



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 3

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

Feeder Main Number, Line Number, or Station Name <b>L-132</b>	Area <b>3</b>	Division/District <b>De Anza</b>	Job Number <b>41497350</b>	Date Job Authorized <b>July 27, 2011</b>
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 2 - Tie-in pieces, hydrostatic test piping and existing 24" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497350, sheet 7 of 7)**

Hydrotest L-132 from MP 10.32 - 13.95 Mountain View, CA (Test section 29)

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 (WHERE APPLICABLE)	Max. Elevation <b>32 Ft.</b>	Static Head Calculation For Water 0.433 X Elev. Diff. = <b>14 PSIG</b> Other (Specify) _____ X Elev. Diff. = _____ PSIG
	Min. Elevation <b>1 Ft.</b>	
	Elev. Diff. <b>31 Ft.</b>	

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, X-65, DSAW (Item #103)	2'	2	24.62	36.92	41.85	1463
24.00	.375	API 5L, X-60, DSAW (Item #106)	43'	42.4 JB	21.33	32.00	36.27	1688
30.00	.3125	API 5L, X-52, DSAW (Item #1)	3278'	MOR	36.92	55.38	62.77	975
24.00	.344	API 5L, GR. B, SMLS (Item #3)	5'	6	39.87	59.80	67.77	903
24.00	.3125	API 5L, X-60, DSAW (Item #4)	1696'	1679.35'	25.60	38.40	43.52	1406
24.00	.3125	API 5L, X-52, DSAW (Item #5)	155'	MOR	29.54	44.31	50.22	1219
24.00	.3125	API 5L, X-42, DSAW (Item #6)	5'	MOR	36.57	54.86	62.17	984
24.00	.281	45000 SMYS, SMLS (Item #7)	13600'	MOR	37.96	56.94	64.53	948
24.00	.281	40000 SMYS, SMLS (Item #8)	344'	MOR	42.70	64.06	72.60	843

Minimum Test Pressure @ Max. Elevation <b>600 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>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>680 PSIG</b>			

Prepared By: <b>Redacted</b>	Date: <b>7/27/11</b>	For Information or Changes, Call: <b>Redacted</b>	Approved By: <b>Redacted</b>	Date: <b>7-27-11</b>
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**PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)**

*Test Conducted by THOR VAN BORTSEL CCI*  
 Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached <b>11:40 PM 9-9-11</b>	Elevation at Test Point <b>32 FT</b>	Min. Required Test Press. At Test Point (1) <b>600 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>666.6 PSIG</b>
Time and Date Test Ended <b>8:15 AM 9-10-11</b>	Max. Elevation in Test Section <b>32 FT</b>	Min. Indicated Test Pressure (2) <b>615 PSIG</b>	Max. Indicated Test Pressure (5) <b>660 PSIG</b>
Actual Duration of Test <b>8 HR 35 min</b>	Min. Elevation in Test Section <b>1 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>615 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>673.4 PSIG</b>

Test Fluid Used <b>WATER</b>	Pipe Specification and Endtype Verified (See Part I) <b>Redacted</b>
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Make, Range, and Serial No. of Pressure Recording Gauge <b>CLP 0-1000 PSI, 1703</b>	Date Last Calibrated <b>5-2-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>AMETEK 0-3000 PSI, HL-2845</b>	Date Last Calibrated <b>11-29-10</b>
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Test Supervised By: <b>Redacted</b>	Date: <b>9-10-11</b>	Approved By: <b>Redacted</b>	Date: <b>9-13-11</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 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



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 California Gas Transmission  
 (Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet **2** of **3**

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

Feeder Main Number, Line Number, or Station Name <b>L-132</b>	Area <b>3</b>	Division/District <b>De Anza</b>	Job Number <b>41497350</b>	Date Job Authorized <b>July 27, 2011</b>
Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 2 - Tie-in pieces, hydrostatic test piping and existing 24" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497350, sheet 7 of 7)</b>				
Hydrotest L-132 from MP 10.32 - 13.95 Mountain View, CA (Test section 29)				
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>32</b> Ft.	Static Head Calculation		
	Min. Elevation <b>1</b> Ft.	For Water	0.433 X Elev. Diff. = <b>14</b> PSIG	
	Elev. Diff. <b>31</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 O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
24.00	.250	API 5L, X-52, DSAW (Item #9)	18'	MOR	36.92	55.38	62.77	975
30.00	.375	Elbow, Y-52 (Item #10)	18 ea	MOR	30.77	46.15	52.31	1170
30.00	.375	Elbow, Y-42 (Item #11)	3 ea	MOR	38.10	57.14	64.76	945
30.00	.375	Elbow, Grade Unknown (Item #12)	6 ea	MOR = 75%	-	-	-	-
24.00	.375	Elbow, Y-60 (Item #13)	18 ea	MOR	21.33	32.00	36.27	1688
24.00	.375	Elbow, Y-52 (Item #14)	2 ea	MOR	24.62	36.92	41.85	1463
24.00	.375	Elbow, Grade Unknown (Item #15)	1 ea	MOR	-	-	-	-
24.00	.3125	Elbow, Grade Unknown (Item #16)	12 ea	MOR	-	-	-	-

Minimum Test Pressure @ Max. Elevation <b>600 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>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>680 PSIG</b>			
Prepared By: <b>Redacted</b>	Date: <b>7/27/11</b>	For Information or Changes, Call: <b>Redacted</b>	Approved By: <b>Redacted</b>
			Date: <b>7-27-11</b>

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

**TEST CONDUCTED BY THOR VAN BUREL CCI**

Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached <b>11:40 pm 9-9-11</b>	Elevation at Test Point <b>32 FT</b>	Min. Required Test Press. At Test Point (1) <b>600 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>666.6 PSIG</b>
Time and Date Test Ended <b>8:15 am 9-10-11</b>	Max. Elevation in Test Section <b>32 FT</b>	Min. Indicated Test Pressure (2) <b>615 PSIG</b>	Max. Indicated Test Pressure (5) <b>660 PSIG</b>
Actual Duration of Test <b>8 hr 35 min</b>	Min. Elevation in Test Section <b>1 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>615 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>673.4 PSIG</b>
Test Fluid Used <b>WATER</b>	Pipe Specification and Footage Verified (See Part I) <b>JE A584</b>		
Make, Range, and Serial No. of Pressure Recording Gauge <b>CLP, 0-1000 psi, 1703</b>	Date Last Calibrated <b>5-2-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>AMETEK, 0-3000, HL-2845</b>	Date Last Calibrated <b>11-29-10</b>
Test Supervised By: <b>Redacted</b>	Date: <b>9-10-11</b>	Approved By: <b>9-13-11</b>	Date: <b>Redacted</b>

**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.
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- 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
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COPY

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Sheet 3 of 3

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

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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts <b>Test 2 - Tie-in pieces, hydrostatic test piping and existing 24" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41497350, sheet 7 of 7)</b>				
Hydrotest L-132 from MP 10.32 - 13.95 Mountain View, CA (Test section 29)				
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>32 Ft.</b>	Static Head Calculation	For Water $0.433 \times \text{Elev. Diff.} =$ <b>14 PSIG</b>	
	Min. Elevation <b>1 Ft.</b>	Other (Specify)	X Elev. Diff. = <b>PSIG</b>	
	Elev. Diff. <b>31 Ft.</b>			

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	Reducer 30" X 24", Y-52 (Item #17)	2 ea.	MOR	30.77	46.15	52.31	1170
30.00	.375	Reducer 30" X 24", Y-42 (Item #18)	2 ea.	MOR	38.10	57.14	64.76	945
30.00	.500	Sleeve, X-52 (Item #19)	4 ea.	MOR	23.08	34.62	39.23	1560
24.00	.500	Sleeve, X-52 (Item #20)	3 ea.	MOR	18.46	27.69	31.38	1950
24.00	.500	Sleeve, X-50 (Item #21)	2 ea.	MOR	19.20	28.80	32.64	1875
24.00	.375	Sleeve, X-50 (Item #22)	1 ea.	MOR	25.60	38.40	43.52	1406
6.625	.280	API 5L, GR. B, SMLS (Item #27)	3'	MOR	13.52	20.28	22.98	2663
2.375	.154	API 5L, GR. B, SMLS (Item #29)	44'	MOR	8.81	13.22	14.98	4085

Minimum Test Pressure @ Max. Elevation <b>600 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>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>680 PSIG</b>			
Prepared By: <b>Redacted</b>	Date:	For Information or Changes, Call: <b>Redacted</b>	Approved By: <b>Redacted</b> Date: <b>7-27-11</b>

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Note: Minimum test pressure and duration are not to be changed without written approval.

Time and Date Test Pressure Reached <b>11:40 PM 9-9-11</b>	Elevation at Test Point <b>32 FT</b>	Min. Required Test Press. At Test Point (1) <b>600 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>666.6 PSIG</b>
Time and Date Test Ended <b>8:15 AM 9-10-11</b>	Max. Elevation in Test Section <b>32 FT</b>	Min. Indicated Test Pressure (2) <b>615 PSIG</b>	Max. Indicated Test Pressure (5) <b>660 PSIG</b>
Actual Duration of Test <b>8 HR 35 min</b>	Min. Elevation in Test Section <b>1 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>615 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>673.4 PSIG</b>
Test Fluid Used <b>WATER</b>	Pipe Specification and Footage Verified (See Part I) <b>JE A584</b>		
Make, Range, and Serial No. of Pressure Recording Gauge <b>CLP, 0-1000 PSI, 1703</b>	Date Last Calibrated <b>5-2-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>AMETER, 0-3000 PSI, HL-2845</b>	Date Last Calibrated <b>11-29-10</b>
Test Supervised By <b>Redacted</b>	Date: <b>9-10-11</b>	Approved By <b>Redacted</b>	Date: <b>9-13-11</b>

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- NOTES:**
- (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.
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