



RCP, Inc

801 Louisiana, Ste.200
Houston, Texas 77002

Redacted

October 22, 2011

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

| | |
|--------------------------|---|
| Test Contractor: | Milbar Hydro-Test Inc. -- FY12-112 |
| Asset Owner: | Pacific Gas and Electric Company -- 41497327 |
| Construction Contractor: | Snelson -- 41474005 -T67B |
| Test Section: | PG&E T-67B , L-300A , MP 475.26 - 475.77 |
| Test Date: | October 22, 2011 |
| Certificate Number: | RCP 61362 - T-67B , L-300A , MP 475.26 - 475.77 |

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 Milbar Hydro-Test Inc. 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 1026 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 8.26 hour test duration period.

This hydrostatic test was completed successfully. Pressure was maintained on the test facilities in excess of 8.26 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 967 psig and the MAOP per 49 CFR Part 192, Subpart J can be as high as 644 psig. The MAOP established by this test is sufficient to qualify for Pacific Gas and Electric Company's desired MAOP of 631 psig.

Pressure decreased 56 psi during the test. 6,040.32 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 615.93 ounces, gain, which is equivalent to a 0.36 °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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Hydrostatic Test Certification

| | | | |
|------------------|---|-------------|---------------|
| Company | Pacific Gas and Electric Company | Job Number | 41497327 |
| Construction Co. | Grieson | Job Number | 41474005-7676 |
| Hydro. Test Co. | Miter Hydro-Test Inc. | Project No. | PT-2-112 |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 | | |
| File Name | RCP 81362 - T-67B, L-300A, MP 475.26 - 475.77 | | |

Hydrostatic Test Pressure

APPLICABLE CODE FOR CERTIFICATION:

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

Test Date: 22-Oct-11

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-67B, L-300A, MP 475.26 - 475.77
 From: 26+19

To: 0+00
 Pipe Data

| Segment | Length | Diameter | Wall Thickness | Specification | 100% S.M.A.S. |
|---------|----------|------------|----------------|---------------------------------------|---------------|
| 1 | 37 ft | 34.000 in. | 0.375 in. | API 5L X65 DSAY, Arc Weld, Steel | 1,434 gal |
| 2 | 42 ft | 34.000 in. | 0.505 in. | API 5L X60 DSAY, Arc Weld, Steel | 1,782 gal |
| 3 | 23 ft | 34.000 in. | 0.500 in. | API 5L X60 DSAY, Arc Weld, Steel | 1,769 gal |
| 4 | 6 ft | 34.000 in. | 0.392 in. | API 5L X60 DSAY, Arc Weld, Steel | 1,341 gal |
| 5 | 2,862 ft | 34.000 in. | 0.544 in. | API 5L X52 DSAY, Arc Weld, Steel | 1,052 gal |
| 6 | 33 ft | 12.750 in. | 0.375 in. | API 5L Grade B, S.M., Arc Weld, Steel | 2,039 gal |
| 7 | 70 ft | 2.375 in. | 0.154 in. | API 5L Grade B, S.M., Arc Weld, Steel | 4,538 gal |
| 8 | 5 ft | 1.315 in. | 0.113 in. | API 5L X55 DSAY, Arc Weld, Steel | 4,014 gal |
| 9 | 38 ft | 34.000 in. | 0.500 in. | API 5L X65 DSAY, Arc Weld, Steel | 1,912 gal |
| 10 | 40 ft | 34.000 in. | 0.500 in. | API 5L X65 DSAY, Arc Weld, Steel | 1,912 gal |

Initial Test Conditions

| | | | | | |
|---------------------------------------|------------|-------------------------|-------------------|------------------|---------|
| Pressure at Test Point | 1,026 psig | Date/Time: | 10/22/11 11:00 AM | Pipe Temperature | 70.0 °F |
| Ambient Temperature: | 85.0 °F | | | Unrestrained: | 68.0 °F |
| Pressure @ High Point (Call/Messure): | 1,023 psig | Elevation @ Test Point: | 393.0 ft | Restrained: | 26+19 |
| Pressure @ Low Point (Call/Messure): | 1,028 psig | Elevation @ High Point: | 400.0 ft | Location: | 18+50 |
| | | Elevation @ Low Point: | 389.0 ft | Location: | 0+00 |

Final Test Conditions

| | | | | | |
|---------------------------------------|----------|-------------------------|------------------|------------------|---------|
| Pressure at Test Point: | 970 psig | Date/Time: | 10/22/11 7:15 PM | Pipe Temperature | 70.0 °F |
| Ambient Temperature: | 76.0 °F | | | Unrestrained: | 66.0 °F |
| Pressure @ High Point (Call/Messure): | 967 psig | Elevation @ Test Point: | 393.0 ft | Location: | 26+19 |
| Pressure @ Low Point (Call/Messure): | 972 psig | Elevation @ High Point: | 400.0 ft | Location: | 18+50 |
| | | Elevation @ Low Point: | 389.0 ft | Location: | 0+00 |

Total Fluid Injected:

6040.32 fluid ounces

Volume gain

Net Change in Volume of the Test Section ± 1+ (Gain, - Loss): 615.98 oz gain 0.360 °F equivalent

Test Duration: 8.26 hours

| | | | |
|------------------------|------------|------------|------------|
| Minimum Test Pressure: | 960 psig | 967 psig | 962 psig |
| Maximum Test Pressure: | 1,026 psig | 1,023 psig | 1,028 psig |
| % S.M.A.S.: | 22.6% | 97.2% | 22.6% |

Test Segment Observed % S.M.A.S.:

Minimum

Maximum

17.1%

97.9%

Minimum Test Pressure (Calculated/Messure):

997 psig

644 psig

Maximum Allowable Operating Pressure: DOT Part 192

Test Factor= 1.50

The MAOP established by this test is sufficient to qualify for Pacific Gas and Electric Company's desired MAOP of 631 psig.

Were leaks observed? **No** Explain: The test segment was subjected to a spike pressure test of 1026 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 8.26 hour test duration period.

Acceptable Hydrostatic Test? **Yes** No leaks were observed during the test period. The test section included 2,760 feet of buried and 122 feet of exposed pipe. Pressure lost 56 psi during the test. The buried pipe segment fluid temperature remained steady and the exposed pipe segment fluid temperature remained steady.

0.040-32 ounces of fluid was intentionally released from the test section. Net corrected volumetric change from beginning of the test to 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.

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Remarks: Redacted

22-Oct-11

OCT 22 2011

PG&E



Dead Weight Log Sheet

| | | | |
|------------------|---|-------------|-----------------|
| Owner Company | Pacific Gas and Electric Company | Job Number | 41497327 |
| Construction Co. | Snelson | Job Number | 41474005 - T67B |
| Testing Co. | Milbar Hydro-Test Inc. | Project No. | FY12-112 |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 | | |
| File Name | RCP 61362 - T-67B, L-300A, MP 475.26 - 475.77 | | |

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|------|-----------|----------|-------------|
| Date | 22-Oct-11 | Test Log | OCT 22 2011 |
|------|-----------|----------|-------------|

| Log No. | Test Period | | Test Pressure | Temperature °F | | | Remarks PG & E | | |
|---------|-------------|----------|---------------|----------------|--------------|------------|---------------------------|---------|-----------|
| | Date | Time | | Ambient | Pipe | | Comment | Bleed | Inject |
| | | | | | Unrestrained | Restrained | | | |
| 1 | 10/22/11 | 10:33 AM | 713 psig | 79 °F | 68 °F | 68 °F | Start Spike | | |
| 2 | 10/22/11 | 10:34 AM | 723 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 3 | 10/22/11 | 10:35 AM | 733 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 4 | 10/22/11 | 10:36 AM | 743 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 5 | 10/22/11 | 10:37 AM | 753 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 6 | 10/22/11 | 10:38 AM | 763 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 7 | 10/22/11 | 10:39 AM | 773 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 8 | 10/22/11 | 10:40 AM | 783 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 9 | 10/22/11 | 10:41 AM | 793 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 10 | 10/22/11 | 10:42 AM | 803 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 11 | 10/22/11 | 10:42 AM | 813 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 12 | 10/22/11 | 10:42 AM | 823 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 13 | 10/22/11 | 10:43 AM | 833 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 14 | 10/22/11 | 10:44 AM | 843 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 15 | 10/22/11 | 10:45 AM | 853 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 16 | 10/22/11 | 10:46 AM | 863 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 17 | 10/22/11 | 10:46 AM | 873 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 18 | 10/22/11 | 10:47 AM | 883 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 19 | 10/22/11 | 10:48 AM | 893 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 20 | 10/22/11 | 10:49 AM | 903 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 21 | 10/22/11 | 10:50 AM | 913 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 22 | 10/22/11 | 10:51 AM | 923 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 23 | 10/22/11 | 10:52 AM | 933 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 24 | 10/22/11 | 10:53 AM | 943 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 25 | 10/22/11 | 10:54 AM | 953 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 26 | 10/22/11 | 10:55 AM | 963 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 27 | 10/22/11 | 10:56 AM | 973 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 28 | 10/22/11 | 10:57 AM | 983 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 29 | 10/22/11 | 10:58 AM | 993 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 30 | 10/22/11 | 10:59 AM | 1,003 psig | 79 °F | 68 °F | 68 °F | Inject | | 987 oz. |
| 31 | 10/22/11 | 10:59 AM | 1,013 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 32 | 10/22/11 | 10:59 AM | 1,023 psig | 79 °F | 68 °F | 68 °F | Inject | | 1,058 oz. |
| 33 | 10/22/11 | 11:00 AM | 1,026 psig | 85 °F | 70 °F | 68 °F | Inject | | 282 oz. |
| 34 | 10/22/11 | 11:00 AM | 1,026 psig | 85 °F | 70 °F | 68 °F | On Test | | |
| 35 | 10/22/11 | 11:10 AM | 1,026 psig | 84 °F | 70 °F | 68 °F | | | |
| 36 | 10/22/11 | 11:20 AM | 1,026 psig | 84 °F | 71 °F | 68 °F | | | |
| 37 | 10/22/11 | 11:30 AM | 1,026 psig | 84 °F | 71 °F | 68 °F | End Spike | | |
| 38 | 10/22/11 | 11:30 AM | 1,016 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 39 | 10/22/11 | 11:33 AM | 1,006 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 40 | 10/22/11 | 11:37 AM | 996 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 41 | 10/22/11 | 11:41 AM | 986 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 42 | 10/22/11 | 11:44 AM | 976 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 43 | 10/22/11 | 11:47 AM | 966 psig | 84 °F | 71 °F | 68 °F | Bleed | 915 oz. | |
| 44 | 10/22/11 | 11:49 AM | 960 psig | 84 °F | 71 °F | 68 °F | Bleed | 549 oz. | |
| 45 | 10/22/11 | 11:51 AM | 960 psig | 85 °F | 73 °F | 68 °F | | | |
| 46 | 10/22/11 | 12:00 PM | 960 psig | 85 °F | 73 °F | 68 °F | Sun Shine | | |
| 47 | 10/22/11 | 12:15 PM | 961 psig | 86 °F | 73 °F | 68 °F | | | |
| 48 | 10/22/11 | 12:30 PM | 961 psig | 87 °F | 74 °F | 68 °F | | | |



Dead Weight Log Sheet

| | | | |
|------------------|---|-------------|-----------------|
| Owner Company | Pacific Gas and Electric Company | Job Number | 41497327 |
| Construction Co. | Snelson | Job Number | 41474005 - T67B |
| Testing Co. | Milbar Hydro-Test Inc. | Project No. | FY12-112 |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 | | |
| File Name | RCP 61362 - T-67B, L-300A, MP 475.26 - 475.77 | | |

Test Log

Date 22-Oct-11

| Log No. | Test Period | | Test Pressure | Temperature °F | | | Remarks | | |
|---------|-------------|----------|---------------|----------------|--------------|------------|-----------|-------|--------|
| | Date | Time | | Ambient | Unrestrained | Restrained | Comment | Bleed | Inject |
| 49 | 10/22/11 | 12:45 PM | 962 psig | 88 °F | 74 °F | 68 °F | | | |
| 50 | 10/22/11 | 1:00 PM | 962 psig | 88 °F | 75 °F | 68 °F | | | |
| 51 | 10/22/11 | 1:15 PM | 963 psig | 88 °F | 75 °F | 68 °F | | | |
| 52 | 10/22/11 | 1:30 PM | 963 psig | 89 °F | 75 °F | 68 °F | | | |
| 53 | 10/22/11 | 1:45 PM | 963 psig | 88 °F | 75 °F | 68 °F | | | |
| 54 | 10/22/11 | 2:00 PM | 964 psig | 88 °F | 75 °F | 68 °F | | | |
| 55 | 10/22/11 | 2:15 PM | 964 psig | 89 °F | 75 °F | 68 °F | | | |
| 56 | 10/22/11 | 2:30 PM | 965 psig | 88 °F | 75 °F | 68 °F | | | |
| 57 | 10/22/11 | 2:45 PM | 965 psig | 88 °F | 74 °F | 68 °F | | | |
| 58 | 10/22/11 | 3:00 PM | 966 psig | 89 °F | 74 °F | 68 °F | | | |
| 59 | 10/22/11 | 3:15 PM | 966 psig | 87 °F | 73 °F | 68 °F | | | |
| 60 | 10/22/11 | 3:30 PM | 967 psig | 88 °F | 72 °F | 68 °F | Sun Shina | | |
| 61 | 10/22/11 | 3:45 PM | 967 psig | 87 °F | 72 °F | 68 °F | | | |
| 62 | 10/22/11 | 4:00 PM | 968 psig | 86 °F | 72 °F | 68 °F | | | |
| 63 | 10/22/11 | 4:15 PM | 968 psig | 86 °F | 72 °F | 68 °F | | | |
| 64 | 10/22/11 | 4:30 PM | 969 psig | 85 °F | 72 °F | 68 °F | | | |
| 65 | 10/22/11 | 4:45 PM | 969 psig | 84 °F | 72 °F | 68 °F | | | |
| 66 | 10/22/11 | 5:00 PM | 969 psig | 83 °F | 72 °F | 68 °F | | | |
| 67 | 10/22/11 | 5:15 PM | 969 psig | 83 °F | 71 °F | 68 °F | | | |
| 68 | 10/22/11 | 5:30 PM | 970 psig | 82 °F | 71 °F | 68 °F | | | |
| 69 | 10/22/11 | 5:45 PM | 970 psig | 82 °F | 71 °F | 68 °F | | | |
| 70 | 10/22/11 | 6:00 PM | 970 psig | 80 °F | 71 °F | 68 °F | | | |
| 71 | 10/22/11 | 6:15 PM | 970 psig | 79 °F | 71 °F | 68 °F | | | |
| 72 | 10/22/11 | 6:30 PM | 970 psig | 77 °F | 70 °F | 68 °F | | | |
| 73 | 10/22/11 | 6:45 PM | 970 psig | 77 °F | 70 °F | 68 °F | | | |
| 74 | 10/22/11 | 7:00 PM | 970 psig | 76 °F | 70 °F | 68 °F | | | |
| 75 | 10/22/11 | 7:15 PM | 970 psig | 76 °F | 70 °F | 68 °F | | | |

| | |
|------------------|--------------|
| End of Test | 31,867.0 oz. |
| Spike Test | 5,040.3 oz. |
| Hydrostatic Test | |

| | |
|---|---|
| Were leaks observed during the test period? | Exposed and buried pipe, no leaks observed. |
| High Test Pressure: | 1,026 psig |
| Low Test Pressure: | 960 psig |

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Pipe Segment Volume Calculations

| | | | |
|------------------|--|-------------|----------------|
| Company | Pacific Gas and Electric Company | Job Number | 41497327 |
| Construction Co. | Snelson | Job Number | 41474005 -T87B |
| Hydro. Test Co. | Milbar Hydro-Test Inc. | Project No. | FY12-112 |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 | WATER | |
| File Name | RCP 61362 -T-67B, L-300A, MP 475.26 - 475.77 | | |

General Pipe Data

| Description | Segment | | | | | | | |
|-----------------------------|--------------|------------|------------|------------|------------|---------------|---------------|---------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Restrained or Unrestrained? | Unrestrained | Restrained | Restrained | Restrained | Restrained | Restrained | Restrained | Restrained |
| Outside Diameter | 34.000 in. | 34.000 in. | 34.000 in. | 34.000 in. | 34.000 in. | 12.750 in. | 2.375 in. | 1.315 in. |
| Wall Thickness | 0.375 in. | 0.505 in. | 0.500 in. | 0.380 in. | 0.344 in. | 0.375 in. | 0.154 in. | 0.113 in. |
| Inside Diameter | 33.250 in. | 32.990 in. | 33.000 in. | 33.240 in. | 33.312 in. | 12.000 in. | 2.067 in. | 1.089 in. |
| Spec./Grade | API5L-X65 | API5L-X60 | API5L-X60 | API5L-X60 | API5L-X52 | API5L-Grade B | API5L-Grade B | API5L-Grade B |
| Length Unrestrained | 37 ft | | | | | | | |
| Length Restrained | | 42 ft | 20 ft | 6 ft | 2,592 ft | 33 ft | 70 ft | 5 ft |
| Temperature - On Test | 70 °F | 68 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F |
| Temperature - End of Test | 70 °F | 68 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F | 68.0 °F |
| Pressure - On Test | 1,026 psia | 1,026 psia | 1,026 psia | 1,026 psia | 1,026 psia | 1,026 psia | 1,026 psia | 1,026 psia |
| Pressure - End of Test | 970 psia | 970 psia | 970 psia | 970 psia | 970 psia | 970 psia | 970 psia | 970 psia |

Unrestrained Pipe

| | | | | | |
|----------------------------|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|
| Vo | 5,445.60 gal 697,038 oz. | Vtp1 | 5,475.08 gal 700,810 oz. | Vtp2 | 5,473.21 gal 700,571 oz. |
| Vo Unrestrained | 1.669 gal | | | | |
| Fwp 1 | 1.003144 | | | | |
| Fpp 1 | 1.003791 | | | | |
| Fpt 1 | 1.000182 | | | | |
| Fwt 1 | 1.001036 | | | | |
| Fpwt 1 = Fpt/Fwt | 0.999146 | | | | |
| Vtp 1 = Vo(Fwp)(Fpp)(Fpwt) | 1,679.11 gal | | | | |
| Fwp 2 | 1.002972 | | | | |
| Fpp 2 | 1.003584 | | | | |
| Fpt 2 | 1.000182 | | | | |
| Fwt 2 | 1.001036 | | | | |
| Fpwt = Fpt/Fwt | 0.999146 | | | | |
| Vtp = Vo(Fwp)(Fpp)(Fpwt) | 1,678.48 gal | | | | |

Restrained Pipe

| | | | | | |
|----------------------------|----------------------------------|-------------|----------------------------------|-------------|----------------------------------|
| Vo | 120,583.77 gal 15,434,722 oz. | Vtp1 | 121,242.14 gal 15,518,993 oz. | Vtp2 | 121,201.63 gal 15,513,808 oz. |
| Vo Unrestrained | 1.856 gal | 889 gal | 270 gal | 117,353 gal | 194 gal |
| Fwp 1 | 1.003144 | 1.003144 | 1.003144 | 1.003144 | 1.003144 |
| Fpp 1 | 1.002062 | 1.002083 | 1.002751 | 1.003043 | 1.001025 |
| Fpt 1 | 1.000097 | 1.000097 | 1.000097 | 1.000097 | 1.000097 |
| Fwt 1 | 1.000803 | 1.000803 | 1.000803 | 1.000803 | 1.000803 |
| Fpwt 1 = Fpt/Fwt | 0.999294 | 0.999294 | 0.999294 | 0.999294 | 0.999294 |
| Vtp 1 = Vo(Fwp)(Fpp)(Fpwt) | 1,873 gal | 893 gal | 272 gal | 117,997 gal | 195 gal |
| Fwp 2 | 1.002972 | 1.002972 | 1.002972 | 1.002972 | 1.002972 |
| Fpp 2 | 1.001951 | 1.001971 | 1.002503 | 1.002878 | 1.000970 |
| Fpt 2 | 1.000097 | 1.000097 | 1.000097 | 1.000097 | 1.000097 |
| Fwt 2 | 1.000803 | 1.000803 | 1.000803 | 1.000803 | 1.000803 |
| Fpwt = Fpt/Fwt | 0.999294 | 0.999294 | 0.999294 | 0.999294 | 0.999294 |
| Vtp = Vo(Fwp)(Fpp)(Fpwt) | 1,873 gal | 892 gal | 272 gal | 117,958 gal | 195 gal |

Combined Pipe

| | | | | | |
|-----------|----------------------------------|-------------|----------------------------------|-------------|----------------------------------|
| Vo | 126,029.97 gal 16,131,739 oz. | Vtp1 | 126,717.21 gal 16,219,803 oz. | Vtp2 | 126,674.84 gal 16,214,379 oz. |
|-----------|----------------------------------|-------------|----------------------------------|-------------|----------------------------------|

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Pipe Segment Volume Calculations

| | |
|------------------|---|
| Company | Pacific Gas and Electric Company |
| Construction Co. | Snelson |
| Hydro. Test Co. | Milbar Hydro-Test Inc. |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 |
| File Name | RCP 61362 - T-67B, L-300A, MP 475.26 - 475.77 |

General Pipe Data

| Description | 9 | | 10 | |
|-----------------------------|--------------|--------------|--------------|--------------|
| | Unrestrained | Unrestrained | Unrestrained | Unrestrained |
| Restrained or Unrestrained? | Unrestrained | Unrestrained | Unrestrained | Unrestrained |
| Outside Diameter | 34.000 in. | 34.000 in. | 34.000 in. | 34.000 in. |
| Wall Thickness | 0.500 in. | 0.500 in. | 0.500 in. | 0.500 in. |
| Inside Diameter | 33.000 in. | 33.000 in. | 33.000 in. | 33.000 in. |
| Spec. / Grade | API5L-X65 | API5L-X65 | API5L-X65 | API5L-X65 |
| Length Unrestrained | 39 ft | 46 ft | | |
| Length Restrained | | | | |
| Temperature -- On Test | 70.0 °F | 70.0 °F | 70.0 °F | 70.0 °F |
| Temperature -- End of Test | 70.0 °F | 70.0 °F | 70.0 °F | 70.0 °F |
| Pressure -- On Test | 1,026 psig | 1,026 psig | 1,026 psig | 1,026 psig |
| Pressure -- End of Test | 970 psig | 970 psig | 970 psig | 970 psig |

Unrestrained Pipe

| Vo | | | | |
|-----------------------------|--------------|--------------|--|--|
| Vo Unrestrained | 1,733 gal | 2,044 gal | | |
| Fwp 1 | 1,003,144 | 1,003,144 | | |
| Fpp 1 | 1,002,822 | 1,002,822 | | |
| Fpt 1 | 1,000,182 | 1,000,182 | | |
| Fwt 1 | 1,001,036 | 1,001,036 | | |
| Fpwt = Fpt/Fwt | 0.999146 | 0.999146 | | |
| Vip 1 = Vo(Fwp)/(Fpp)(Fpwt) | 1,741.68 gal | 2,054.29 gal | | |
| Fwp 2 | 1,002,972 | 1,002,972 | | |
| Fpp 2 | 1,002,668 | 1,002,668 | | |
| Fpt 2 | 1,000,182 | 1,000,182 | | |
| Fwt 2 | 1,001,036 | 1,001,036 | | |
| Fpwt = Fpt/Fwt | 0.999146 | 0.999146 | | |
| Vip = Vo(Fwp)/(Fpp)(Fpwt) | 1,741.11 gal | 2,053.62 gal | | |

Restrained Pipe

| Vo | | | | |
|-----------------------------|--|--|--|--|
| Vo Unrestrained | | | | |
| Fwp 1 | | | | |
| Fpp 1 | | | | |
| Fpt 1 | | | | |
| Fwt 1 | | | | |
| Fpwt 1 = Fpt/Fwt | | | | |
| Vip 1 = Vo(Fwp)/(Fpp)(Fpwt) | | | | |
| Fwp 2 | | | | |
| Fpp 2 | | | | |
| Fpt 2 | | | | |
| Fwt 2 | | | | |
| Fpwt = Fpt/Fwt | | | | |
| Vip = Vo(Fwp)/(Fpp)(Fpwt) | | | | |

Combined Pipe

| Vo | | | | |
|----|--|--|--|--|
| | | | | |

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Pipe Segment Volume Allowance Calculations

| | | | |
|------------------|---|-------------|---------------|
| Company | Pacific Gas and Electric Company | Job Number | 41497327 |
| Construction Co. | Snelson | Job Number | 41474005-T67B |
| Hydro. Test Co. | Milbar Hydro-Test Inc. | Project No. | FY12-112 |
| Test Section | PG&E T-67B, L-300A, MP 475.26 - 475.77 | WATER | |
| File Name | RCP 01362 - T-67B, L-300A, MP 475.26 - 475.77 | | |

| General Pipe Data | | | | | | | | |
|-----------------------------|----------------|------------|--------------|----------------|-------------|---------------|----------------|---------------|
| Description | Segment | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Restrained or Unrestrained? | Unrestrained | Restrained | Restrained | Restrained | Restrained | Restrained | Restrained | Restrained |
| Outside Diameter | 34.000 in. | 34.000 in. | 34.000 in. | 34.000 in. | 34.000 in. | 12.750 in. | 2.375 in. | 1.315 in. |
| Wall Thickness | 0.375 in. | 0.505 in. | 0.500 in. | 0.380 in. | 0.344 in. | 0.375 in. | 0.154 in. | 0.113 in. |
| Inside Diameter | 33.250 in. | 32.990 in. | 33.000 in. | 33.240 in. | 33.312 in. | 12.000 in. | 2.067 in. | 1.089 in. |
| Spec./Grade | API5L-X65 | API5L-X60 | API5L-X60 | API5L-X60 | API5L-X52 | API5L-Grade B | API5L-Grade B | API5L-Grade B |
| Length Unrestrained | 37 ft | | | | | | | |
| Length Restrained | | 42 ft | 20 ft | 8 ft | 2,592 ft | 33 ft | 70 ft | 5 ft |
| Temperature -- On Test | 69 °F | 67 °F | 67 °F | 67 °F | 67 °F | 67 °F | 67 °F | 67 °F |
| Temperature -- End of Test | 70 °F | 68 °F | 68 °F | 68 °F | 68 °F | 68 °F | 68 °F | 68 °F |
| Pressure -- On Test | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig |
| Pressure -- End of Test | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig | 998 psig |
| Unrestrained Pipe | | | | | | | | |
| Vo | 5,445.60 gal | | Vtp1 | 5,474.83 gal | | Vtp2 | 5,474.14 gal | |
| | 697,038 oz. | | | 700,753 oz. | | | 700,690 oz. | |
| Vo Unrestrained | 1,869 gal | | | | | | | |
| Fwp 1 | 1.003058 | | | | | | | |
| Fpp 1 | 1.003687 | | | | | | | |
| Fpt 1 | 1.000184 | | | | | | | |
| Fwt 1 | 1.000929 | | | | | | | |
| Fpwt 1 = Fpt/Fwt | 0.999236 | | | | | | | |
| Vto 1 = Vo(Fwp)/(Fpp)(Fpwt) | 1,679.95 gal | | | | | | | |
| Fwp 2 | 1.003058 | | | | | | | |
| Fpp 2 | 1.003687 | | | | | | | |
| Fpt 2 | 1.000182 | | | | | | | |
| Fwt 2 | 1.001038 | | | | | | | |
| Fpwt = Fpt/Fwt | 0.999146 | | | | | | | |
| Vto = Vo(Fwp)/(Fpp)(Fpwt) | 1,678.80 gal | | | | | | | |
| Restrained Pipe | | | | | | | | |
| Vo | 120,563.77 gal | | Vtp1 | 121,234.75 gal | | Vtp2 | 121,221.88 gal | |
| | 15,434,722 oz. | | | 15,518,049 oz. | | | 15,516,401 oz. | |
| Vo Restrained | | 1,865 gal | 889 gal | 270 gal | 117,353 gal | 194 gal | 12 gal | 0 gal |
| Fwp 1 | | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 |
| Fpp 1 | | 1.002003 | 1.002023 | 1.002673 | 1.002957 | 1.000894 | 1.000432 | 1.000317 |
| Fpt 1 | | 1.000085 | 1.000085 | 1.000085 | 1.000085 | 1.000085 | 1.000085 | 1.000085 |
| Fwt 1 | | 1.000681 | 1.000681 | 1.000681 | 1.000681 | 1.000681 | 1.000681 | 1.000681 |
| Fpwt 1 = Fpt/Fwt | | 0.999404 | 0.999404 | 0.999404 | 0.999404 | 0.999404 | 0.999404 | 0.999404 |
| Vto 1 = Vo(Fwp)/(Fpp)(Fpwt) | | 1,873 gal | 893 gal | 272 gal | 117,990 gal | 195 gal | 12 gal | 0 gal |
| Fwp 2 | | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 | 1.003058 |
| Fpp 2 | | 1.002006 | 1.002027 | 1.002677 | 1.002960 | 1.000998 | 1.000435 | 1.000321 |
| Fpt 2 | | 1.000097 | 1.000097 | 1.000097 | 1.000097 | 1.000097 | 1.000097 | 1.000097 |
| Fwt 2 | | 1.000803 | 1.000803 | 1.000803 | 1.000803 | 1.000803 | 1.000803 | 1.000803 |
| Fpwt = Fpt/Fwt | | 0.999294 | 0.999294 | 0.999294 | 0.999294 | 0.999294 | 0.999294 | 0.999294 |
| Vto = Vo(Fwp)/(Fpp)(Fpwt) | | 1,873 gal | 893 gal | 272 gal | 117,977 gal | 195 gal | 12 gal | 0 gal |
| Combined Pipe | | | | | | | | |
| Vo | 126,029.37 gal | | Vtp1 | 126,709.39 gal | | Vtp2 | 126,696.02 gal | |
| | 16,131,759 oz. | | | 16,218,802 oz. | | | 16,217,091 oz. | |
| 1 °F Change | 13.36 gal | | 1,710.69 oz. | | | | | |

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Pipe Segment Volume Allowance Calculations

| | | | | |
|-----------------------------|---|--------------|--|--|
| Company | Pacific Gas and Electric Company | | | |
| Construction Co. | Shelson | | | |
| Hydro. Test Co. | Milbar Hydro-Test Inc. | | | |
| Test Section | PG&E T-67B, L-300A, MP 475.28 - 475.77 | | | |
| File Name | RCP 61362 - T-67B, L-300A, MP 475.26 - 475.77 | | | |
| General Pipe Data | | | | |
| Description | 9 | 10 | | |
| Restrained or Unrestrained? | Unrestrained | Unrestrained | | |
| Outside Diameter | 34.000 in. | 34.000 in. | | |
| Wall Thickness | 0.500 in. | 0.500 in. | | |
| Inside Diameter | 33.000 in. | 33.000 in. | | |
| Spec./Grade | API5L-X65 | API5L-X65 | | |
| Length Unrestrained | 39 ft | 46 ft | | |
| Length Restrained | | | | |
| Temperature -- On Test | 69 °F | 69 °F | | |
| Temperature -- End of Test | 70 °F | 70 °F | | |
| Pressure -- On Test | 998 psig | 998 psig | | |
| Pressure -- End of Test | 998 psig | 998 psig | | |
| Unrestrained Pipe | | | | |
| Vo | | | | |
| Vo Unrestrained | 1,733 gal | 2,044 gal | | |
| Fwp 1 | 1.003058 | 1.003058 | | |
| Fpp 1 | 1.002745 | 1.002745 | | |
| Fpt 1 | 1.000164 | 1.000164 | | |
| Fwt 1 | 1.000929 | 1.000929 | | |
| Fpwt 1 = Fpt/Fwt | 0.999236 | 0.999236 | | |
| Vip 1 = Vo(Fwp)(Fpp)(Fpwt) | 1,741.55 gal | 2,054.14 gal | | |
| Fwp 2 | 1.003058 | 1.003058 | | |
| Fpp 2 | 1.002745 | 1.002745 | | |
| Fpt 2 | 1.000182 | 1.000182 | | |
| Fwt 2 | 1.001036 | 1.001036 | | |
| Fpwt 2 = Fpt/Fwt | 0.999146 | 0.999146 | | |
| Vip 2 = Vo(Fwp)(Fpp)(Fpwt) | 1,741.39 gal | 2,053.95 gal | | |
| Restrained Pipe | | | | |
| Vo | | | | |
| Vo Restrained | | | | |
| Fwp 1 | | | | |
| Fpp 1 | | | | |
| Fpt 1 | | | | |
| Fwt 1 | | | | |
| Fpwt 1 = Fpt/Fwt | | | | |
| Vip 1 = Vo(Fwp)(Fpp)(Fpwt) | | | | |
| Fwp 2 | | | | |
| Fpp 2 | | | | |
| Fpt 2 | | | | |
| Fwt 2 | | | | |
| Fpwt 2 = Fpt/Fwt | | | | |
| Vip 2 = Vo(Fwp)(Fpp)(Fpwt) | | | | |
| Combined Pipe | | | | |
| Vo | | | | |
| 1 °F Change | | | | |

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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 | 37 ft | Unrestrained | 34.000 in. | 0.3750 in. | API5L-X65 | 1,434 psig | Steel | Arc Weld | DSAW |
| 2 | 42 ft | Restrained | 34.000 in. | 0.5050 in. | API5L-X60 | 1,782 psig | Steel | Arc Weld | DSAW |
| 3 | 20 ft | Restrained | 34.000 in. | 0.5000 in. | API5L-X60 | 1,765 psig | Steel | Arc Weld | DSAW |
| 4 | 6 ft | Restrained | 34.000 in. | 0.3800 in. | API5L-X60 | 1,341 psig | Steel | Arc Weld | DSAW |
| 5 | 2,592 ft | Restrained | 34.000 in. | 0.3440 in. | API5L-X52 | 1,052 psig | Steel | Arc Weld | DSAW |
| 6 | 33 ft | Restrained | 12.750 in. | 0.3750 in. | API5L-Grade B | 2,059 psig | Steel | Arc Weld | SM |
| 7 | 70 ft | Restrained | 2.375 in. | 0.1540 in. | API5L-Grade B | 4,539 psig | Steel | Arc Weld | SM |
| 8 | 5 ft | Restrained | 1.315 in. | 0.1130 in. | API5L-Grade B | 6,015 psig | Steel | Arc Weld | SM |
| 9 | 39 ft | Unrestrained | 34.000 in. | 0.5000 in. | API5L-X65 | 1,912 psig | Steel | Arc Weld | DSAW |
| 10 | 46 ft | Unrestrained | 34.000 in. | 0.5000 in. | API5L-X65 | 1,912 psig | Steel | Arc Weld | DSAW |

Hydrostatic Test Project Owner & Participants

| | | |
|----------------------|--|----------------|
| Owner Company | Pacific Gas and Electric Company | Job Number |
| Address | 350 N. Wiget Walnut Creek, CA 94598 Attention: Redacted | 41497327 |
| Construction Company | Snelson | Job Number |
| Address | 601 West State Street Sedro-Wooley, WA 98284 Attention: Redacted | 41474005 -T67B |
| Hydrostatic Test Co. | Milbar Hydro-Test Inc. | Project No. |
| Address | P O Box 7701 Shreveport, La. 71137-7701 | FY12-112 |
| Test Section | PG&E T-67B , L-300A , MP 475.26 - 475.77 From: 26+19 To: 0+00 | |
| File Name | RCP 61362 - T-67B , L-300A , MP 475.26 - 475.77 | |

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 | 10/22/11 11:00 AM | Elevation at Test Point | 393 ft | Min. Required Test Press At Test Point (1) | 950.03 psig | Max. Allowable Test Press at Test Point (4) | 1,033.27 psig |
| Time and Date Test Ended | 10/22/11 7:15 PM | Max. Elevation in Test Section | 400 ft | Min. Indicated Test Pressure (2) | 950.00 psig | Max. Indicated Test Pressure (5) | 1,028.00 psig |
| Actual Duration of Test | 8 hours 15 minutes | Min. Elevation in Test Section | 389 ft | Min. Test Pressure at Max. Elevation (3) | 856.97 psig | Max. Test Pressure at Min. Elevation (6) | 1,027.73 psig |

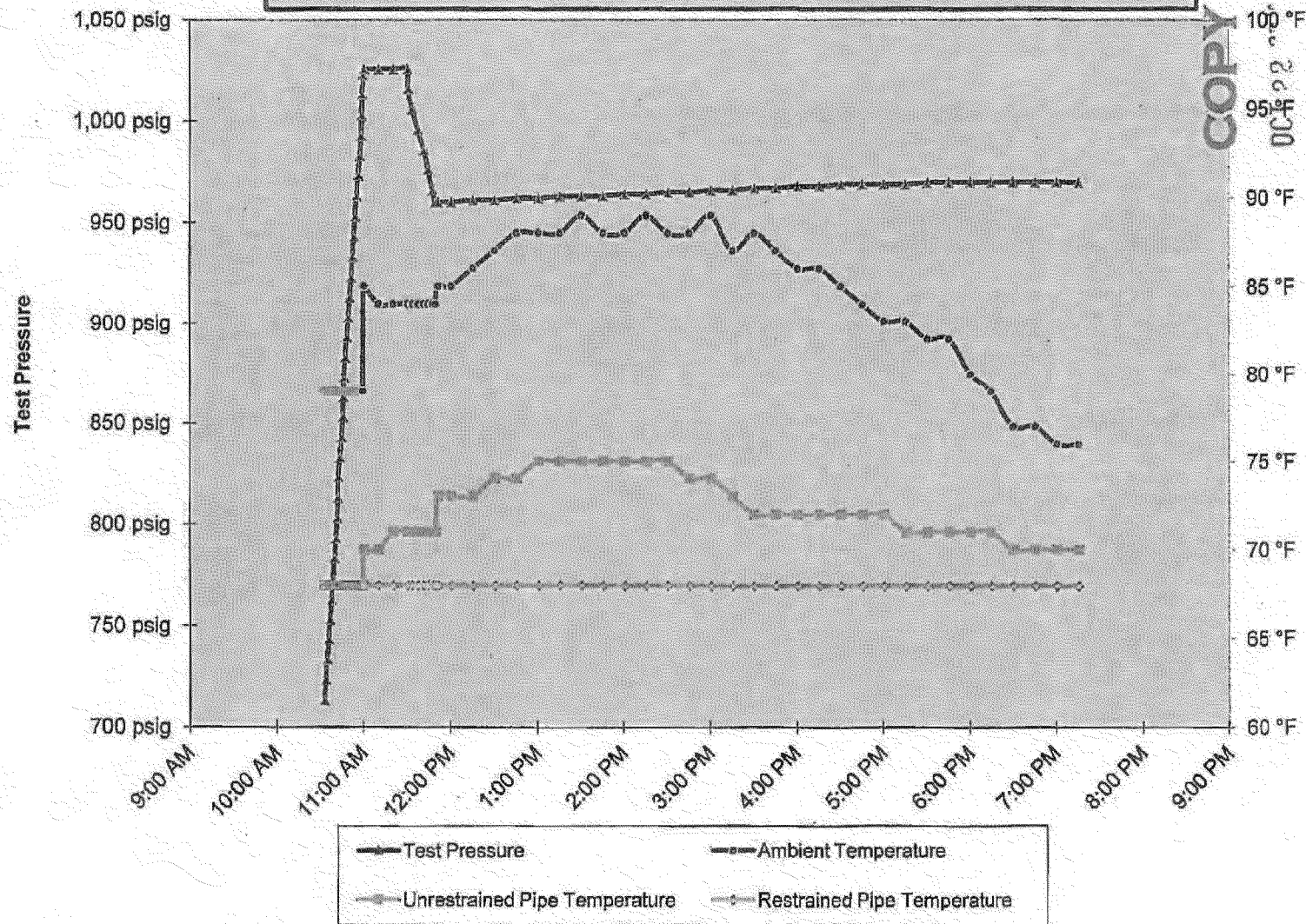
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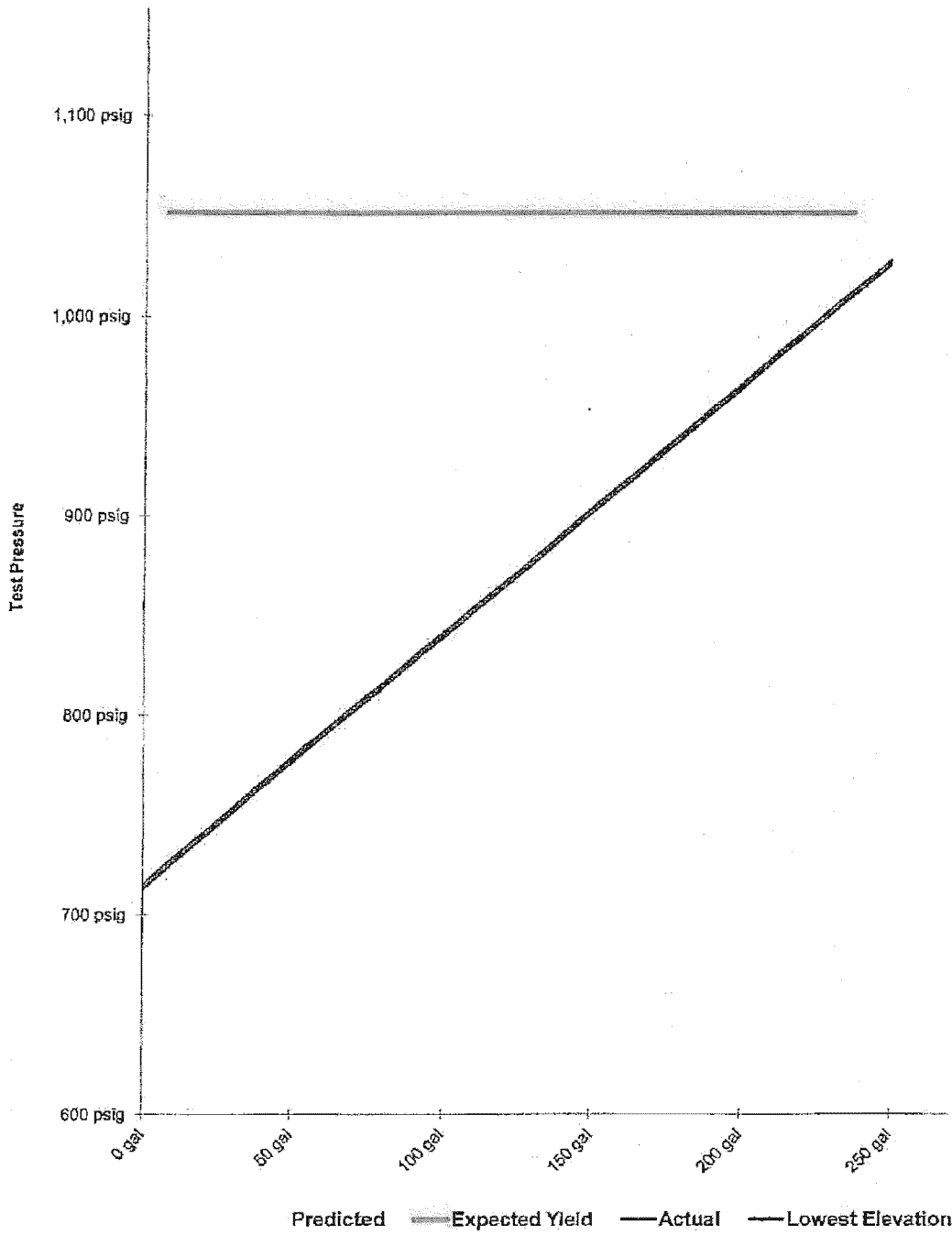
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PG&E T-67B , L-300A , MP 475.26 - 475.77



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Spike Pressure Test
Stress Strain Curve -- PG&E T-67B , L-300A , MP 475.26 - 475.77



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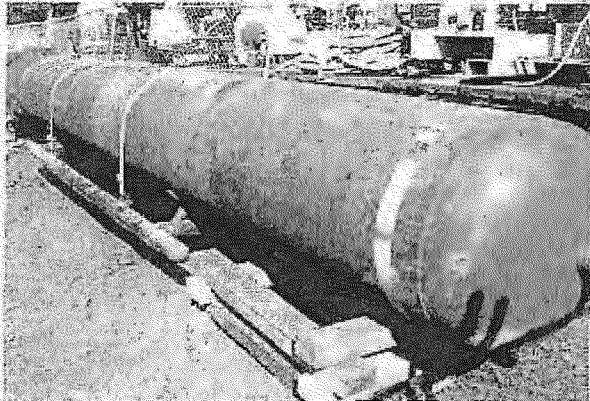
| Actual Pressure Volume Plot Data | | | | Predicted Pressure Volume Plot | | Slope | | Yield | Stress Strain Curve -- PG&E T-67B, L-300A, MP 475.26 -475.77 |
|----------------------------------|---------|------------|------------|--------------------------------|--------|-----------|------------|---|--|
| Pressure | Strokes | Gallons | Gallons | Gallons | Actual | Predicted | | | |
| 713 psig | 0 | 0.00 gal | 0 | 0.000 | 0 | 0.000 | 1,052 psig | 39250 | 0.551 gal/stroke |
| 723 psig | 14 | 7.71 gal | 7.55 gal | 0.771 | 0.771 | 0.755 | 1,052 psig | Pump Piston Diameter | 3.000 in |
| 733 psig | 28 | 15.42 gal | 15.11 gal | 0.771 | 0.771 | 0.755 | 1,052 psig | Pump Piston Stroke | 6.00 in |
| 743 psig | 43 | 23.66 gal | 22.66 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Pump Cylinders | 3 ea |
| 753 psig | 57 | 31.40 gal | 30.22 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Volume check gal per stroke | 0.495 gal/stroke |
| 763 psig | 71 | 39.11 gal | 37.78 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Volume Released (gallons) | 7.15 gal |
| 773 psig | 86 | 47.37 gal | 45.33 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Pressure Reduced (psi) | 10 psi |
| 783 psig | 100 | 55.08 gal | 52.89 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Maximum2 | 270 gal |
| 793 psig | 115 | 63.34 gal | 60.45 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Minimum2 | 0 gal |
| 803 psig | 129 | 71.05 gal | 68.01 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Maximum1 | 1,153 psig |
| 813 psig | 144 | 79.32 gal | 75.57 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Minimum1 | 600 psig |
| 823 psig | 158 | 87.03 gal | 83.12 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Gallons/Stroke Used | 0.551 gal/stroke |
| 833 psig | 172 | 94.74 gal | 90.69 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Predicted Gallons/Stroke | 0.524 gal/stroke |
| 843 psig | 187 | 103.00 gal | 98.24 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Pressure Increment | 10 psi |
| 853 psig | 201 | 110.71 gal | 105.81 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Max Pressure | 1,026 psig |
| 863 psig | 216 | 118.97 gal | 113.37 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Buried Pipe Temperature | 68 °F |
| 873 psig | 231 | 127.23 gal | 120.93 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Exposed Pipe Temperature | 71 °F |
| 883 psig | 245 | 134.95 gal | 128.49 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | ASME B31.8 Appendix N-5 | |
| 893 psig | 259 | 142.66 gal | 136.05 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | Average Actual Elastic Slope | 0.704 |
| 903 psig | 274 | 150.92 gal | 143.61 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | Average Predicted Elastic Slope | 0.756 |
| 913 psig | 288 | 158.63 gal | 151.19 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | Code Prescribed Minimum Yield Slope (less 10%) B31.8 N-5 (c)(2) | 1.609 |
| 923 psig | 303 | 166.89 gal | 159.74 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | Established Minimum Yield Pressure B31.8 N-5 (c)(2) | 1,026 psig |
| 933 psig | 317 | 174.60 gal | 166.31 gal | 0.771 | 0.771 | 0.756 | 1,052 psig | Maximum Allowed Volume (After Slope Deviation) B31.8 N-5 (c)(2) | 418 gal |
| 943 psig | 332 | 182.87 gal | 173.87 gal | 0.828 | 0.828 | 0.756 | 1,052 psig | Volume (After Slope Deviation) B31.8 N-5 (c)(2) | 0 gal |
| 953 psig | 346 | 190.58 gal | 181.44 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | Redacted | 10 12 11 |
| 963 psig | 361 | 198.84 gal | 189.00 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | | |
| 973 psig | 375 | 206.55 gal | 196.57 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | | |
| 983 psig | 389 | 214.26 gal | 204.13 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | | |
| 993 psig | 404 | 222.92 gal | 211.70 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | | |
| 1,003 psig | 418 | 230.23 gal | 219.27 gal | 0.771 | 0.771 | 0.757 | 1,052 psig | | |
| 1,013 psig | 433 | 238.50 gal | 226.84 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | | |
| 1,023 psig | 448 | 246.76 gal | 234.40 gal | 0.828 | 0.828 | 0.757 | 1,052 psig | | |
| 1,026 psig | 452 | 248.95 gal | 236.68 gal | 0.734 | 0.734 | 0.757 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |
| 1,026 psig | | 248.96 gal | 236.68 gal | 0.000 | 0.000 | 0.000 | 1,052 psig | | |

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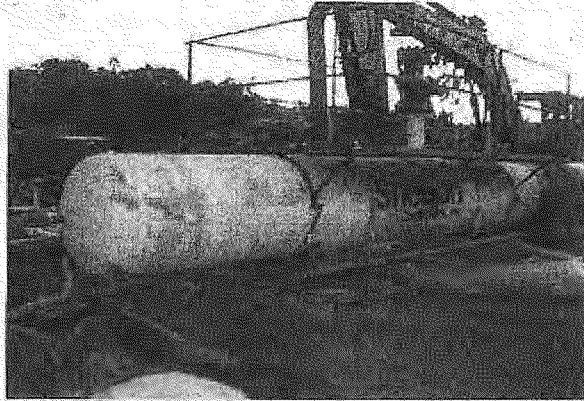
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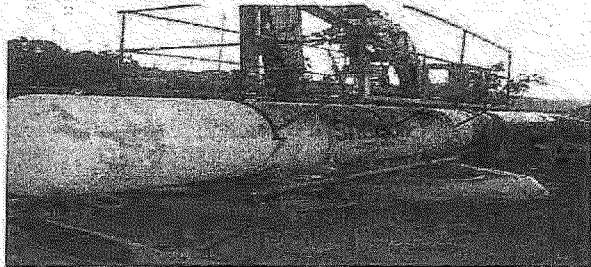
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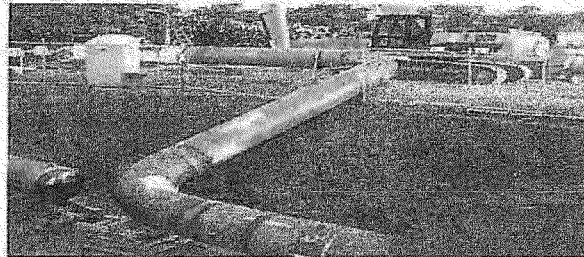
T-67B Test End



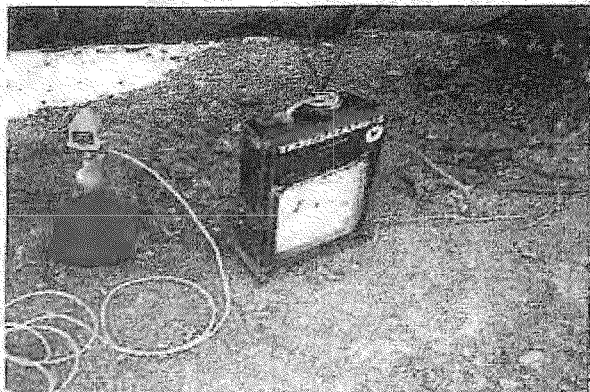
Test Header



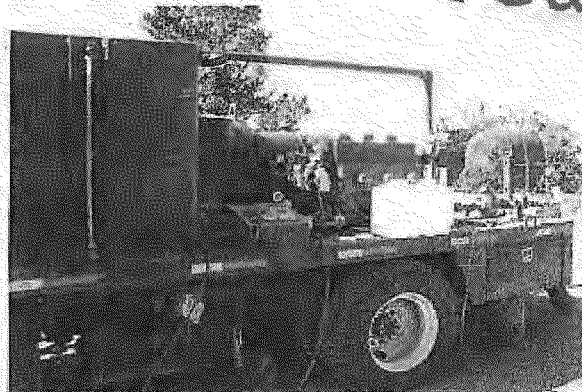
Test Head Connections



Pipe Connect



Restrained Temp Chart Recorder



Pressure Pump

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Deadweight Test Equipment and Chart Recorder

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