



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

|   |                         |                                     |                                   |                                       |
|---|-------------------------|-------------------------------------|-----------------------------------|---------------------------------------|
| Feeder Main Number, Line Number, or Station Name<br><b>L-300A</b> | Area<br><b>Southern</b> | Division/District<br><b>Hinkley</b> | Job Number<br><b>41474053-T51</b> | Date Job Authorized<br><b>5-25-11</b> |
|---|-------------------------|-------------------------------------|-----------------------------------|---------------------------------------|

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts  
**Test 1 - 34" L-300A tie-in and hydrostatic test piping - Existing 34" pipe from the "Material of Record" (refer to DWG 41474053-T51, sheet 5)**  
**Revision 1**

Hydrotest L-300A from MP 121.8722 - 122.0800 & 122.4899 - 122.6788 Newberry Springs, CA (Test section 51)  
**Revision 1 - added 34" OD x 0.469" WT API 5L X60, DSAW, in Location Class III included in middle of test section**

|                            |                                 |  |   |
|----------------------------|---------------------------------|--|---|
| 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>688 PSIG</b> | Future Design Pressure<br><b>688 PSIG</b> |
|----------------------------|---------------------------------|--|---|

|  |                                   |                                    |                             |
|--|-----------------------------------|------------------------------------|-----------------------------|
| STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE) | Max. Elevation<br><b>1804 Ft.</b> | Static Head Calculation            |                             |
|  | Min. Elevation<br><b>1791 Ft.</b> | For Water<br>0.433 X Elev. Diff. = | <b>5.63 PSIG</b>            |
|  | Elev. Diff.<br><b>13 Ft.</b>      | 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. |                           |
| 34.00  | .505  | API 5L, GR X60, DSAW (item#101)                         | 40'                  | 67.33'                                   | 38.60     | 48.31               | 53.14               | 1604                      |
| 34.00  | .375  | API 5L, GR X60, DSAW (item#102)                         | 20'                  | 30'                                      | 51.98     | 65.05               | 71.55               | 1192                      |
| 34.00  | .3125 | Pipe, GR X-52, DSAW (item #1)                           | 2105'                | 2103.6'                                  | 71.98     | 90.07               | 99.07               | 861                       |
| 34.00  | .375  | Sleeve 42", GR X-60 (item#5)                            | 2 ea.                | M.O.R.                                   | 64.21     | 80.36               | 88.40               | 965                       |
| <b>Class III Location Pipe - Integrity Test Only. Does not establish MAOP.</b> |       |   |                      |  |           |                     |                     |                           |
| 34.00  | .469  | API 5L, GR-X60 DSAW                                     | 2192'                | M.O.R.                                   | 41.56     | 52.01               | 57.21               | 1490                      |

|   |                                       |   |                |
|---|---------------------------------------|---|----------------|
| Minimum Test Pressure @ Max. Elevation<br><b>861 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>947 PSIG</b> |                                       |   |                |

Prepared By: **Richard Avery** Date: **05/20/11 7/28/11** For Information or Changes, Call: **Mark Cabral (925) 588-36-40** Approved By: **Mark Cabral** Date: **8-16-11**

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

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

|  |  |  |  |
|--|--|--|--|
| Time and Date Test Pressure Reached<br><b>2:38 pm 6-8-2011</b> | Elevation at Test Point<br><b>1791 FT</b>        | Min. Required Test Press. At Test Point (1)<br><b>866 PSIG</b> | Max. Allowable Test Press at Test Point (4)<br><b>947 PSIG</b> |
| Time and Date Test Ended<br><b>10:53 pm 6-8-2011</b>           | Max. Elevation in Test Section<br><b>1804 FT</b> | Min. Indicated Test Pressure (2)<br><b>878 PSIG</b>            | Max. Indicated Test Pressure (5)<br><b>940 PSIG</b>            |
| Actual Duration of Test<br><b>8 hrs 15 mins</b>                | Min. Elevation in Test Section<br><b>1791 FT</b> | Min. Test Pressure at Max. Elevation (3)<br><b>872 PSIG</b>    | Max. Test Pressure at Min. Elevation (6)<br><b>940 PSIG</b>    |

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

|  |  |  |  |
|--|--|--|--|
| Make, Range, and Serial No. of Pressure Recording Gauge<br><b>Chessel MOD #592 0-3000 PSI S/N 04042809</b> | Date Last Calibrated<br><b>5-20-2011</b> | Make, Range, and Serial No. of Dead Weight Tester (See Note 7)<br><b>Chandler 50-3000 PSI S/N 6106</b> | Date Last Calibrated<br><b>5-19-2011</b> |
|--|--|--|--|

Test Supervised By: **Bobby Tallant** Date: **6-23-11** Approved By: **Mark Cabral** Date: **8-1-11**

**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: **94042809**

|  |  |
|--|--|
| <b>NOTES:</b>  | <b>DISTRIBUTION</b>                                      |
| (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 |

- 1. ORIGINAL DOCUMENT SIGNED 5-20-11
- 2. ORIGINAL DOCUMENT SIGNED 6-20-11
- 3. ORIGINAL DOCUMENT SIGNED 5-25-11 @