



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

| PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)   |                                  |  |                                      |   |   |   |                                       |                     |                           |  |
|---|----------------------------------|--|--------------------------------------|---|---|---|---------------------------------------|---------------------|---------------------------|--|
| Feeder Main Number, Line Number, or Station Name<br><b>L-105C</b>   |                                  | Area<br><b>2</b>   | Division/District<br><b>Redacted</b> |   |   | Job Number<br><b>41482858</b>   | Date Job Authorized<br><b>8/4/11</b>  |                     |                           |  |
| Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts<br><b>Test 3 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 22" &amp; 24" L-105C. Existing pipeline material listed; i.e. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41482858, sheet 5 of 5)</b><br><b>Hydrotest L-105C from MP 0.00 - 1.77</b> <b>Redacted</b> (Test section 10)  |                                  |  |                                      |   |   |   |                                       |                     |                           |  |
| Location Class<br><b>3</b>  | Design Factor (F)<br><b>.5</b>   | MAOP to be Established for this Piping by this Test<br><b>275 PSIG</b> |                                      |   |   | Future Design Pressure<br><b>275 PSIG</b>   |                                       |                     |                           |  |
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)  |                                  | Max. Elevation<br><b>29 Ft.</b>  | Stable Head Calculation              |   | For Water<br>$0.433 \times \text{Elev. Diff.} =$ <b>7 PSIG</b>  |   |                                       |                     |                           |  |
|   |                                  | Min. Elevation<br><b>14 Ft.</b>  | Other (Specify)                      |   | X Elev. Diff. = <b>PSIG</b>   |   |                                       |                     |                           |  |
|   |                                  | Elev. Diff.<br><b>15 Ft.</b>   |                                      |   |   |   |                                       |                     |                           |  |
| Pipe Specification  |                                  |  |                                      | 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.)                |                                      | Footage to Be Tested  |   | At MAOP   | At Min. Test Press.                   | At Max. Test Press. |                           |  |
| <b>24.00</b>  | <b>0.375</b>                     | <b>Pipe, API 5L X-60, DSAW (item #106)</b>                             |                                      | <b>14'</b>  | <b>230' K</b>   | <b>14.67</b>  | <b>32.27</b>                          | <b>36.27</b>        | <b>1688</b>               |  |
| <b>22.00</b>  | <b>0.375</b>                     | <b>Pipe, API 5L X-65, ERW (item #107)</b>                              |                                      | <b>49'</b>  | <b>23.7' K</b>  | <b>12.41</b>  | <b>27.30</b>                          | <b>30.69</b>        | <b>1994</b>               |  |
| <b>24.00</b>  | <b>0.375</b>                     | <b>Ell, Forged, LR, Y-60 (item #123)</b>                               |                                      | <b>3 Ea.</b>  | <b>3' A</b>   | <b>14.67</b>  | <b>32.27</b>                          | <b>36.27</b>        | <b>1688</b>               |  |
| <b>22.00</b>  | <b>0.375</b>                     | <b>Ell, Forged, LR, Y-60 (item #124)</b>                               |                                      | <b>2 Ea.</b>  | <b>2' A</b>   | <b>13.44</b>  | <b>29.58</b>                          | <b>33.24</b>        | <b>1841</b>               |  |
| <b>24.00</b>  | <b>0.375</b>                     | <b>Reducer, 24"x22", Y-60 (item #136)</b>                              |                                      | <b>2-1 Ea.</b>  | <b>2' A</b>   | <b>14.67</b>  | <b>32.27</b>                          | <b>36.27</b>        | <b>1688</b>               |  |
| <b>24.00</b>  | <b>0.3125</b>                    | <b>Pipe, Gr B, SMLS (item #2)</b>                                      |                                      | <b>8266'</b>  | <b>8266.8' K</b>  | <b>30.17</b>  | <b>66.38</b>                          | <b>74.61</b>        | <b>820</b>                |  |
| <b>24.00</b>  | <b>0.250</b>                     | <b>Pipe, API 5L X-42, DSAW (item #3)</b>                               |                                      | <b>916'</b>   | <b>M.O.R.</b>   | <b>31.43</b>  | <b>69.14</b>                          | <b>77.71</b>        | <b>788</b>                |  |
| <b>22.00</b>  | <b>0.3125</b>                    | <b>Pipe, API 5L Gr B, SMLS (item #4)</b>                               |                                      | <b>171'</b>   | <b>168.5' K</b>   | <b>27.66</b>  | <b>60.85</b>                          | <b>68.39</b>        | <b>895</b>                |  |
| Minimum Test Pressure @ Max. Elevation  |                                  | <b>605 PSIG</b>  |                                      | Test Fluid To Be Used<br><b>WATER</b>   |   | MINIMUM TEST DURATION<br>- UNDER 30% SMYS (1 HR. MINIMUM)<br>- 30% SMYS & OVER (8 HRS. MINIMUM)<br>- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) |                                       |                     | <b>8 HOURS</b>            |  |
| Maximum Test Pressure @ Min. Elevation  |                                  | <b>680 PSIG</b>  |                                      | Approved By:<br><b>Redacted</b>   |   | Date:<br><b>8-4-11</b>  |                                       |                     |                           |  |
| Redacted  |                                  | For Information or Changes, Call:<br><b>Redacted</b>                   |                                      | Approved By:<br><b>Redacted</b>   |   | Date:<br><b>8-4-11</b>  |                                       |                     |                           |  |
| PART II - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST)   |                                  |  |                                      |   |   |   |                                       |                     |                           |  |
| TEST CONDUCTED BY:<br><b>Redacted</b>   |                                  |  |                                      | Note: Minimum test pressure and duration are not to be changed without written approval.        |   |   |                                       |                     |                           |  |
| Time and Date Test Pressure Reached   | <b>8:40 AM</b><br><b>8-25-11</b> | Elevation at Test Point  | <b>20 FT</b>                         | Min. Required Test Press. At Test Point (1)   | <b>608.9 PSIG</b>   | Max. Allowable Test Press at Test Point (4)   | <b>677.4 PSIG</b>                     |                     |                           |  |
| Time and Date Test Ended  | <b>4:50 PM</b><br><b>8-25-11</b> | Max. Elevation in Test Section   | <b>29 FT</b>                         | Min. Indicated Test Pressure (2)  | <b>622 PSIG</b>   | Max. Indicated Test Pressure (5)  | <b>670 PSIG</b>                       |                     |                           |  |
| Actual Duration of Test   | <b>8 hrs, 10 mins</b>            | Min. Elevation in Test Section   | <b>14 FT</b>                         | Min. Test Pressure at Max. Elevation (3)  | <b>618.1 PSIG</b>   | Max. Test Pressure at Min. Elevation (6)  | <b>672.6 PSIG</b>                     |                     |                           |  |
| Test Fluid Used<br><b>WATER</b>   |                                  | Redacted   |                                      | (See Part I)  |   |   |                                       |                     |                           |  |
| Make, Range, and Serial No. of Pressure Recording Gauge<br><b>CLP 0-1000 PSI 1720</b>   |                                  | Date Last Calibrated<br><b>6-10-11</b>                                 |                                      | Make, Range, and Serial No. of Dead Weight Tester (See Note 7)<br><b>AMETEK 0-3000 PSI 6301</b> |   |   | Date Last Calibrated<br><b>6-7-11</b> |                     |                           |  |
| Test Supervised By:<br><b>Redacted</b>  |                                  | Date:<br><b>8-25-11</b>  |                                      | Approved By:<br><b>Redacted</b>   |   |   | Date:<br><b>9-13-11</b>               |                     |                           |  |
| PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET<br>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:<br>(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.<br>(2) Use lowest pressure on test gauge at any time during test.<br>(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.<br>(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.<br>(5) Highest pressure on test gauge at any time during test.<br>(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.<br>(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<br>JOB FILE (AT SPONSORING ORGANIZATION)<br><br>GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT<br><br>PROJECT MANAGER/PROJECT ENGINEER<br><br>TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY<br><br>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)<br><br>RECORDS SECTION (WC), GSM&TS<br><br>REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING |   |                                       |                     |                           |  |

**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  
 (Use in Accordance with Gas Standard A-31 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<br><b>L-105C</b> | Area<br><b>2</b> | Division/District<br><b>Redacted</b> | Job Number<br><b>41482858</b> | Date Job Authorized<br><b>8/4/11</b> |
|---|------------------|--------------------------------------|-------------------------------|--------------------------------------|

Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 3 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 22", & 24" L-105C. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41482858, sheet 5 of 5)**

Hydrotest L-105C from MP 0.00 - 1.77 **Redacted** (Test section 10)

|                            |                                |  |   |
|----------------------------|--------------------------------|--|---|
| Location Class<br><b>3</b> | Design Factor (F)<br><b>.5</b> | MAOP to be Established for this Piping by this Test<br><b>275 PSIG</b> | Future Design Pressure<br><b>275 PSIG</b> |
|----------------------------|--------------------------------|--|---|

|  |                                 |   |
|--|---------------------------------|---|
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE) | Max. Elevation<br><b>29 Ft.</b> | Static Head Calculation<br>For Water<br><b>0.433 X Elev. Diff. = 7 PSIG</b><br>Other (Specify)<br><b>X Elev. Diff. = PSIG</b> |
|  | Min. Elevation<br><b>14 Ft.</b> |   |
|  | Elev. Diff.<br><b>15 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. |                           |
| <b>6.625</b> | <b>0.280</b> | <b>Pipe, API 5L Gr B, SMLS (item #5)</b>                |  | <b>4'</b>            | <b>MOR</b>                               | <b>9.30</b>  | <b>20.45</b>        | <b>22.98</b>        | <b>2663</b>               |
| <b>24.00</b> | <b>0.375</b> | <b>Ell, Forged, LR, Gr B (item #6)</b>                  |  | <b>51 Ea.</b>        | <b>MOR</b>                               | <b>25.14</b> | <b>55.31</b>        | <b>62.17</b>        | <b>984</b>                |
| <b>24.00</b> | <b>0.500</b> | <b>Ell, Forged, LR, Gr B (item #7)</b>                  |  | <b>4 Ea.</b>         | <b>MOR</b>                               | <b>18.86</b> | <b>41.49</b>        | <b>46.63</b>        | <b>1313</b>               |
| <b>24.00</b> | <b>0.375</b> | <b>Sleeve, 50000 SMYS (item #8)</b>                     |  | <b>1 Ea.</b>         | <b>MOR</b>                               | <b>17.60</b> | <b>38.72</b>        | <b>43.52</b>        | <b>1406</b>               |

|   |                 |                                       |   |                |
|---|-----------------|---------------------------------------|---|----------------|
| Minimum Test Pressure @ Max. Elevation<br><b>Redacted</b> | <b>605 PSIG</b> | Test Fluid To Be Used<br><b>WATER</b> | MINIMUM TEST DURATION<br>- UNDER 30% SMYS (1 HR. MINIMUM)<br>- 30% SMYS & OVER (8 HRS. MINIMUM)<br>- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) | <b>8 HOURS</b> |
| Maximum Test Pressure @ Min. Elevation<br><b>Redacted</b> | <b>680 PSIG</b> |                                       |   |                |
| Date:<br><b>8/4/11</b>                                    | <b>Redacted</b> | Date:<br><b>8-4-11</b>                |   |                |

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

TEST Conducted By: **Redacted** Note: Minimum test pressure and duration are not to be changed without written approval.

|   |  |  |  |
|---|--|--|--|
| Time and Date Test Pressure Reached<br><b>8:40 AM 8-25-11</b> | Elevation at Test Point<br><b>20 FT</b>        | Min. Required Test Press. At Test Point (1)<br><b>608.9 PSIG</b> | Max. Allowable Test Press at Test Point (4)<br><b>677.4 PSIG</b> |
| Time and Date Test Ended<br><b>4:50 PM 8-25-11</b>            | Max. Elevation in Test Section<br><b>29 FT</b> | Min. Indicated Test Pressure (2)<br><b>622 PSIG</b>              | Max. Indicated Test Pressure (5)<br><b>670 PSIG</b>              |
| Actual Duration of Test<br><b>8 hrs. 10 min</b>               | Min. Elevation in Test Section<br><b>14 FT</b> | Min. Test Pressure at Max. Elevation (3)<br><b>618.1 PSIG</b>    | Max. Test Pressure at Min. Elevation (6)<br><b>672.6 PSIG</b>    |

Test Fluid Used **WATER** and Footage Verified (See Part I) **Redacted**

|  |  |   |                                       |
|--|--|---|---------------------------------------|
| Make, Range, and Serial No. of Pressure Recording Gauge<br><b>CLP 0-1000 PSI, 1720</b> | Date Last Calibrated<br><b>6-10-11</b> | Make, Range, and Serial No. of Dead Weight Tester (See Note 7)<br><b>ARGTEK, 0-3000 PSI, 6301</b> | Date Last Calibrated<br><b>6-7-11</b> |
| Date:<br><b>8-25-11</b>  | Approved By:<br><b>Redacted</b>        | Date:<br><b>9-28-11</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.

- |  |   |
|--|---|
| <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), GSM&amp;TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; PLANNING</p> |
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**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  
 (Use in Accordance with Gas Standard A-31 and GO 112-D)

Sheet **13** of **14**

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

|   |                  |                                      |                               |                                       |
|---|------------------|--------------------------------------|-------------------------------|---------------------------------------|
| Feeder Main Number, Line Number, or Station Name<br><b>L-105C</b> | Area<br><b>2</b> | Division/District<br><b>Redacted</b> | Job Number<br><b>41482858</b> | Date Job Authorized<br><b>8/24/11</b> |
|---|------------------|--------------------------------------|-------------------------------|---------------------------------------|

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 1 - Hydrostatically test temporary out caps. Revision 3 - Added 6.625" caps. \* 6.625" PIPE**  
*22" PIPE TESTED BEFORE MAINLINE USING THE SAME STPR FORM (A)*

Hydrotest L-105C from MP 0.00 - 1.77 **Redacted** (Test section 10)

|                            |                                |  |   |
|----------------------------|--------------------------------|--|---|
| Location Class<br><b>3</b> | Design Factor (F)<br><b>.5</b> | MAOP to be Established for this Piping by this Test<br><b>275 PSIG</b> | Future Design Pressure<br><b>275 PSIG</b> |
|----------------------------|--------------------------------|--|---|

|  |                |                 |  |
|--|----------------|-----------------|--|
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE) | Max. Elevation | <b>N/A</b> Ft.  | Static Head Calculation                        |
|  | Min. Elevation | <b>N/A</b> Ft.  |  |
|  | Elev. Diff.    | Ft.             |  |
|  |                | For Water       | <b>0.433 X Elev. Diff. =</b> _____ <b>PSIG</b> |
|  |                | Other (Specify) | <b>X Elev. Diff. =</b> _____ <b>PSIG</b>       |

| Pipe Specification |       |   |  | Foolage to Be Tested | Pipe Spec. and Foolage 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. |                           |
| 6.625              | 0.280 | API 5L Gr B, SMLS (item #113)                           |  | 4'                   | 10.3 A                                   | 9.30      | 20.45               | 22.98               | 2663                      |
| 22.00              | 0.375 | API 5L X-65, ERW (item #107)                            |  | 4'                   | ⊖ A                                      | 12.41     | 27.30               | 30.69               | 1994                      |
| 6.625              | 0.280 | Cap, Gr B (item #164)                                   |  | 2 Ea.                | 2 EA A                                   | 9.30      | 20.45               | 22.98               | 2663                      |

|  |                 |                       |              |  |                |
|--|-----------------|-----------------------|--------------|--|----------------|
| Minimum Test Pressure @ Max. Elevation | <b>605 PSIG</b> | Test Fluid To Be Used | <b>WATER</b> | MINIMUM TEST DURATION                                      | <b>1 HOURS</b> |
| Maximum Test Pressure @ Min. Elevation | <b>680 PSIG</b> |                       |              | - UNDER 30% SMYS (1 HR. MINIMUM)                           |                |
| <b>Redacted</b>                        |                 |                       |              | - 30% SMYS & OVER (8 HRS. MINIMUM)                         |                |
|  |                 |                       |              | - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) |                |

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

|                                     |                        |                                |              |   |                   |   |                   |
|-------------------------------------|------------------------|--------------------------------|--------------|---|-------------------|---|-------------------|
| Time and Date Test Pressure Reached | <b>8:40 AM 8-25-11</b> | Elevation at Test Point        | <b>20 FT</b> | Min. Required Test Press. At Test Point (1) | <b>608.9 PSIG</b> | Max. Allowable Test Press at Test Point (4) | <b>677.4 PSIG</b> |
| Time and Date Test Ended            | <b>4:50 pm 8-25-11</b> | Max. Elevation in Test Section | <b>29 FT</b> | Min. Indicated Test Pressure (2)            | <b>622 PSIG</b>   | Max. Indicated Test Pressure (5)            | <b>670 PSIG</b>   |
| Actual Duration of Test             | <b>8 hr. 10 min</b>    | Min. Elevation in Test Section | <b>14 FT</b> | Min. Test Pressure at Max. Elevation (3)    | <b>618.1 PSIG</b> | Max. Test Pressure at Min. Elevation (6)    | <b>677.6 PSIG</b> |

Test Fluid Used **WATER** **Redacted**

|   |                            |                      |                |  |                               |                      |                |
|---|----------------------------|----------------------|----------------|--|-------------------------------|----------------------|----------------|
| Make, Range, and Serial No. of Pressure Recording Gauge | <b>CLP 0-1000 PSI 1720</b> | Date Last Calibrated | <b>6-10-11</b> | Make, Range, and Serial No. of Dead Weight Tester (See Note 7) | <b>AMETEK 0-3000 PSI 6301</b> | Date Last Calibrated | <b>6-7-11</b>  |
| Test Supervisor   | <b>Redacted</b>            | Date                 | <b>8-25-11</b> | Approved By  | <b>Redacted</b>               | Date                 | <b>8-13-11</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.

- |  |   |
|--|---|
| <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), GSM&amp;TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING &amp; PLANNING</p> |
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**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  
 (Use in Accordance with Gas Standard A-31 and GO 112-D)

Sheet 14 of 14

| PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)  |                                  |  |  |  |   |   |                                       |                     |                           |  |
|--|----------------------------------|--|--|--|---|---|---------------------------------------|---------------------|---------------------------|--|
| Feeder/Main Number, Line Number, or Station Name<br><b>L-105C</b>  |                                  | Area<br><b>2</b>   | Division/District<br><b>Redacted</b>                 |  |   | Job Number<br><b>41482858</b>               | Date Job Authorized<br><b>8/18/11</b> |                     |                           |  |
| Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts<br><b>Test 2</b> - Hydrostatically test 20" x 24" tie-in assembly at 5 <sup>th</sup> and Market Streets. Revision 2 - Added 20" elbow.<br><b>Test 3</b>  |                                  |  |  |  |   |   |                                       |                     |                           |  |
| Hydrotest L-105C from MP 0.00 - 1.77 <b>Redacted</b> (Test section 10)   |                                  |  |  |  |   |   |                                       |                     |                           |  |
| Location Class<br><b>3</b>   | Design Factor (F)<br><b>.5</b>   | MAOP to be Established for this Piping by this Test<br><b>275 PSIG</b> |  |  |   | Future Design Pressure<br><b>275 PSIG</b>   |                                       |                     |                           |  |
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)   |                                  | Max. Elevation<br><b>N/A</b> Ft.                                       | Static Head Calculation                              |  |   | 0.433 X Elev. Diff. = <b>PSIG</b>           |                                       |                     |                           |  |
|  |                                  | Min. Elevation<br><b>N/A</b> Ft.                                       | For Water  |  |   | X Elev. Diff. = <b>PSIG</b>                 |                                       |                     |                           |  |
|  |                                  | Elev. Diff.  | Other (Specify)                                      |  |   |   |                                       |                     |                           |  |
| 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. |                           |  |
| 20.00  | 0.375                            | Pipe, API 5L X-65, ERW (item #108)                                     |  | 5'   | 2.75' A   | 11.28                                       | 24.82                                 | 27.90               | 2194                      |  |
| 20.00  | 0.375                            | El, Forged, LR, Y-60 (item #125)                                       |  | 2 Ea.  | 2 Ea. A   | 12.22                                       | 26.89                                 | 30.22               | 2025                      |  |
| 24.00  | 0.375                            | Reducer, 24"x20", Y-60 (item #137)                                     |  | 1 Ea.  | A   | 14.67                                       | 32.27                                 | 36.27               | 1688                      |  |
| 24.00  | 0.375                            | Pipe, API 5L X-60, DSAW (item #106)                                    |  | 4'   | 3.9' A  | 14.67                                       | 32.27                                 | 36.27               | 1688                      |  |
| Minimum Test Pressure @ Max. Elevation   |                                  | <b>605 PSIG</b>  |  | Test Fluid To Be Used<br><b>WATER</b>                          | MINIMUM TEST DURATION<br>- UNDER 30% SMYS (1 HR. MINIMUM)<br>- 30% SMYS & OVER (8 HRS. MINIMUM) |   |                                       | <b>4 HOURS</b>      |                           |  |
| Maximum Test Pressure @ Min. Elevation   |                                  | <b>680 PSIG</b>  |  | - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)     |   |   |                                       |                     |                           |  |
| P/K <b>Redacted</b>  |                                  | Date:<br><b>8/18/11</b>  | For Information or Changes, Call:<br><b>Redacted</b> |  |   | Date:<br><b>8-18-11</b>                     |                                       |                     |                           |  |
| PART II - TEST DATA (TO BE PREPARED BY PERSON)   |                                  |  |  |  |   |   |                                       |                     |                           |  |
| TEST CONDUCTED BY: <b>Redacted</b> Note: Minimum test pressure and duration are not to be changed without written approval.  |                                  |  |  |  |   |   |                                       |                     |                           |  |
| Time and Date Test Pressure Reached  | <b>8:40 AM</b><br><b>8-25-11</b> | Elevation at Test Point  | <b>20</b><br><b>FT</b>                               | Min. Required Test Press. At Test Point (1)                    | <b>608.9</b><br><b>PSIG</b>   | Max. Allowable Test Press at Test Point (4) | <b>677.4</b><br><b>PSIG</b>           |                     |                           |  |
| Time and Date Test Ended   | <b>4:50 PM</b><br><b>8-25-11</b> | Max. Elevation in Test Section   | <b>29</b><br><b>FT</b>                               | Min. Indicated Test Pressure (2)                               | <b>622</b><br><b>PSIG</b>   | Max. Indicated Test Pressure (5)            | <b>670</b><br><b>PSIG</b>             |                     |                           |  |
| Actual Duration of Test  | <b>8 hrs 10 min</b>              | Min. Elevation in Test Section   | <b>17</b><br><b>FT</b>                               | Min. Test Pressure at Max. Elevation (3)                       | <b>618.1</b><br><b>PSIG</b>   | Max. Test Pressure at Min. Elevation (6)    | <b>672.6</b><br><b>PSIG</b>           |                     |                           |  |
| Test Fluid Used  | <b>WATER</b> <b>Redacted</b>     |  |  |  |   |   |                                       |                     |                           |  |
| Make, Range, and Serial No. of Pressure Recording Gauge  | <b>Redacted</b>                  | Date Last Calibrated   | <b>6-10-11</b>                                       | Make, Range, and Serial No. of Dead Weight Tester (See Note 7) | <b>AMETEK, 0-3000 PSE, 6301</b>   | Date Last Calibrated                        | <b>6-7-11</b>                         |                     |                           |  |
|  | <b>Redacted</b>                  | Date:<br><b>8-25-11</b>  | Approved By: <b>Redacted</b>                         |  |   | Date:<br><b>9-13-11</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. |                                  |  |  |  |   |   |                                       |                     |                           |  |
| 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  |   |                                       |                     |                           |  |

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