



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 **1**

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

|   |                       |                                  |                                 |                                       |
|---|-----------------------|----------------------------------|---------------------------------|---------------------------------------|
| Feeder Main Number, Line Number, or Station Name<br><b>L-300B</b> | Area<br><b>Topock</b> | Division/District<br><b>Kern</b> | Job Number<br><b>41497332-4</b> | Date Job Authorized<br><b>8-18-11</b> |
|---|-----------------------|----------------------------------|---------------------------------|---------------------------------------|

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 4 - Segment B - C - Hydrotest existing 34" materials listed in the "Material of Record" (refer to DWG 41497332, sheet 6) Hydrostatically test 34" tie-in piping, test piping and existing 34" L-300B. REV 1- Added 1/2" pipe off of the Drip and 13' to item #3. REV 2: Hydrotest instead of Nitrogen. Hydrotest L-300B from MP 0.1548 - 0.2241 Segment B-C Needles, CA (Test section 76)**

|                            |                                 |  |   |
|----------------------------|---------------------------------|--|---|
| Location Class<br><b>1</b> | Design Factor (F)<br><b>.72</b> | MAOP to be Established for this Piping by this Test<br><b>700 PSIG</b> | Future Design Pressure<br><b>700 PSIG</b> |
|----------------------------|---------------------------------|--|---|

|  |                                  |   |
|--|----------------------------------|---|
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE) | Max. Elevation<br><b>509</b> Ft. | Static Head Calculation<br>For Water<br>0.433 X Elev. Diff. = <b>9</b> PSIG<br>Other (Specify) _____ X Elev. Diff. = _____ PSIG |
|  | Min. Elevation<br><b>489</b> Ft. |   |
|  | Elev. Diff.<br><b>20</b> Ft.     |   |

| Pipe Specification |      | API or ASTM Grade<br>Long Seam (ERW, DSAW, Seamless, Etc.) | Foolage to Be Tested | Pipe Spec. and Foolage Verified In Field | % of SMYS |                     |                     | Pressure to Give 90% SMYS |
|--------------------|------|--|----------------------|--|-----------|---------------------|---------------------|---------------------------|
| O.D.               | W.T. |  |                      |  | At MAOP   | At Min. Test Press. | At Max. Test Press. |                           |
| 34.00              | .500 | API 5L, GR X65, DSAW (item# 101)                           | 2'                   | 2'                                       | 36.62     | 45.77               | 50.37               | 1721                      |
| 34.00              | .505 | CAPS, GR Y60 (item# 153)                                   | 2 Ea.                | 2EA.                                     | 39.27     | 49.09               | 54.03               | 1604                      |
| 34.00              | .500 | API 5L, GR X52, DSAW (item# 1)                             | 403'                 | 403' MOR.                                | 45.77     | 57.21               | 62.97               | 1377                      |
| 24.00              | .500 | API 5L, GR X52, DSAW (item# 2)                             | 8'                   | 8'                                       | 32.31     | 40.38               | 44.45               | 1950                      |
| 2.375              | .218 | API 5L, GR B, SMLS (item# 3)                               | 21'                  | 21'                                      | 10.89     | 13.62               | 14.99               | 5783                      |
| .840               | .147 | API 5L, GR B, SMLS (item# 4)                               | 20                   | 20'                                      | 5.71      | 7.14                | 7.86                | 11025                     |

|  |                                       |   |                |
|--|---------------------------------------|---|----------------|
| Minimum Test Pressure @ Max. Elevation<br><b>875 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>1008 PSIG</b> |                                       |   |                |

|                                 |                         |  |                         |
|---------------------------------|-------------------------|--|-------------------------|
| Prepared By:<br><b>Redacted</b> | Date:<br><b>8/25/11</b> | For Information or Changes, Call:<br><b>Mark Cabral (925) 588-3640</b> | Date:<br><b>8-25-11</b> |
|---------------------------------|-------------------------|--|-------------------------|

**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<br><b>8/28/11 7:50<sup>A</sup></b> | Elevation at Test Point<br><b>509</b> FT        | Min. Required Test Press. At Test Point (1)<br><b>875</b> PSIG | Max. Allowable Test Press at Test Point<br><b>919</b> PSIG  |
| Time and Date Test Ended<br><b>8/28/11 4:15<sup>P</sup></b>            | Max. Elevation in Test Section<br><b>509</b> FT | Min. Indicated Test Pressure (2)<br><b>887</b> PSIG            | Max. Indicated Test Pressure (5)<br><b>900</b> PSIG         |
| Actual Duration of Test<br><b>9 HOURS 25 MINUTES</b>                   | Min. Elevation in Test Section<br><b>489</b> FT | Min. Test Pressure at Max. Elevation (3)<br><b>875</b> PSIG    | Max. Test Pressure at Min. Elevation (6)<br><b>909</b> PSIG |

Test Fluid Used: **WATER**  
 Pipe Specification and Foolage Verified (See Part I): **STEVE BELMONT**

|  |  |   |  |
|--|--|---|--|
| Make, Range, and Serial No. of Pressure Recording Gauge<br><b>BARTON 0-3000 # 752002</b> | Date Last Calibrated<br><b>8/15/2011</b> | Make, Range, and Serial No. of Dead Weight Tester (See Note 7)<br><b>CHANDLER 50-5000 # 10329</b> | Date Last Calibrated<br><b>8/16/2011</b> |
|--|--|---|--|

|  |                           |                                 |                          |
|--|---------------------------|---------------------------------|--------------------------|
| Test Supervised By:<br><b>Redacted</b> | Date:<br><b>8/28/2011</b> | Approved By:<br><b>Redacted</b> | Date:<br><b>8-1-2011</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> |
|--|---|