Pacific Gas and Electric Company

Gas Pipeline Facilities Strength Test Pressure Report

(For Pipeline Facilities Designed to Operate over 100 PSIG)

FINAL

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-400-3	2 & 6	Diablo/Los Medanos	41474058	9/28/11

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

Test 3 – Hydrostatically test tie-in pieces, hydrostatic test piping and existing 26" L-400-3. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41474058, sheet 7 of 7)

Hydrotest L-400-3 from Redacted (Test section 93A)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
1	.50	975 PSIG	975 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	20 Ft.	For Water	0.433 X Elev. Diff. =	29 27 PSIG
	Min. Elevation	-42 -47 Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	67 Ft.			

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	% of SMYS At Min. Test Press.	% of SMYS At Max. Test Press.	Pressure to Give 90% SMYS
26.00	0.500	Pipe, API-5L X-52, DSAW (item#1)	23441'	23448.8'	48.75	73.15	82.00	1800
26.00	0.500	Pipe, API-5L X-65, DSAW (item#104)	48'	103.4'	39.00	58.52	65.60	2250
26.00	0.500	Elbow, Y-52, LR (item#2)	15 Ea.	MOR	48.75	73.15	82.00	1800
26.00	0.500	Elbow, Y-60, LR (item#125)	4 Ea.	4 EA	42.25	63.40	71.07	2077
26.00	0.375	PIPE, API5 X 65 DSAW	2.5'	2.5'	52.00	78.03	87.47	1688 (15)

Minimum Test Pressure @ Max. Elevation	1463 PSIG	Test Fluid To Be Used	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1640 PSIG	WATER		

Prepared By: Mark Cabral Mark Cabral Date: 10-19-11 Redacted Redacted Date: 10/19/11

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	11:50AM 11-14-11	Elevation at Test Point	7 FT	Min. Required Test Press. At Test Point (1)	1,468.63 PSIG	Max. Allowable Test Press at Test Point (4)	1,616.60 1,616.60 PSIG
Time and Date Test Ended	8:15PM 11-14-11	Max. Elevation in Test Section	20 FT	Min. Indicated Test Pressure (2)	1,500.00 PSIG	Max. Indicated Test Pressure (5)	1,625.00 PSIG
Actual Duration of Test	8HR 25 min	Min. Elevation in Test Section	-47 FT	Min. Test Pressure at Max. Elevation (3)	1,494.37 PSIG	Max. Test Pressure at Min. Elevation (6)	1,619.40 PSIG

Test Fluid Used: WATER

Pipe Specification and Footage Verified (See Part I): K 4460 Redacted

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 0-2000 2426-4001	10-21-11	CHANDLER 50-5000 22856	9-6-11

Redacted Date: 11-14-11 Approved By: Date: 11-25-11

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.

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REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING