



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 GQ-112-D)

Sheet 1 of 2

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

Feeder Main Number, Line Number, or Station Name: <b>L-101</b>	Area: <b>1</b>	Division/District: <b>Peninsula</b>	Job Number: <b>41474062-T2/3</b>	Date Job Authorized: <b>5/27/11</b>
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**STPR #41474062T3 - Hydrostatically test 36" tie-in piping, hydrostatic test piping and existing 30", 34" and 36" L-101. Existing material listed; i.e. pipe, elbows, sleeves, are from the "Material of Record". (refer to DWG 414740062-T2/3, Sheet 7).**

**T-3 - Hydrotest L-101 from MP 3.08 to MP 4.66, in Santa Clara. (Location B to A on Dwg. 414740062-T2/T3)**

Location Class: <b>3</b>	Design Factor (F): <b>.5</b>	MAOP to be Established for this Piping by this Test: <b>400 PSIG</b>	Future Design Pressure: <b>400 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHILE APPLICATION)	Max. Elevation: <b>8</b> Ft.	Static Head Calculation	For Water: 0.433 X Elev. Diff. = <b>4.0</b> PSIG
	Min. Elevation: <b>0</b> Ft.		
	Elev. Diff. <b>8</b> Ft.	Other (Specify):	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	API or ASTM Grade Long Seam (FRW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
36.00	0.500	API 5L, X-65, DSAW (Item #50)	70 - 1 1/2"	22.15	37.66	43.20	1625
30.00	0.500	API 5L, X-60, DSAW (Item #13)	1504.5'	20.00	34.00	39.00	1800
36.00	0.350	API 5L, X-52, DSAW (Item #1)	6137'	39.56	67.25	77.14	910
36.00	0.4375	API 5L, X-52, DSAW (Item #2)	217'	31.65	53.80	61.70	1138
34.00	0.562	API 5L, X-60, DSAW (Item #11)	6'	20.17	34.28	39.32	1785
34.00	0.375	API 5L, X-46, DSAW (Item #10)	419'	39.42	67.01	76.87	913
36.00	0.432	API 5L, X-60, DSAW (Item #5)	7.5'	27.78	47.22	54.17	1296
34.00	0.4375	API 5L, X-52, DSAW (Item #8)	64'	29.89	50.81	58.29	1205
10.75	0.365	API 5L, GrB, SMLS (Item #53)	10'	16.83	28.61	32.82	2139
3.500	0.216	API 5L, GrB, SMLS (Item #54)	10'	9.26	15.74	18.06	3888
1.375	0.154	API 5L, GrB, SMLS (Item #55)	18' 10"	8.81	14.98	17.18	4085

Minimum Test Pressure @ Max. Elevation: <b>680 PSIG</b>	Test Fluid To Be Used: <b>WATER</b>	MINIMUM TEST DURATION: - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (3 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'X', GAS STD. A-34)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation: <b>780 PSIG</b>			

Prepared By: **Mark Cabral** Date: **05/27/11** For Information or Changes, Call: **Scott Clapp (925) 588-3640** Approved By: *[Signature]* Date: **6/7/11** (3)

**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>6-7-11 751 PSI 1245 am</b>	Elevation at Test Point: <b>8 FT</b>	Min. Required Test Press. At Test Point (1): <b>680 PSIG</b>	Max. Allowable Test Press. at Test Point (4): <b>777 PSIG</b>
Time and Date Test Ended: <b>6-7-11 702 PSI 900 am</b>	Max. Elevation in Test Section: <b>8 FT</b>	Min. Indicated Test Pressure (2): <b>702 PSIG</b>	Max. Indicated Test Pressure (5): <b>751 PSIG</b>
Actual Duration of Test: <b>8 hrs. 15 min</b>	Min. Elevation in Test Section: <b>0 FT</b>	Min. Test Pressure at Max. Elevation (3): <b>702 PSIG</b>	Max. Test Pressure at Min. Elevation (6): <b>754 PSIG</b>

Test Fluid Used: **Water** Pipe Specification and Footage Verified (See Part I): **Above**

Make, Range, and Serial No. of Pressure Recording Gauge: <b>CPL 1703 0-1000 PSI</b>	Date Last Calibrated: <b>5-2-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7): <b>Ametek 0-3500 PSI 2845</b>	Date Last Calibrated: <b>11-29-10</b>
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Test Supervised By: *[Signature]* Date: **6-11-11** Approved By: *[Signature]* 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, WAIVE 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)  
 GSA&S RESPONSIBLE DISTRICT SUPERINTENDENT  
 PROJECT MANAGER/PROJECT ENGINEER  
 TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  
 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)  
 RECORDS SECTION (WC), GSA&S  
 REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

*[Handwritten signature]* original signed 6-8-11 (2) original signed 6-7-11



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  
 (Permit Accordance with Gas Standard A-31 and G-1120)

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

Feeder/Main Number, Line Number, or Station Name <b>L-101</b>	Area <b>1</b>	Division/District <b>Peninsula</b>	Job Number <b>41474062-T2/3</b>	Date Job Authorized <b>5/27/11</b>
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**STPR 41474062T3 - Hydrostatically test 36" tie-in piping, hydrostatic test piping and existing 30", 34" and 36" L-101. Existing material listed; i.e. pipe, elbows, sleeves, are from the "Material of Record". (refer to DWG 414740062-T2/3, Sheet 7).**

**T-3 - Hydrotest L-101 from MP 3.08 to MP 4.66, in Santa Clara. Test 3 (Location B to A on Dwg. 414740062-T2/T3)**

Location Class <b>3</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>400 PSIG</b>	Future Design Pressure <b>400 PSIG</b>
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>8 Ft.</b>	Min. Elevation <b>0 Ft.</b>	Elev. Diff. <b>8 Ft.</b>
Static Head Calculation:		For Water: <b>0.433 X Elev. Diff. = 4.0 PSIG</b>	
		Other (Specify): _____ X Elev. Diff. = _____ PSIG	

Size		Pipe Specification		Foolage to Be Tested	Pipe Spec. and Foolage Verified in Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.	API or ASTM Grade	Long Seam (FRW, DSAW, Seamless, Etc)			At MAOP	At Min. Test Press.	At Max. Test Press.	
36.00	0.375	Elbow, Y-52	(Item#14)	6 Ea.		36.92	62.77	72.00	975
30.00	0.500	Elbow, Y-60	(Item#22)	14 Ea.		20.00	34.00	39.00	1800
34.00	UNK	Sleeve, Unknown Grade	(Item#31)	1 Ea.		-	-	-	-
36.00	0.375	Elbow, Unknown Grade	(Item#24)	4 Ea.		-	-	-	-
36.00	UNK	Sleeve, Unknown Grade	(Item#30)	2 Ea.		-	-	-	-
34.00	0.500	Elbow, Unknown Grade	(Item#23)	1 Ea.		-	-	-	-

Minimum Test Pressure @ Max. Elevation <b>680 PSIG</b>	Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (6 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A 34)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>780 PSIG</b>			

Prepared By: <b>Mark Cabral</b>	Date: <b>05/27/11</b>	For Information or Changes, Call: <b>Scott Clapp (925) 588-3640</b>	Approved By: <i>[Signature]</i>	Date: <b>6/7/11</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 <b>6-7-11 761 PSI 1245 am</b>	Elevation at Test Point <b>8 FT</b>	Min. Required Test Press. at Test Point (1) <b>680 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>777 PSIG</b>
Time and Date Test Ended <b>6-7-11 702 PSI 600 am</b>	Max. Elevation in Test Section <b>8 FT</b>	Min. Indicated Test Pressure (2) <b>702 PSIG</b>	Max. Indicated Test Pressure (5) <b>751 PSIG</b>
Actual Duration of Test <b>8 hrs. 15 min</b>	Min. Elevation in Test Section <b>0 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>702 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>754 PSIG</b>

Test Fluid Used: **Water** Pipe Specification and Foolage Verified (See Part I): **Above**

Make, Range, and Serial No. of Pressure Recording Gauge <b>CPL 1703 0-1000 PSI</b>	Date Last Calibrated <b>5-2-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>Ametek 0-3500 PSI 2845</b>	Date Last Calibrated <b>11-29-10</b>
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Test Supervised By: <i>[Signature]</i>	Date: <b>8-11-11</b>	Approved By: <i>[Signature]</i>	Date: <b>8-4-11</b>
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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 HUBBERS AND INCORPORATED ARFAS. 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> <ul style="list-style-type: none"> <li>JOB FILE (AT SPONSORING ORGANIZATION)</li> <li>GSM&amp;TS RESPONSIBLE DISTRICT SUPERINTENDENT</li> <li>PROJECT MANAGER/PROJECT ENGINEER</li> <li>TECHNICAL &amp; CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</li> <li>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</li> <li>RECORDS SECTION (WC), GSM&amp;TS</li> <li>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; PLANNING</li> </ul> |
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① originally signed on 6-8-11 ② original signed 6-7-11  
 ③ original signed 5/29/11