



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

# FINAL

62-4921 (Rev. 2/04)  
 California Gas Transmission  
 (Use in accordance with Gas Standard A-31 and GO 112-0)

Sheet 1 of 2

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>Central</b>	Division/District <b>Hollister</b>	Job Number <b>41497305</b>	Date Job Authorized <b>9-09-11</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 2 - Segment A-B - Existing 34" materials listed are from the "Material of Record" (refer to DWG 41497305, sheet 5)**  
**Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300A**

Hydrotest L-300A from Redacted (Test section 65A)

Location Class <b>3</b>	Design Factor (F) <b>.50</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>460 Ft.</b>	Static Head Calculation For Water Other (Specify)	0.433 X Elev. Diff. = <b>62 PSIG</b>
	Min. Elevation <b>316 Ft.</b>		
	Elev. Diff. <b>144 Ft.</b>		

Pipe Specification			Foolage to Be Tested	Pipe Spec. and Foolage 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   .500	API 5L, GR X65, DSAW (Item#101)	8	K.H.G. 29'7"	33.01	49.54	54.50	1721	
34.00   .375	API 5L, GR X65, DSAW (Item#102)	21	K.H.G. 25'7"	44.01	66.05	72.67	1291	
34.00   .344	API 5L, GR X52, DSAW (Item#1)	3263	K.H.G. - M.O.R.	59.97	90.00	99.03	947	
34.00   .406	API 5L, GR X60, DSAW (Item#3)	1245	K.H.G. - M.O.R.	44.04	66.09	72.72	1290	
34.00   .505	API 5L, GR X60, DSAW (Item#4)	118	K.H.G. - M.O.R.	35.40	53.13	58.46	1604	
34.00   .505	ELBOW, GR Y60 (Item#113)	2 Ea.	K.H.G. 2 Each	35.40	53.13	58.46	1604	
34.00   UNK	ELBOW, GR UNK (Item#5)	2 Ea.	K.H.G. - M.O.R.	...	...	...	...	
36.00   .414	API 5L, GR X65, DSAW (Item#2)	896	K.H.G. - M.O.R.	42.21	63.34	69.70	1346	
34.00"   0.505"	Y-60 Cap (Item#153)	2 Ea.	K.H.G. - 1 Each	35.40	53.13	58.63	1604	
34.00"   0.500"	Y-60, 3R 45° Elbow (Item#15)	4 Ea.	M.O.R.					
34.00"   0.500"	Y-60, Tee, STRAIGHT w/ Scribe	1 EA	M.O.R.					

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>1042 PSIG</b>			

Redacted  
 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)**

Time and Date Test Pressure Reached <b>10:40am 9-22-2011</b>	Elevation at Test Point <b>460 FT</b>	Min. Required Test Press. at Test Point (1) <b>947 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>979.6 PSIG</b>
Time and Date Test Ended <b>6:35 9-22-2011</b>	Max. Elevation in Test Section <b>460 FT</b>	Min. Indicated Test Pressure (2) <b>963 PSIG</b>	Max. Indicated Test Pressure (5) <b>965 PSIG</b>
Actual Duration of Test <b>8hr 15 min</b>	Min. Elevation in Test Section <b>316 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>963 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>1027 PSIG</b>

Test Fluid Used: **Water**  
 Pipe Specification and Foolage Verified (See Part I): **K.H.G. A-603**

Make, Range, and Serial No. of Pressure Recording Gauge <b>Barton 0-3000 202A-175572</b>	Date Last Calibrated <b>6-7-2011</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>Chandler 50-3000 6106</b>	Date Last Calibrated <b>5-19-2011</b>
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Test Supervised by: **Redacted** Date: **9-22-2011**  
 Approved By: *[Signature]* Date: **9-28-11**

**PUT SCHEMATIC**  
 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> (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 80% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.	<b>DISTRIBUTION</b> 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), GSM&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 <b>L-300A</b>		Area <b>Central</b>	Division/District <b>Hollister</b>	Job Number <b>41497305</b>	Date Job Authorized <b>9-09-11</b>			
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 2 -- Segment A-B - Existing 34" materials listed are from the "Material of Record" (refer to DWG 41497305, sheet 5)          Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300A</b>								
Hydrotest L-300A from [Redacted]				(Test section 65A)				
Location Class <b>3</b>	Design Factor (F) <b>.50</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>460 Ft.</b>	Static Head Calculation					
		Min. Elevation <b>316 Ft.</b>	For Water $0.433 \times \text{Elev. Diff.} =$		<b>62 PSIG</b>			
		Elev. Diff. <b>144 Ft.</b>	Other (Specify)		<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.	
36.00	.500	ELBOW, GR Y60 (Item#6)	4 Ea.	K.L.G. - M.O.R.	37.86	56.82	62.52	1500
1.050	.154	API 5L, GR B, SMLS (Item#9)	127	K.L.G. - M.O.R.	6.15	9.22	10.15	9240
2.375	.154	API 5L, GR B, SMLS (Item#11)	18	K.L.G. - M.O.R.	13.90	20.86	22.96	4085
2.375	.154	ELBOW, GR B (Item#12)	1 Ea.	K.L.G. - M.O.R.	13.90	20.86	22.96	4085
1.00		VALVE TEE, Mueller H-17656 (Item#7)	3 Ea.	K.L.G. - M.O.R.	...	...	...	...
2.00		VALVE, Ball, ANSI 600, W.E. (Item#10)	1 Ea.	K.L.G. - M.O.R.	...	...	...	...
34.00		VALVE, Ball, ANSI 400, W.E. (Item#8)	1 Ea.	K.L.G. - M.O.R.	...	...	...	...
2.00		FLANGE, RF, ANSI 400 (Item#13)	1 Ea.	K.L.G. - M.O.R.	...	...	...	...
2.00		FLANGE, Blind, ANSI 400 (Item#14)	1 Ea.	K.L.G. - M.O.R.	...	...	...	...

Minimum Test Pressure @ Max. Elevation	<b>947 PSIG</b>	Test Fluid To Be Used	<b>WATER</b>	MINIMUM TEST DURATION	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation	<b>1042 PSIG</b>			- UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Redacted 9/09/11 For Information or Changes, Call: **Mark Cabral (925) 588-3640** Approved By: *Mark Cabral* Date: **9-9-11**

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

Time and Date Test Pressure Reached				<b>10:40am 9-22-2011</b>	Elevation at Test Point	<b>460 FT</b>	Min. Required Test Press. At Test Point (1)	<b>947 PSIG</b>	Max. Allowable Test Press at Test Point (4)	<b>979.6 PSIG</b>		
Time and Date Test Ended				<b>6:55am 9-22-2011</b>	Max. Elevation in Test Section	<b>460 FT</b>	Min. Indicated Test Pressure (2)	<b>963 PSIG</b>	Max. Indicated Test Pressure (5)	<b>965 PSIG</b>		
Actual Duration of Test				<b>8 hr 15 min</b>	Min. Elevation in Test Section	<b>316 FT</b>	Min. Test Pressure at Max. Elevation (3)	<b>963 PSIG</b>	Max. Test Pressure at Min. Elevation (6)	<b>1027 PSIG</b>		
Test Fluid Used				<b>water</b>	Pipe Specification and Footage Verified (See Part I) <b>K.L.G. A-603</b>							
Make, Range, and Serial No. of Pressure Recording Gauge			<b>Bartron 0-3000 202A-175572</b>	Date Last Calibrated	<b>6-7-2011</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)			<b>Chandler 50-3000 6106</b>	Date Last Calibrated	<b>5-17-2011</b>	
Test Supervised By				<b>Redacted</b>	Date	<b>9-22-2011</b>	Approved By:			<i>John Mennel</i>	Date	<b>9-25-11</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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