauge at any time during test.
  - Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
  - Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
  - Highest pressure on test gauge at any time during test.
  - Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
  - 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.
- DISTRIBUTION**  
 JOB FILE (AT SPONSORING ORGANIZATION)  
 GMS&TS RESPONSIBLE DISTRICT SUPERINTENDENT  
 PROJECT MANAGER/PROJECT ENGINEER  
 TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  
 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)  
 RECORDS SECTION (WC), GMS&TS  
 REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

**FINAL**