



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-D)

Sheet 1 of 1

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>4</b>	Division/District <b>Redact</b>	Job Number <b>41617928</b>	Date Job Authorized <b>3-21-12</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 1 -- Isolation Pup and Caps to facilitate Hydrotest 055-12 (See Dwg 41617928, SHT 4) per Detail 4 attached here to, to be fabricated & tested.**

Hydrotest L-300A from **Redacted** (Test Section 055-12)

Location Class <b>2</b>	Design Factor (F) <b>.6</b>	MAOP to be Established for this Piping by this Test <b>803 PSIG</b>	Future Design Pressure <b>817 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation _____ Ft.	Static Head Calculation	
	Min. Elevation _____ Ft.	For Water	0.433 X Elev. Diff. = <b>0 PSIG</b>
	Elev. Diff. <b>0</b> Ft.	Other (Specify)	X Elev. Diff. = _____ PSIG

Size		Pipe Specification API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.				At MAOP	At Min. Test Press.	At Max. Test Press.	
<b>34.00</b>	<b>.375</b>	<b>API 5L, X-65, SAWL</b>	<b>8'</b>		<b>56.00</b>	<b>70.02</b>	<b>80.00</b>	<b>1291</b>
<b>34.00</b>	<b>.505</b>	<b>CAPS, Y-60</b>	<b>2 Ea.</b>		<b>45.05</b>	<b>56.33</b>	<b>64.35</b>	<b>1604</b>

Minimum Test Pressure @ Max. Elevation <b>1004 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>4 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>1147 PSIG</b>			

Prepared By: <b>Redacted</b>	Date: <b>3/23/2012</b>	For Information or Changes, Call: <b>Redacted</b>	Approved By: <b>Redacted</b>	Date: <b>3-23-12</b>
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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	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)					
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.

<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



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Sheet 1 of 1

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>4</b>	Division/District <b>Redacted</b>	Job Number <b>41617928</b>	Date Job Authorized <b>3-21-12</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 2 - Segment A-B - Hydrostatically Test existing 34" pipe on L-300A. Materials listed are from the "Material of Record" (refer to DWG 41617928, Sheet 5). No spike test for existing 34" piping in Class II due to major elevation changes.**

**Hydrotest L-300A from Redacted (Test Section 055-12)**

Location Class <b>2</b>	Design Factor (F) <b>.6</b>	MAOP to be Established for this Piping by this Test <b>803 PSIG</b>	Future Design Pressure <b>817 PSIG</b>
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>5024 Ft.</b>	Static Head Calculation For Water $0.433 \times \text{Elev. Diff.} =$ <b>110 PSIG</b>	
	Min. Elevation <b>4770 Ft.</b>	Other (Specify)	
	Elev. Diff. <b>254 Ft.</b>	X Elev. Diff. =	<b>PSIG</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.	
34.00	.375	API 5L, X-52, SAWL	2425'		70.01	87.53	100.00	1032
34.00	.375	Elbow API 5L, Y-52	1 Ea.		70.01	87.53	100.00	1032
34.00	.375	API 5L, X-65, SAWL	35'		56.00	70.02	80.00	1291
12.75	.500	API 5L, GR B, SMLS	125'		29.25	36.57	41.78	2471
12.75	-	Blind Flange Assembly, ANSI 600	1 Ea.		-	-	-	-

Minimum Test Pressure @ Max. Elevation <b>1004 PSIG</b>	Test Fluid To Be Used <b>Water</b>	<b>MINIMUM TEST DURATION</b> - 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>1147 PSIG</b>			
Prepared By: Redacted	Date: <b>3/23/12</b>	For Information or Changes, Call: Redacted	Date: <b>3-23-12</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	Elevation at Test Point <b>FT</b>	Min. Required Test Press. At Test Point (1) <b>PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>PSIG</b>
Time and Date Test Ended	Max. Elevation in Test Section <b>FT</b>	Min. Indicated Test Pressure (2) <b>PSIG</b>	Max. Indicated Test Pressure (5) <b>PSIG</b>
Actual Duration of Test	Min. Elevation in Test Section <b>FT</b>	Min. Test Pressure at Max. Elevation (3) <b>PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>PSIG</b>
Test Fluid Used	Pipe Specification and Footage Verified (See Part I)		
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.

<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



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Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>4</b>	Division/District <b>Redacted</b>	Job Number <b>41617928</b>	Date Job Authorized <b>3-21-12</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 3 - Segment B-C - Hydrostatically Test existing 34" pipe on L-300A. Materials listed are from the "Material of Record" (refer to DWG 41617928, Sheet 5). No spike test for existing 34" piping in Class II due to major elevation changes.**

**Hydrotest L-300A from Redacted (Test Section 055-12)**

Location Class <b>2</b>	Design Factor (F) <b>.6</b>	MAOP to be Established for this Piping by this Test <b>803 PSIG</b>	Future Design Pressure <b>817 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>4776 Ft.</b>	Static Head Calculation For Water 0.433 X Elev. Diff. = <b>112 PSIG</b> Other (Specify)
	Min. Elevation <b>4518 Ft.</b>	
	Elev. Diff. <b>258 Ft.</b>	

Size		Pipe Specification API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.				At MAOP	At Min. Test Press.	At Max. Test Press.	
<b>34.00</b>	<b>.375</b>	<b>API 5L, X-52, SAWL</b>	<b>2214'</b>		<b>70.01</b>	<b>87.53</b>	<b>100.00</b>	<b>1032</b>
<b>34.00</b>	<b>.375</b>	<b>Elbow API 5L, Y-52</b>	<b>3 Ea.</b>		<b>70.01</b>	<b>87.53</b>	<b>100.00</b>	<b>1032</b>
<b>34.00</b>	<b>.375</b>	<b>API 5L, X-65, SAWL</b>	<b>15'</b>		<b>56.00</b>	<b>70.02</b>	<b>80.00</b>	<b>1291</b>

Minimum Test Pressure @ Max. Elevation <b>1004 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>
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Maximum Test Pressure @ Min. Elevation <b>1147 PSIG</b>	For Information or Changes, Call: <b>Redacted</b>	Approved By: <b>Redacted</b>	Date: <b>3-23-12</b>
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Prepared By: <b>Redacted</b>	Date: <b>3/23/2012</b>	Approved By: <b>Redacted</b>	Date: <b>3-23-12</b>
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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	Elevation at Test Point <b>FT</b>	Min. Required Test Press. At Test Point (1) <b>PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>PSIG</b>
Time and Date Test Ended	Max. Elevation in Test Section <b>FT</b>	Min. Indicated Test Pressure (2) <b>PSIG</b>	Max. Indicated Test Pressure (5) <b>PSIG</b>
Actual Duration of Test	Min. Elevation in Test Section <b>FT</b>	Min. Test Pressure at Max. Elevation (3) <b>PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>PSIG</b>

Test Fluid Used: \_\_\_\_\_ Pipe Specification and Footage Verified (See Part I)

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
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Test Supervised By:	Date:	Approved By:	Date:
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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.

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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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