



RCP, Inc

801 Louisiana, Ste.200
Houston, Texas 77002

Redacted

June 26, 2011

Pacific Gas and Electric Company
3600 Adobe Rd
Petaluma, Ca 94954
Attention: Joel Mannie
Attention:

Test Contractor:	Milbar Hydro-test Incorporated -- FY12-112
Asset Owner:	Pacific Gas and Electric Company -- 41497307
Construction Contractor:	Snelson -- 41474005-T62
Test Section:	PG&E T-62 Line 300A
Test Date:	June 26, 2011
Certificate Number:	RCP 61362 - T-62, L-300A

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 Incorporated met the requirements of the Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 1).

The test segment was subjected to a spike pressure test of 937 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 9 hour test duration period.

This hydrostatic test was completed successfully. Pressure was maintained on the test facilities in excess of 9 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 875 psig and the established MAOP is 795 psig.

Pressure decreased 58 psi during the test. 5,689.60 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 246.84 ounces, gain, which is equivalent to a 0.2 °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.

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Company	Pacific Gas and Electric Company	Job Number	41487307
Construction Co.	Snelson	Job Number	41474035-T62
Hydro. Test Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-62 Line 300A		
File Name	RCP 61362 - T-62, L-300A		

Hydrostatic Test Pressure

APPLICABLE CODE FOR CERTIFICATION:	Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 1)	Test Date:	26-Jun-11
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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-62 Line 300A
From:	0+00
To:	13+71

Pipe Data

Segment	Length	Diameter	Wall Thickness	Specification	100% SMYS
1	117 ft	34.000 in.	0.505 in.	API5L X60, DSAW, Arc Weld, Steel	1,782 psi
2	26 ft	34.000 in.	0.375 in.	API5L X60, DSAW, Arc Weld, Steel	1,324 psi
3	1,327 ft	34.000 in.	0.313 in.	API5L X52, DSAW, Arc Weld, Steel	956 psi
4	40 ft	34.000 in.	0.500 in.	API5L X65, DSAW, Arc Weld, Steel	1,912 psi

Initial Test Conditions

Pressure at Test Point:	857 psig	Date/Time:	6/26/11 9:15 AM	Pipe Temperature	
Ambient temperature:	73.0 °F	Elevation @ Test Point:	368.0 ft	Unrestrained:	89.0 °F
Pressure @ High Point (Calc/Measure):	934 psig	Elevation @ High Point:	376.0 ft	Restrained:	83.0 °F
Pressure @ Low Point (Calc/Measure):	850 psig	Elevation @ Low Point:	339.0 ft	Location:	0+00
				Location:	2+80
				Location:	13+67

Final Test Conditions

Pressure at Test Point:	878 psig	Date/Time:	6/26/11 5:55 PM	Pipe Temperature	
Ambient Temperature:	94.0 °F	Elevation @ Test Point:	368.0 ft	Unrestrained:	100.0 °F
Pressure @ High Point (Calc/Measure):	878 psig	Elevation @ High Point:	376.0 ft	Restrained:	83.0 °F
Pressure @ Low Point (Calc/Measure):	892 psig	Elevation @ Low Point:	339.0 ft	Location:	0+00
				Location:	2+80
				Location:	13+67

Total Fluid Injected:		Total Fluid Withdrawn:	5689.80 fluid ounces	Volume gain
Net Change in Volume of the Test Section L (+ Gain, - Loss):	246.84 oz	gain		0.0028%
				0.205 °F equivalent

Test Duration: 9 hours

Minimum Test Pressure:	868 psig	Max Elevation	865 psig	Min Elevation	881 psig
Maximum Test Pressure:	937 psig		934 psig		950 psig
% SMYS:	98.0%		97.7%		99.3%

Minimum Test Pressure (Calculated/Measured):	876 psig
Maximum Allowable Operating Pressure:	DOT Part 192 Test Factor = 1.10 795 psig

Were leaks observed?	No	Explain:
Acceptable Hydrostatic Test?	Yes	<p>The test segment was subjected to a spike pressure test of 937 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 9 hour test duration period.</p> <p>No leaks were observed during this test period. The test section included 1,327 feet of buried and 235 feet of exposed pipe. Pressure test 58 psi during the test. The buried pipe segment fluid temperature remained steady and the exposed pipe segment gained 11°F.</p> <p>5,689.80 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 246.84 ounces, gain, which is equivalent to a 0.2 °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: Test was extended for an additional fifteen minutes to ensure the pressure and temperature charts included a full 8 continuous hours of data.

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26 Jun 11



Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	41497307
Construction Co.	Snelson	Job Number	41474005-T62
Testing Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-62 Line 300A		
File Name	RCP 61362 - T-62, L-300A		

Date	26-Jun-11	Test Log
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Log No.	Test Period		Test Pressure	Temperature °F			Remarks		
	Date	Time		Ambient	Pipe		Comment	Bleed	Inject
					Unrestrained	Rostrained			
1	6/26/11	8:45 AM	645 psig	73 °F	88 °F	83 °F	Start Spike		
2	6/26/11	8:46 AM	655 psig	73 °F	88 °F	83 °F	Inject		564 oz.
3	6/26/11	8:47 AM	665 psig	73 °F	88 °F	83 °F	Inject		564 oz.
4	6/26/11	8:48 AM	675 psig	73 °F	88 °F	83 °F	Inject		564 oz.
5	6/26/11	8:49 AM	685 psig	73 °F	88 °F	83 °F	Inject		564 oz.
6	6/26/11	8:50 AM	695 psig	73 °F	88 °F	83 °F	Inject		564 oz.
7	6/26/11	8:51 AM	705 psig	73 °F	88 °F	83 °F	Inject		564 oz.
8	6/26/11	8:52 AM	715 psig	73 °F	88 °F	83 °F	Inject		564 oz.
9	6/26/11	8:53 AM	725 psig	73 °F	88 °F	83 °F	Inject		564 oz.
10	6/26/11	8:54 AM	735 psig	73 °F	88 °F	83 °F	Inject		564 oz.
11	6/26/11	8:55 AM	745 psig	73 °F	88 °F	83 °F	Inject		635 oz.
12	6/26/11	8:56 AM	755 psig	73 °F	88 °F	83 °F	Inject		564 oz.
13	6/26/11	8:57 AM	765 psig	73 °F	88 °F	83 °F	Inject		564 oz.
14	6/26/11	8:58 AM	775 psig	73 °F	88 °F	83 °F	Inject		564 oz.
15	6/26/11	8:59 AM	785 psig	73 °F	88 °F	83 °F	Inject		564 oz.
16	6/26/11	9:00 AM	795 psig	73 °F	88 °F	83 °F	Inject		564 oz.
17	6/26/11	9:01 AM	805 psig	73 °F	88 °F	83 °F	Inject		564 oz.
18	6/26/11	9:02 AM	815 psig	73 °F	88 °F	83 °F	Inject		635 oz.
19	6/26/11	9:03 AM	825 psig	73 °F	88 °F	83 °F	Inject		564 oz.
20	6/26/11	9:04 AM	835 psig	73 °F	88 °F	83 °F	Inject		564 oz.
21	6/26/11	9:05 AM	845 psig	73 °F	88 °F	83 °F	Inject		564 oz.
22	6/26/11	9:06 AM	855 psig	73 °F	88 °F	83 °F	Inject		635 oz.
23	6/26/11	9:07 AM	865 psig	73 °F	88 °F	83 °F	Inject		564 oz.
24	6/26/11	9:08 AM	875 psig	73 °F	88 °F	83 °F	Inject		564 oz.
25	6/26/11	9:09 AM	885 psig	73 °F	88 °F	83 °F	Inject		635 oz.
26	6/26/11	9:10 AM	895 psig	73 °F	88 °F	83 °F	Inject		564 oz.
27	6/26/11	9:11 AM	905 psig	73 °F	88 °F	83 °F	Inject		635 oz.
28	6/26/11	9:12 AM	915 psig	73 °F	88 °F	83 °F	Inject		564 oz.
29	6/26/11	9:13 AM	925 psig	73 °F	88 °F	83 °F	Inject		635 oz.
30	6/26/11	9:14 AM	937 psig	73 °F	88 °F	83 °F	Inject		564 oz.
31	6/26/11	9:15 AM	937 psig	73 °F	89 °F	83 °F	On Test		
32	6/26/11	9:25 AM	936 psig	74 °F	90 °F	83 °F			
33	6/26/11	9:35 AM	936 psig	74 °F	90 °F	83 °F			
34	6/26/11	9:45 AM	937 psig	74 °F	90 °F	82 °F	End Spiko		
35	6/26/11	9:46 AM	927 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
36	6/26/11	9:47 AM	917 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
37	6/26/11	9:48 AM	907 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
38	6/26/11	9:49 AM	897 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
39	6/26/11	9:51 AM	887 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
40	6/26/11	9:53 AM	877 psig	74 °F	90 °F	82 °F	Bleed	448 oz.	
41	6/26/11	9:55 AM	870 psig	75 °F	91 °F	82 °F	Bleed	314 oz.	
42	6/26/11	10:10 AM	872 psig	76 °F	91 °F	82 °F			
43	6/26/11	10:25 AM	873 psig	77 °F	92 °F	82 °F			



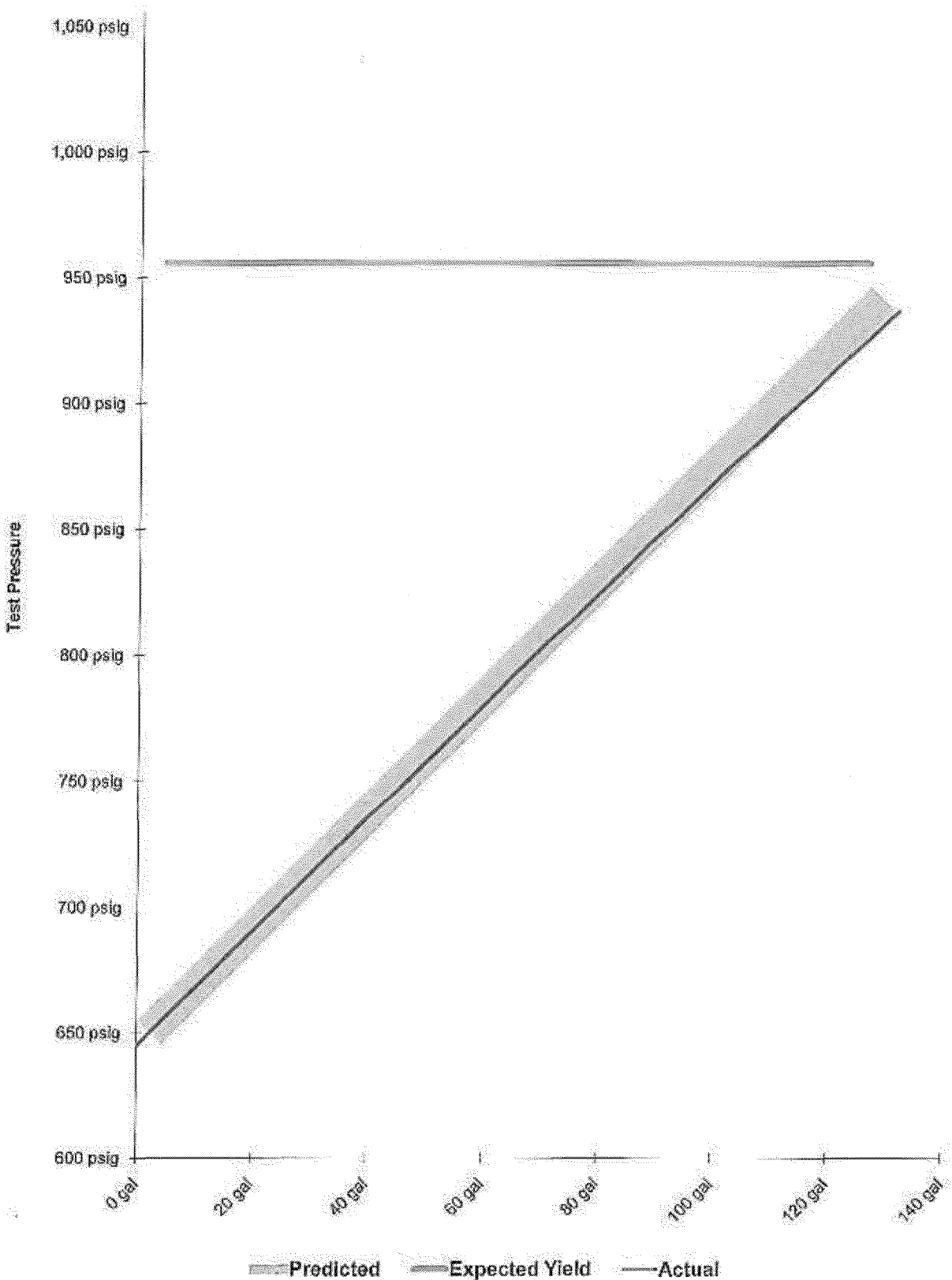
Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	41487307
Construction Co.	Snelson	Job Number	41474005-T62
Testing Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-62 Line 300A		
File Name	RCP 61362 - T 62, L-300A		

Date: 26-Jun-11 Test Log

Log No.	Test Period		Test Pressure	Temperature °F			Remarks		
	Date	Time		Ambient	Pipe		Comment	Bleed	Inject
					Unrestrained	Restrained			
44	6/26/11	10:40 AM	873 psig	77 °F	93 °F	82 °F			
45	6/26/11	10:55 AM	875 psig	78 °F	94 °F	82 °F			
46	6/26/11	11:10 AM	875 psig	78 °F	94 °F	82 °F			
47	6/26/11	11:25 AM	878 psig	80 °F	95 °F	82 °F			
48	6/26/11	11:40 AM	880 psig	82 °F	96 °F	82 °F			
49	6/26/11	11:55 AM	882 psig	83 °F	96 °F	82 °F			
50	6/26/11	12:10 PM	868 psig	83 °F	97 °F	82 °F	Bleed	896 oz.	
51	6/26/11	12:25 PM	870 psig	83 °F	98 °F	82 °F			
52	6/26/11	12:40 PM	872 psig	88 °F	98 °F	82 °F			
53	6/26/11	12:55 PM	874 psig	89 °F	98 °F	82 °F			
54	6/26/11	1:10 PM	877 psig	89 °F	99 °F	82 °F			
55	6/26/11	1:25 PM	879 psig	91 °F	100 °F	82 °F	Hot		
56	6/26/11	1:40 PM	881 psig	92 °F	100 °F	82 °F			
57	6/26/11	1:55 PM	884 psig	93 °F	100 °F	82 °F			
58	6/26/11	2:10 PM	868 psig	93 °F	101 °F	83 °F	Bleed	896.00 oz.	
59	6/26/11	2:25 PM	872 psig	95 °F	102 °F	83 °F			
60	6/26/11	2:40 PM	875 psig	96 °F	102 °F	83 °F			
61	6/26/11	2:55 PM	877 psig	97 °F	102 °F	83 °F	Hot		
62	6/26/11	3:10 PM	879 psig	98 °F	102 °F	83 °F			
63	6/26/11	3:25 PM	881 psig	98 °F	103 °F	83 °F			
64	6/26/11	3:40 PM	883 psig	98 °F	103 °F	83 °F			
65	6/26/11	3:55 PM	869 psig	98 °F	103 °F	83 °F	Bleed	896.00 oz.	
66	6/26/11	4:10 PM	870 psig	99 °F	102 °F	83 °F			
67	6/26/11	4:25 PM	872 psig	98 °F	102 °F	83 °F			
68	6/26/11	4:40 PM	874 psig	98 °F	102 °F	83 °F	Hot		
69	6/26/11	4:55 PM	875 psig	98 °F	102 °F	83 °F			
70	6/26/11	5:10 PM	876 psig	97 °F	102 °F	83 °F			
71	6/26/11	5:25 PM	870 psig	97 °F	101 °F	83 °F			
72	6/26/11	5:40 PM	878 psig	97 °F	100 °F	83 °F			
73	6/26/11	5:55 PM	879 psig	94 °F	100 °F	83 °F	End of Test		

Spike Pressure Test Stress Strain Curve -- PG&E T-62 Line 300A





Pipe Segment Volume Calculations

Company	Pacific Gas and Electric Company	Job Number	41497307
Construction Co.	Brielson	Job Number	41474005 T62
Hydro. Test Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-62 Line 300A	WATER	
File Name	RCP 81382 - T-62, L-300A		

General Pipe Data

Description	Segment						
	1	2	3	4	5	6	7
Restrained or Unrestrained?	Unrestrained	Unrestrained	Restrained	Unrestrained	Unrestrained	Unrestrained	Unrestrained
Outside Diameter	34.000 in.	34.000 in.	34.000 in.	34.000 in.	12.750 in.	12.750 in.	34.000 in.
Wall Thickness	0.505 in.	0.375 in.	0.313 in.	0.500 in.	0.500 in.	0.375 in.	0.375 in.
Inside Diameter	32.990 in.	33.250 in.	33.375 in.	33.000 in.	11.750 in.	12.000 in.	33.250 in.
Spec./Grade	API5L X60	API5L X60	API5L X62	API5L X65	API5L-Grade D	API5L-Grade B	API5L X65
Length Unrestrained	117 ft	26 ft		40 ft	24 ft	11 ft	17 ft
Length Restrained			1,327 ft				
Temperature -- On Test	89 °F	89 °F	83.0 °F	89.0 °F	89.0 °F	89.0 °F	89.0 °F
Temperature -- End of Test	100 °F	100 °F	83.0 °F	100.0 °F	100.0 °F	100.0 °F	100.0 °F
Pressure -- On Test	937 psig	937 psig	937 psig	937 psig	937 psig	937 psig	937 psig
Pressure -- End of Test	879 psig	879 psig	879 psig	879 psig	879 psig	879 psig	879 psig

Unrestrained Pipe

Sum:	Vo	9,111.94 gal		Vfp1	9,132.11 gal		Vfp2	9,111.57 gal	
		1,166,329 oz.			1,168,910 oz.			1,168,294 oz.	
Vo Unrestrained	5,185 gal	1,173 gal		1,777 gal	135 gal	65 gal	767 gal		
Fwp 1	1.002871	1.002871		1.002871	1.002871	1.002871	1.002871		
Fpp 1	1.002550	1.003462		1.002577	1.000917	1.001249	1.003462		
Fpl 1	1.000528	1.000528		1.000528	1.000528	1.000528	1.000528		
Fwt 1	1.003903	1.003903		1.003903	1.003903	1.003903	1.003903		
Fpwt 1 = Fpl/Fwt	0.995638	0.995638		0.995638	0.995638	0.995638	0.995638		
Vfp 1 = Vo(Fwp)(Fpp)(Fpwt)	5,205.03 gal	1,176.25 gal		1,760.93 gal	135.25 gal	64.68 gal	769.00 gal		
Fwp 2	1.002693	1.002693		1.002693	1.002693	1.002693	1.002693		
Fpp 2	1.002393	1.003247		1.002417	1.000861	1.001172	1.003247		
Fpl 2	1.000728	1.000728		1.000728	1.000728	1.000728	1.000728		
Fwt 2	1.006009	1.006009		1.006009	1.006009	1.006009	1.006009		
Fpwt 2 = Fpl/Fwt	0.994751	0.994751		0.994751	0.994751	0.994751	0.994751		
Vfp 2 = Vo(Fwp)(Fpp)(Fpwt)	5,194.33 gal	1,173.58 gal		1,776.95 gal	134.98 gal	64.54 gal	767.33 gal		

Restrained Pipe

Sum:	Vo	60,307.68 gal		Vfp1	60,512.71 gal		Vfp2	60,400.63 gal	
		7,719,363 oz.			7,745,827 oz.			7,742,801 oz.	
Vo Unrestrained			60,308 gal						
Fwp 1			1.002871						
Fpp 1			1.003118						
Fpl 1			1.000276						
Fwt 1			1.002868						
Fpwt 1 = Fpl/Fwt			0.997417						
Vfp 1 = Vo(Fwp)(Fpp)(Fpwt)			60,513 gal						
Fwp 2			1.002693						
Fpp 2			1.002930						
Fpl 2			1.000276						
Fwt 2			1.002868						
Fpwt 2 = Fpl/Fwt			0.997417						
Vfp 2 = Vo(Fwp)(Fpp)(Fpwt)			60,481 gal						

Combined Pipe

Sum:	Vo	69,419.62 gal		Vfp1	69,644.83 gal		Vfp2	69,802.31 gal	
		8,885,712 oz.			8,914,539 oz.			8,909,095 oz.	



Pipe Segment Volume Allowance Calculations

Company	Pacific Gas and Electric Company	Job Number	41407307
Construction Co.	Snelson	Job Number	41474005-T82
Hydro. Test Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-62 Line 300A		WATER
File Name	RCP 81582 - T-62, L-300A		

General Pipe Data

Description	Segment						
	1	2	3	4	5	6	7
Restrained or Unrestrained?	Unrestrained	Unrestrained	Restrained	Unrestrained	Unrestrained	Unrestrained	Unrestrained
Outside Diameter	34.000 in.	34.000 in.	34.000 in.	34.000 in.	12.750 in.	12.750 in.	34.000 in.
Wall thickness	0.500 in.	0.375 in.	0.313 in.	0.500 in.	0.500 in.	0.375 in.	0.375 in.
Inside Diameter	32.990 in.	33.250 in.	33.375 in.	33.000 in.	11.750 in.	12.000 in.	33.250 in.
Spec./Grade	API5L-X60	API5L-X60	API5L-X52	API5L-X65	API5L-Grade B	API5L-Grade B	API5L-X60
Length Unrestrained	117.00 ft	26.00 ft		40 ft	24 ft	11 ft	17 ft
Length Restrained			1,327 ft				
Temperature - On Test	94 °F	94 °F	82 °F	94 °F	94 °F	94 °F	94 °F
Temperature - End of Test	95 °F	95 °F	83 °F	95 °F	95 °F	95 °F	95 °F
Pressure - On Test	908 psig	908 psig	908 psig	908 psig	908 psig	908 psig	908 psig
Pressure - End of Test	908 psig	908 psig	908 psig	908 psig	908 psig	908 psig	908 psig

Unrestrained Pipe

Sum:	Vo	9,111.94 gal 1,168,329 oz.	Vtp1	8,123.24 gal 1,167,776 oz.	Vtp2	9,121.53 gal 1,167,566 oz.
Vo Unrestrained	5,195 gal	1,173 gal	1,777 gal	135 gal	65 gal	767 gal
Fwp 1	1.002782	1.002782	1.002782	1.002782	1.002782	1.002782
Fpp 1	1.002472	1.003355	1.002497	1.000889	1.001211	1.003355
Fpt 1	1.000619	1.000819	1.000619	1.000819	1.000619	1.000819
Fwt 1	1.004797	1.004797	1.004797	1.004797	1.004797	1.004797
Fpwt 1 = Fpt/Fwt	0.995842	0.995842	0.995842	0.995842	0.995842	0.995842
Vip 1 = Vo(Fwp)(Fpp)(Fpwt)	5,200.80 gal	1,175.08 gal	1,779.21 gal	135.12 gal	64.62 gal	758.32 gal
Fwp 2	1.002782	1.002782	1.002782	1.002782	1.002782	1.002782
Fpp 2	1.002472	1.003355	1.002497	1.000889	1.001211	1.003355
Fpt 2	1.000637	1.000637	1.000637	1.000637	1.000637	1.000637
Fwt 2	1.005004	1.005004	1.005004	1.005004	1.005004	1.005004
Fpwt 2 = Fpt/Fwt	0.995654	0.995654	0.995654	0.995654	0.995654	0.995654
Vip 2 = Vo(Fwp)(Fpp)(Fpwt)	5,199.92 gal	1,174.86 gal	1,778.87 gal	135.10 gal	64.60 gal	758.16 gal

Restrained Pipe

Sum:	Vo	60,307.68 gal 7,718,363 oz.	Vtp1	60,508.37 gal 7,745,199 oz.	Vtp2	60,501.67 gal 7,744,214 oz.
Vo Restrained		60,308 gal				
Fwp 1		1.002782				
Fpp 1		1.003021				
Fpt 1		1.000266				
Fwt 1		1.002725				
Fpwt 1 = Fpt/Fwt		0.997548				
Vip 1 = Vo(Fwp)(Fpp)(Fpwt)		60,509 gal				
Fwp 2		1.002782				
Fpp 2		1.003024				
Fpt 2		1.000278				
Fwt 2		1.002868				
Fpwt 2 = Fpt/Fwt		0.997417				
Vip 2 = Vo(Fwp)(Fpp)(Fpwt)		60,502 gal				

Combined Pipe

Sum:	Vo	69,419.62 gal 8,885,712 oz.	Vtp1	69,632.61 gal 8,912,974 oz.	Vtp2	69,623.20 gal 8,911,770 oz.
1 % Change	8.41 gal	1,204.64 oz.				



Hydrostatic Test Pipe Data Table

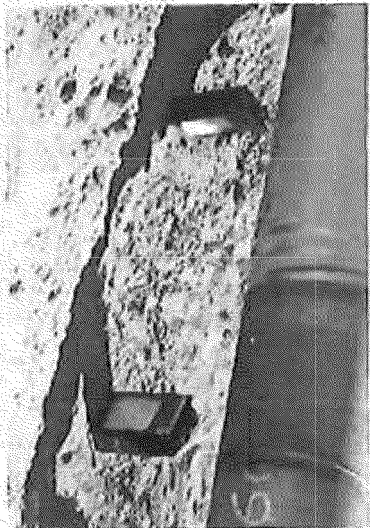
Pipe Type	Length	Restrained / Unrestrained	Outside Diameter	Wall Thickness	Specification & Grade	Pipe Yield Pressure	Material	Joint Type	Seam Type
1	117 ft	Unrestrained	34.000 in.	0.5050 in.	API5L-X60	1,782 psig	Steel	Arc Weld	DSAW
2	26 ft	Unrestrained	34.000 in.	0.3750 in.	API5L-X60	1,324 psig	Steel	Arc Weld	DSAW
3	1,327 ft	Restrained	34.000 in.	0.3125 in.	API5L-X52	956 psig	Steel	Arc Weld	DSAW
4	40 ft	Unrestrained	34.000 in.	0.5000 in.	API5L-X65	1,912 psig	Steel	Arc Weld	DSAW
5	24 ft	Unrestrained	12.750 in.	0.5000 in.	API5L-Grade B	2,745 psig	Steel	Arc Weld	SM
6	11 ft	Unrestrained	12.750 in.	0.3750 in.	API5L-Grade B	2,059 psig	Steel	Arc Weld	SM
7	17 ft	Unrestrained	34.000 in.	0.3750 in.	API5L-X65	1,434 psig	Steel	Arc Weld	DSAW

Hydrostatic Test Project Owner & Participants

Owner Company	Pacific Gas and Electric Company	Job Number
Address	3600 Adobe Rd Petaluma, Ca 94954 Attention: Joel Mannie	41497307
Construction Company	Snelson	Job Number
Address	601 West State Street Sedro-Woolley, WA 98284 Attention: Redacted	41474005-T62
Hydrostatic Test Co.	Milbar Hydro-test Incorporated	Project No.
Address	P.O. Box 7701 Shreveport, Louisiana 71137-7701	FY12-112
Test Section	PG&E T-62 Line 300A From: 0+00 To: 13+71	
File Name	RCP 61362 - T-62, L-300A	



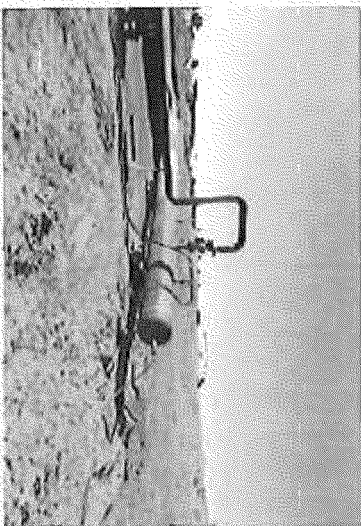
T-62 Pump Truck



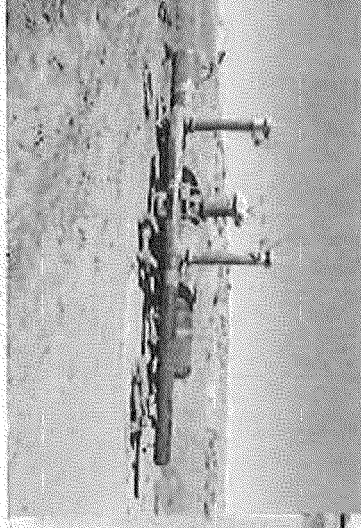
T-62 Unrestrained Temp. Recorder



T-62 Restrained Temp. Recorder



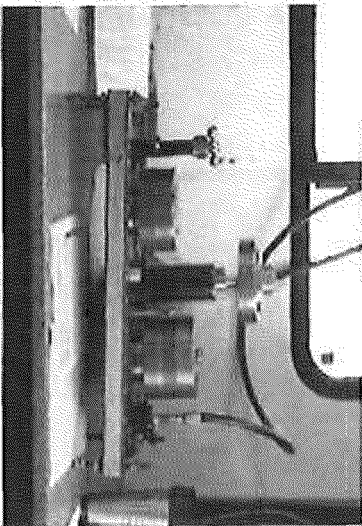
T-62 Test Head



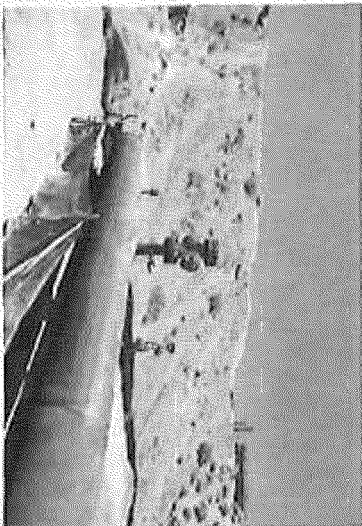
T-52 Block Valve Cutoff



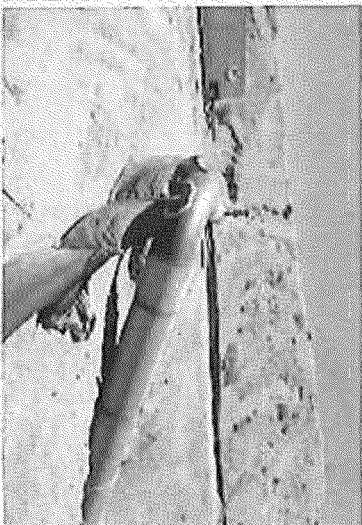
T-62 Test Head Location



T-62 Deadweight Tester



T-62 Test
End



T-62 Test
End



Hydrostatic Test Log Sheet

Owner Company	Pacific Gas and Electric	Job Number	41497307
Construction Co.	Shelton	Job Number	41474005-T62
Testing Co.	MilBar	Job Number	Fy12-112

Test Section	Name	Station (0+00)		Elevation (Foot)
	Test Location	00+00		368
	Begin	00+00		368
	End	13+71		339
	High Elevation	2+90		376
	Low Elevation	13+71		339

Pipe Data	Section	Length (ft.)	O. D. (in.)	W.T. (in.)	Restrained (ft.)	Unrestrained (ft.)	Grade	Scam/Joint Type	
	1	117	34	.505		117	X-60	Arc weld	DSAW
	2	26	34	.375		26	X-60	Arc weld	DSAW
	3	1,327	34	.3125	1327		X-62	Arc weld	DSAW
	4	40	34	.500		40	X-65	DSAW	Arc weld
	5	84	12.750	.500		24	Grade B	SM	Arc weld
	6	11	12.750	.375		11	Grade B	SM	Arc weld
	7	17	34	.375		17	X-65	DSAW	Arc weld
	8								
	9								
	10								
	11								

Test Period	Date	Time	Test Medium	Water	<input checked="" type="checkbox"/>
	Begin	9:17 AM		Nitrogen	<input type="checkbox"/>
	End	5:55 PM		Other	<input type="checkbox"/>

Test Instrumentation	Description	Calibration Checked	Serial Number	Date Calibrated/Certified	Installation Correct
	Dead Weight Pressure Tester		7850	2-18-2011	<input type="checkbox"/> Yes
	Pressure Recorder	<input checked="" type="checkbox"/> Yes	624086	2-18-2011	<input type="checkbox"/> Yes
	Ambient Temperature Recorder	<input checked="" type="checkbox"/> Yes	624085	2-18-2011	<input type="checkbox"/> Yes
	Restrained Pipe Temperature Recorder	<input checked="" type="checkbox"/> Yes	265-9729	6-17-2011	<input type="checkbox"/> Yes
	Unrestrained Pipe Temperature Recorder	<input checked="" type="checkbox"/> Yes	242-10798	3-28-2011	<input type="checkbox"/> Yes

Hydrostatic Test Log

Log No.	Time	Test Pressure (psig)	Temperature (°F)			Volume		Comments	Model Check: Is test good?
			Ambient	Pipe		Bleed	Inject		
				Restrained	Unrestrained				
1	7:17 AM	68	68						
2	7:32	330	72					<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	7:52	645	73				496 stress 75%	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	8:05	645	73	82	84			<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	8:20	645	73	82	86			<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	8:35	645	73	82	87			<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	8:51	645	73	82	88			<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	8:55	645	73	82				<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	9:17	937	73	82			Start spike 240-215	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	9:27	936	73	82				<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	9:37	936	74	82				<input type="checkbox"/> Yes <input type="checkbox"/> No	



Hydrostatic Test Log

Log No.	Time	Test Pressure (psig)	Temperature (°F)			Volume		Comments	Model Check: Is test good?
			Ambient	Pipe		<input type="checkbox"/> Ounces	<input checked="" type="checkbox"/> Gallons		
				Restrained	Unrestrained	Bleed	Inject		
12	7:47	937	74	82	90			<input type="checkbox"/> Yes <input type="checkbox"/> No	
13	7:50	937	74	82	90		End Service	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	10:10	870	75	82	91	19.1	Leak Test	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15	10:25	872	76	82	92			<input type="checkbox"/> Yes <input type="checkbox"/> No	
16	10:40	873	77	82	93			<input type="checkbox"/> Yes <input type="checkbox"/> No	
17	10:55	875	78	82	94			<input type="checkbox"/> Yes <input type="checkbox"/> No	
18	11:10	875	79	82	94			<input type="checkbox"/> Yes <input type="checkbox"/> No	
19	11:25	878	80	82	95			<input type="checkbox"/> Yes <input type="checkbox"/> No	
20	11:40	880	82	82	96			<input type="checkbox"/> Yes <input type="checkbox"/> No	
21	11:55	882	83	82	96			<input type="checkbox"/> Yes <input type="checkbox"/> No	
22	12:04	883	84	82	97		Start Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
23	12:13	868	85	82	97	7	End Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
24	12:25	870	86	82	98			<input type="checkbox"/> Yes <input type="checkbox"/> No	
25	12:40	872	88	82	98			<input type="checkbox"/> Yes <input type="checkbox"/> No	
26	12:55	874	89	82	98			<input type="checkbox"/> Yes <input type="checkbox"/> No	
27	1:10	877	89	82	99			<input type="checkbox"/> Yes <input type="checkbox"/> No	
28	1:25	879	91	82	100			<input type="checkbox"/> Yes <input type="checkbox"/> No	
29	1:40	881	92	82	100			<input type="checkbox"/> Yes <input type="checkbox"/> No	
30	1:55	884	93	82	100		Start Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
31	2:02	868	93	83	101	7	End Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
32	2:10	870	94	83	101			<input type="checkbox"/> Yes <input type="checkbox"/> No	
33	2:25	872	95	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
34	2:40	875	96	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
35	2:55	879	97	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
36	3:10	879	98	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
37	3:25	881	98	83	103			<input type="checkbox"/> Yes <input type="checkbox"/> No	
38	3:40	883	98	83	103			<input type="checkbox"/> Yes <input type="checkbox"/> No	
39	3:55	885	98	83	103			<input type="checkbox"/> Yes <input type="checkbox"/> No	
40	3:57	886	98	83	103		Start Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
41	4:01	869	98	83	103	7	End Bleed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
42	4:10	870	99	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
43	4:25	872	98	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
44	4:40	874	98	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
45	4:55	875	98	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
46	5:10	876	97	83	102			<input type="checkbox"/> Yes <input type="checkbox"/> No	
47	5:25	876	97	83	101			<input type="checkbox"/> Yes <input type="checkbox"/> No	
48	5:40	878	95	83	100			<input type="checkbox"/> Yes <input type="checkbox"/> No	

Was a leak observed during test Period? Yes No

If "Yes", Explain: _____

High Test Pressure: 937
Low Test Pressure: 868

Certification: _____ Date: 6-26-11

Test Supervisor: Redacted Signature
Company Representative: Redacted Signature



Hydrostatic Test Log

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	5:55	879	94	87	100			End Test	<input type="checkbox"/> Yes <input type="checkbox"/> No
13									<input type="checkbox"/> Yes <input type="checkbox"/> No
14									<input type="checkbox"/> Yes <input type="checkbox"/> No
15									<input type="checkbox"/> Yes <input type="checkbox"/> No
16									<input type="checkbox"/> Yes <input type="checkbox"/> No
17									<input type="checkbox"/> Yes <input type="checkbox"/> No
18									<input type="checkbox"/> Yes <input type="checkbox"/> No
19									<input type="checkbox"/> Yes <input type="checkbox"/> No
20									<input type="checkbox"/> Yes <input type="checkbox"/> No
21									<input type="checkbox"/> Yes <input type="checkbox"/> No
22									<input type="checkbox"/> Yes <input type="checkbox"/> No
23									<input type="checkbox"/> Yes <input type="checkbox"/> No
24									<input type="checkbox"/> Yes <input type="checkbox"/> No
25									<input type="checkbox"/> Yes <input type="checkbox"/> No
26									<input type="checkbox"/> Yes <input type="checkbox"/> No
27									<input type="checkbox"/> Yes <input type="checkbox"/> No
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29									<input type="checkbox"/> Yes <input type="checkbox"/> No
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40									<input type="checkbox"/> Yes <input type="checkbox"/> No
41									<input type="checkbox"/> Yes <input type="checkbox"/> No
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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: 937
 Low Test Pressure: 868

Certification:
 Test Supervisor: Redacted Signature
 Company Representative: Redacted Signature
 Date: 6-26-11