



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 L-300A	Area 4	Division/District Redacted	Job Number 41617928	Date Job Authorized 3-21-12
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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 2	Design Factor (F) .6	MAOP to be Established for this Piping by this Test 803 PSIG	Future Design Pressure 817 PSIG
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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. = 0 PSIG
	Elev. Diff. 0 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.	
34.00	.375	API 5L, X-65, SAWL	8'		56.00	70.02	80.00	1291
34.00	.505	CAPS, Y-60	2 Ea.		45.05	56.33	64.35	1604

Minimum Test Pressure @ Max. Elevation	1004 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	4 HOURS
Maximum Test Pressure @ Min. Elevation	1147 PSIG			

Prepared By: Redacted	Redacted	3/23/2012	For Information or Changes, Call: Redacted	Redacted	Date: 3-23-12
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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
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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.

<p>NOTES:</p> <ol style="list-style-type: none"> 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. 	<p>DISTRIBUTION</p> <p>JOB FILE (AT SPONSORING ORGANIZATION)</p> <p>GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT</p> <p>PROJECT MANAGER/PROJECT ENGINEER</p> <p>TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</p> <p>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</p> <p>RECORDS SECTION (WC), GSM&TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING</p>
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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 L-300A	Area 4	Division/District Redacted	Job Number 41617928	Date Job Authorized 3-21-12
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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 MP Redacted Segment A-C Redacted CA (Test Section 055-12)

Location Class 2	Design Factor (F) .6	MAOP to be Established for this Piping by this Test 803 PSIG	Future Design Pressure 817 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 5024 Ft.	Static Head Calculation	
	Min. Elevation 4770 Ft.	For Water	0.433 X Elev. Diff. = 110 PSIG
	Elev. Diff. 254 Ft.	Other (Specify)	PSIG

Pipe Specification		Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size	API or ASTM Grade			At MAOP	At Min. Test Press.	At Max. Test Press.	
O.D.	W.T.	Long Seam (ERW, DSAW, Seamless, Etc.)					
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	1004 PSIG	Test Fluid To Be Used Water	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1147 PSIG			
Prepared By: Redacted	Redacted	For Information or Changes, Call: Redacted	Redacted	Date: 3-23-12

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.

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.	DISTRIBUTION JOB FILE (AT SPONSORING ORGANIZATION) GSM&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
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PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-300A	Area 4	Division/District Redacted	Job Number 41617928	Date Job Authorized 3-21-12
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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 MP Redacted Segment A-C Redacted, CA (Test Section 055-12)

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

Size		Pipe Specification	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
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	2214'		70.01	87.53	100.00	1032
34.00	.375	Elbow API 5L, Y-52	3 Ea.		70.01	87.53	100.00	1032
34.00	.375	API 5L, X-65, SAWL	15'		56.00	70.02	80.00	1291

Minimum Test Pressure @ Max. Elevation	1004 PSIG	Test Fluid To Be Used Water	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1147 PSIG			

Prepared By: Redacted	Redacted	Date: 3/23/2012	For Information or Changes, Call: Redacted	Date: 3-23-12
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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:		

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