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 4

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-300A	3	San Jose	41497313	6/24/11

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

TEST 1 -- Hydrostatically test temporary cut caps and pups (refer to Drawing 41497313 sheet 5 detail 3)

Hydrotest L-300A from MP 490.66 – 493.59 San Jose, CA (Test Section 71)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

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

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.	
34.00"	0.505"	API 5L, X-60, DSAW (Item 101)	4'	0' KLG	37.93	56.89	64.52	1604
34.00"	0.375"	API 5L, X-65, DSAW (Item 102)	4'	0' KLG	47.15	70.72	80.21	1290
		WAS NOT TESTED CAPS PLATED		WELDED PER	DIRECTLY TO LINE KEVIN GALE			

Minimum Test Pressure @ Max. Elevation	1014 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)	4 HOURS
Maximum Test Pressure @ Min. Elevation	1150 PSIG			

Redacted — Date: 6/24/2011 — For Information or Changes, Call: Redacted — Approved By: [signature] — Date: 6/25/11

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) KLG 4603

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: Redacted — Date: 9-15-11

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)
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REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

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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-300A	3	San Jose	41497313	6/29/11

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

TEST 2 TEST 1 – Hydrostatically test temporary cut caps and pups (refer to Drawing 41497313 sheet 5 detail 8 and 9), and hydrostatically test existing tie-in pipe assembly at Redacted (Refer to Drawing 41497313 Detail 11)

Hydrotest L-300A from MP 490.66 – 493.59 San Jose, CA (Test Section 71)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

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

Pipe Specification			Footage to Be Tested	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.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
8.625"	0.322"	API 5L, GR.B, SMLS (Item 112)	4'	0' KLG	25.87	38.80	44.01	2352
4.50"	0.237"	API 5L, GR.B, SMLS (Item 114)	29'	0' KLG	18.34	27.50	31.19	3318
1.05"	0.154"	API 5L, GR.B, SMLS (Item 206)	10'	0' KLG	6.50	9.86	11.20	9240
		150 CAPS WELDED	DIRECTLY TO		PIPE	TEST NOT	RUN	
		PER KEVIN GALE						

Minimum Test Pressure @ Max. Elevation	1014 PSIG	Test Fluid To Be Used	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM)	1 HOURS
Maximum Test Pressure @ Min. Elevation	1150 PSIG	WATER	- 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Redacted Date: 6/24/2011 For Information or Changes, Call: Redacted Approved By: Date: 6/25/11

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): KLG A603

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: Redacted Date: 9-15-11

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILEPOINTS, 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 3 of 4

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-300A	3	San Jose	41497313	6/29/11

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

TEST 3 – Hydrostatically test tie-in piping, hydrotest piping, and existing 34" L-300a. Existing pipeline material listed (ie. pipe, elbows, sleeves, etc.) are from "Material of Record" (refer to Dwg. 41497313, Sheet 7) **Revision 2** – Added 34.00", 1.05", 4.50", and 0.84" pipe (Field Addition)

Hydrotest L-300A from MP 490.66 – 493.59 San Jose, CA (Test Section 71)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)				Static Head Calculation			
	Max. Elevation	200	Ft.	For Water	0.433 X Elev. Diff. =	34	PSIG
	Min. Elevation	123	Ft.	Other (Specify)		X Elev. Diff. =	PSIG
	Elev. Diff.	77	Ft.				

Pipe Specification			Footage to Be Tested	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.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00"	0.505"	API 5L, X-60, DSAW (Item 101)	~~30'~~	45.B A	37.93	56.89	64.52	1604
34.00"	0.500"	API 5L, X-46, DSAW (Item 2)	~~14,253'~~	1425L A	49.97	74.95	85.00	1218
34.00"	0.562"	API 5L, X-60, DSAW (Item 4)	177'	MOR	34.08	51.12	57.98	1785
34.00"	0.380"	API 5L, X-60, DSAW (Item 5)	207'	MOR	50.40	75.61	85.75	1207
34.00"	0.500"	API 5L, X-60, DSAW (Item 6)	1155'	MOR	38.31	57.46	65.17	1588
8.625"	0.500"	API 5L, GR.B SMLS (Item 14)	6"	MOR	16.66	24.99	28.34	3652
2.375"	0.154"	API 5L, GR.B SMLS (Item 15)	2' 6"	MOR	14.89	22.34	25.34	4085
4.5"	0.237"	API 5L, GR.B SMLS (Item 15 & 17)	6'	MOR	18.34	27.50	31.19	3318
34.00"	0.375"	API 5L, X-60, DSAW	1.75'	KLG	51.08	76.61	86.89	1191
1.05"	0.154"	API 5L, GR.B SMLS	106'	KLG	6.58	9.88	11.20	9240
4.50"	0.237"	API 5L, GR.B SMLS (Item #12)	9'	KLG	18.34	27.50	31.19	3318

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	1014 PSIG	WATER	- 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	1150 PSIG			

Prepared By: Redacted Date: 6/24/2011

For Information or Changes, Call: Redacted

Approved By: Redacted Date: 6-25-11

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	9:17 PM 7-29-11	Elevation at Test Point	123 FT	Min. Required Test Press. At Test Point (1)	1047 PSIG	Max. Allowable Test Press at Test Point (4)	1150 PSIG
Time and Date Test Ended	6:15 AM 7-30-11	Max. Elevation in Test Section	200 FT	Min. Indicated Test Pressure (2)	1066 PSIG	Max. Indicated Test Pressure (5)	1149 PSIG
Actual Duration of Test	8 hr 58 min	Min. Elevation in Test Section	123 FT	Min. Test Pressure at Max. Elevation (3)	1033 PSIG	Max. Test Pressure at Min. Elevation (6)	1149 PSIG

Test Fluid Used: Water

Pipe Specification and Footage Verified (See Part I): A TRESPANDO KLG A603

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-M5572	6-7-2011	CHANDLER 50-3000, 6106	5-19-2011

Test Supervised By: Redacted ① Date: 9-15-2011

Approved By: Redacted Date: 9-15-11

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

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① Original signed 7-30-2011

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 4 of 4

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-300A	3	San Jose	41497313	6/24/11

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

TEST 3 – Hydrostatically test tie-in piping and existing 34" L-300a. Existing pipeline material listed (ie. pipe, elbows, sleeves, etc.) are from "Material of Record" (refer to Dwg. 41497313, Sheet 7) **Revision 2** – Added 34.00", 1.05", 4.50", and 0.84" pipe (Field Addition)

Hydrotest L-300A from MP 490.66 – 493.59 San Jose, CA (Test Section 71)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	676 PSIG	676 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)				Static Head Calculation		
	Max. Elevation	200	Ft.	For Water	0.433 X Elev. Diff. =	34 PSIG
	Min. Elevation	123	Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	77	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
1.05"	0.154"	API 5L, GR.B SMLS (Item 16)	2'	MOR	6.58	9.88	11.20	9240
34.00"	0.500"	Ell, Forged, LR, Y-65 (Item 8)	5 Ea.	MOR	35.36	53.04	60.15	1721
34.00"	0.380"	Ell, Forged, LR, Y-60 (Item 9)	4 Ea.	MOR	50.40	75.61	85.75	1207
34.00"	0.500"	Ell, Forged, LR, Y-52 (Item 10)	5 Ea.	MOR	44.20	66.30	75.19	1376
34.00"	0.406"	Ell, Forged, LR, 50,000 SMYS (Item 11)	11 Ea.	MOR	56.61	84.92	96.31	1075
34.00"	0.375"	Sleeve, 60,000 SMYS (Item 21)	2 Ea.	MOR	51.08	76.61	86.89	1191
34.00"	0.500"	Sleeve, 50,000 SMYS (Item 22)	1 Ea.	MOR	45.97	68.95	78.20	1324
34.00"	0.438"	Sleeve, 60,000 SMYS (Item 23)	2 Ea.	MOR	43.73	65.59	74.39	1391
0.840"	0.147"	API 5L, GR.B SMLS	21'	KLG	5.52	8.28	9.39	11025
8.625	0.322"	API 5L GR B, SMLS ITEM 18	6'	A-(PER KEVIN GALE)	25.87	38.80	44.01	2352

Minimum Test Pressure @ Max. Elevation	1014 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	1150 PSIG			

Prepared By: Redacted Date: 6/24/2011 For Information or Changes, Call: Redacted Approved By: Date: 6-25-11

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	9:17 PM 7-29-2011	Elevation at Test Point	123 FT	Min. Required Test Press. At Test Point (1)	1047 PSIG	Max. Allowable Test Press at Test Point (4)	1150 PSIG
Time and Date Test Ended	6:15 AM 7-30-2011	Max. Elevation in Test Section	200 FT	Min. Indicated Test Pressure (2)	1066 PSIG	Max. Indicated Test Pressure (5)	1149 PSIG
Actual Duration of Test	~~WATER~~ 8hr. 58 min	Min. Elevation in Test Section	123 FT	Min. Test Pressure at Max. Elevation (3)	1033 PSIG	Max. Test Pressure at Min. Elevation (6)	1149 PSIG

Test Fluid Used: WATER

Pipe Specification and Footage Verified (See Part I): KLG 4603

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-175572	6-7-2011	CHANDLER 50-7000, 6106	5-19-2011

Test Supervised By: Redacted Date: 4 9-15-2011 Approved By: Redacted Date: 9-15-11

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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