



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 <b>L-300A</b>	Area <b>3</b>	Division/District <b>Kern</b>	Job Number <b>41497324</b>	Date Job Authorized <b>9/6/11</b>
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**TEST 2 - Hydrostatically test tie-in piping, hydrostatic test piping and existing 34" L-300A Existing pipeline material listed are from the "Material of Record" (refer to Dwg. 41497324 Sheet 5)**  
**Hydrotest L-300A from MP 157.86 - 159.33 Hinkley, CA (Test section 56)**

Location Class <b>2</b>	Design Factor (F) <b>0.60</b>	MAOP to be Established for this Piping by this Test <b>688</b>	Future Design Pressure <b>688 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>2218 Ft.</b>	Static Head Calculation	For Water <b>0.433 X Elev. Diff. = 10 PSIG</b>
	Min. Elevation <b>2196 Ft.</b>	Other (Specify)	X Elev. Diff. = <b>PSIG</b>
	Elev. Diff. <b>22 Ft.</b>		

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)		31'	35.3' VE	35.99	44.98	49.54	1721
34.00	0.375	API 5L, GR X-65, DSAW (item#102)		47'	18.7' VE	47.98	59.98	66.05	1291
34.00	0.3125	API 5L, GR X-52, DSAW (item#1)		5397'	5390' VE	71.98	89.97	99.07	860
34.00	0.375	API 5L, GR X-52, DSAW (item#2)		3'	MOR VE	59.98	74.97	82.56	1032
34.00	0.500	API 5L, GR X-46, DSAW (item#3)		2314'	2299.3' VE	50.85	63.57	70.00	1218
34.00	0.3125	Elbow, Grade unknown (item#4)		2 ea.	4ea VE	-	-	-	-
34.00	0.500	Tee, 34" x 34" x 24", GR B (item#5)		2 ea.	MOR VE	66.83	83.54	91.99	926
34.00	.505	API 5L GR X-60		248	248' VE	38.60	48.25	53.13	1604

Minimum Test Pressure @ Max. Elevation <b>860 PSIG</b>	Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A' GAS STD. A-34)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>947 PSIG</b>	Approved <b>Redacted</b>	Date <b>9/6/11</b>	

**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 <b>10:25 AM 9/27/11</b>	Elevation at Test Point <b>2218 FT</b>	Min. Required Test Press. At Test Point (1) <b>860 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>937 PSIG</b>
Time and Date Test Ended <b>7:15 PM 9/27/11</b>	Max. Elevation in Test Section <b>2218 FT</b>	Min. Indicated Test Pressure (2) <b>870 PSIG</b>	Max. Indicated Test Pressure (5) <b>937 PSIG</b>
Actual Duration of Test <b>8hr. 50 min.</b>	Min. Elevation in Test Section <b>2196 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>870 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>947 PSIG</b>

Test Fluid Used: **WATER** Pipe Specification and Footage Verified (See Part I): **VE A-652**

Make, Range, and Serial No. of Pressure Recording Gauge <b>ISAACON 073000# 624082</b>	Date Last Calibrated <b>6/17/11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>CHANDLER 50-7000# 5198</b>	Date Last Calibrated <b>6/17/11</b>
Redacted	Date <b>9/27/11</b>	Approved By <b>Joel M...</b>	Date <b>11/2/11</b>

**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)  
 GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT  
 PROJECT MANAGER/PROJECT ENGINEER  
 TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY  
 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)  
 RECORDS SECTION (WC), GSM&TS  
 REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING



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 (For Pipeline Facilities Designed to Operate over 100 PSIG)

**FINAL**

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 California Gas Transmission  
 (Use in Accordance with Gas Standard A-34 and GO 112-0)

Sheet 1 of 1

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

Feeder Main Number, Line Number, or Station Name <b>L-300A</b>	Area <b>3</b>	Division/District <b>Kern</b>	Job Number <b>41497324</b>	Date Job Authorized <b>9/6/11</b>
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts  
**TEST 3 - Hydrostatically test tie-in piping, hydrostatic test piping and existing 34" L-300A Existing pipeline material listed are from the "Material of Record" (refer to Dwg. 41497324 Sheet 5) MLY 157.82 - 159.33**

Hydrotest L-300A from MP 157.86 - 159.33 Hinkley, CA (Test section 56)

Location Class <b>2</b>	Design Factor (F) <b>0.60</b>	MAOP to be Established for this Piping by this Test <b>688</b>	Future Design Pressure <b>688 PSIG</b>
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation <b>2218</b> Ft.	Static Head Calculation	<b>0.433 X Elev. Diff. = 0 - 40 PSIG</b>
	Min. Elevation <b>2196</b> Ft.	For Water	
	Elev. Diff. <b>22</b> Ft.	Other (Specify)	

Pipe Specification		API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified in Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D. W.T.	At MAOP				At Min. Test Press.	At Max. Test Press.		
34.00 0.500	API 5L, GR X-65, DSAW (item#101)	2	1.4' <i>aa</i>	35.99	44.98	49.54	1721	
0.840 0.147	API 5L, GR B, SMLS (item#112)	20'	0' <i>aa</i>	5.62	7.02	7.73	11025	
34.00 0.505	Cap, GR Y-60 (item#153)	1 ea.	<i>aa</i>	38.60	48.25	53.13	1604	
34.00 0.500	API 5L, GR X-46, DSAW (item#3)	1	21' <i>aa</i>	50.85	63.57	70.00	1218	
34.00 0.500	Tee, 34" x 34" x 12", GR B (item#6)	1 ea.	MOR	66.83	83.54	91.99	926	
2.375 0.154	API 5L, GR B, SMLS (item#7)	2"	1' <i>aa</i>	15.16	18.95	20.86	4085	
0.840 0.147	API 5L, GR B, SMLS (item#8)	5"	25.6' <i>aa</i>	5.62	7.02	7.73	11025	
12.75 0.500	API 5L, GR B, SMLS (item#9)	350'	350' <i>aa</i>	25.06	31.33	34.50	2471	
12.75	Tee, 12" x 12" x 12" (item#10)	1 ea.	MOR	-	-	-	-	
12.00 0.500	Valve, Plug #4449 1/2, ANSI 400 (item#11)	1 ea.	MOR	-	-	-	-	
12.75 .375	API 5L Gr B SMLS	14'	<i>aa</i>	33.42	41.77	46.00	1853	

Minimum Test Pressure @ Max. Elevation <b>860 PSIG</b>	Test Fluid To Be Used <b>WATER</b>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM)	<b>8 HOURS</b>
Maximum Test Pressure @ Min. Elevation <b>947 PSIG</b>	PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)		

Prepared By: **Mark Cabral** Date: **9-6-11** Redacted  
 Approved: **Redacted** Date: **9/6/11**

**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 <b>11:29 am 9/18/11</b>	Elevation at Test Point <b>2,218 FT</b>	Min. Required Test Press. At Test Point (1) <b>860 PSIG</b>	Max. Allowable Test Press at Test Point (4) <b>947 PSIG</b>
Time and Date Test Ended <b>7:45 pm 9/18/11</b>	Max. Elevation in Test Section <b>2218 FT</b>	Min. Indicated Test Pressure (2) <b>870 PSIG</b>	Max. Indicated Test Pressure (5) <b>940 PSIG</b>
Actual Duration of Test <b>8 hr 16 min</b>	Min. Elevation in Test Section <b>2218 FT</b>	Min. Test Pressure at Max. Elevation (3) <b>870 PSIG</b>	Max. Test Pressure at Min. Elevation (6) <b>940 PSIG</b>

Test Fluid Used: **Water** Pipe Specification and Footage Verified (See Part I): **aa**

Make, Range, and Serial No. of Pressure Recording Gauge <b>Barton 3600 psi 624086</b>	Date Last Calibrated <b>6-17-11</b>	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) <b>Chandler 50-3000 5198</b>	Date Last Calibrated <b>6/17/11</b>
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Redacted Approved By: **Paul Monroe** Date: **11-2-11**

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.

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