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-132	2	De Anza	41497346-3	

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

Test 3 – Hydrostatically test 24" pipe at MLV 7.10. Existing pipeline material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record" (refer to Dwg. 41497346 sheet 7)

Hydrotest L-132 at MLV 7.10 Sunnyvale, CA (Test section 26)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	400 PSIG	400 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	43 Ft.	For Water	0.433 X Elev. Diff. =	0 PSIG
	Min. Elevation	43 Ft.	Other (Specify)		
	Elev. Diff.	0 Ft.		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
24.00	0.375	Pipe, API 5L X-60, DSAW (Item 106)	4	JE	21.33	36.27	40.53	1688
24.00	0.281	Pipe, 40000 SMYS, SMLS (Item 2)	6	JE	42.70	72.60	81.14	843
24.00	0.312	Pipe, Grade & Seam Unknown (Item 3)	6	JE				
25.25	0.375	Sleeve, Type B, 50000 SMYS (Item 7)	2 ea.	JE	25.60	43.52	48.64	1406
3.50	0.216	Pipe, API 5L Gr. B, SMLS (Item 11)	1	(6' JE	9.26	15.74	17.59	3888
24.00	.375	CAP X-60 ITEM 158	2-EA.	JE				
3.50		TEE ITEM 166	1 EA	JE				
3.50		90° ELL	1 EA	JE				

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	680 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	760 PSIG		- 30% SMYS & OVER (8 HRS. MINIMUM)	
			- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By:	Date:	For Information or Changes, Call:	Approved By:	Date:
Redacted	9-2-11	Redacted	Redacted	9/5/11

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	2:04 AM 10-15-11	Elevation at Test Point	43 FT	Min. Required Test Press. At Test Point (1)	680 PSIG	Max. Allowable Test Press at Test Point (4)	750.47 PSIG
Time and Date Test Ended	10:30 AM 10-15-11	Max. Elevation in Test Section	43 FT	Min. Indicated Test Pressure (2)	694 PSIG	Max. Indicated Test Pressure (5)	748 PSIG
Actual Duration of Test	8 HR 26 min	Min. Elevation in Test Section	21 FT	Min. Test Pressure at Max. Elevation (3)	694 PSIG	Max. Test Pressure at Min. Elevation (6)	757.53 PSIG

Test Fluid Used	Pipe Specification and Footage Verified (See Part I)
WATER 20285346	JE A584

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 6-3000 20285346	7-25-11	CHANDLER 50-5000 22856	9-6-11

Test Supervised By:	Date:	Approved By:	Date:
Redacted	10-15-11	Redacted	10-20-11

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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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 2

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-132	2	De Anza	41497346-4	

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

Test 4 - Hydrostatically test 24" tie in piping, hydrostatic test piping, and existing 24" L-132. Existing pipeline material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record" (refer to Dwg. 41497346 sheet 7)

Hydrotest L-132 from MP 4.92 – 7.10 Sunnyvale, CA (Test section 26)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	400 PSIG	400 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	43 Ft.	For Water	0.433 X Elev. Diff. =	8.2 PSIG
	Min. Elevation	21 Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	19 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	At Min. Test Press.	At Max. Test Press.	Pressure to Give 90% SMYS
24.00	0.375	Pipe, API 5L X-60, DSAW (Item 106)	M	53' JE	21.33	36.27	40.53	1688
24.00	0.312	Pipe, API 5L X-42, DSAW (Item 1)	7	MOR	36.63	62.27	69.60	983
24.00	0.281	Pipe, 40000 SMYS, SMLS (Item 2)	~~10938~~	10936.9 L	42.70	72.60	81.14	843
24.00	0.281	Elbow, LR, 40000 SMYS, SMLS (Item 5)	13 ea.	MOR	42.70	72.60	81.14	843
24.00	0.312	Sleeve, 50000 SMYS (Item 6)	1 ea.	MOR	30.77	52.31	58.46	1170
24.00	0.375	Sleeve, 50000 SMYS (Item 7)	2 ea.	MOR	25.60	43.52	48.64	1406
25.25	0.500	Sleeve, 60000 SMYS (Item 8)	1 ea.	MOR	16.83	28.62	31.98	2139

Minimum Test Pressure @ Max. Elevation	680 PSIG	Test Fluid To Be Used WATER	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	760 PSIG		

Redacted Date: 8-2-11 For Information or Changes, Call: Redacted Approved By: Redacted Date: 8/5/11

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	2:04 PM 10-15-11	Elevation at Test Point	43 FT	Min. Required Test Press. At Test Point (1)	680 PSIG	Max. Allowable Test Press at Test Point (4)	750.47 PSIG
Time and Date Test Ended	10:30 AM 10-15-11	Max. Elevation in Test Section	43 FT	Min. Indicated Test Pressure (2)	694 PSIG	Max. Indicated Test Pressure (5)	748 PSIG
Actual Duration of Test	8 Hr 26 min	Min. Elevation in Test Section	21 FT	Min. Test Pressure at Max. Elevation (3)	694 PSIG	Max. Test Pressure at Min. Elevation (6)	757.53 PSIG

Test Fluid Used: WATER

Pipe Specification and Footage Verified (See Part I): JE A584 A TRESPANDO A650

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
DARTON 0-3000 20485346	7-25-11	CHANDLER 50-5000 22856	9-6-11

Test: Redacted Date: 10-15-11 Approved By: Redacted Date: 10-20-11

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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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)

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-132	2	De Anza	41497346-4	

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

Test 4 - Hydrostatically test 24" tie in piping, hydrostatic test piping, and existing 24" L-132. Existing pipeline material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record" (refer to Dwg. 41497346 sheet 7)

Hydrotest L-132 from MP 4.92 – 7.10 Sunnyvale, CA (Test section 26)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	400 PSIG	400 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	42 Ft.	For Water	0.433 X Elev. Diff. =	8.2 PSIG
	Min. Elevation	23 Ft.	Other (Specify)		
	Elev. Diff.	19 Ft.		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
~~24x16~~	~~0.375~~	~~Tee, Reducing, Gr. B (Item 9)~~	~~1 ea.~~		~~36.57~~	~~62.17~~	~~69.49~~	~~984~~
~~16.00~~	~~0.375~~	~~Pipe, API FL X-42, ERW (Item 9)~~	~~1~~		~~20.32~~	~~34.54~~	~~38.60~~	~~1772~~
6.625	0.280	Pipe, API 5L Gr. B, SMLS (Item 10)	~~5~~	1' JE	13.52	22.98	25.69	2663
2.375	0.154	Pipe, API 5L Gr. B, SMLS (Item 12)	~~285~~	MOR 117A	8.81	14.98	16.74	4085
1.66	0.140	Pipe, API 5L Gr. B, SMLS (Item 13)	3	MOR	6.78	11.52	12.87	5313

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	680 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	760 PSIG		- 30% SMYS & OVER (8 HRS. MINIMUM)	
			- PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By: Redacted Date: 8-2-11 For Information or Changes, Call: Redacted Approved By: Redacted Date: 8/5/11

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	2:04 AM 10-15-11	Elevation at Test Point	43 FT	Min. Required Test Press. At Test Point (1)	680 PSIG	Max. Allowable Test Press at Test Point (4)	750.47 PSIG
Time and Date Test Ended	10:30 AM 10-15-11	Max. Elevation in Test Section	43 FT	Min. Indicated Test Pressure (2)	694 PSIG	Max. Indicated Test Pressure (5)	745 PSIG
Actual Duration of Test	8 HR 26 min	Min. Elevation in Test Section	21 FT	Min. Test Pressure at Max. Elevation (3)	694 PSIG	Max. Test Pressure at Min. Elevation (6)	752.53 PSIG

Test Fluid Used: WATER

Pipe Specification and Footage Verified (See Part I): JE A584 A TRESPANDO A650

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 202A 85346	7-25-11	CHANDLER 50-5000 22856	9-6-11

Test: Redacted Date: 10-15-11 Approved By: Redacted Date: 10-20-11

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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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-132	2	De Anza	41497346-2	

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

Test 2 - Hydrostatically test 24" pipe at MLV 4.92. Existing pipeline material listed; i.e. pipe, elbows, sleeves, etc. are from the "Material of Record" (refer to Dwg. 41497346 sheet 7)

Hydrotest L-132 downstream of MP 4.92 Sunnyvale, CA (Test section 6) DID NOT TEST PER

Redacted

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	400 PSIG	400 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	22 Ft.	For Water	0.433 X Elev. Diff. =	0 PSIG
	Min. Elevation	22 Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	0 Ft.			

Pipe Specification				Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure 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 MAOP	At Min. Test Press.	At Max. Test Press.	
24.00	0.375	Pipe, API 5L X-60, DSAW (Item 106)	2		21.33	36.27	40.53	1688
24.00	0.312	Pipe, API 5L X-42, DSAW (Item 1)	24		36.63	62.27	69.60	983
24.00	0.281	Pipe, 40000 SMYS, SMLS (Item 2)	8		42.70	72.60	81.14	843
24.00	0.375	Elbow, LR, GR. B (Item 4)	2 ea.		36.57	62.17	69.49	984
24x16	0.375	Tee, Reducing, GR B (Item 9)	1 ea.		36.57	62.17	69.49	984
24.00	0.375	Sleeve, Type B, 50000 SMYS (Item 7)	1 ea.		25.60	43.52	48.64	1406

Minimum Test Pressure @ Max. Elevation	680 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) 8 HOURS - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION T (SEE ATTACHMENT 'A', GAS STD. A-34)
Maximum Test Pressure @ Min. Elevation	760 PSIG		

Redacted 8-24 For information or Changes, Call: Redacted Appro Redacted Date: 8/3/11

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		Elevation at Test Point	FT	Min. Required Test Press. At Test Point (1)	PSIG	Max. Allowable Test Press at Test Point (4)	PSIG
Time and Date Test Ended		Max. Elevation in Test Section	FT	Min. Indicated Test Pressure (2)	PSIG	Max. Indicated Test Pressure (5)	PSIG
Actual Duration of Test		Min. Elevation in Test Section	FT	Min. Test Pressure at Max. Elevation (3)	PSIG	Max. Test Pressure at Min. Elevation (6)	PSIG

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

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

Test Supervised By:	Date:	Approved By:	Date:

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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