Pacific Gas and Electric Company

Gas Pipeline Facilities Strength Test Pressure Report
(For Pipeline Facilities Designed to Operate over 100 PSIG)

62-4921 (Rev. 7/89)
Gas & Electric Technical Services
(Use in Accordance with Gas Std. A-34 and GO 112)

Sheet 1 of 1

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

Feeder Main, Line No., or Sta.	Region/PLO	Division/Area	Job Order No.	Date Job Order Authorized
1918	EAST BAY	DIABLO	GM 4794871	12/19/89

Description of Job—include Reference Drawing Numbers
Replace 5,772' of 8" main with 10" main, Briones Regional Park, Lafayette
Reference Dwg. 489101, field sta. 55+07.0 to 56+04.2 (creek crossing span)

Location Class	Design Factor (F)	MAOP of Existing Facilities	MAOP to Be Established for This Section by This Test	Design Pressure—This Section (Use Future Design Pressure Whenever Possible)
3	.5	283 PSIG	400 PSIG	400 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)
Max. Elevation 634 Ft.
Min. Elevation 545 Ft.
Elev. Diff. 89 Ft.
Static Head Calculation for Water 0.433 X Elev. Diff. = 38.54 PSIG
Other (Specify) — X Elev. Diff. = PSIG

Pipe Specification				Pipe Spec. and Footage Verified in Field	% of SMYS			Press. To Give 90% SMYS
Size O.D.	Size W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.).	Footage To Be Tested		At Design Press.	At Min. Test Press.	At Max. Test Press.	
12.750"	.375"	API-5L GR-B SEAMLESS	60'	NJ	19.43	90.00	97.77	1853
10.750"	.219"	API-5L, X-52 ERW	327'	NJ	18.88	87.46	95.01	1907

Minimum Test Pressure @ Max. Elevation	1853 PSIG	Test fluid to be used. WATER	MINIMUM TEST DURATION: - UNDER 30% SMYS (1 HR. MIN.) - 30% SMYS & OVER (8 HRS. MIN.) - PREINSTALLATION TEST (SEE APPENDIX "A", GAS STD. A-34)	8 HRS.
Maximum Test Pressure @ Min. Elevation	2013 PSIG			

Prepared By	Date	For Information or Changes, Call	Approved By	Date
ELAINE CHOW	8/22/90	ext. 223-1888	John R. Valenti	8-22-90

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	3:43 AM 10-14-90	Elevation at Test Point	557 FEET	Min. Required Test Press at Test Point (1)	1886 PSIG	Max. Allowable Test Press at Test Point (4)	2008 PSIG
Time and Date Test Ended	12:52 PM 10-14-90	Max. Elevation in Test Section	634 FEET	Min. Indicated Test Press (2)	1900 PSIG	Max. Indicated Test Press (5)	1900 PSIG
Actual Duration of Test	9 HRS 9 MIN	Min. Elevation in Test Section	545 FEET	Min. Test Press at Max. Elevation (3)	1867 PSIG	Max. Test Press at Min. Elev (6)	1905 PSIG

Test Fluid Used	Pipe Spec. & Footage Verified (See Part I)
WATER	NJ

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibration	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibration
FOXBORO 0-5000 3076072	10-18-90	CHANDLER 0-5000 126321	1-90

Test Supervised By:	Date:	Approved By:	Date:
NICK JORDAN	10-14-90	Gary L. Heal /mm	11-19-90

PUT SCHEMATIC SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MIN. & MAX. 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 SECTION 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) 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

DIVISION GAS & ELECTRIC OPERATIONS MANAGER
JOB FILE
REGION GAS MANAGER
PROJECT ENGINEER
GC GAS—ASSIGNED JOBS
PLANT ACCOUNTING (WITH FOREMAN'S COPY OF JOB)
*PIPELINE HISTORY FILE
REPORT FAILURES UNDER TEST TO GAS SYSTEM DESIGN AND GAS DISTRIBUTION DEPARTMENTS

Humitex Phantom Chart
UNIFORM
808453
THE FOXBORO COMPANY
FOXBORO, MASS.
U.S.A.
START 3:43 AM 10-14-90
COMPLETED 12:52 PM 10-14-90
MIDNIGHT
1A.M.
2A.M.
3A.M.
10A.M.
11A.M.
NOON
1P.M.
2P.M.
3P.M.
4P.M.
10P.M.
11P.M.

DEADWEIGHT

60' – 12.750" O.D., .281" W.T., API 5L, GR X-42, ERW

327' – 10.750" O.D., .219" W.T., API 5L, GR X-52, ERW

STRENGTH TEST INFORMATION

1. JOB 6M [redacted] – LAFAYETTE
2. LOCATION [redacted] 1900
3. DATE 10-14-90 DURATION 9 HRS 9 MIN
4. TIME 3:43AM – 12:52PM SPEC W.T.
5. LENGTH SEE ABOVE
6. PIPE SPEC
7. RECORDING GAUGE FOXBORO SERIAL # 3576072
8. RANGE 0-5000 LAST CALIBRATED 10-18-90
9. DEAD WGT. CHAMPION SERIAL # 126321
10. RANGE 0-5000 LAST CALIBRATED 1-90
11. TEST FLUID WATER DATE 10-14-90
12. SUPERVISED [illegible] DATE
13. APPROVED