



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-34 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 L-148		Area 5	Division/District Yosemite			Job Number 41474082	Date Job Authorized 10/03/11		
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts Test 3 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 8" L-148. Existing pipeline material listed; ie. Pipe, elbows, sleeves are from the "Material of Record" (refer to Dwg 41474082, sheet 8 of 8) Hydrotest L-148 from MP 14.60 - 17.63 Modesto, CA (Test section 109 East)									
Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 675 PSIG			Future Design Pressure 720 PSIG				
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation 90 Ft.	Static Head Calculation			For Water 0.433 X Elev. Diff. = 1 PSIG			
		Min. Elevation 88 Ft.	Other (Specify)			X Elev. Diff. = 1 PSIG			
		Elev. Diff. 2 Ft.							
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.	
8.625	0.188	Pipe, API 5L X-52, ERW (item #111)		28'	39.6 ft	29.78	44.69	49.63	2040
8.625	0.219	EII, Forged, Y-52, LR (item #200)		4Ed.	59'	25.56	38.36	42.60	2377
8.625	0.277	Pipe, API 5L Gr B, SMLS (item #1)		2547'	2543.8'	30.03	45.06	50.04	2023
8.625	0.188	Pipe, API 5L X-42, ERW (item #2)		21'	21'	36.87	55.33	61.44	1648
Minimum Test Pressure @ Max. Elevation 1013 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 1125 PSIG				Prepared By: Kyle Criner Date: 10/3/11 For Information or Changes, Call: Mark Cabral (925) 588-3640 Approved By: Mark Cabral Date: 10-3-11					
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	1:53 PM 10-25-2011	Elevation at Test Point	90 FT	Min. Required Test Press. At Test Point (1)	1013 PSIG	Max. Allowable Test Press at Test Point (4)	1124 PSIG		
Time and Date Test Ended	10:14 PM 10-25-2011	Max. Elevation in Test Section	90 FT	Min. Indicated Test Pressure (2)	1034 PSIG	Max. Indicated Test Pressure (5)	1114 PSIG		
Actual Duration of Test	8 hour 21 min	Min. Elevation in Test Section	88 FT	Min. Test Pressure at Max. Elevation (3)	1034 PSIG	Max. Test Pressure at Min. Elevation (6)	1114 PSIG		
Test Fluid Used water			Pipe Specification and Footage Verified (See Part I) A-586						
Make, Range, and Serial No. of Pressure Recording Gauge Barton 0-3000 PSI 202E-21028		Date Last Calibrated 8-15-2011	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler 50-2000 PSI 6106			Date Last Calibrated 5-19-2011			
Test Supervised By: Timothy McKnight		Date: 10-25-2011	Approved By: Julie Marnie			Date: 11-2-11			
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:					DISTRIBUTION				
(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)

FINAL

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 L-148	Area 5	Division/District Yosemite	Job Number 41474082	Date Job Authorized 10/03/11
--	------------------	--------------------------------------	-------------------------------	--

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Test 3 -- Hydrostatically test tie-in pieces, hydrostatic test piping and existing 8" L-148. Existing pipeline material listed; ie. Pipe, elbows, sleeves are from the "Material of Record" (refer to Dwg 41474082, sheet 8 of 8)
Hydrotest L-148 from MP 14.60 - 17.63 Modesto, CA (Test section 109 East)

Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 675 PSIG	Future Design Pressure 720 PSIG
----------------------------	--------------------------------	--	---

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 90 Ft.	Static Head Calculation	
	Min. Elevation 88 Ft.	For Water	0.433 X Elev. Diff. = 1 PSIG
	Elev. Diff. 2 Ft.	Other (Specify)	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.	
8.625	0.188	EII, Grade Unknown (item #3)		1 Ea.	MOR	-	-	-	-
8.625	Unk	Insulating Fitting (item #5)		1 Ea.	MOR	-	-	-	-
1.050	0.113	Pipe, API 5L Gr B, SMLS (item #11)		66'	MOR	8.96	13.45	14.93	6780

Minimum Test Pressure @ Max. Elevation 1013 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 1125 PSIG			

Prepared By: **Kyle Criner** Date: **10/3/11** For Information or Changes, Call: **Mark Cabral** (925) 588-3640 Approved By: **Mark Cabral** Date: **10-3-11**

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 1:53 PM 10-25-2011	Elevation at Test Point 90 FT	Min. Required Test Press. At Test Point (1) 1013 PSIG	Max. Allowable Test Press at Test Point (4) 1124 PSIG
Time and Date Test Ended 10:14 10-25-2011	Max. Elevation in Test Section 90 FT	Min. Indicated Test Pressure (2) 1034 PSIG	Max. Indicated Test Pressure (5) 1114 PSIG
Actual Duration of Test 8 hour 21 min	Min. Elevation in Test Section 88 FT	Min. Test Pressure at Max. Elevation (3) 1034 PSIG	Max. Test Pressure at Min. Elevation (6) 1114 PSIG

Test Fluid Used: **water** Pipe Specification and Footage Verified (See Part I): **A-586**

Make, Range, and Serial No. of Pressure Recording Gauge Barton 0-3000 PSI 2025-218025	Date Last Calibrated 8-15-2011	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler 50-3000 PSI 6106	Date Last Calibrated 5-11-2011
---	--	--	--

Test Supervised By: **[Signature]** Date: **10-25-2011** Approved By: **[Signature]** Date: **11-2-11**

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), GSM&TS
 - REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING