

FINAL



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
 (Used in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 2

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)					
Feeder Main Number, Line Number, or Station Name L-132	Area 1	Division/District Peninsula	Job Number 41497353	Date Job Authorized	
Description of Job - Include Reference Drawing Numbers, and Pipeline Mepots Test 2 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 24" & 30" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" refer to Dwg 41497353, sheet 6 of 6					
Hydrotest L-132 from MP Redacted		Woodside, CA (Test section 32)			
Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 400 PSIG	Future Design Pressure 400 PSIG		
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation 873 FT.	Static Head Calculation For Water 0.433 X Elev. Diff. = 188 PSIG		
		Min. Elevation 438 FT.		X Elev. Diff. = PSIG	
		Elev. Diff. 435 FT.	Other (Specify)		
Pipe Specification			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.)	Footage to Be Tested	At MAOP	At Min. Test Press.
30.00	0.375	Pipe, API 5L, X-65, DSAW (item #103)	27'	24.62	36.92
24.00	0.375	Pipe, API 5L, X-60, DSAW (item #106)	27'	21.33	32.00
30.00	0.375	Ell, Forged, LR, Y-60 (item #120)	2 Ea.	26.67	40.00
24.00	0.375	Ell, Forged, LR, Y-60 (item #123)	2 Ea.	21.33	32.00
30.00	0.298	Pipe, API 5L, X-60, DSAW (item #1)	2858'	33.56	50.34
24.00	0.281	Pipe, 45000 SMYS, SMLS (item #2)	9804'	37.96	56.94
24.00	0.312	Pipe, API 5L, X-60, DSAW (item #3)	142' ✓	25.64	38.46
30.00	0.298	Ell, Forged, LR, Y-60 (item #4)	3 Ea. ✓	33.56	50.34
Minimum Test Pressure @ Max. Elevation		600 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)	
Maximum Test Pressure @ Min. Elevation		855 PSIG		8 HOURS	
Prepared By: Mark Cabral	Date: 8-6-11	For Information or Changes, Call: Redacted	Approve	Redacted	Date: 8/6/11
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	9:34 PM 11-2-11	Elevation at Test Point	556 FT	Min. Required Test Press. At Test Point (1)	737.37 PSIG
Time and Date Test Ended	5:45 AM 11-3-11 AM	Max. Elevation in Test Section	873 FT	Min. Indicated Test Pressure (2)	745.00 PSIG
Actual Duration of Test	8 Hours 11 minutes	Min. Elevation in Test Section	438 FT	Min. Test Pressure at Max. Elevation (3)	607.63 PSIG
Test Fluid Used	Water		Redacted	Redacted (See Part I)	
Make, Range, and Serial No. of Pressure Recording Gauge Boston 0-100 - 202-3829	Date Last Calibrated 10-25-11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) MASTER 25-30001 HL 4321	Date Last Calibrated 10-10-11		
Test Supervisor Redacted	Date: 11-5-11	Applicant Redacted	Date: 11-28-11		
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: <ul style="list-style-type: none"> (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) GMS&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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 California Gas Transmission
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Sheet 2 of 2

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)								
Feeder Main Number, Line Number, or Station Name L-132	Area 1	Division/District Peninsula	Job Number 41497353	Date Job Authorized				
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts Test 2 - Hydrostatically test lie-in pieces, hydrostatic test piping and existing 24" & 30" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497353, sheet 6 of 6) Hydrotest L-132 from MP Redacted Woodside, CA (Test section 32)								
Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 400 PSIG	Future Design Pressure 400 PSIG					
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 873 Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = 188 PSIG	X Elev. Diff. = PSIG					
Elev. Diff. 435 Ft.								
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.			
24.00	0.375	Ell, Forged, LR, Y-60 (Item #6)	8 Ea.	MOR.	21.33	32.00	45.60	1688
24.00	0.3125	Ell, Unknown (Item #7)	35 Ea.	MOR.	-	-	-	-
-	-	Sleeve, Unknown (Item #10)	2 Ea.	MOR.	-	-	-	-
30.00	0.375	Reducer, 30"x24", Unknown (Item #11)	1 Ea.	MOR.	-	-	-	-
Minimum Test Pressure @ Max. Elevation	600 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	855 PSIG							
Prepared By: Mark Cabral	Date 8-6-11	For Information on Changes, Call Redacted	Approved Redacted	Date: 8-6-11				
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	9:34 PM 11-4-11	Elevation at Test Point 556 FT	Min. Required Test Press. At Test Point (1) 73737 PSIG	Max. Allowable Test Press. at Test Point (4) 80387 PSIG				
Time and Date Test Ended	5:45 AM 11-5-11	Max. Elevation in Test Section 873 FT	Min. Indicated Test Pressure (2) 745 PSIG	Max. Indicated Test Pressure (5) 748 PSIG				
Actual Duration of Test	8 - hours 11 - minutes	Min. Elevation in Test Section 438 FT	Min. Test Pressure at Max. Elevation (3) 607.63 PSIG	Max. Test Pressure at Min. Elevation (6) 649.5 PSIG				
Test Fluid Used Water		Pipe Specification and Footage Verified (See Part I) 2126 A601						
Make, Range, and Serial No. of Pressure Recording Gauge Bartec 0-1000 202-3829	Date Last Calibrated 10-25-11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Ametek 0-3000 4L-4321	Date Last Calibrated 10-26-11					
Redacted	Date: 11-5-11	Approved By Redacted	Date: 11-28-11					
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), GMS&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		