



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

Feeder Main Number, Line Number, or Station Name L-153	Area 2	Division/District Mission	Job Number 41474085	Date Job Authorized 6/23/11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
 Hydrostatically test 30" tie-in piping, hydrostatic test piping, and existing 30" L-153
 Existing 30" materials listed are from the Material of Record" (refer to DRWG 41474085 Sheet 6), revised per design change #3
 Hydrotest L-153 from MP 9.20 - 13.61 Hayward, CA (Test section 45)

Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 420 PSIG	Future Design Pressure 420 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 34 Ft.	Min. Elevation 3 Ft.	Elev. Diff. 31 Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = 13 PSIG Other (Specify) _____ X Elev. Diff. = _____ PSIG
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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.	
30.00	.375	API 5L, GR X-65, DSAW	151'	143.5' A	25.85	43.94	53.85	1463
30.00	.424	GR X-65, DSAW (item #6)	143'	M.O.R.	22.86	38.86	47.62	1654
30.00	.375	GR X-60, DSAW (items #8)	2,463'	M.O.R.	28.00	47.60	58.33	1350
30.00	.375	GR X-52, DSAW (item #10)	20619'	20585.9' A	32.31	54.92	67.31	1170

Minimum Test Pressure @ Max. Elevation 714 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 875 PSIG			

Prepared By: *Mark Cabral* (4) Date: *7/14/11* 06/22/11 For Information or Changes, Call: **Scott Clapp (530) 514-6482** Approved By: *[Signature]* Date: *7/14/11* (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 10:45 am 6-29-11	Elevation at Test Point 19 FT	Min. Required Test Press. At Test Point (1) 720.5 PSIG	Max. Allowable Test Press at Test Point (4) 868 PSIG
Time and Date Test Ended 7:00 pm 6-29-11	Max. Elevation in Test Section 34 FT	Min. Indicated Test Pressure (2) 737 PSIG	Max. Indicated Test Pressure (5) 793 PSIG
Actual Duration of Test 8 hrs, 15 min	Min. Elevation in Test Section 3 FT	Min. Test Pressure at Max. Elevation (3) 730.5 PSIG	Max. Test Pressure at Min. Elevation (6) 800 PSIG

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

Make, Range, and Serial No. of Pressure Recording Gauge: **CLP 1720 0-1000 PSI** Date Last Calibrated: **6-10-11** Make, Range, and Serial No. of Dead Weight Tester (See Note 7): **AMETEK, 0-3000, 6301** Date Last Calibrated: **6-7-11**

Test Supervised By: *[Signature]* (2) Date: *7-14-11* Approved By: *[Signature]* Date: *7-13-11*

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

1. ORIGINAL DOCUMENTS SIGNED 6-30-11
(2) ORIGINAL DOCUMENTS SIGNED 6-29-11
(3) ORIGINAL DOCUMENT SIGNED 6/22/11
(4) ORIGINAL DOCUMENT SIGNED 6/22/11



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 **4**

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

Feeder Main Number, Line Number, or Station Name L-153	Area 2	Division/District Mission	Job Number 41474085	Date Job Authorized 6/23/11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
 Hydrostatically test 30" tie-in piping, hydrostatic test piping, and existing 30" L-153
 Existing 30" materials listed are from the Material of Record" (refer to DRWG 41474085 Sheet 6), revised per design change #3

Hydrotest L-153 from MP 9.20 - 13.61 Hayward, CA (Test section 45)

Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 420 PSIG	Future Design Pressure 420 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 34 Ft.	Static Head Calculation	
	Min. Elevation 3 Ft.	For Water	0.433 X Elev. Diff. = 13 PSIG
	Elev. Diff. 31 Ft.	Other (Specify)	X Elev. Diff. = PSIG

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.	
4.5	.337	Gr. B, SMLS (item #12)	1'	M.O.R.	8.01	13.62	16.69	4718
3.5	.216	Gr. B, SMLS (item #13)	1'	M.O.R.	9.72	16.53	20.25	3888
30.00	.656	Ell, Forged, Y-52 (item #1)	2 ea.	M.O.R.	18.47	31.40	38.48	2047
30.00	.375	Ell, Forged, Y-60 (item #2)	8 ea.	M.O.R.	28.00	47.60	58.33	1350
30.00	.375	Ell, Forged, Y-52 (item #3)	4 ea.	M.O.R.	32.31	54.92	67.31	1170
30.00	.375	Bend, Unknown Grade (item #4)	10 ea.	M.O.R.	-	-	-	-
30.00	.375	Ell, Forged, Grade B, SMLS (item #5)	4 ea.	M.O.R.	48.00	81.60	100.00	788

Minimum Test Pressure @ Max. Elevation 714 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 875 PSIG			

Prepared By: **Mark Cabral** Date: **7/14/11** For Information or Changes, Call: **Scott Clapp (530) 514-6482** Approved By: **[Signature]** Date: **7/14/11**

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 10:45 am 6-29-11	Elevation at Test Point 19 FT	Min. Required Test Press. At Test Point (1) 720.5 PSIG	Max. Allowable Test Press at Test Point (4) 868 PSIG
Time and Date Test Ended 7:00 pm 6-29-11	Max. Elevation in Test Section 34 FT	Min. Indicated Test Pressure (2) 737 PSIG	Max. Indicated Test Pressure (5) 793 PSIG
Actual Duration of Test 8 hrs, 15 min	Min. Elevation in Test Section 3 FT	Min. Test Pressure at Max. Elevation (3) 730.5 PSIG	Max. Test Pressure at Min. Elevation (6) 800 PSIG

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

Make, Range, and Serial No. of Pressure Recording Gauge CLP 1720, 0-1000 PSI	Date Last Calibrated 6-10-11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) AMETEK, 0-3000 PSI, 6301	Date Last Calibrated 6-7-11
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Test Supervised By: **[Signature]** Date: **7-14-11** Approved By: **[Signature]** Date: **7-13-11**

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.

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|--|---|
| <p>NOTES:</p> <ol style="list-style-type: none"> 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. | <p>DISTRIBUTION</p> <p>JOB FILE (AT SPONSORING ORGANIZATION)</p> <p>GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT</p> <p>PROJECT MANAGER/PROJECT ENGINEER</p> <p>TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</p> <p>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</p> <p>RECORDS SECTION (WC), GSM&TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING</p> |
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1- ORIGINAL DOCUMENT SIGNED 6-30-11
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PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-153	Area 2	Division/District Mission	Job Number 41474085	Date Job Authorized 6/23/11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
 Hydrostatically test 30" tie-in piping, hydrostatic test piping, and existing 30" L-153
 Existing 30" materials listed are from the Material of Record" (refer to DRWG 41474085 Sheet 6) Revised per design change #3
 Hydrotest L-153 from MP 9.20 - 13.61 Hayward, CA (Test section 45)

Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 420 PSIG	Future Design Pressure 420 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 34 Ft.	Static Head Calculation	
	Min. Elevation 3 Ft.	For Water	0.433 X Elev. Diff. = 13 PSIG
	Elev. Diff. 31 Ft.	Other (Specify)	X Elev. Diff. = PSIG

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.	
30.00	Unk	Sleeve, Grade Unknown (item #11)	2 ea.	M.O.R.	-	-	-	-
30.00	0.375	Elbow, Y-60, LR 45° (new span x-ing)	4 ea.	M.O.R.	28.00	47.60	58.33	1350

Minimum Test Pressure @ Max. Elevation 714 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 875 PSIG			

Prepared By: *Mark Cabral* Date: *7-15-11* 06/22/11 (4) For Information or Changes, Call: **Scott Clapp (530) 514-6482** Approved By: *Mark Cabral* Date: *7/14/11* (2)

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.

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Actual Duration of Test 8 hrs, 15 min	Min. Elevation in Test Section 3 FT	Min. Test Pressure at Max. Elevation (3) 730.5 PSIG	Max. Test Pressure at Min. Elevation (6) 800 PSIG

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

Make, Range, and Serial No. of Pressure Recording Gauge CLP 0-1000 PSI, 1720	Date Last Calibrated 6-10-11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) AMETEK, 0-3000, 6301	Date Last Calibrated 6-7-11
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Test Supervised By: *[Signature]* Date: *7-14-11* Approved By: *[Signature]* Date: *7-13-11*

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

Feeder Main Number, Line Number, or Station Name L-153	Area 2	Division/District Mission	Job Number 41474085	Date Job Authorized 6/23/11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Cut-caps to facilitate hydrotest (See drawing 41474085) Revised per design change #3

Hydrotest L-153 from MP 9.2-13.61 Hayward, CA (Test section 45)

Location Class 3	Design Factor (F) .5	MAOP to be Established for this Piping by this Test 420 PSIG	Future Design Pressure 420 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation N/A Ft.	Static Head Calculation	
	Min. Elevation N/A Ft.	For Water	0.433 X Elev. Diff. = N/A PSIG
	Elev. Diff. N/A Ft.	Other (Specify)	X Elev. Diff. = N/A 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.	
30.00	0.375	API 5L, GR X-65, DSAW	8'	M.O.R.	25.85	43.94	53.85	1463
4.5	.237	API 5L, GrB SMLS, 35,000 (item#113)	26' 9"	26' 9" M.O.R.	11.39	19.37	23.73	3318

Minimum Test Pressure @ Max. Elevation 714 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)	1 HOURS
Maximum Test Pressure @ Min. Elevation 875 PSIG			

Prepared By: Mark Cabral	Date: 7-14-11	For Information or Changes, Call: Scott Clapp (530) 514-6482	Approved By: [Signature]	Date: 7/14/11
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Test Fluid Used: **Water** Pipe Specification and Footage Verified (See Part I): **WEP**

Make, Range, and Serial No. of Pressure Recording Gauge CLP 1720, 0-1000 PSI	Date Last Calibrated 6-10-11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) AMETEK, 0-3000, 6301	Date Last Calibrated 6-7-11
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Test Supervised By: [Signature]	Date: 7-14-11	Approved By: [Signature]	Date: 7-13-11
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