



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

62-4921 (Rev. 2/84)
 California Gas Transmission
 (Use in Accordance with Gas Standard A-34 and G-0 112-0)

Sheet 1 of 1

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

Feeder Main Number, Line Number, or Station Name L-300B	Area Central	Division/District Kern	Job Number 41497334-T81	Date Job Authorized 7-16-11
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Description of Job - include Reference Drawing Numbers, and Pipeline Mileposts
Test 1 - Segment A-C - Existing 34" materials listed are from the "Material of Record" (refer to DWG 41497334, sheet 5)
Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300B

Hydrotest L-300B from Redacted (Test section 81)

Location Class 1	Design Factor (F) .72	MAOP to be Established for this Piping by this Test 757 PSIG	Future Design Pressure 757 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 448 Ft.	Static Head Calculation For Water Other (Specify)	0.433 X Elev. Diff. = 12.12 PSIG
	Min. Elevation 420 Ft.		
	Elev. Diff. 28 Ft.		

Size		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
O.D.	W.T.				At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.505	API 5L, GR X60, DSAW (item#101)	26'	25.6 A	42.47	53.13	58.46	1604
34.00	.375	API 5L, GR X65, DSAW (item#102)	40' 30"	52.2 A	52.80	66.05	72.67	1290
34.00	.344	API 5L, GR X52, DSAW (item#1)	(4510)	MOR	71.94	90.00	99.03	947
34.00	.375	API 5L, GR X52, DSAW (item#2)	(6)	MOR	65.99	82.56	90.84	1032
34.00	.4375	API 5L, GR X48, DSAW (item#3)	(48)	MOR	61.28	76.66	84.35	1111
34.00	.505	4-60 GR. 90 ELBOWS	(4) pieces		42.47	53.13	58.46	1604

Minimum Test Pressure @ Max. Elevation 947 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 1042 PSIG			

Prepared By: **Mark Cabral** Date: **07/16/11** For Information or Changes, Call: **Redacted** Approved: **Redacted** Date: **7/21/11**

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 9:35 AM 8/22/11	Elevation at Test Point 420 FT	Min. Required Test Press. At Test Point (1) 959 PSIG	Max. Allowable Test Press at Test Point (4) 1042 PSIG
Time and Date Test Ended 6:00 PM 8/22/11	Max. Elevation in Test Section 448 FT	Min. Indicated Test Pressure (2) 974 PSIG	Max. Indicated Test Pressure (5) 1042 PSIG
Actual Duration of Test 8 hr 25 min.	Min. Elevation in Test Section 420 FT	Min. Test Pressure at Max. Elevation (3) 962 PSIG	Max. Test Pressure at Min. Elevation (6) 1042 PSIG

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

Make, Range, and Serial No. of Pressure Recording Gauge: **Barton 0-3000# 624082** Date Last Calibrated: **6/17/11**
 Make, Range, and Serial No. of Dead Weight Tester (See Note 7): **Chandler, 50-3000# 5198** Date Last Calibrated: **6/17/11**

Test: **Redacted** Date: **8/22/11** Approved By: **Paul Marshall** Date: **9-5-2011**

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)
 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

FINAL



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 L-300B	Area Central	Division/District Kern	Job Number 41497334-T81	Date Job Authorized 7-16-11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
~~Test 3 - Cut caps~~ to facilitate hydrotest (See Dwg 41497334-T81, SHT 5)
TEST 2

Hydrotest L-300B from Redacted (Test section 81)
TESTED WITH MAINLINE.

Location Class 1	Design Factor (F) .72	MAOP to be Established for this Piping by this Test 757 PSIG	Future Design Pressure 757 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	<u>0</u> Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = <u>0</u> PSIG Other (Specify) <u>Air</u> X Elev. Diff. = <u>0</u> PSIG
	Min. Elevation	<u>0</u> Ft.	
	Elev. Diff.	<u>0</u> Ft.	

Pipe Specification			Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
1.315	.179	API 5L, GR B, SMLS, BARE	10'	9' MOR.	7.94	9.94	10.94	8576
1.500	.145	CAPS, GR B	2 ea	DEA.	11.19	14.00	15.40	6090

Minimum Test Pressure @ Max. Elevation 947 PSIG	Test Fluid To Be Used <u>Air</u>	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	1 HOURS
Maximum Test Pressure @ Min. Elevation 1042 PSIG	<u>WATER</u>		

Prepared By: Mark Cabral Date: 07/16/11 For Information or Changes, Call: Redacted Approved: Redacted Date: 7/21/11

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 <u>9:35 AM</u> <u>8-22-11</u>	Elevation at Test Point <u>420</u> FT	Min. Required Test Press. At Test Point (1) <u>959</u> PSIG	Max. Allowable Test Press at Test Point (4) <u>1042</u> PSIG
Time and Date Test Ended <u>6:00 PM</u> <u>8-22-11</u>	Max. Elevation in Test Section <u>448</u> FT	Min. Indicated Test Pressure (2) <u>974</u> PSIG	Max. Indicated Test Pressure (5) <u>1042</u> PSIG
Actual Duration of Test <u>8 hr. 25 min</u>	Min. Elevation in Test Section <u>420</u> FT	Min. Test Pressure at Max. Elevation (3) <u>962</u> PSIG	Max. Test Pressure at Min. Elevation (6) <u>1042</u> PSIG

Test Fluid Used: water Pipe Specification and Footage Verified (See Part I): 14586

Make, Range, and Serial No. of Pressure Recording Gauge: BARTON, 0-3000 # 624082 Date Last Calibrated: 6-17-11
 Make, Range, and Serial No. of Dead Weight Tester (See Note 7): CHANDLER, 50-3000 # 5198 Date Last Calibrated: 6-17-11

Redacted Date: 8-22-11 Approved By: [Signature] Date: 9-1-2011

FOR 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.

<p>NOTES:</p> <ol style="list-style-type: none"> 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. 	<p>DISTRIBUTION</p> <p>JOB FILE (AT SPONSORING ORGANIZATION)</p> <p>GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT</p> <p>PROJECT MANAGER/PROJECT ENGINEER</p> <p>TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY</p> <p>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</p> <p>RECORDS SECTION (WC), GSM&TS</p> <p>REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING</p>
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