



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

Feeder Main Number, Line Number, or Station Name <b>L-148</b>	Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>	Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 1 - Hydrostatically test 8" &amp; 6" isolation caps &amp; tie-in assembly at [Redacted]</b>				
Hydrotest L-148 from [Redacted] Manteca & Modesto, CA (T-097-12) <b>REVISION 1: CHANGED NITROGEN TEST LOCATIONS</b>				
Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>	Future Design Pressure <b>720 PSIG</b>	

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation _____ Ft.	Min. Elevation _____ Ft.	Elev. Diff. <b>0</b> Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = <b>0 PSIG</b> Other (Specify) _____ X Elev. Diff. = _____ PSIG
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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.	
8.625	0.322	Pipe, API 5L, GR B, SMLS (Item #112)	8'-4"		15.61	26.56	30.23	2352
6.625	0.280	Pipe, API 5L, GR B, SMLS (Item #113)	6'		13.79	23.46	26.70	2663
8.625	0.322	Tee, Straight, GR B (Item #219)	1 Ea.		15.61	26.56	30.23	2352
6.625	0.280	Elbow, 45 Deg, GR B, LR (Item #221)	1 Ea.		13.79	23.46	26.70	2663
6.625	0.280	Elbow, 90 Deg, GR B, LR (Item #222)	1 Ea.		13.79	23.46	26.70	2663
8.625	0.322	Reducer 8x6, GR B (Item #139)	1 Ea.		15.61	26.56	30.23	2352
8.625	0.322	Cap, GR B (Item #163)	2 Ea.		15.61	26.56	30.23	2352
6.625	0.280	Cap, GR B (Item #164)	1 Ea.		13.79	23.46	26.70	2663
8.625	0.322	Valve, Ball, ANSI 300	1 Ea.		-	-	-	-

Minimum Test Pressure @ Max. Elevation	<b>694 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>1 HOUR</b>
Maximum Test Pressure @ Min. Elevation	<b>790 PSIG</b>	or Changes, Call: <b>al (925) 588-3640</b> Approved By: <i>Mark Schrod</i> Date: <b>3-8-12</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.

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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), GMS&amp;TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; 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 <b>L-148</b>	Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>	Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>
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Description of Job -- Include Reference Drawing Numbers and Pipeline Mileposts  
**Test 2 - Test 8" L-148 underneath Redacted Existing material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record". (Refer to DWG 41617948 - Sheet 7)**  
 \* - Assumed values from PG&E Resolution of Unknown Pipeline Features and GS&S.

Hydrotest L-148 from Redacted Manteca & Modesto, CA (T-097-12) **REVISION 1: CHANGED NITROGEN TEST LOCATIONS**

Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>	Future Design Pressure <b>720 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	<b>32</b> Ft.	Static Head Calculation For Water Other (Specify)	0.433 X Elev. Diff. = _____ PSIG X Elev. Diff. = <b>0</b> PSIG
	Min. Elevation	<b>27</b> Ft.		
	Elev. Diff.	<b>5</b> Ft.		

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.	
8.625	0.322	Pipe, API 5L, GR B, SMLS (Item #112)	2'		15.61	26.56	30.23	2352
8.625	0.312	Pipe, SMLS 24,000(assumed) (Item #2)	425'		23.50	39.97	45.50	1562
8.625	0.277	Pipe, API 5L GR B, SMLS (Item #3)	3228'		18.15	30.87	35.14	2023
4.500	0.148	Pipe, GR B (35,000) (Item #5)	10'		17.72	30.14	34.31	2072
1.050	0.113*	Pipe, GR 28000* (Item #7)	421'		6.77	11.52	13.11	5424
8.625	0.322	Cap, GR B (Item #163)	2 Ea.		15.61	26.56	30.23	2352
8.625	0.322	Elbow, GR B, LR (Item #4)	6 Ea.		15.61	26.56	30.23	2352

Minimum Test Pressure @ Max. Elevation	<b>694 PSIG</b>	Test Fluid To Be Used <b>NITROGEN</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>1 HOUR</b>
Maximum Test Pressure @ Min. Elevation	<b>790 PSIG</b>			

Redacted

For Information or Changes, Call: **Mark Cabral (925) 588-3640**

Approved By: *Mark Cabral* Date: **3-8-12**

**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	<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: \_\_\_\_\_

**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> (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.	<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), GMS&TS  REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING
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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 **2**

<b>PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)</b>									
Feeder Main Number, Line Number, or Station Name <b>L-148</b>		Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>		Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>			
Description of Job -- Include Reference Design Number and Disposal Methods <b>Test 3 - Test 8" L-148 from [Redacted] to the west of the western levee of [Redacted] Existing material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record". (Refer to DWG 41617948 - Sheet 7)</b>									
Hydrotest L-148 from [Redacted] Manteca, CA (T-097-12)				<b>REVISION 1: CHANGED NITROGEN TEST LOCATIONS</b>					
Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>			Future Design Pressure <b>720 PSIG</b>				
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation <b>36 Ft.</b>	Static Head Calculation		5 PSIG				
		Min. Elevation <b>25 Ft.</b>	For Water		0.433 X Elev. Diff. =				
		Elev. Diff. <b>11 Ft.</b>	Other (Specify)		X Elev. Diff. = PSIG				
Pipe Specification									
Size		API or ASTM Grade		Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.	Long Seam (ERW, DSAW, Seamless, Etc.)				At MAOP	At Min. Test Press.	At Max. Test Press.	
<b>8.625</b>	<b>0.322</b>	<b>Pipe, API 5L, GR B, SMLS (Item #112)</b>		<b>19'</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
<b>8.625</b>	<b>0.322</b>	<b>Elbow, GR B, 90 Deg 3R (Item #128)</b>		<b>4 Ea.</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
Minimum Test Pressure @ Max. Elevation		<b>694 PSIG</b>		Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION			<b>1 HOUR</b>	
Maximum Test Pressure @ Min. Elevation		<b>790 PSIG</b>			- UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)				
Redacted				or Information or Changes, Call: <b>Mark Cabral (925) 588-3640</b>		Approved By: <i>Mark Cabral</i>		Date: <b>3-8-12</b>	
<b>PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)</b>					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: _____					
<b>PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET</b>									
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					



Pacific Gas and Electric Company  
**Gas Pipeline Facilities Strength Test Pressure Report**  
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62-4921 (Rev. 2/04)  
 California Gas Transmission  
 (Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 2 of 2

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

Feeder Main Number, Line Number, or Station Name <b>L-148</b>	Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>	Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>
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Description of Job -- Include Reference Drawing Numbers and Pipeline Mileposts  
**Test 3 - Test 8" L-148 from Redacted to the west of the western levee of the Redacted** Existing material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record". (Refer to DWG 41617948 - Sheet 7)  
 \* - Assumed values from PG&E Resolution of Unknown Pipeline Features and GS&S.

Hydrotest L-148 from Redacted Manteca, CA (T-097-12) **REVISION 1: CHANGED NITROGEN TEST LOCATIONS**

Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>	Future Design Pressure <b>720 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>36 Ft.</b>	Static Head Calculation	
	Min. Elevation <b>25 Ft.</b>	For Water	0.433 X Elev. Diff. = <b>5 PSIG</b>
	Elev. Diff. <b>11 Ft.</b>	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 O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)				At MAOP	At Min. Test Press.	At Max. Test Press.	
8.625	0.277	Pipe, API 5L GR B, SMLS (Item #3)		8,229'		18.15	30.87	35.14	2023
1.315	0.133*	Pipe, GR 28000* (Item #6)		1'		7.20	12.25	13.95	5097
1.050	0.113*	Pipe, GR 28000* (Item #7)		53'		6.77	11.52	13.11	5424
0.840	0.147*	Pipe, GR 28000* (Item #8)		1'		4.16	7.08	8.06	8820
8.625	0.322	Elbow, GR B, LR (Item #4)		4 Ea.		15.61	26.56	30.23	2352

Minimum Test Pressure @ Max. Elevation <b>694 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>1 HOUR</b>
Maximum Test Pressure @ Min. Elevation <b>790 PSIG</b>	Changes, Call: <b>(925) 588-3640</b>	Approved By: <i>Mark Schell</i>	Date: <b>3-8-12</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	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:**
- 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)
  - 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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Sheet **1** of **2**

<b>PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)</b>								
Feeder Main Number, Line Number, or Station Name <b>L-148</b>		Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>		Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>		
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 4 - Test 8" L-148 from east of eastern levee d[Redacted] to MLV-6.06. Existing material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record" (Refer to DWG 41617948 - Sheet 7)</b>								
Hydrotest L-148 from [Redacted] Modesto, CA (T-097-12)				<b>REVISION 1: CHANGED NITROGEN TEST LOCATIONS</b>				
Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>			Future Design Pressure <b>720 PSIG</b>			
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation <b>46 Ft.</b>	Min. Elevation <b>27 Ft.</b>	Elev. Diff. <b>19 Ft.</b>	Static Head Calculation For Water 0.433 X Elev. Diff. = <b>8 PSIG</b>		Other (Specify) X Elev. Diff. = <b>PSIG</b>	
Pipe Specification				Pipe Spec. and Footage Verified In Field		% of SMYS		Pressure to Give 90% SMYS
Size	API or ASTM Grade		Footage to Be Tested		At MAOP	At Min. Test Press.	At Max. Test Press.	
O.D.	W.T.	Long Seam (ERW, DSAW, Seamless, Etc.)						
<b>8.625</b>	<b>0.322</b>	<b>Pipe, API 5L, GR B, SMLS (Item #112)</b>	<b>36'</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
<b>4.500</b>	<b>0.237</b>	<b>Pipe, API 5L, GR B, SMLS (Item #114)</b>	<b>3' 8"</b>		<b>11.07</b>	<b>18.82</b>	<b>21.43</b>	<b>3318</b>
<b>1.050</b>	<b>0.154</b>	<b>Pipe, API 5L, GR B, SMLS (Item #115)</b>	<b>12'</b>		<b>3.97</b>	<b>6.76</b>	<b>7.69</b>	<b>9240</b>
<b>8.625</b>	<b>0.322</b>	<b>Elbow, GR B, 90 Deg 3R (Item #128)</b>	<b>4 Ea.</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
<b>1.050</b>	<b>0.154</b>	<b>Elbow, 45 Deg (Item #214)</b>	<b>6 Ea.</b>		<b>3.97</b>	<b>6.76</b>	<b>7.69</b>	<b>9240</b>
<b>8.625</b>	<b>0.322</b>	<b>Valve, Ball, ANSI 300, WE (Item #148)</b>	<b>1 Ea.</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>4.500</b>	<b>0.237</b>	<b>Valve, Ball, ANSI 300, FE (Item #150)</b>	<b>2 Ea.</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>8.625</b>	<b>0.322</b>	<b>Tee, Reducing, 8" x 4" Outlet Std. Wall, GR B (Item #211)</b>	<b>2 Ea.</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
Minimum Test Pressure @ Max. Elevation		<b>694 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>1 HOUR</b>	
Maximum Test Pressure @ Min. Elevation		<b>790 PSIG</b>		For Information or Changes, Call: <b>Mark Cabral (925) 588-3640</b>	Approved By: <i>Mark Cabral</i>	Date: <b>3-7-12</b>		
<b>PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)</b>					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:	
<b>PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET</b>								
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				



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 **2** of **2**

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

Feeder Main Number, Line Number, or Station Name <b>L-148</b>	Area <b>5</b>	Division/District <b>Stockton/Yosemite</b>	Job Number <b>41617948</b>	Date Job Authorized <b>02/24/2012</b>
Description of Job -- Include Reference Drawing Numbers, and Pipeline Milepoints <b>Test 4 - Test 8" L-148 from east of eastern levee of [Redacted] to MLV-6.06. Existing material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record". (Refer to DWG 41617948 - Sheet 7)</b>				
Hydrotest L-148 from [Redacted] Modesto, CA (T-097-12) <b>REVISION 1: CHANGED NITROGEN TEST LOCATIONS</b>				
Location Class <b>2</b>	Design Factor (F) <b>.5</b>	MAOP to be Established for this Piping by this Test <b>408 PSIG</b>	Future Design Pressure <b>720 PSIG</b>	
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>46 Ft.</b>	Min. Elevation <b>27 Ft.</b>	Elev. Diff. <b>19 Ft.</b>	Static Head Calculation For Water $0.433 \times \text{Elev. Diff.} =$ <b>8 PSIG</b> Other (Specify) $\times \text{Elev. Diff.} =$ <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.	
<b>8.625 0.322</b>	<b>Pipe, API 5L, GR B, SMLS (Item #1)</b>	<b>53'</b>		<b>15.61</b>	<b>26.56</b>	<b>30.23</b>	<b>2352</b>
<b>8.625 0.277</b>	<b>Pipe, API 5L, GR B, SMLS (Item #3)</b>	<b>20,012'</b>		<b>18.15</b>	<b>30.87</b>	<b>35.14</b>	<b>2023</b>

Minimum Test Pressure @ Max. Elevation <b>694 PSIG</b>	Maximum Test Pressure @ Min. Elevation <b>790 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>1 HOUR</b>
[Redacted]		For Information or Changes, Call: <b>Mark Cabral (925) 588-3640</b>	Approved By: <i>Mark Cabral</i>	Date: <b>3-7-12</b>

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

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.

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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), GMS&amp;TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; PLANNING</p> |
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