



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 L-300B	Area 1	Division/District San Jose	Job Number 41497331-3	Date Job Authorized 8/18/11
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts TEST 3 - Hydrostatically test tie-in piping, hydrostatic test piping and existing 34" L-300B. Existing pipeline material listed are from the "Material of Record" (refer to Dwg. 41497331 Sheet 7) Rev. 2 - Additional pipe specs 34.00" OD 0.505" WT X-60, 34.00" OD 0.375" WT X-65, & 1.05" OD 0.113" WT GR B Hydrotest L-300B from MP 489.33- 490.915 San Jose, CA (Test section 89 North)				
Location Class 3	Design Factor (F) 0.5	MAOP to be Established for this Piping by this Test 631 PSIG	Future Design Pressure 631 PSIG	
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 796 Ft.	Static Head Calculation	For Water 0.433 X Elev. Diff. = 261 PSIG	
	Min. Elevation 193 Ft.	Other (Specify)	X Elev. Diff. = PSIG	
	Elev. Diff. 603 Ft.			

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.	
34.00	0.500	API 5L, GR X-65, DSAW (item#101)	24'	40' RLC	33.01	49.54	65.70	1721
34.00	0.505	API 5L, GR X-60, DSAW	16'	Ø RLC	35.40	53.13	70.47	1604
34.00	0.560	API 5L, GR X-60, DSAW (item#1)	17'	MOR	31.93	47.91	63.55	1779
34.00	0.500	API 5L, GR X-52, DSAW (item#2)	1184'	1183' A	41.26	61.92	82.12	1376
34.00	0.4375	API 5L, GR X-52, DSAW (item#3)	3154'	MOR	47.15	70.76	93.85	1204
34.00	0.375	API 5L, GR X-52, DSAW (item#4)	433'	MOR	55.01	82.56	109.50*	1032
34.00	0.344	API 5L, GR X-52, DSAW (item#5)	3483'	MOR	59.97	90.00	119.36*	947
34.00	0.375	API 5L, GR X-65, DSAW (item#102)	19'	19' RLC	44.01	66.05	87.60	1291
1.050	0.113	API 5L, GR B, SMLS	40'	40' RLC	8.38	12.57	16.67	6780

Minimum Test Pressure @ Max. Elevation 947 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation 1256 PSIG	- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)		

Prepared By: **Mark Cabral** Date: **8-18-11** Redacted Redacted Date: **8/18/11**

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 3:45 am 8-20-2011	Elevation at Test Point 774 FT	Min. Required Test Press. At Test Point (1) 957 PSIG	Max. Allowable Test Press at Test Point (4) 1004 PSIG
Time and Date Test Ended 12:00 am 8-21-2011	Max. Elevation in Test Section 796 FT	Min. Indicated Test Pressure (2) 976 PSIG	Max. Indicated Test Pressure (5) 981 PSIG
Actual Duration of Test 8 hour 15 min	Min. Elevation in Test Section 193 FT	Min. Test Pressure at Max. Elevation (3) 966 PSIG	Max. Test Pressure at Min. Elevation (6) 1233 PSIG

Test Fluid Used: **Water** Pipe Specification and Footage Verified: **Redacted**

Make, Range, and Serial No. of Pressure Recording Gauge Barton 0-3000 202A-1755 12	Date Last Calibrated 6-7-2011	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Shawler 50-3000 6106	Date Last Calibrated 5-17-2011
Test Supervised: Redacted	Date: 8-21-2011	Approved By: Jed M...	Date: 9-1-11

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.

- 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)
 GMS&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

*Item #4 on MOR, 34.00"OD x 0.375"WT, API 5L, X-52 will not experience test pressure commensurate with this % of SMYS. Minimum elevation of this pipe (see Dwg. 4147331, sheet 4 of 7) is 631' and maximum test pressure will be 1066 psig (93.0% of SMYS) at this location. Item #5 on MOR, 34.00"OD x 0.344"WT, API 5L, X-52 will not experience test pressure commensurate with this % of SMYS. Minimum elevation of this pipe (see Dwg. 4147331, sheet 4 of 7) is 680' and maximum test pressure will be 1045 psig (99.3% of SMYS) at this location.