



RCP, Inc

801 Louisiana, Ste.200
Houston, Texas 77002

Redacted

July 9, 2011

Pacific Gas and Electric Company
350 N. Wiget
Walnut Creek, CA 94598
Attention: Scott Clapp
Attention:

Test Contractor: Contra Costa Inspection Co. -- T# 7/08/2011
Asset Owner: Pacific Gas and Electric Company -- 41497362
Construction Contractor: ARB -- 0629-53-3500
Test Section: PG&E T-46 Line 153, MP 13.62 - 17.62
Test Date: July 8, 2011
Certificate Number: RCP 61362 - T-45, L-153

To whom it may concern,

This letter is to certify that the hydrostatic test performed on pipe owned by Pacific Gas and Electric Company and tested by Contra Costa Inspection Co. met the requirements of the Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 3).

The test segment was subjected to a spike pressure test of 695 psig for 30 minutes, without observed leakage or yielding of the pipe segment. The 30 minute spike test and subsequent pressure reduction with volume bleed was included and is part of the 8 hour test duration period.

This hydrostatic test was completed successfully. Pressure was maintained on the test facilities in excess of 8 continuous hours without evidence of a leak failure. Water was the test medium. At the highest elevation point in the test section, the calculated test pressure was 641 psig and the established MAOP is 427 psig.

Pressure decreased 52 psi during the test. 26,880.00 ounces of fluid was intentionally released from the test section. Net corrected volumetric change from beginning of the test to the end of the test is calculated to be 101.77 ounces, gain, which is equivalent to a 0.01 °F change in pipe temperature and within the error attributed to the temperature measurement instrumentation utilized.

Test pressure did not remain steady even though no leaks were observed. The volumetric gain is attributed to the error characteristic of the temperature measurement instrumentation utilized.

Sincerely,

Redacted

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RCP 61362 T-46, L-153
Letter



Hydrostatic Test Certification

| | | | |
|-------------------|--------------------------------------|--------------|--------------|
| Company: | Pacific Gas and Electric Company | Job Number: | 41497387 |
| Construction Co.: | ARB | Job Number: | 0629-53-3500 |
| Hydro. Test Co.: | Contra Costa Inspection Co. | Project No.: | T# 7/06/2011 |
| Test Section: | PG&E T-46 Line 153, MP 13.62 - 17.62 | | |
| File Name: | RCP 61362 - T-45, L-153 | | |

Hydrostatic Test Pressure

APPLICABLE CODE FOR CERTIFICATION: Test Date: 8-Jul-11

Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 3)

This is to certify that the pipeline or pipeline section(s) described below was hydrostatically pressure tested in accordance with the following procedure:

Pipeline: PG&E T-46 Line 153, MP 13.62 - 17.62
 From: 00+00 To: 211+92

Pipe Data

| Segment | Length | Diameter | Wall Thickness | Specification | 100% SMYS |
|---------|-----------|------------|----------------|-------------------------------------|-----------|
| 1 | 207 ft | 30.000 in. | 0.375 in. | API5L-X65, DSAW, Arc Weld, Steel | 1,025 psi |
| 2 | 37 ft | 30.000 in. | 0.375 in. | API5L-X60, DSAW, Arc Weld, Steel | 1,500 psi |
| 3 | 20,804 ft | 30.000 in. | 0.375 in. | API5L-X52, DSAW, Arc Weld, Steel | 1,300 psi |
| 4 | 162 ft | 30.000 in. | 0.375 in. | API5L-Grade B, OTH, Arc Weld, Steel | 875 psi |
| 11 | 6 ft | 1.315 in. | 0.113 in. | API5L-Grade B, SM, Arc Weld, Steel | 6,015 psi |

Initial Test Conditions

| | | | | | |
|--------------------------------------|----------|-------------------------|----------------|------------------|---------|
| Pressure at Test Point: | 695 psig | Date/Time: | 7/8/11 8:25 PM | Pipe Temperature | |
| Ambient Temperature: | 60.0 °F | Elevation @ Test Point: | 12.0 ft | Unrestrained: | 68.0 °F |
| Pressure @ High Point (Cal/Measure): | 694 psig | Elevation @ High Point: | 15.0 ft | Restrained: | 70.0 °F |
| Pressure @ Low Point (Cal/Measure): | 707 psig | Elevation @ Low Point: | (15.0) ft | Location: | 00+00 |
| | | | | Location: | 211+92 |
| | | | | Location: | 103+00 |

Final Test Conditions

| | | | | | |
|--|------------------------|-------------------------|-----------------------|---------------------|---------|
| Pressure at Test Point: | 643 psig | Date/Time: | 7/8/11 4:45 AM | Pipe Temperature | |
| Ambient Temperature: | 56.0 °F | Elevation @ Test Point: | 12.0 ft | Unrestrained: | 64.0 °F |
| Pressure @ High Point (Cal/Measure): | 642 psig | Elevation @ High Point: | 15.0 ft | Restrained: | 70.0 °F |
| Pressure @ Low Point (Cal/Measure): | 655 psig | Elevation @ Low Point: | (15.0) ft | Location: | 00+00 |
| | | | | Location: | 211+92 |
| | | | | Location: | 103+00 |
| Total Fluid Injected: | Total Fluid Withdrawn: | | 28880.00 fluid ounces | Volume gain | |
| Net Change in Volume of the Test Section ± (+ Gain, - Loss): | 101.77 oz | gain | 0.0001% | 0.012 °F equivalent | |

Test Duration: 8 hours

| | | | | | |
|------------------------|----------|----------------|----------|----------------|----------|
| Minimum Test Pressure: | 643 psig | Max Elevation: | 642 psig | Min Elevation: | 655 psig |
| Maximum Test Pressure: | 695 psig | | 694 psig | | 707 psig |
| % SMYS: | 79.4% | | 79.3% | | 80.8% |

Minimum Test Pressure (Calculated/Measured): 642 psig

Maximum Allowable Operating Pressure: DOT Part 192 Test Factor= 1.50 427 psig

| | | |
|------------------------------|-----|--|
| Were leaks observed? | No | Explain: |
| Acceptable Hydrostatic Test? | Yes | <p>The test segment was subjected to a spike pressure test of 695 psig for 30 minutes, without observed leakage or yielding of the pipe segment. The 30 minute spike test and subsequent pressure reduction with volume bleed was included and is part of the 8 hour test duration period.</p> <p>No leaks were observed during the test period. The test section included 21,201 feet of buried and 290 feet of exposed pipe. Pressure lost 52 psi during the test. The buried pipe segment fluid temperature remained steady and the exposed pipe segment lost 4°F.</p> <p>28,880.00 ounces of fluid was intentionally released from the test section. Net corrected volumetric change from beginning of the test to the end of the test is calculated to be 101.77 ounces, gain, which is equivalent to a 0.01 °F change in pipe temperature and within the error attributed to the temperature measurement instrumentation utilized.</p> <p>Test pressure did not remain steady even though no leaks were observed. The volumetric gain is attributed to the error characteristic of the temperature measurement instrumentation utilized.</p> |

Remarks:

Redacted

9-Jul-11



Dead Weight Log Sheet

| | | | |
|------------------|--------------------------------------|-------------|--------------|
| Owner Company | Pacific Gas and Electric Company | Job Number | 4149/362 |
| Construction Co. | ARB | Job Number | 0629-53-3500 |
| Testing Co. | Contra Costa Inspection Co. | Project No. | T# 7/08/2011 |
| Test Section | PG&E T-46 Line 153, MP 13.62 - 17.62 | | |
| File Name | RCP 61362 - T-45, L-153 | | |

| | | |
|------|----------|-----------------|
| Date | 8-Jul-11 | Test Log |
|------|----------|-----------------|

| Log No. | Test Period | | Test Pressure | Temperature °F | | | Remarks | | |
|---------|-------------|----------|---------------|----------------|--------------|------------|-------------|------------|-----------|
| | Date | Time | | Ambient | Pipa | | Comment | Bleed | Inject |
| | | | | | Unrostrained | Rostrained | | | |
| 1 | 7/8/11 | 7:45 PM | 474 psig | 65 °F | 70 °F | 70 °F | Start Spike | | |
| 2 | 7/8/11 | 7:47 PM | 484 psig | 65 °F | 70 °F | 70 °F | Inject | | 6,376 oz. |
| 3 | 7/8/11 | 7:49 PM | 494 psig | 64 °F | 70 °F | 70 °F | Inject | | 5,340 oz. |
| 4 | 7/8/11 | 7:51 PM | 504 psig | 64 °F | 70 °F | 70 °F | Inject | | 6,267 oz. |
| 5 | 7/8/11 | 7:53 PM | 514 psig | 64 °F | 70 °F | 70 °F | Inject | | 5,449 oz. |
| 6 | 7/8/11 | 7:55 PM | 524 psig | 64 °F | 70 °F | 70 °F | Inject | | 5,232 oz. |
| 7 | 7/8/11 | 7:57 PM | 534 psig | 64 °F | 70 °F | 70 °F | Inject | | 5,340 oz. |
| 8 | 7/8/11 | 7:59 PM | 544 psig | 64 °F | 70 °F | 70 °F | Inject | | 5,667 oz. |
| 9 | 7/8/11 | 8:01 PM | 554 psig | 64 °F | 69 °F | 70 °F | Inject | | 5,504 oz. |
| 10 | 7/8/11 | 8:03 PM | 564 psig | 64 °F | 69 °F | 70 °F | Inject | | 5,449 oz. |
| 11 | 7/8/11 | 8:05 PM | 574 psig | 63 °F | 69 °F | 70 °F | Inject | | 5,449 oz. |
| 12 | 7/8/11 | 8:07 PM | 584 psig | 63 °F | 69 °F | 70 °F | Inject | | 5,667 oz. |
| 13 | 7/8/11 | 8:09 PM | 594 psig | 63 °F | 69 °F | 70 °F | Inject | | 5,014 oz. |
| 14 | 7/8/11 | 8:11 PM | 604 psig | 63 °F | 69 °F | 70 °F | Inject | | 5,319 oz. |
| 15 | 7/8/11 | 8:13 PM | 614 psig | 63 °F | 69 °F | 70 °F | Inject | | 4,708 oz. |
| 16 | 7/8/11 | 8:15 PM | 624 psig | 63 °F | 68 °F | 70 °F | Inject | | 5,613 oz. |
| 17 | 7/8/11 | 8:16 PM | 634 psig | 62 °F | 68 °F | 70 °F | Inject | | 5,286 oz. |
| 18 | 7/8/11 | 8:17 PM | 644 psig | 62 °F | 68 °F | 70 °F | Inject | | 5,123 oz. |
| 19 | 7/8/11 | 8:18 PM | 654 psig | 62 °F | 68 °F | 70 °F | Inject | | 5,123 oz. |
| 20 | 7/8/11 | 8:19 PM | 664 psig | 62 °F | 68 °F | 70 °F | Inject | | 5,286 oz. |
| 21 | 7/8/11 | 8:20 PM | 674 psig | 62 °F | 68 °F | 70 °F | Inject | | 4,796 oz. |
| 22 | 7/8/11 | 8:21 PM | 684 psig | 62 °F | 68 °F | 70 °F | Inject | | 4,860 oz. |
| 23 | 7/8/11 | 8:22 PM | 685 psig | 61 °F | 68 °F | 70 °F | Inject | | 4,850 oz. |
| 24 | 7/8/11 | 8:23 PM | 694 psig | 61 °F | 68 °F | 70 °F | Inject | | 1,101 oz. |
| 25 | 7/8/11 | 8:25 PM | 695 psig | 60 °F | 68 °F | 70 °F | On Test | | |
| 26 | 7/8/11 | 8:35 PM | 695 psig | 60 °F | 68 °F | 70 °F | | | |
| 27 | 7/8/11 | 8:45 PM | 695 psig | 60 °F | 68 °F | 70 °F | | | |
| 28 | 7/8/11 | 8:55 PM | 695 psig | 60 °F | 68 °F | 70 °F | End Spike | | |
| 29 | 7/8/11 | 9:00 PM | 685 psig | 60 °F | 67 °F | 70 °F | Bleed | 5,376 oz. | |
| 30 | 7/8/11 | 9:15 PM | 675 psig | 60 °F | 66 °F | 70 °F | | 5,376 oz. | |
| 31 | 7/8/11 | 9:30 PM | 645 psig | 60 °F | 66 °F | 70 °F | | 16,128 oz. | |
| 32 | 7/8/11 | 9:45 PM | 645 psig | 58 °F | 66 °F | 70 °F | | | |
| 33 | 7/8/11 | 10:00 PM | 645 psig | 58 °F | 66 °F | 70 °F | | | |
| 34 | 7/8/11 | 10:15 PM | 645 psig | 58 °F | 66 °F | 70 °F | | | |
| 35 | 7/8/11 | 10:30 PM | 645 psig | 58 °F | 66 °F | 70 °F | | | |
| 36 | 7/8/11 | 10:45 PM | 645 psig | 58 °F | 66 °F | 70 °F | | | |
| 37 | 7/8/11 | 11:00 PM | 644 psig | 58 °F | 65 °F | 69 °F | | | |
| 38 | 7/8/11 | 11:15 PM | 644 psig | 58 °F | 65 °F | 69 °F | | | |
| 39 | 7/8/11 | 11:30 PM | 644 psig | 58 °F | 65 °F | 69 °F | | | |
| 40 | 7/8/11 | 11:45 PM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 41 | 7/9/11 | 12:00 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 42 | 7/9/11 | 12:15 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 43 | 7/9/11 | 12:30 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |



Dead Weight Log Sheet

| | | | |
|------------------|--------------------------------------|-------------|--------------|
| Owner Company | Pacific Gas and Electric Company | Job Number | 41497362 |
| Construction Co. | ARB | Job Number | 0629-53-3500 |
| Testing Co. | Contra Costa Inspection Co. | Project No. | T# 7/08/2011 |
| Test Section | PG&E T-46 Line 153, MP 13.62 - 17.62 | | |
| File Name | RCP 61362 - T-45, L-153 | | |

Date 8-Jul-11

Test Log

| Log No. | Test Period | | Test Pressure | Temperature °F | | | Remarks | | |
|---------|-------------|----------|---------------|----------------|--------------|------------|-------------|-------|--------|
| | Date | Time | | Ambient | Pipe | | Comment | Bleed | Inject |
| | | | | | Unrestrained | Restrained | | | |
| 44 | 7/9/11 | 12:45 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 45 | 7/9/11 | 1:00 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 46 | 7/9/11 | 1:15 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 47 | 7/9/11 | 1:30 AM | 644 psig | 58 °F | 64 °F | 69 °F | | | |
| 48 | 7/9/11 | 1:45 AM | 644 psig | 57 °F | 64 °F | 69 °F | | | |
| 49 | 7/9/11 | 2:00 AM | 644 psig | 57 °F | 64 °F | 69 °F | | | |
| 50 | 7/9/11 | 2:15 AM | 643 psig | 57 °F | 64 °F | 69 °F | | | |
| 51 | 7/9/11 | 2:30 AM | 643 psig | 57 °F | 64 °F | 69 °F | | | |
| 52 | 7/9/11 | 2:45 AM | 643 psig | 58 °F | 64 °F | 69 °F | | | |
| 53 | 7/9/11 | 3:00 AM | 643 psig | 58 °F | 64 °F | 69 °F | | | |
| 54 | 7/9/11 | 3:15 AM | 643 psig | 57 °F | 64 °F | 69 °F | | | |
| 55 | 7/9/11 | 3:30 AM | 643 psig | 57 °F | 64 °F | 69 °F | | | |
| 56 | 7/9/11 | 3:45 AM | 643 psig | 58 °F | 64 °F | 69 °F | | | |
| 57 | 7/9/11 | 4:00 AM | 643 psig | 58 °F | 64 °F | 69 °F | | | |
| 58 | 7/9/11 | 4:15 AM | 643 psig | 58 °F | 64 °F | 69 °F | | | |
| 59 | 7/9/11 | 4:30 AM | 643 psig | 58 °F | 64 °F | 70 °F | | | |
| 60 | 7/9/11 | 4:45 AM | 643 psig | 58 °F | 64 °F | 70 °F | End of Test | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Spike Test 118,809.6 oz.

Hydrostatic Test 26,880.0 oz.

Were leaks observed during the test period?

Exposed and buried pipe,
no leaks observed.

| | |
|---------------------|----------|
| High Test Pressure: | 695 psig |
| Low Test Pressure: | 643 psig |



Pipe Segment Volume Calculations

| | | | |
|-------------------|--------------------------------------|--------------|--------------|
| Company: | Pacific Gas and Electric Company | Job Number: | 41497362 |
| Construction Co.: | ARR | Job Number: | 0629-53-3500 |
| Hydro. Test Co.: | Contra Costa Inspection Co. | Project No.: | T# 7/08/2011 |
| Test Section: | PG&E T-46 Line 153, MP 13.62 - 17.62 | WATER | |
| File Name: | RCP 01362 - T-45, L-153 | | |

General Pipe Data

| Description: | Segment | | | | | | | | | | |
|-----------------------------|--------------|------------|------------|---------------|------------|---------------|---------------|--------------|------------|---------------|---------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Restrained or Unrestrained? | Unrestrained | Restrained | Restrained | Restrained | Restrained | Unrestrained | Unrestrained | Unrestrained | Restrained | Restrained | Restrained |
| Outside Diameter | 30.000 in. | 30.000 in. | 30.000 in. | 30.000 in. | 30.000 in. | 4.500 in. | 2.375 in. | 30.000 in. | 20.000 in. | 4.500 in. | 1.315 in. |
| Wall Thickness | 0.375 in. | 0.375 in. | 0.375 in. | 0.375 in. | 0.375 in. | 0.313 in. | 0.154 in. | 0.500 in. | 0.375 in. | 0.237 in. | 0.113 in. |
| Inside Diameter | 29.250 in. | 29.250 in. | 29.250 in. | 29.250 in. | 29.375 in. | 4.188 in. | 2.067 in. | 29.000 in. | 19.250 in. | 4.028 in. | 1.089 in. |
| Spec/Grade | API5L-X65 | API5L-X60 | API5L-X52 | API5L Grade B | API5L-X52 | API5L Grade B | API5L Grade B | API5L-X60 | API5L-X60 | API5L Grade B | API5L Grade B |
| Length Unrestrained | 207 ft | | | | | | | | | | |
| Length Restrained | | 32 ft | 20,604 ft | 162 ft | 203 ft | | | | | | |
| Temperature - On Test | 66 °F | 70 °F | 70.0 °F | 70.0 °F | 70.0 °F | 66.0 °F | 69.0 °F | 69.0 °F | 68.0 °F | 68.0 °F | 69.0 °F |
| Temperature - End of Test | 64 °F | 70 °F | 70.0 °F | 70.0 °F | 70.0 °F | 64.0 °F | 64.0 °F | 64.0 °F | 64.0 °F | 64.0 °F | 64.0 °F |
| Pressure - On Test | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig | 695 psig |
| Pressure - End of Test | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig | 643 psig |

Unrestrained Pipe

| Sum: | Vo | 8,243.03 gal | | Vp1 | 8,273.13 gal | | Vp2 | 8,273.41 gal | | |
|--------------------------|--------------|---------------|--|-----|---------------|----------|------------|---------------|-----------|----------|
| | | 1,055,108 oz. | | | 1,058,990 oz. | | | 1,058,990 oz. | | |
| Vo Unrestrained | 7,226 gal | | | | 2 gal | 2 gal | 755 gal | 242 gal | 16 gal | 0.2 gal |
| Fwp 1 | 1.002128 | | | | 1.002128 | 1.002128 | 1.002128 | 1.002128 | 1.002128 | 1.002128 |
| Fpp 1 | 1.002259 | | | | 1.000777 | 1.000389 | 1.001680 | 1.001487 | 1.000492 | 1.000279 |
| Fpl 1 | 1.000146 | | | | 1.000146 | 1.000146 | 1.000146 | 1.000146 | 1.000146 | 1.000146 |
| Fwt 1 | 1.000803 | | | | 1.000903 | 1.000803 | 1.000903 | 1.000903 | 1.000903 | 1.000903 |
| Fpwt 1 = Fpl/Fwt | 0.999343 | | | | 0.999343 | 0.999343 | 0.999343 | 0.999343 | 0.999343 | 0.999343 |
| Vp1 = Vo(Fwp)(Fpp)(Fpwt) | 7,252.68 gal | | | | 2.15 gal | 2.27 gal | 757.26 gal | 242.62 gal | 15.90 gal | 0.24 gal |
| Fwp 2 | 1.001968 | | | | 1.001968 | 1.001968 | 1.001968 | 1.001968 | 1.001968 | 1.001968 |
| Fpp 2 | 1.002090 | | | | 1.000719 | 1.000360 | 1.001554 | 1.001375 | 1.000455 | 1.000258 |
| Fpl 2 | 1.000073 | | | | 1.000073 | 1.000073 | 1.000073 | 1.000073 | 1.000073 | 1.000073 |
| Fwt 2 | 1.000375 | | | | 1.000375 | 1.000375 | 1.000375 | 1.000375 | 1.000375 | 1.000375 |
| Fpwt 2 = Fpl/Fwt | 0.999698 | | | | 0.999698 | 0.999698 | 0.999698 | 0.999698 | 0.999698 | 0.999698 |
| Vp2 = Vo(Fwp)(Fpp)(Fpwt) | 7,252.88 gal | | | | 2.15 gal | 2.27 gal | 757.31 gal | 242.64 gal | 15.91 gal | 0.24 gal |

Restrained Pipe

| Sum: | Vo | 740,121.21 gal | | Vp1 | 742,265.34 gal | | Vp2 | 742,055.85 gal | |
|--------------------------|----|----------------|-------------|-----------|----------------|--|-----|----------------|--|
| | | 94,735,515 oz. | | | 95,009,984 oz. | | | 94,903,150 oz. | |
| Vo Restrained | | 1,117 gal | 728,202 gal | 5,655 gal | 7,147 gal | | | | |
| Fwp 1 | | 1.002128 | 1.002128 | 1.002128 | 1.002128 | | | | |
| Fpp 1 | | 1.001660 | 1.001660 | 1.001680 | 1.002018 | | | | |
| Fpl 1 | | 1.000121 | 1.000121 | 1.000121 | 1.000121 | | | | |
| Fwt 1 | | 1.001036 | 1.001036 | 1.001036 | 1.001036 | | | | |
| Fpwt 1 = Fpl/Fwt | | 0.999086 | 0.999086 | 0.999086 | 0.999086 | | | | |
| Vp1 = Vo(Fwp)(Fpp)(Fpwt) | | 1,120 gal | 728,304 gal | 5,671 gal | 7,170 gal | | | | |
| Fwp 2 | | 1.001968 | 1.001968 | 1.001968 | 1.001968 | | | | |
| Fpp 2 | | 1.001557 | 1.001557 | 1.001557 | 1.001809 | | | | |
| Fpl 2 | | 1.000121 | 1.000121 | 1.000121 | 1.000121 | | | | |
| Fwt 2 | | 1.001036 | 1.001036 | 1.001036 | 1.001036 | | | | |
| Fpwt 2 = Fpl/Fwt | | 0.999086 | 0.999086 | 0.999086 | 0.999086 | | | | |
| Vp2 = Vo(Fwp)(Fpp)(Fpwt) | | 1,120 gal | 728,093 gal | 5,670 gal | 7,108 gal | | | | |

Combined Pipe

| Sum: | Vo | 748,364.24 gal | | Vp1 | 750,538.47 gal | | Vp2 | 750,329.27 gal | |
|------|----|----------------|--|-----|----------------|--|-----|----------------|--|
| | | 95,790,623 oz. | | | 96,060,925 oz. | | | 96,042,146 oz. | |



Pipe Segment Volume Allowance Calculations

| | | | |
|------------------|---------------------------------------|-------------|--------------|
| Company | Pacific Gas and Electric Company | Job Number | 41497362 |
| Construction Co. | ARB | Job Number | 0629-53-3500 |
| Hydro. Test Co. | Contra Costa Inspection Co. | Project No. | T# 7/09/2011 |
| Test Section | PG&E T-46 Line 153, MI# 13.62 - 17.62 | WATER | |
| Site Name | RCP 61362 - T-45, L-153 | | |

| Description | General Pipe Data | | | | | | | | | | |
|-------------------------------|-------------------|-------------|-------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Segment | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Restrainted or Unrestrainted? | Unrestrainted | Restrainted | Restrainted | Restrainted | Restrainted | Unrestrainted | Unrestrainted | Unrestrainted | Unrestrainted | Unrestrainted | Unrestrainted |
| Outside Diameter | 30.000 in. | 30.000 in. | 30.000 in. | 30.000 in. | 30.000 in. | 4.500 in. | 2.375 in. | 30.000 in. | 20.000 in. | 4.500 in. | 1.315 in. |
| Wall Thickness | 0.375 in. | 0.375 in. | 0.375 in. | 0.375 in. | 0.375 in. | 0.158 in. | 0.154 in. | 0.500 in. | 0.375 in. | 0.237 in. | 0.113 in. |
| Inside Diameter | 29.250 in. | 29.250 in. | 29.250 in. | 29.250 in. | 29.375 in. | 4.100 in. | 2.007 in. | 29.000 in. | 19.250 in. | 4.026 in. | 1.089 in. |
| Spec./Grade | API5L-X55 | API5L-X60 | API5L-X52 | API5L-Grade B | API5L-X52 | API5L-Grade B | API5L-Grade B | API5L-X60 | API5L-X60 | API5L-Grade B | API5L-Grade B |
| Length Unrestrainted | 207.00 ft | | | | | 3 ft | 13 ft | 22 ft | 16 ft | 24 ft | 5 ft |
| Length Restrainted | | 32 ft | 20,804 ft | 182 ft | 203 ft | | | | | | |
| Temperature - On Test | 65 °F | 69 °F | 69 °F | 69 °F | 69 °F | 65 °F | 65 °F | 65 °F | 65 °F | 65 °F | 65 °F |
| Temperature - End of Test | 65 °F | 70 °F | 70 °F | 70 °F | 70 °F | 68 °F | 68 °F | 68 °F | 68 °F | 68 °F | 68 °F |
| Pressure - On Test | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig |
| Pressure - End of Test | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig | 669 psig |

| Unrestrainted Pipe | | | | | | | | | | | |
|----------------------------|--------------|-------------------------------|--|------|-------------------------------|----------|----------|-------------------------------|----------|----------|----------|
| Sum: | Vo | 8,243.03 gal 1,055,108 oz. | | Vip1 | 8,274.12 gal 1,059,087 oz. | | Vip2 | 8,273.32 gal 1,059,085 oz. | | | |
| Vo Unrestrainted | 7,228 gal | | | | 2 gal | 2 gal | 756 gal | 242 gal | 10 gal | 0 gal | |
| Fwp 1 | 1.002048 | | | | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 |
| Fpp 1 | 1.002174 | | | | 1.000748 | 1.000374 | 1.001817 | 1.001431 | 1.000479 | 1.000269 | |
| Fpt 1 | 1.000091 | | | | 1.000091 | 1.000091 | 1.000091 | 1.000091 | 1.000091 | 1.000091 | 1.000091 |
| Fwt 1 | 1.000467 | | | | 1.000467 | 1.000467 | 1.000467 | 1.000467 | 1.000467 | 1.000467 | 1.000467 |
| Fpwt 1 = Fpt/Fwt | 0.999624 | | | | 0.999624 | 0.999624 | 0.999624 | 0.999624 | 0.999624 | 0.999624 | 0.999624 |
| Vip 1 = Vo(Fwp)(Fpp)(Fpwt) | 7,253.53 gal | | | | 2.15 gal | 2.27 gal | 757 gal | 243 gal | 16 gal | 0 gal | |
| Fwp 2 | 1.002048 | | | | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 | 1.002048 |
| Fpp 2 | 1.002174 | | | | 1.000748 | 1.000374 | 1.001817 | 1.001431 | 1.000479 | 1.000269 | |
| Fpt 2 | 1.000109 | | | | 1.000109 | 1.000109 | 1.000109 | 1.000109 | 1.000109 | 1.000109 | 1.000109 |
| Fwt 2 | 1.000582 | | | | 1.000582 | 1.000582 | 1.000582 | 1.000582 | 1.000582 | 1.000582 | 1.000582 |
| Fpwt 2 = Fpt/Fwt | 0.999527 | | | | 0.999527 | 0.999527 | 0.999527 | 0.999527 | 0.999527 | 0.999527 | 0.999527 |
| Vip 2 = Vo(Fwp)(Fpp)(Fpwt) | 7,252.83 gal | | | | 2.15 gal | 2.27 gal | 757 gal | 243 gal | 16 gal | 0 gal | |

| Restrainted Pipe | | | | | | | | | | | |
|----------------------------|----|----------------------------------|-------------|-----------|----------------------------------|--|------|----------------------------------|--|--|--|
| Sum: | Vo | 740,121.21 gal 94,735,515 oz. | | Vip1 | 742,228.58 gal 95,005,258 oz. | | Vip2 | 742,160.60 gal 94,998,555 oz. | | | |
| Vo Restrainted | | 1,117 gal | 726,202 gal | 5,055 gal | 7,147 gal | | | | | | |
| Fwp 1 | | 1.002048 | 1.002048 | 1.002048 | 1.002048 | | | | | | |
| Fpp 1 | | 1.001815 | 1.001815 | 1.001815 | 1.001840 | | | | | | |
| Fpt 1 | | 1.000109 | 1.000109 | 1.000109 | 1.000109 | | | | | | |
| Fwt 1 | | 1.000929 | 1.000929 | 1.000929 | 1.000929 | | | | | | |
| Fpwt 1 = Fpt/Fwt | | 0.999181 | 0.999181 | 0.999181 | 0.999181 | | | | | | |
| Vip 1 = Vo(Fwp)(Fpp)(Fpwt) | | 1,120 gal | 728,268 gal | 5,671 gal | 7,169 gal | | | | | | |
| Fwp 2 | | 1.002048 | 1.002048 | 1.002048 | 1.002048 | | | | | | |
| Fpp 2 | | 1.001819 | 1.001819 | 1.001819 | 1.001844 | | | | | | |
| Fpt 2 | | 1.000121 | 1.000121 | 1.000121 | 1.000121 | | | | | | |
| Fwt 2 | | 1.001036 | 1.001036 | 1.001036 | 1.001036 | | | | | | |
| Fpwt 2 = Fpt/Fwt | | 0.999086 | 0.999086 | 0.999086 | 0.999086 | | | | | | |
| Vip 2 = Vo(Fwp)(Fpp)(Fpwt) | | 1,120 gal | 728,201 gal | 5,670 gal | 7,168 gal | | | | | | |

| Combined Pipe | | | | | | | | | | | |
|---------------|-----------|----------------------------------|--------------|------|----------------------------------|--|------|----------------------------------|--|--|--|
| Sum: | Vo | 748,364.24 gal 95,790,623 oz. | | Vip1 | 750,502.70 gal 96,054,345 oz. | | Vip2 | 750,433.92 gal 96,055,541 oz. | | | |
| 1 °F Change | 68.79 gal | | 8,804.60 oz. | | | | | | | | |



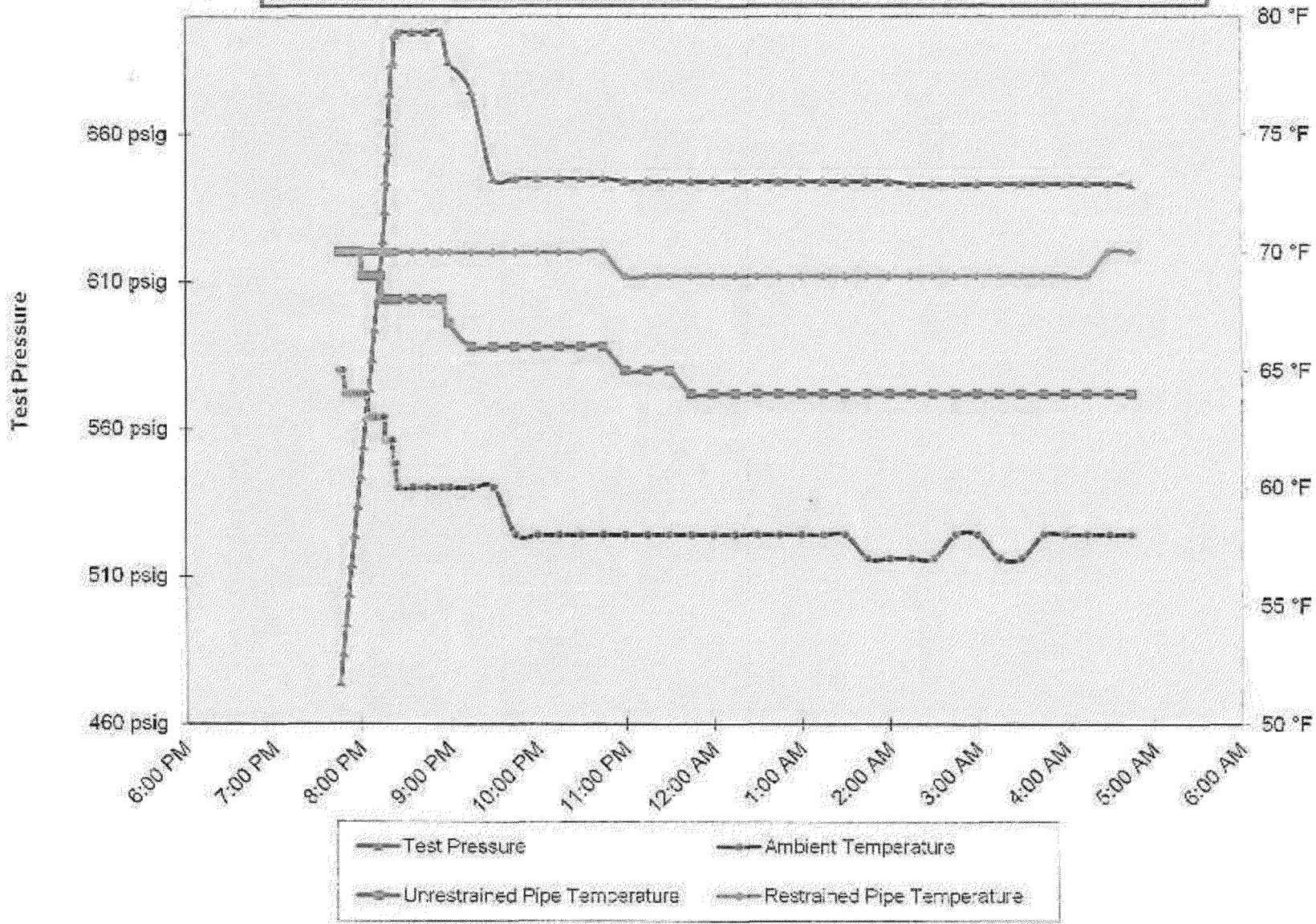
Hydrostatic Test Pipe Data Table

| Pipe Type | Length | Restrained / Unrestrained | Outside Diameter | Wall Thickness | Specification & Grade | Pipe Yield Pressure | Material | Joint Type | Seam Type |
|-----------|-----------|---------------------------|------------------|----------------|-----------------------|---------------------|----------|------------|-----------|
| 1 | 207 ft | Unrestrained | 30.000 in. | 0.3750 in. | API5L-X65 | 1,625 psig | Steel | Arc Weld | DSAW |
| 2 | 32 ft | Restrained | 30.000 in. | 0.3750 in. | API5L-X60 | 1,500 psig | Steel | Arc Weld | DSAW |
| 3 | 20,804 ft | Restrained | 30.000 in. | 0.3750 in. | API5L-X52 | 1,300 psig | Steel | Arc Weld | DSAW |
| 4 | 162 ft | Restrained | 30.000 in. | 0.3750 in. | API5L-Grade B | 875 psig | Steel | Arc Weld | OTH |
| 5 | 203 ft | Restrained | 30.000 in. | 0.3125 in. | API5L-X52 | 1,083 psig | Steel | Arc Weld | DSAW |
| 6 | 3 ft | Unrestrained | 4.500 in. | 0.1560 in. | API5L-Grade B | 2,427 psig | Steel | Arc Weld | SM |
| 7 | 13 ft | Unrestrained | 2.375 in. | 0.1540 in. | API5L-Grade B | 4,539 psig | Steel | Arc Weld | SM |
| 8 | 22 ft | Unrestrained | 30.000 in. | 0.5000 in. | API5L-X60 | 2,000 psig | Steel | Arc Weld | SM |
| 9 | 16 ft | Unrestrained | 20.000 in. | 0.3750 in. | API5L-X60 | 2,250 psig | Steel | Arc Weld | DSAW |
| 10 | 24 ft | Unrestrained | 4.500 in. | 0.2370 in. | API5L-Grade B | 3,887 psig | Steel | Arc Weld | SM |
| 11 | 5 ft | Unrestrained | 1.315 in. | 0.1130 in. | API5L-Grade B | 6,015 psig | Steel | Arc Weld | SM |

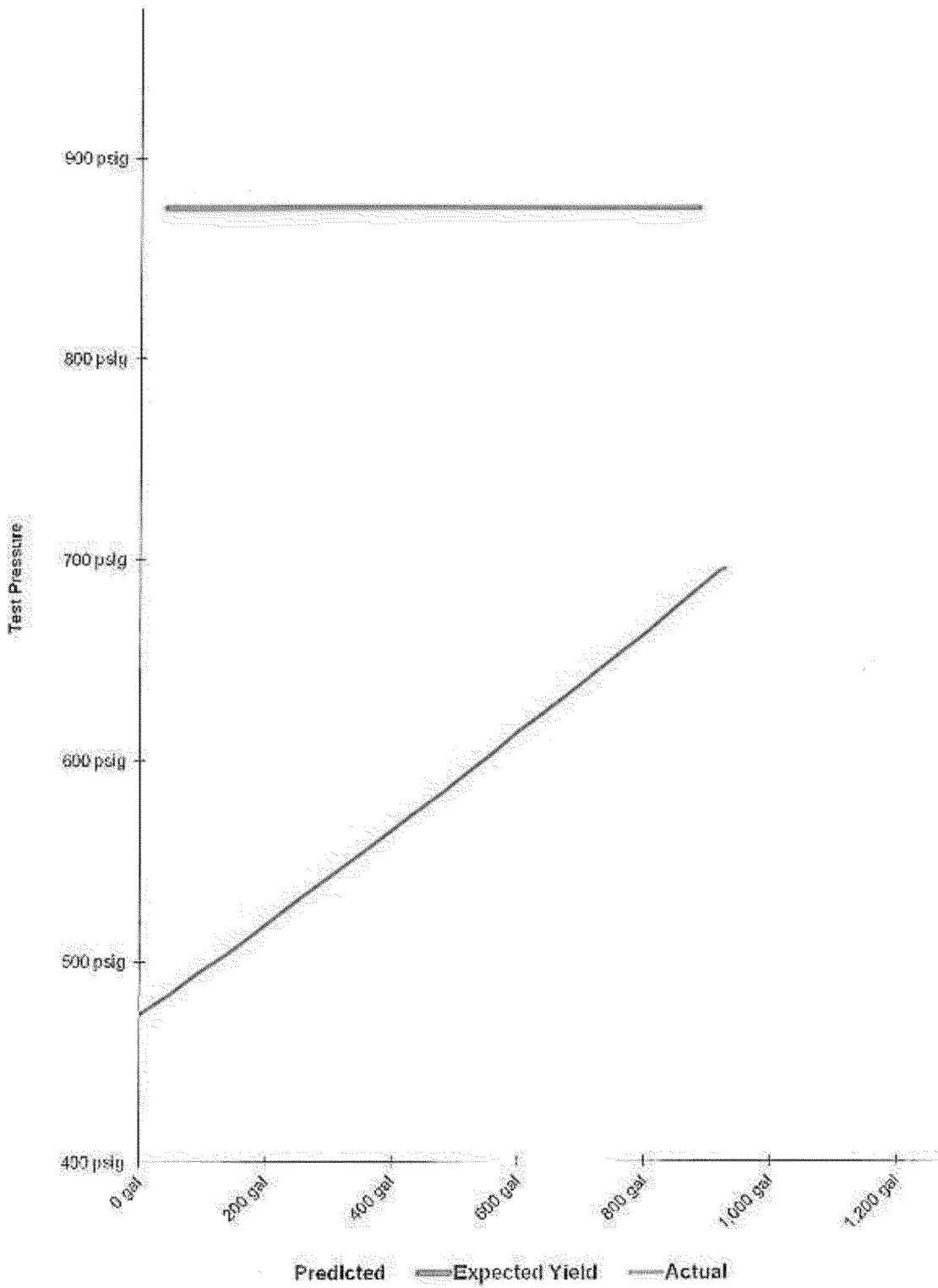
Hydrostatic Test Project Owner & Participants

| | | |
|----------------------|---|--------------|
| Owner Company | Pacific Gas and Electric Company | Job Number |
| Address | 350 N. Wiget Walnut Creek, CA 94598 Attention: Redacted | 41497362 |
| Construction Company | ARB | Job Number |
| Address | 1875 Loveridge Road Pittsburg, CA 94565 Attention: Redacted | 0629-53-3500 |
| Hydrostatic Test Co. | Contra Costa Inspection Co. | Project No. |
| Address | 2820 LaJolla Drive Antioch, Ca. 94531 Attention: Redacted | T# 7/08/2011 |
| Test Section | PG&E T-46 Line 153, MP 13.62 - 17.62 From: 00+00 To: 211+92 | |
| File Name | RCP 61362 - T-45, L-153 | |

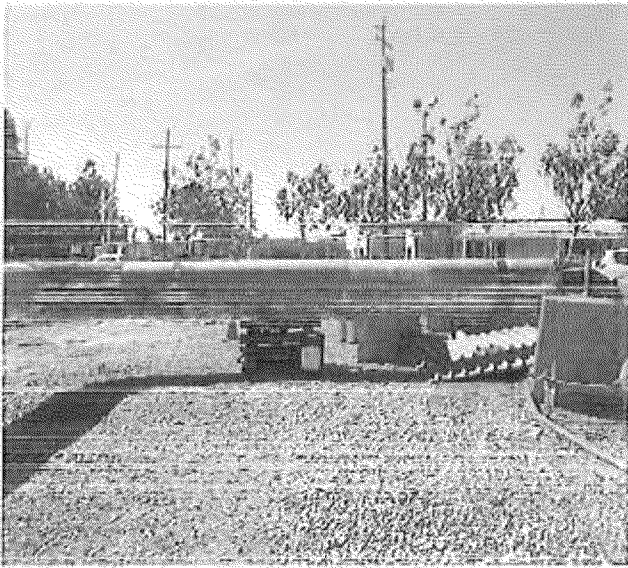
PG&E T-46 Line 153, MP 13.62 - 17.62



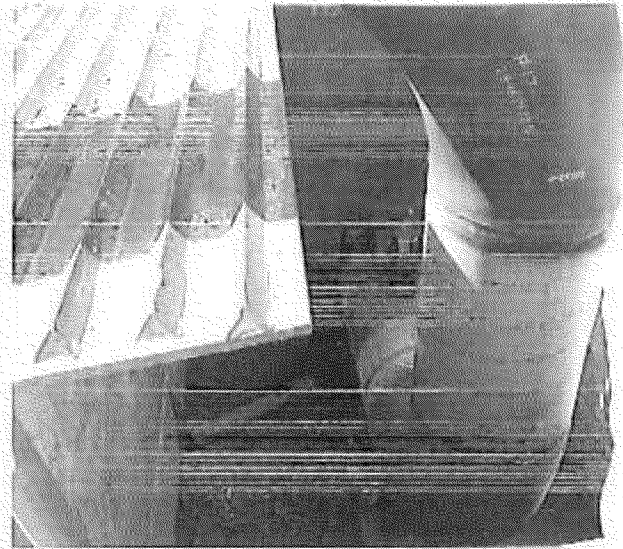
Spike Pressure Test
Stress Strain Curve -- PG&E T-46 Line 153, MP 13.62 - 17.62



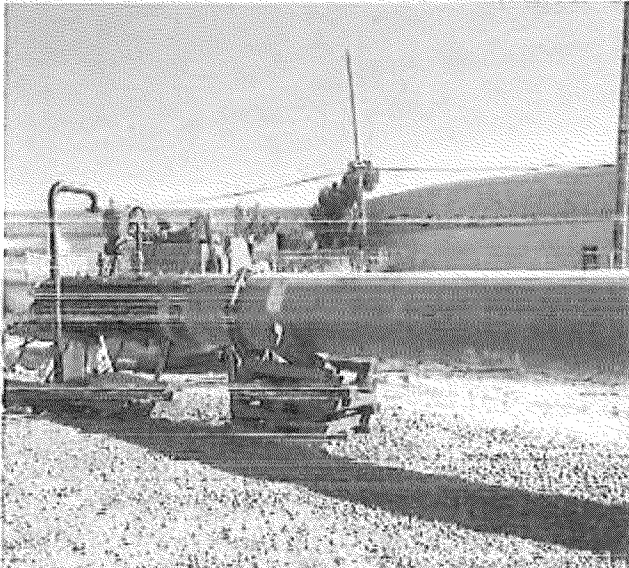
| Actual Pressure Volume Plot Data | | | Predicted Pressure Volume Plot Data | Slope | | Spike Pressure Test Stress Strain Curve -- PG&E T-46 Line 153, MP 13.62 - 17.62 | |
|----------------------------------|---------|------------|-------------------------------------|--------|-----------|---|------------------|
| Pressure | Strokes | Gallons | Gallons | Actual | Predicted | | |
| 474 psig | 0 | 0.00 gal | | 0 | 0.00 gal | Pump gal per stroke | 0.058 gal/stroke |
| 484 psig | 1170 | 49.81 gal | 40.07 gal | 4.981 | 4.007 | Pump Piston Diameter | 1.250 in |
| 494 psig | 2150 | 91.53 gal | 80.14 gal | 4.172 | 4.007 | Pump Piston Stroke | 3.50 in |
| 504 psig | 3300 | 149.49 gal | 120.22 gal | 4.896 | 4.007 | Pump Cylinders | 3 ea |
| 514 psig | 4300 | 183.07 gal | 160.29 gal | 4.257 | 4.008 | Volume check gal per stroke | 0.043 gal/stroke |
| 524 psig | 5200 | 223.84 gal | 200.37 gal | 4.087 | 4.008 | Volume Released (gallons) | 42.00 gal |
| 534 psig | 6240 | 265.68 gal | 240.45 gal | 4.172 | 4.008 | Pressure Reduced (psi) | 10 psi |
| 544 psig | 7280 | 309.94 gal | 280.54 gal | 4.428 | 4.008 | Maximum2 | 980 gal |
| 554 psig | 8280 | 352.91 gal | 320.62 gal | 4.300 | 4.009 | Minimum2 | 0 gal |
| 564 psig | 9280 | 395.51 gal | 360.71 gal | 4.257 | 4.009 | Maximum1 | 975 psig |
| 574 psig | 10290 | 438.09 gal | 400.81 gal | 4.257 | 4.008 | Minimum1 | 400 psig |
| 584 psig | 11330 | 482.30 gal | 440.90 gal | 4.428 | 4.009 | Gallons/Stroke Used | 0.043 gal/stroke |
| 594 psig | 12250 | 521.53 gal | 481.00 gal | 3.917 | 4.010 | Predicted Gallons/Stroke | 0.041 gal/stroke |
| 604 psig | 13226 | 563.08 gal | 521.10 gal | 4.155 | 4.010 | 1180 | 10 psi |
| 614 psig | 14090 | 598.87 gal | 561.20 gal | 3.678 | 4.010 | | |
| 624 psig | 15120 | 643.72 gal | 601.30 gal | 4.385 | 4.010 | Max Pressure | 695 psig |
| 634 psig | 16090 | 685.02 gal | 641.41 gal | 4.130 | 4.011 | Buried Pipe Temperature | 70 °F |
| 644 psig | 17030 | 729.04 gal | 681.52 gal | 4.002 | 4.011 | | |
| 654 psig | 17970 | 765.06 gal | 721.63 gal | 4.002 | 4.011 | Exposed Pipe Temperature | 70 °F |
| 664 psig | 18910 | 808.35 gal | 761.74 gal | 4.130 | 4.011 | | |
| 674 psig | 19820 | 843.82 gal | 801.86 gal | 3.747 | 4.012 | ASME B31.8 Appendix H-5 | |
| 684 psig | 20710 | 881.71 gal | 841.98 gal | 3.789 | 4.012 | | |
| 694 psig | 21600 | 919.60 gal | 882.10 gal | 3.789 | 4.012 | Average Actual Elastic Slope | 4.178 |
| 695 psig | 21802 | 928.20 gal | 886.11 gal | 0.000 | 0.000 | Average Predicted Elastic Slope | 4.010 |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | Code Prescribed Minimum Yield Slope (less 10% B31.8 N-5 (c)(2)) | 7.935 |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | Established Minimum Yield Pressure B31.8 N-5 (c)(2) | 694 psig |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | Maximum Allowed Volume (After Slope Deviation) B31.8 N-5 (c)(2) | 418 gal |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | Volume (After Slope Deviation) B31.8 N-5 (c)(2) | 0 gal |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Redacted </div> | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| 695 psig | | 928.20 gal | 886.11 gal | 0.000 | 0.000 | | |
| | | | | | | 7/9/2011 Date | |



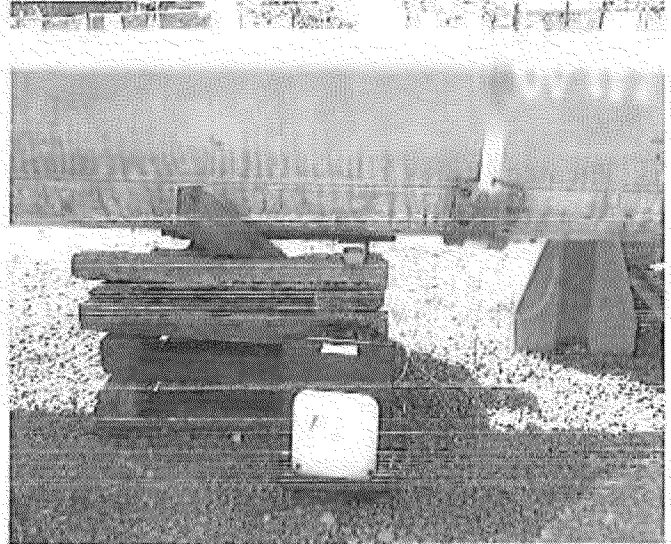
Test Location Test Header



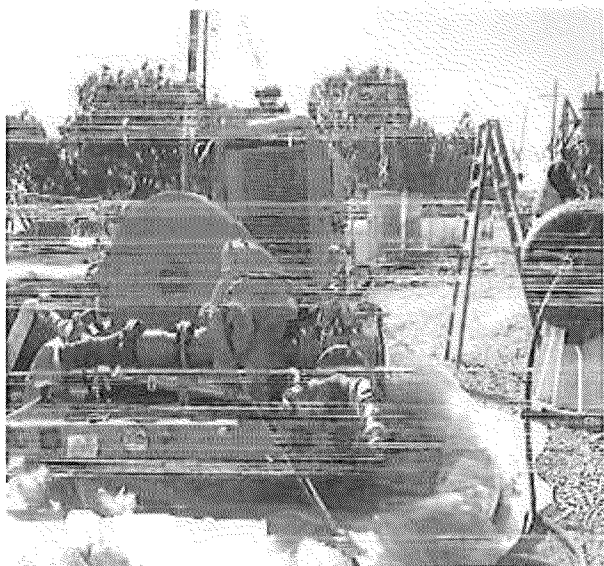
Test Location Test Header to existing pipe



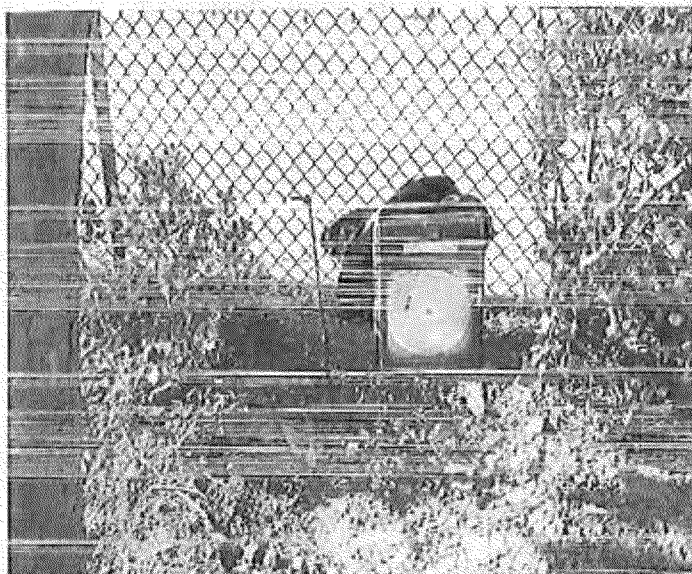
Test location Test Head



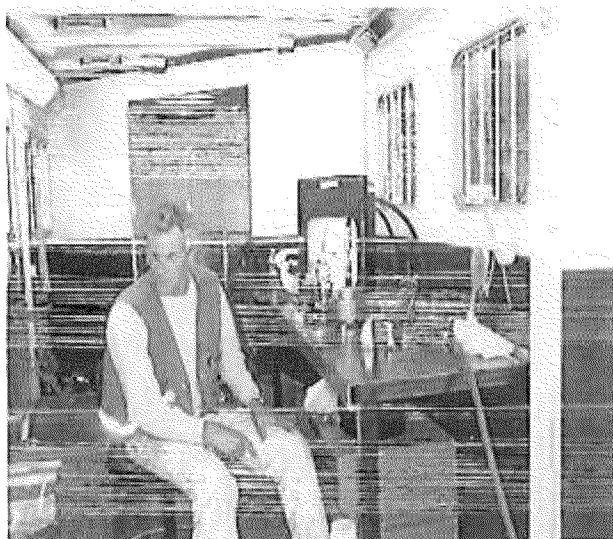
Unrestrained Temp. recorder



Injection pump



Restrained Temp Recorder across Winton Road



Deadweight and Pressure Recorder



End of test segment header



Hydrostatic Test Log Sheet

| | | | |
|------------------|--------------------------------|------------|--------------|
| Owner Company | Pacific Gas & Electric | Job Number | 41497362 |
| Construction Co. | ARB | Job Number | 8629-53-3500 |
| Testing Co. | Control Caster Instrumentation | Job Number | T# 7108/2011 |

| | | | |
|---------------|----------------|--------------------------------|------------------|
| Test Section | Name | T-46, Line 153, MP 13.62-17.62 | |
| | Station (0+00) | | Elevation (Feet) |
| | Test Location | 00+00 | 12 |
| | Begin | 00+00 | 12 |
| | End | 211+92 | 15 |
| | High Elevation | 211+92 | 15 |
| Low Elevation | 163+00 | -15 | |

| Pipe Data | Section | Length (ft.) | O. D. (in.) | W.T. (in.) | Restrained (ft.) | Unrestrained (ft.) | Grade | Seam/Joint Type |
|-----------|--------------------|--------------------|-------------|------------|------------------|--------------------|-----------------------|-------------------|
| | 1 | 173 207 | 30 | .375 | | | 207 173 | X60 |
| 2 | 42 | 32 | 30 | .375 | 49 | 32 | X60 | DSAW, Arc weld |
| 3 | 206 204 | 30 | .375 | | | 206 204 | X52 | DSAW, Arc weld |
| 4 | 162 | 30 | .375 | | 162 | | B | Unknown, Arc weld |
| 5 | 223 203 | 30 | .3125 | | | 223 203 | X52 | DSAW, Arc weld |
| 6 | 3 | 4.5 | .156 | | | 3 | B | SML, Arc weld |
| 7 | 13 | 2.375 | .154 | | | 13 | B | SML, Arc weld |
| 8 | 22 | 30 | .500 | | | 22 | X60 | SML, Arc weld |
| 9 | 16 | 20 | .375 | | | 16 | X60 | DSAW, Arc weld |
| 10 | 24 | 4.5 | .237 | | | 24 | B | SML, Arc weld |
| 11 | 5 | 1.3 | .1830 | | | 5 | B | SML, Arc weld |

| | | | | | | |
|-------------|-------|--------|--------|-------------|----------|-------------------------------------|
| Test Period | Date | | Time | | Water | <input checked="" type="checkbox"/> |
| | Begin | 7-8-11 | 8:25 P | Test Medium | Nitrogen | <input type="checkbox"/> |
| | End | 7-9-11 | 4:45 A | | Other | <input type="checkbox"/> |

| Test Instrumentation | Description | Calibration Checked | Serial Number | Date Calibrated/Certified | Installation Correct |
|----------------------|--|---|---------------|---------------------------|---|
| | | Dead Weight Pressure Tester | | HL-6301 | 6-7-11 |
| | Pressure Recorder | <input checked="" type="checkbox"/> Yes | CLP-1703 | 5-2-11 | <input checked="" type="checkbox"/> Yes |
| | Ambient Temperature Recorder | <input checked="" type="checkbox"/> Yes | FLUKE | DAILY | <input checked="" type="checkbox"/> Yes |
| | Restrained Pipe Temperature Recorder | <input checked="" type="checkbox"/> Yes | 782406 | 3-2-11 | <input checked="" type="checkbox"/> Yes |
| | Unrestrained Pipe Temperature Recorder | <input checked="" type="checkbox"/> Yes | CLP-1701 | 5-2-11 | <input checked="" type="checkbox"/> Yes |

Hydrostatic Test Log

| Log No. | Time | Test Pressure (psig) | Temperature (°F) | | | Volume | | Comments | Model Check: Is test good? | |
|---------|-------|----------------------|------------------|------------|--------------|---|-------|--|----------------------------|--------|
| | | | Ambient | Pipes | | <input type="checkbox"/> Ounces <input checked="" type="checkbox"/> Gallons | Bleed | | | Inject |
| | | | | Restrained | Unrestrained | | | | | |
| 1 | 8:25p | 695 | 60 | 70 | 70 | | | | | |
| 2 | 8:35p | 695 | 60 | 70 | 68 | | | UN-stable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3 | 8:45p | 695 | 60 | 70 | 68 | | | TRAILOR <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4 | 8:55p | 695 | 60 | 70 | 67 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5 | 9:15 | 685 | 60 | 70 | 66 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 6 | 9:30 | 645 | 60 | 70 | 66 | -210 | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 7 | 9:45 | 645 | 58 | 70 | 66 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 8 | 10:00 | 645 | 58 | 70 | 66 | | | OTHERS WALKING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 9 | 10:15 | 645 | 57 | 70 | 66 | | | IN TRAILOR <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 10 | 10:30 | 645 | 58 | 70 | 66 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 11 | 10:45 | 645 | 57 | 70 | 66 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

| Log No. | Time | Test Pressure (psig) | Temperature (°F) | | | Volume | | Comments | Model Check: Is test good? |
|---------|-------|----------------------|------------------|------------|--------------|---------------------------------|----------------------------------|---|-------------------------------|
| | | | Ambient | Pipe | | <input type="checkbox"/> Ounces | <input type="checkbox"/> Gallons | | |
| | | | | Restrained | Unrestrained | Bleed | Inject | | |
| 12 | 1100 | 644 | 57 | 69 | 65 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 13 | 1115 | 644 | 57 | 69 | 65 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14 | 1130 | 644 | 57 | 69 | 65 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 15 | 1145 | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 16 | 1200 | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 17 | 1215 | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 18 | 1230 | 644 | 58 | 69 | 64 | | others Bumped | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 19 | 1245 | 644 | 58 | 69 | 64 | | Table | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 20 | 1:00A | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 21 | 1:15A | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 22 | 1:30 | 644 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 23 | 1:45 | 644 | 57 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 24 | 2:00 | 644 | 57 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 25 | 2:15 | 643 | 57 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 26 | 2:30 | 643 | 57 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 27 | 2:45 | 643 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 28 | 3:00 | 643 | 58 | 69 | 64 | | others Bumped | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 29 | 3:15 | 643 | 57 | 69 | 64 | | Table | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 30 | 3:30 | 643 | 57 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 31 | 3:45 | 643 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 32 | 4:00 | 643 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 33 | 4:15 | 643 | 58 | 69 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 34 | 4:30 | 643 | 58 | 70 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 35 | 4:45 | 643 | 58 | 70 | 64 | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 36 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 37 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 38 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 39 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 40 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 41 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 42 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 43 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 44 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 45 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 46 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 47 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 48 | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |

Was a leak observed during test Period? Yes No

If "Yes", Explain:

High Test Pressure: 695 PSI
Low Test Pressure: 643 PSI

Certification:

Redacted
Signature

Company Representative:

Date: 7/9/2011
Redacted
Signature