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 | Area | Division/District | Job Number | Date Job Authorized |
|---|---|---|---|---|
| L-300B | Topock | Kern | 41497332-3 | 8-18-11 |

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts

**Test 3 – Segment A - B - Existing 34" materials listed are from 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: Update item# 200 description.**

Hydrotest L-300B from MP 0.2241 – 0.459 Segment A-B Needles, CA (Test section 76)

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

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE): Max. Elevation 614 Ft. – Min. Elevation 509 Ft. = Elev. Diff. 105 Ft.

Static Head Calculation: For Water 0.433 X Elev. Diff. = 46 PSIG; Other (Specify) ____ X Elev. Diff. = ____ PSIG

| Pipe Specification: Size O.D. | Size W.T. | API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.) | Footage to Be Tested | Pipe Spec. and Footage Verified In Field | % of SMYS: At MAOP | At Min. Test Press. | At Max. Test Press. | Pressure to Give 90% SMYS |
|---|---|---|---|---|---|---|---|---|
| 34.00 | .500 | API 5L, GR X65, DSAW (item# 101) | ~~136'~~ | 116' SR3 | 36.62 | 45.77 | 50.37 | 1721 |
| 34.00 | .505 | CAPS, GR Y60 (item# 153) | ~~2 Ea.~~ | 0 EA. SR3 | 39.27 | 49.09 | 54.03 | 1604 |
| 34.00 | .505 | ELBOW, GR Y60 (item# 113) | 4 Ea. | 4 EA. SR3 | 39.27 | 49.09 | 54.03 | 1604 |
| 34.00 | .500 | API 5L, GR X52, DSAW (item# 1) 1114.7' | ~~1096'~~ | MOR. + | 45.77 | 57.21 | 62.97 | 1377 |
| 4.50 | .237 | API 5L, GR B, ~~DSAW~~ (item# 201) | ~~46'~~ | 20' SR3 | 18.99 | 23.73 | 26.12 | 3318 |
| 4.50 | .237 | CAP, GR B (item# 200) | ~~1 Ea.~~ | 0 EA SR3 | 18.99 | 23.73 | 26.12 | 3318 |
| 34.00 | .500 | ELBOW, GR Y-65 (item# 30) | 2 | 2 | 36.62 | 45.77 | 50.37 | 1721 |

| | | Test Fluid To Be Used | MINIMUM TEST DURATION | |
|---|---|---|---|---|
| Minimum Test Pressure @ Max. Elevation | 875 PSIG | WATER | - UNDER 30% SMYS (1 HR. MINIMUM) | 8 HOURS |
| Maximum Test Pressure @ Min. Elevation | 1008 PSIG | | - 30% SMYS & OVER (8 HRS. MINIMUM) | |
| | | | - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) | |

Prepared By: Redacted Redacted 8/22/2011 For Information or Changes, Call: Redacted Approved: Redacted Date: 8-22-11

## 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 | 8/24/11 8:10 AM | Elevation at Test Point | 509 FT | Min. Required Test Press. At Test Point (1) | 920.5 PSIG | Max. Allowable Test Press at Test Point (4) | ~~958~~ 1008 SS PSIG |
| Time and Date Test Ended | 8/24/11 4:30 PM | Max. Elevation in Test Section | 614 FT | Min. Indicated Test Pressure (2) | 925.0 PSIG | Max. Indicated Test Pressure (5) | 1008 PSIG |
| Actual Duration of Test | 8 HOURS 20 MINUTES | Min. Elevation in Test Section | 509 FT | Min. Test Pressure at Max. Elevation (3) | 880 PSIG | Max. Test Pressure at Min. Elevation (6) | 1008 PSIG |

Test Fluid Used: WATER

Pipe Specification and Footage Verified (See Part I): SR3 STEVE BELMONT & ADRIAN TREVIÑO

| Make, Range, and Serial No. of Pressure Recording Gauge | Date Last Calibrated | Make, Range, and Serial No. of Dead Weight Tester (See Note 7) | Date Last Calibrated |
|---|---|---|---|
| BARTON, 0-3000#, 725902 | 8/15/11 | CHANDLER, 50-5000#, 10329 | 8/16/11 |

Test Supervised By: Redacted Redacted MILBAR Date: 8/24/2011 Approved: Redacted Date: 8-29-11

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:

(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.

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), GMS&TS
REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING