



RCP, Inc

801 Louisiana, Ste.200
Houston, Texas 77002

Redacted

July 12, 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 – 41474079
Construction Contractor: Snelson -- 41474053-T51
Test Section: PG&E T-51 Line 300A MP 121.87 - 122.68
Test Date: June 8, 2011
Certificate Number: RCP 61362 - T-51, 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).

Prior to initiation of the hydrostatic test period, the test segment was subjected to a spike pressure of 940 psig for 30 minutes, without observed leakage or yielding of the pipe segment.

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 872 psig and the established MAOP is 793 psig.

Pressure decreased 62 psi during the test. 10,345.60 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 4,520.98 ounces, gain, which is equivalent to a 1.48 °F change in pipe temperature and larger than the anticipated 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 inherent error associated with physically attempting to measure the average temperature of 4,297 feet of buried and 225 feet of exposed pipe from a single point on the line.

Sincerely,

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Letter



Hydrostatic Test Certification

Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	Sncison	Job Number	41474053-T51
Hydro. Test Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-51 Line 300A MP 121.87 - 122.68		
File Name	RCP 01302 - T-51, L-300A		

Hydrostatic Test Pressure

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

Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 1)

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-51 Line 300A MI ² 121.87 - 122.68	From:	MP 121.87	To:	MP 122.68
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Pipe Data

Segment	Length	Diameter	Weld Thickness	Specification	100% SMYS
1	2,105 ft	34.000 in.	0.313 in.	API5L-X52, DSAW, Arc Weld, Steel	958 psi
2	2,192 ft	34.000 in.	0.409 in.	API5L-X60, DSAW, Arc Weld, Steel	1,655 psi
3	203 ft	34.000 in.	0.375 in.	API5L-X60, DSAW, Arc Weld, Steel	1,324 psi
4	22 ft	34.000 in.	0.500 in.	API5L-X60, DSAW, Arc Weld, Steel	1,785 psi

Initial Test Conditions

Pressure at Test Point:	940 psig	Date/Time:	6/8/11 2:38 PM	Pipe Temperature	
Ambient Temperature:	90.0 °F	Elevation @ Test Point:	1,791 ft	Unrestrained:	71.0 °F
Pressure @ High Point (Cal/Measure):	934 psig	Elevation @ High Point:	1,804 ft	Restrained:	79.0 °F
Pressure @ Low Point (Cal/Measure):	940 psig	Elevation @ Low Point:	1,791 ft	Location:	42+97
				Location:	00+00
				Location:	42+97

Final Test Conditions

Pressure at Test Point:	878 psig	Date/Time:	6/8/11 10:53 PM	Pipe Temperature	
Ambient Temperature:	77.0 °F	Elevation @ Test Point:	1,791.0 ft	Unrestrained:	68.0 °F
Pressure @ High Point (Cal/Measure):	872 psig	Elevation @ High Point:	1,804.0 ft	Restrained:	78.0 °F
Pressure @ Low Point (Cal/Measure):	878 psig	Elevation @ Low Point:	1,791.0 ft	Location:	42+97
Total Fluid Injected:				Location:	00+00
Total Fluid Withdrawn:	10345.60 fluid ounces			Location:	42+97
Net Change in Volume of the Test Section + (+ Gain, - Loss):	4,520.98 oz	gain	0.0173%	Volume gain:	1.484 °F equivalent

Test Duration: 8 hours

Maximum Test Pressure:	940 psig				
% SMYS @:	99.3%	Test Point:	97.7%	High Point	98.3%
				Low Point	

Minimum Test Pressure (Calculated/Measured): 872 psig

DOT Part 192 Test Factor = 1.10 793 psig

Were leaks observed?	No	Explain:
Acceptable Hydrostatic Test?	Yes	Prior to initiation of the hydrostatic test period, the test segment was subjected to a static pressure of 940 psig for 30 minutes, without observed leakage or yielding of the pipe segment. No leaks were observed during the test period. The test section included 4,207 feet of buried and 225 feet of exposed pipe. Pressure lost 62 psi during the test. The buried pipe segment lost 1°F fluid temperature and the exposed pipe segment lost 5°F. 10,345.60 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 4,520.98 ounces, gain, which is equivalent to a 1.48 °F change in pipe temperature and larger than the anticipated 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 inherent error associated with physically attempting to measure the average temperature of 4,297 feet of buried and 225 feet of exposed pipe from a single point on the line.

Remarks	
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12-Jun-11



Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	Snelson	Job Number	41474053-T51
Testing Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	PG&E T-51 Line 300A MP 121.87 - 122.68		
File Name	RCP 61362 - T-51, L-300A		

Log No.	Test Period		Test Pressure	Temperature °F			Remarks			
	Date	Time		Ambient	Pipe					
				Unrestrained	Restrained		Comment	Bleed	Inject	
1	6/8/11	2:07 PM	651 psig	92 °F	71 °F	79 °F	Start Spike			
2	6/8/11	2:08 PM	660 psig	92 °F	71 °F	79 °F			1,270 oz.	
3	6/8/11	2:09 PM	670 psig	92 °F	71 °F	79 °F			1,552 oz.	
4	6/8/11	2:10 PM	680 psig	92 °F	71 °F	79 °F			1,481 oz.	
5	6/8/11	2:11 PM	690 psig	92 °F	71 °F	79 °F			1,481 oz.	
6	6/8/11	2:12 PM	700 psig	92 °F	71 °F	79 °F			1,552 oz.	
7	6/8/11	2:14 PM	710 psig	92 °F	71 °F	79 °F			1,481 oz.	
8	6/8/11	2:15 PM	720 psig	92 °F	71 °F	79 °F			1,552 oz.	
9	6/8/11	2:16 PM	730 psig	92 °F	71 °F	79 °F			1,552 oz.	
10	6/8/11	2:17 PM	740 psig	92 °F	71 °F	79 °F			1,481 oz.	
11	6/8/11	2:18 PM	750 psig	90 °F	71 °F	79 °F			1,552 oz.	
12	6/8/11	2:19 PM	760 psig	90 °F	71 °F	79 °F			1,481 oz.	
13	6/8/11	2:20 PM	770 psig	90 °F	71 °F	79 °F			1,552 oz.	
14	6/8/11	2:21 PM	780 psig	90 °F	71 °F	79 °F			1,481 oz.	
15	6/8/11	2:22 PM	790 psig	90 °F	71 °F	79 °F			1,552 oz.	
16	6/8/11	2:23 PM	800 psig	90 °F	71 °F	79 °F			1,481 oz.	
17	6/8/11	2:24 PM	810 psig	90 °F	71 °F	79 °F			1,552 oz.	
18	6/8/11	2:25 PM	820 psig	90 °F	71 °F	79 °F			1,481 oz.	
19	6/8/11	2:26 PM	830 psig	90 °F	71 °F	79 °F			1,552 oz.	
20	6/8/11	2:27 PM	840 psig	90 °F	71 °F	79 °F			1,622 oz.	
21	6/8/11	2:28 PM	850 psig	90 °F	71 °F	79 °F			1,513 oz.	
22	6/8/11	2:29 PM	860 psig	90 °F	71 °F	79 °F			1,520 oz.	
23	6/8/11	2:30 PM	870 psig	90 °F	71 °F	79 °F			1,481 oz.	
24	6/8/11	2:31 PM	880 psig	90 °F	71 °F	79 °F			1,552 oz.	
25	6/8/11	2:32 PM	890 psig	90 °F	71 °F	79 °F			1,481 oz.	
26	6/8/11	2:34 PM	900 psig	90 °F	71 °F	79 °F			1,622 oz.	
27	6/8/11	2:35 PM	910 psig	90 °F	71 °F	79 °F			1,552 oz.	
28	6/8/11	2:36 PM	920 psig	90 °F	71 °F	79 °F			1,513 oz.	
29	6/8/11	2:37 PM	930 psig	90 °F	71 °F	79 °F			1,520 oz.	
30	6/8/11	2:38 PM	940 psig	90 °F	71 °F	79 °F			1,552 oz.	
31	6/8/11	2:38 PM	940 psig	90 °F	71 °F	79 °F	On Test			
32	6/8/11	2:48 PM	940 psig	92 °F	71 °F	79 °F				
33	6/8/11	2:58 PM	940 psig	91 °F	71 °F	79 °F				
34	6/8/11	3:08 PM	940 psig	92 °F	71 °F	80 °F	End Spike			
35	6/8/11	3:13 PM	940 psig	92 °F	71 °F	80 °F				
36	6/8/11	3:25 PM	930 psig	91 °F	71 °F	80 °F			1,696 oz.	
37	6/8/11	3:31 PM	879 psig	91 °F	71 °F	80 °F			8,650 oz.	
38	6/8/11	3:45 PM	879 psig	92 °F	71 °F	80 °F				
39	6/8/11	4:00 PM	880 psig	92 °F	71 °F	80 °F				
40	6/8/11	4:15 PM	880 psig	92 °F	71 °F	80 °F				
41	6/8/11	4:30 PM	880 psig	93 °F	71 °F	80 °F				
42	6/8/11	4:45 PM	881 psig	93 °F	71 °F	80 °F				
43	6/8/11	5:00 PM	881 psig	93 °F	71 °F	80 °F				



Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	4144079
Construction Co.	Snelson	Job Number	4144053-151
Testing Co.	Milbar Hydro test Incorporated	Project No.	FY12-112
Test Section	PG&E T-51 Line 300A MP121-87 - 122-68		
File Name	RCP 61382 - T-51, L-300A		

Date 8-Jun-11

Test Log

Log No.	Test Period		Test Pressure	Temperature °F			Comment	Bleed	Inject	Remarks
	Date	Time		Ambient	Unrestrained	Restrained				
44	6/8/11	5:15 PM	881 psig	93 °F	71 °F	79 °F				
45	6/8/11	5:30 PM	882 psig	93 °F	71 °F	79 °F				
46	6/8/11	5:45 PM	882 psig	92 °F	70 °F	79 °F				
47	6/8/11	6:00 PM	882 psig	92 °F	70 °F	79 °F				
48	6/8/11	6:15 PM	882 psig	91 °F	70 °F	79 °F				
49	6/8/11	6:30 PM	882 psig	91 °F	70 °F	79 °F				
50	6/8/11	6:45 PM	882 psig	90 °F	70 °F	79 °F				
51	6/8/11	7:00 PM	882 psig	89 °F	68 °F	79 °F				
52	6/8/11	7:15 PM	882 psig	88 °F	68 °F	79 °F				
53	6/8/11	7:30 PM	882 psig	87 °F	68 °F	79 °F				
54	6/8/11	7:45 PM	882 psig	86 °F	68 °F	79 °F				
55	6/8/11	8:00 PM	882 psig	85 °F	68 °F	79 °F				
56	6/8/11	8:15 PM	881 psig	84 °F	68 °F	79 °F				
57	6/8/11	8:30 PM	881 psig	83 °F	67 °F	79 °F				
58	6/8/11	8:45 PM	881 psig	81 °F	67 °F	79 °F				
59	6/8/11	9:00 PM	880 psig	80 °F	67 °F	79 °F				
60	6/8/11	9:15 PM	880 psig	79 °F	66 °F	79 °F				
61	6/8/11	9:30 PM	880 psig	79 °F	68 °F	79 °F				
62	6/8/11	9:45 PM	880 psig	78 °F	66 °F	79 °F				
63	6/8/11	10:00 PM	879 psig	77 °F	66 °F	78 °F				
64	6/8/11	10:15 PM	879 psig	77 °F	66 °F	78 °F				
65	6/8/11	10:30 PM	879 psig	77 °F	66 °F	78 °F				
66	6/8/11	10:45 PM	879 psig	77 °F	66 °F	78 °F				
67	6/8/11	10:53 PM	878 psig	77 °F	66 °F	78 °F				
										End of Test
										Spike Test
										Hydrostatic Test
										10,345.6 oz.
										14,000.5 oz.
										Hydrostatic Test
										10,345.6 oz.
										High Test Pressure: 940 psig Low Test Pressure: 878 psig
										Exposed and buried pipe, no leaks observed.

Worl leaks observed during the test period?



Pipe Segment Volume Calculations

Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	Snelson	Job Number	41474053-T51
Hydro Test Co.	Milbar Hydro-test Incorporated	Project No.	FY12-112
Test Section	IQC&E T-51 Line 300A MP 121.87 - 122.68		
File Name	RCP 61362 - T-51, L-300A		WATER

General Pipe Data

Description	Segment			
	1	2	3	4
Restrained or Unrestrained?	Restrained	Restrained	Unrestrained	Unrestrained
Outside Diameter	34.000 in.	34.000 in.	34.000 in.	34.000 in.
Wall Thickness	0.313 in.	0.469 in.	0.375 in.	0.500 in.
Inside Diameter	33.375 in.	33.062 in.	33.250 in.	33.000 in.
Spec/Grade	API5L-X52	API5L-X60	API5L-X60	API5L-X60
Length Unrestrained			203 ft	22 ft
Length Restrained	2,109 ft	2,192 ft		
Temperature - On Test	70 °F	79 °F	71.0 °F	71.0 °F
Temperature - End of Test	78 °F	78 °F	65.0 °F	66.0 °F
Pressure - On Test	940 psig	940 psig	940 psig	940 psig
Pressure - End of Test	878 psig	878 psig	878 psig	878 psig

Unrestrained Pipe

Sum:	Vo	10,134.17 gal	Vip1	10,187.91 gal	Vip2	10,188.76 gal
		1,297,174 oz.		1,304,053 oz.		1,304,161 oz.
Vo Unrestrained		9,157 gal	977 gal			
Fwp 1			1.002880	1.002880		
Fpp 1			1.003473	1.002565		
Fpt 1			1.000200	1.000200		
Fwt 1			1.001170	1.001170		
Fpw1 = Fpt/Fwt			0.999032	0.999032		
Vip 1 = Vo(Fwp)(Fpp)(Fpw1)			0.206.03 gal	981.83 gal		
Fwp 2			1.002889	1.002689		
Fpp 2			1.003244	1.002415		
Fpt 2			1.000109	1.000109		
Fwt 2			1.000582	1.000582		
Fpw2 = Fpt/Fwt			0.999527	0.999527		
Vip = Vo(Fwp)(Fpp)(Fpw1)			0.206.74 gal	982.01 gal		

Restrained Pipe

Sum:	Vo	193,424.43 gal	Vip1	194,090.97 gal	Vip2	194,044.62 gal
		24,758,327 oz.		24,843,845 oz.		24,837,712 oz.
Vo Unrestrained	35,665 gal	97,750 gal				
Fwp 1	1.002880	1.002880				
Fpp 1	1.003114	1.002078				
Fpt 1	1.000250	1.000230				
Fwt 1	1.002255	1.002265				
Fpw1 = Fpt/Fwt	0.997949	0.997975				
Vip 1 = Vo(Fwp)(Fpp)(Fpw1)	96,045 gal	98,048 gal				
Fwp 2	1.002689	1.002688				
Fpp 2	1.002609	1.001942				
Fpt 2	1.000218	1.000218				
Fwt 2	1.002122	1.002122				
Fpw2 = Fpt/Fwt	0.998100	0.998100				
Vip = Vo(Fwp)(Fpp)(Fpw1)	96,019 gal	98,024 gal				

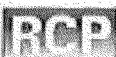
Combined Pipe

Sum:	Vo	203,558.60 gal	Vip1	204,278.88 gal	Vip2	204,233.38 gal
		28,055,501 oz.		28,147,897 oz.		26,141,873 oz.



Pipe Segment Volume Allowance Calculations

Company	Pacific Gas and Electric Company				Job Number	41474079		
Construction Co.	Snaison				Job Number	41474053-T51		
Hydro. Test Co.	Milbar Hydro-test Incorporated				Project No.	FY12-112		
Test Section	PG&E T-51 Line 300A MP 121.87 - 122.68					WATER		
File Name	RCP 81382 - T-51, L-300A							
General Pipe Data								
Description	1	2	3	4	Segment			
Restrained or Unrestrained?	Restrained	Restrained	Unrestrained	Unrestrained				
Outside Diameter	34.000 in.	34.000 in.	34.000 in.	34.000 in.				
Wall Thickness	0.313 in.	0.409 in.	0.375 in.	0.500 in.				
Inside Diameter	33.375 in.	33.062 in.	33.250 in.	33.000 in.				
Spec./Grade	API5L-X62	API5L-X60	API5L-X60	API5L-X60				
Length Unstrained			203.00 ft	22 ft				
Length Restrained	2,105 ft	2,102 ft						
Temperature - On Test	78 °F	78 °F	68 °F	68 °F				
Temperature - End of Test	79 °F	79 °F	69 °F	69 °F				
Pressure - On Test	909 psig	909 psig	809 psig	909 psig				
Pressure - End of Test	909 psig	909 psig	809 psig	909 psig				
Unrestrained Pipe								
Sum:	V _o	10,134.17 gal 1,297,174 oz.		V _{p1}	10,188.98 gal 1,304,190 oz.	V _{p2}	10,187.89 gal 1,304,049 oz.	
V _o Unrestrained			9,157 gal	977 gal				
Fwp 1			1.002785	1.002785				
Fpp 1			1.003358	1.002500				
Fpt 1			1.000146	1.000146				
Fwt 1			1.000803	1.000803				
Fpwt 1 = Fpt/Fwt			0.999343	0.999343				
V _{p1} = V _o (Fwp)(Fpp)(Fpwt)			9,205.97 gal	982.01 gal				
Fwp 2			1.002785	1.002785				
Fpp 2			1.003358	1.002500				
Fpt 2			1.000164	1.000164				
Fwt 2			1.000929	1.000929				
Fpwt 2 = Fpt/Fwt			0.999236	0.999236				
V _{p2} = V _o (Fwp)(Fpp)(Fpwt)			9,205.98 gal	981.91 gal				
Restrained Pipe								
Sum:	V _o	193,424.43 gal 24,758,327 oz.		V _{p1}	194,079.15 gal 24,842,131 oz.	V _{p2}	194,056.44 gal 24,830,225 oz.	
V _o Restrained		95,085 gal	97,759 gal					
Fwp 1		1.002785	1.002785					
Fpp 1		1.003010	1.002039					
Fpt 1		1.000218	1.000218					
Fwt 1		1.002122	1.002122					
Fpwt 1 = Fpt/Fwt		0.998100	0.998100					
V _{p1} = V _o (Fwp)(Fpp)(Fpwt)		98,037 gal	98,042 gal					
Fwp 2		1.002785	1.002785					
Fpp 2		1.003013	1.002012					
Fpt 2		1.000230	1.000230					
Fwt 2		1.002255	1.002255					
Fpwt 2 = Fpt/Fwt		0.997979	0.997979					
V _{p2} = V _o (Fwp)(Fpp)(Fpwt)		98,026 gal	98,030 gal					
Combined Pipe								
Sum:	V _o	208,558.00 gal 25,055,501 oz.		V _{p1}	204,266.13 gal 26,148,321 oz.	V _{p2}	204,244.33 gal 26,143,274 oz.	
1 °F Change		23.81 gal	3,017.20 oz.					

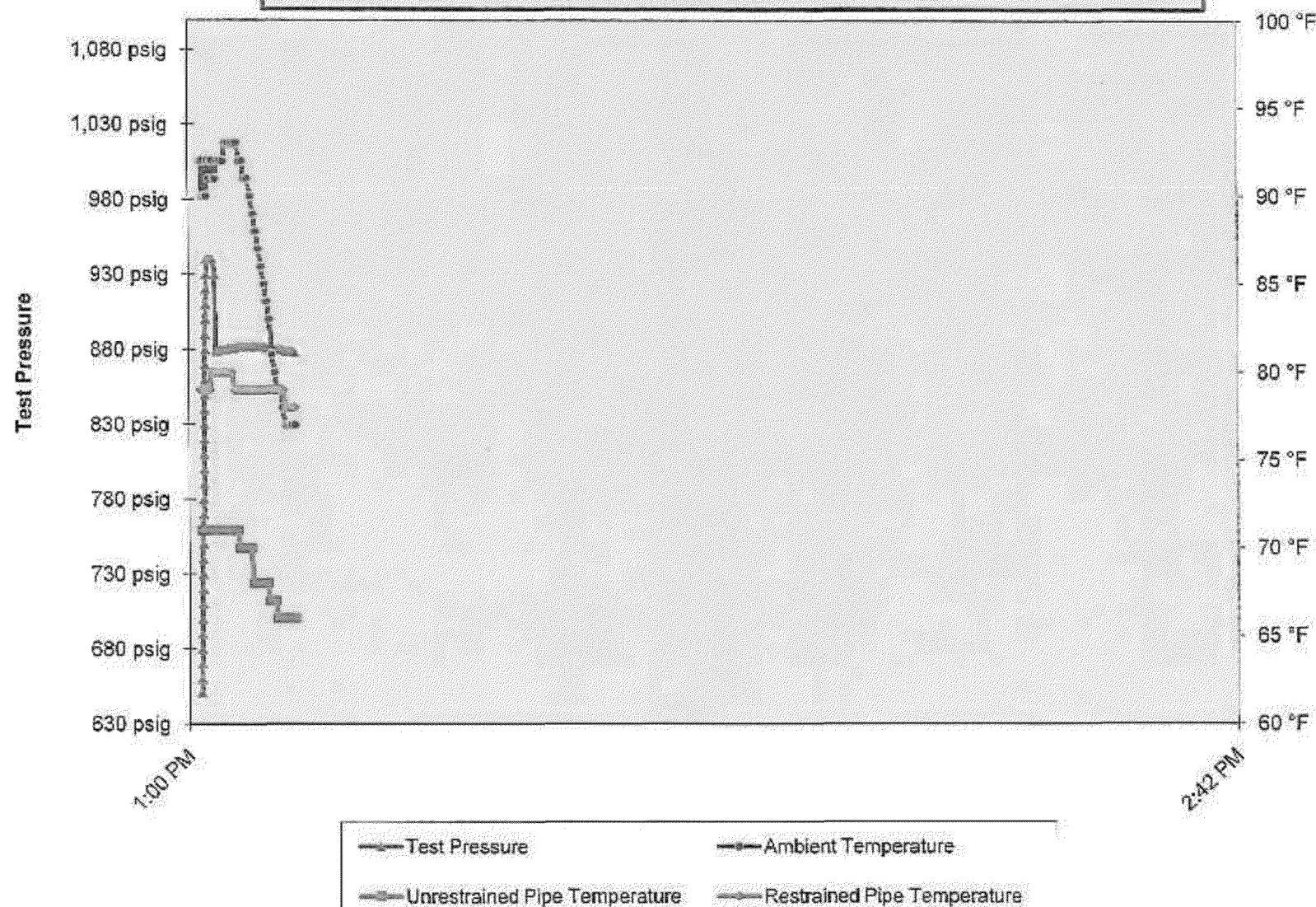


Hydrostatic Test Pipe Data Table

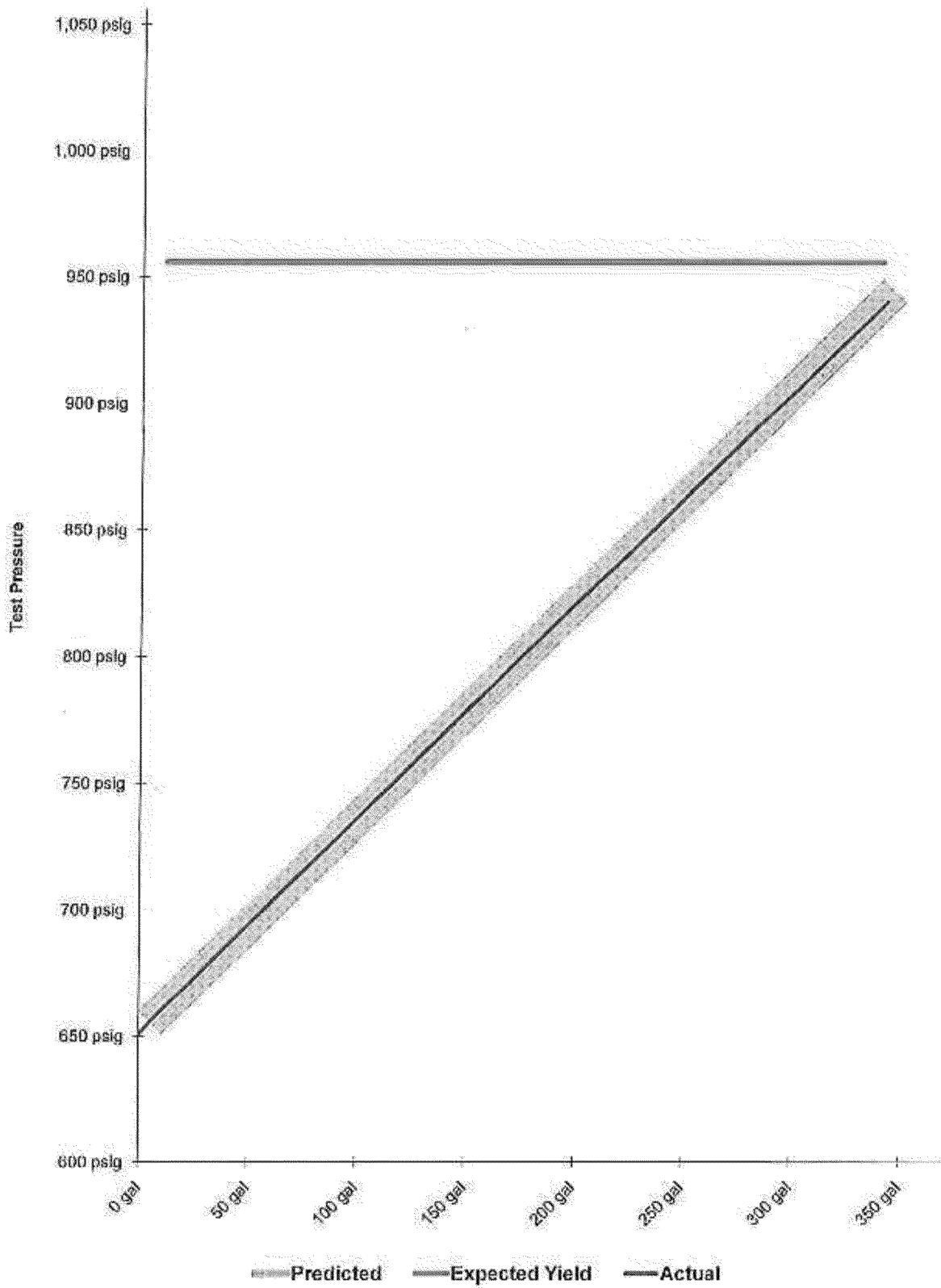
Pipe Type	Length	Restrained / Unrestrained	Outside Diameter	Wall Thickness	Specification & Grade	Pipe Yield Pressure	Material	Joint Type	Seam Type
1	2,105 ft	Restrained	34.000 in.	0.3125 in.	API5L-X52	956 psig	Steel	Arc Weld	DSAW
2	2,192 ft	Restrained	34.000 in.	0.4690 in.	API5L-X60	1,655 psig	Steel	Arc Weld	DSAW
3	203 ft	Unrestrained	34.000 in.	0.3750 in.	API5L-X60	1,324 psig	Steel	Arc Weld	DSAW
4	22 ft	Unrestrained	34.000 in.	0.5000 in.	API5L-X60	1,765 psig	Steel	Arc Weld	DSAW

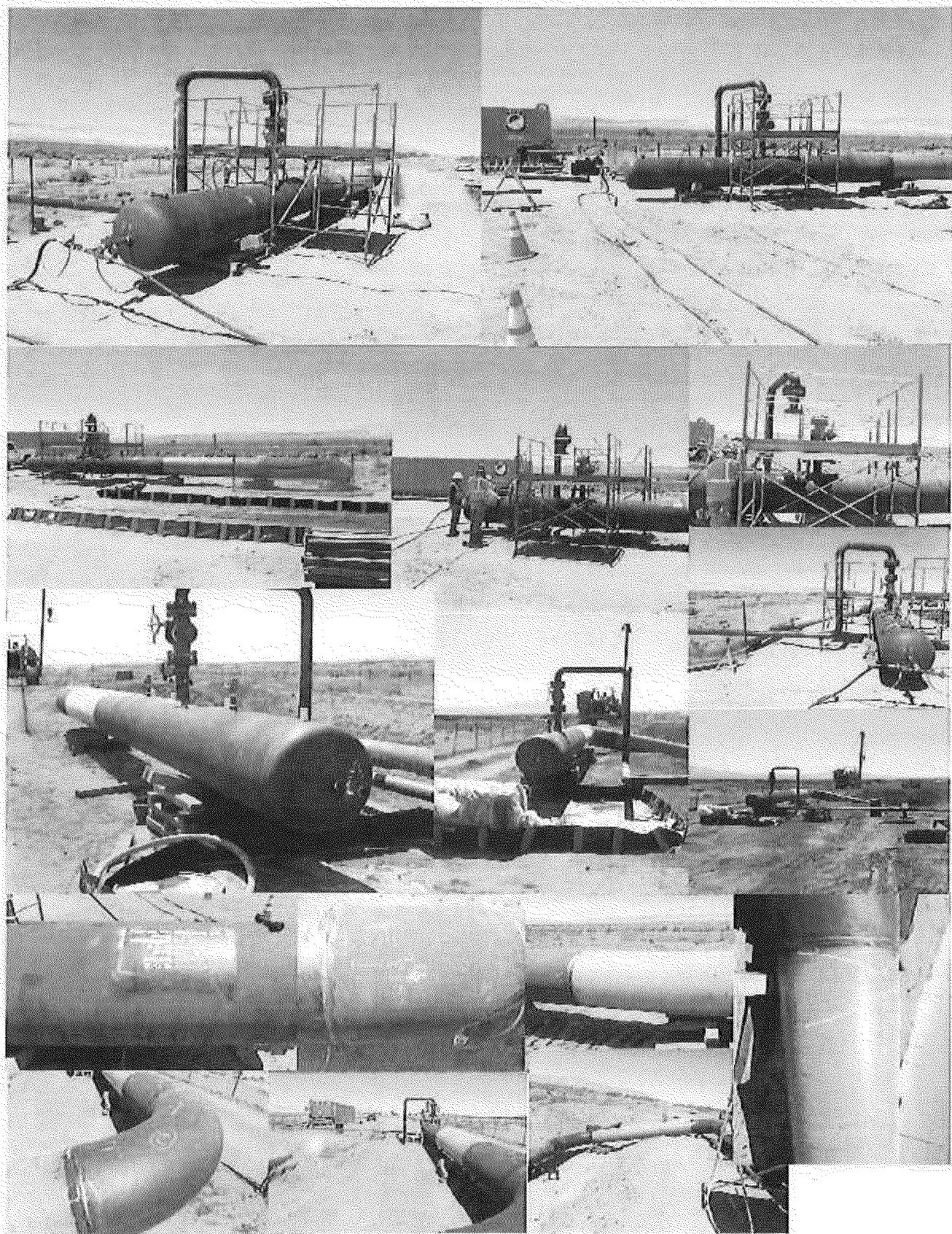
Hydrostatic Test Project Owner & Participants

Owner Company	Pacific Gas and Electric Company 3600 Adobe Rd	Job Number
Address	Petaluma, Ca 94954 Attention: Joel Mannie	41474079
Construction Company	Snelson	Job Number
Address	601 West State Street Sedro-Woolley, WA 98284 Attention: Redacted	41474053-T51
Hydrostatic Test Co.	Milbar Hydro-test Incorporated P. O. Box 7701 Shreveport, Louisiana 71137-7701 Attention: Redacted	Project No. FY12-112
Test Section	PG&E T-51 Line 300A MP 121.87 - 122.68 From: MP 121.87 To: MP 122.68	
File Name	RCP 61362 - T-51, L-300A	

RCP**PG&E T-51 Line 300A MP 121.87 - 122.68**

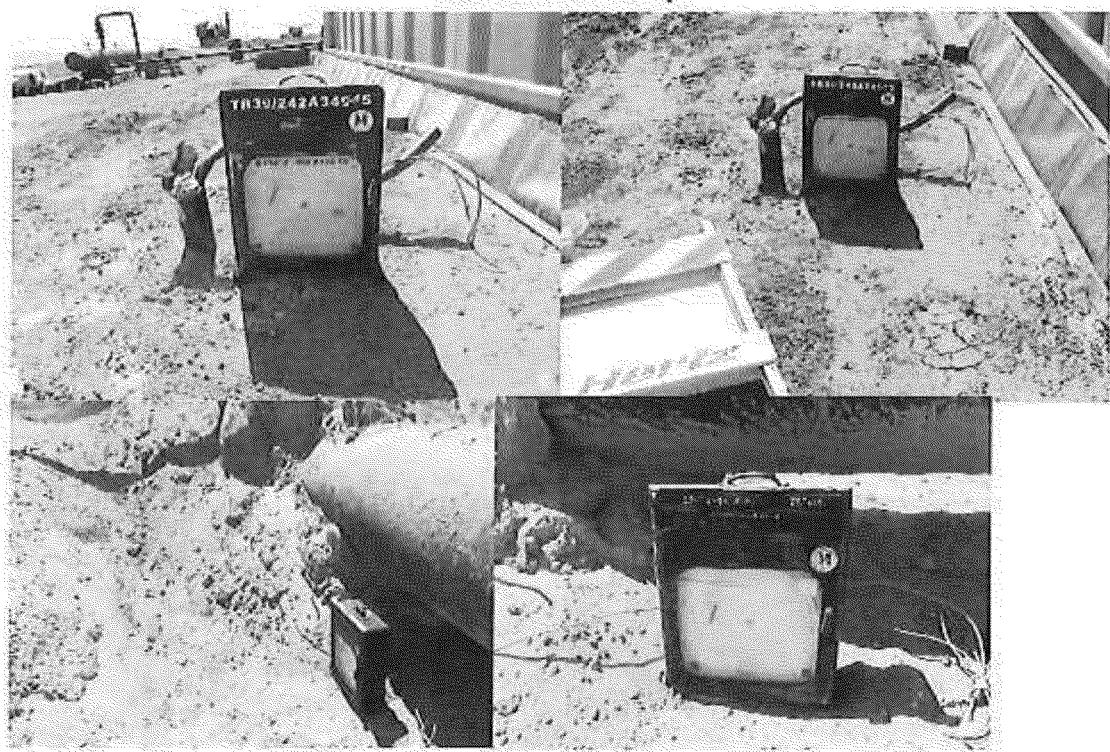
Spike Pressure Test
Stress Strain Curve -- PG&E T-51 Line 300A MP 121.87 - 122.68

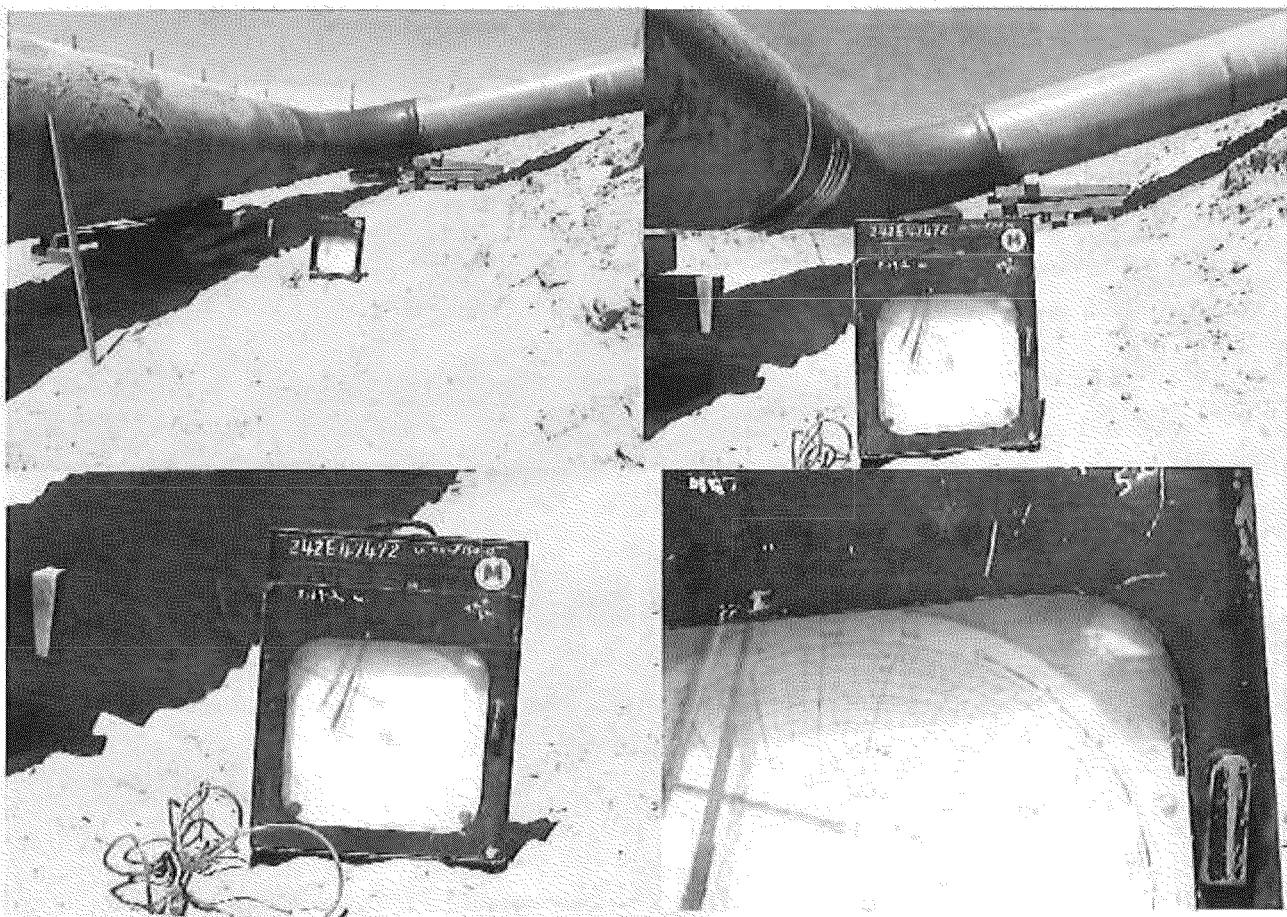


**Exposed Test Headers and Piping**



Test Pressure Pump



Buried Pipe Temperature Recorders**Exposed Pipe Temperature Recorder****Deadweight and Pressure recording Chart**



STROKE / PRESSURE LOG

Date: 6/8/11
Page: 1 of 2

Company & Contractor:		PG&E	/	SNELSON	Project:		PG&E Hydro Test Existing Lines				
Contract Number:	FY12-112	Location:		Hinkley California	Pipe Description:	34	" O.D.	0.313	" W.T.	X-52	Grade
Section Number(s):	51	From:	MP/STA	/ 42+97	To:	MP/STA	/ 0+00	Length:		0.81 MI.	
Pressure Unit Location:		Sta. #4297		Pressure Unit Number:	PT930		Gallons/Stroke:				0.551
Date & Time Start Pump:		6/8/11 2:07 PM		Pressure:	650		Date & Time Stop Pump:	6/8/11 2:38 PM		Pressure:	
Time	Pressure (psig)	Strokes	Difference		Time	Pressure (psig)	Strokes	Difference			
2:07 PM	650	0	0		2:38 PM	940	624	22			
2:08 PM	660	18	18								
2:09 PM	670	40	22								
2:10 PM	680	61	21								
2:11 PM	690	82	21								
2:12 PM	700	104	22								
2:14 PM	710	125	21								
2:15 PM	720	147	22								
2:16 PM	730	169	22								
2:17 PM	740	190	21								
2:18 PM	750	212	22								
2:19 PM	760	233	21								
2:20 PM	770	255	22								
2:21 PM	780	276	21								
2:22 PM	790	298	22								
2:23 PM	800	318	21								
2:24 PM	810	341	22								
2:25 PM	820	362	21								
2:26 PM	830	384	22								
2:27 PM	840	407	23								
2:28 PM	850	428	21								
2:29 PM	860	450	22								
2:30 PM	870	471	21								
2:31 PM	880	493	22								
2:32 PM	890	514	21								
2:34 PM	900	537	23								
2:35 PM	910	559	22								
2:36 PM	920	580	21								
2:37 PM	930	602	22								

Log Continued: Yes No

Remarks:

Redacted

62-58-11
Data

Redacted

62-58-11
Data

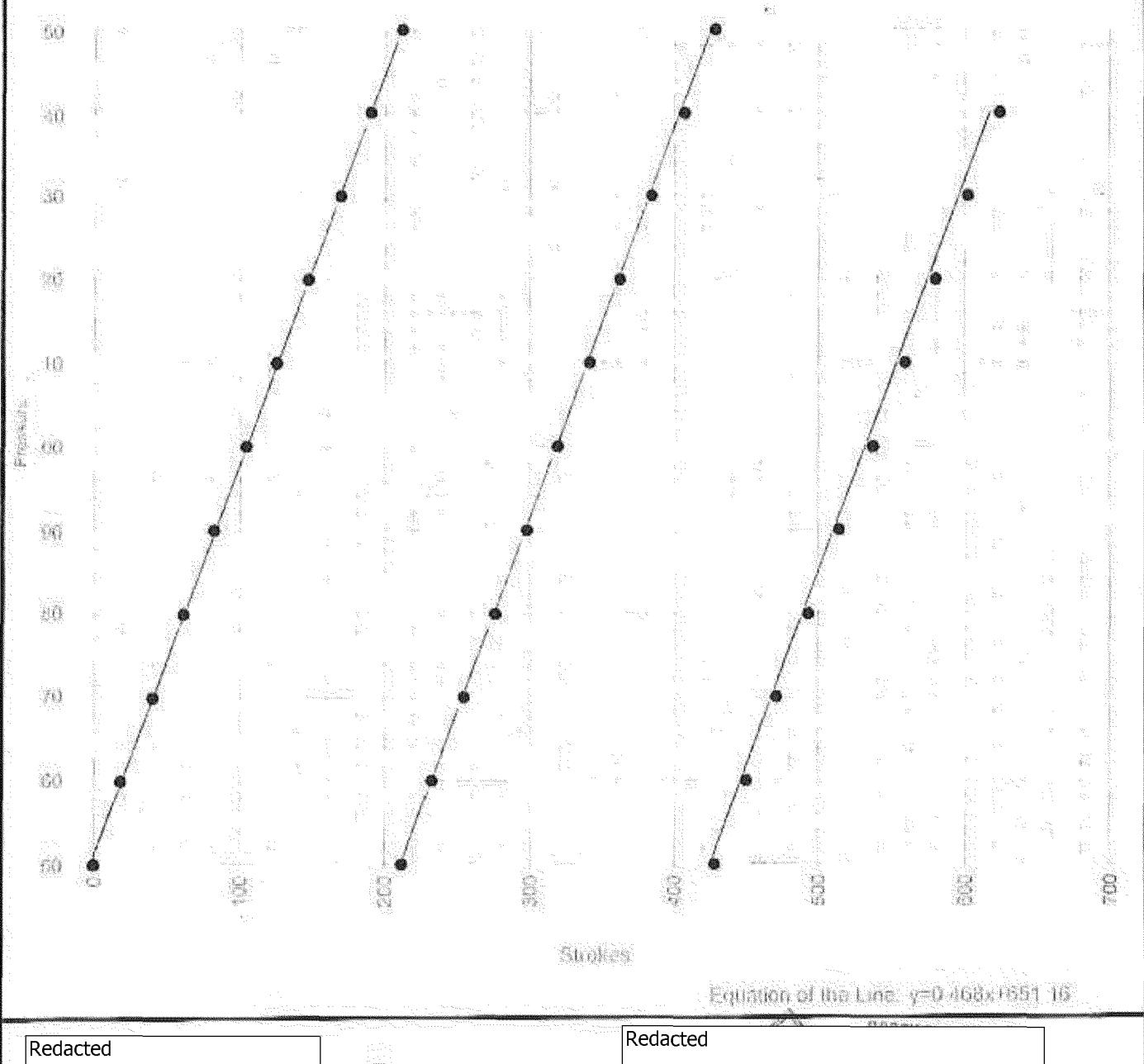


STROKE / PRESSURE PLOT

Date: 06/08/11

Page: 2 of 2

Company & Contractor:		PG&E	/	SNELSON	Project:	PG&E Hydro Test Existing Lines			
Contract Number:	FY12-112	Location: Hinkley California			Pipe Description:	34	"O.D.	0.313	"W.T X-52 Grade
Section Number(s):	51	From: MP/STA / 42+97			To: MP/STA	/ 0+00			Length: 0.81
Low Sta:	42+97	Ele:	17910	High Sta:	0+00	Ele:	18040	Total Gallons Pumped:	344
Stress:	51136 psi/98.3 %	Stress:	50829 psi/97.7 %					Gallons/Stroke:	0.551
Begin Sta:	42+97	Ele:	17910	End Sta:	0+00	Ele:	18040	Strokes/PSI:	2.15
Stress:	51136 psi/98.3 %	Stress:	50829 psi/97.7 %					Gallons/PSI:	1.19
TS Sta:	42+97	Ele:	17910	Deviation: Gals Per Mile:	3.75 Gallons			Strokes/Min:	20.13
Stress:	51136 psi/98.3 %			Per Mile:	4.61 Gals/Mile			PSI/Min:	9.35



Redacted

Redacted

C-A-2011
Date



TEST LOG

Date: 6/8/2011

Page: 1 of 1

Company / Contractor:		PG&E	/ SNELSON		Project: PG&E Hydro Test Existing Lines								
Contract Number:	FY12-112	Location:		Hinkley California		Pipe Description:	34	* O.D.	0.3126	* W.T.	X-52	Grade	
Section Number(s):	51	From:		/ 42+97		To:	MP/STA	/ 00+00	Length:			0.81 Mi.	
Pressure Unit Location:	Sta. #4297	Pressure Unit #:		PT930		Gallons / Stroke:	0.551	Strokes / 10psi:			21.62		
Test Pressure Maximum:	893 psi	Test Pressure Minimum:		867 psi		Test Medium:	water	Weather:			sunny hot		
Instruments	Dead Weight Gauge	Pressure		Temperature (Ambient)		Temperature (Pipe)		Temperature (Ground)			TEMP #52		
Range	50-3000 #	0-3000		-40 -140		-20 - 120		-20 - 120			0 - 150		
Manufacturer	CHANDLER	CHESSELL		CHESSELL		CHESSELL		CHESSELL			BARTON		
Serial #	6106	04042809		04042809		04042809		04042809			242E-47		
Certification	5/19/2011	5/20/2011		5/20/2011		5/20/2011		5/20/2011			5/18/2011		
Date / Time Test Started:	6/8/2011	/ 2:38 PM		Date / Time Test Ended: 6/8/2011 / 10:38 PM									
Date	Time	Pressure (psig)	Temperature (°F)			Remarks	Date	Time	Pressure (psig)	Temperature (°F)			Remarks
			Ambient	Pipe	Ground					Ambient	Pipe	Ground	
6/8/2011	10:15 AM	123	82	78	78		6/8/2011	6:15 PM	882	91	79	76	
6/8/2011	12:35 PM	126	89	78	76	Start Pump	6/8/2011	6:30 PM	882	91	79	76	
6/8/2011	1:07 PM	650	88	78	76	Stop Pump	6/8/2011	6:45 PM	882	90	79	76	
6/8/2011	1:22 PM	650	90	79	76		6/8/2011	7:00 PM	882	89	79	76	
6/8/2011	1:38 PM	651	89	79	76		6/8/2011	7:15 PM	882	88	79	76	
6/8/2011	1:51 PM	651	90	79	76		6/8/2011	7:45 PM	882	86	79	76	
6/8/2011	2:07 PM	651	89	79	76	Start Pump	6/8/2011	8:00 PM	882	85	79	76	
6/8/2011	2:38 PM	940	90	79	76	On Spike Test	6/8/2011	8:15 PM	881	84	79	76	
6/8/2011	2:48 PM	940	92	79	76		6/8/2011	8:30 PM	881	83	79	76	
6/8/2011	2:58 PM	940	91	79	76		6/8/2011	8:45 PM	881	81	79	76	
6/8/2011	3:08 PM	940	92	80	76	Off Spike Test	6/8/2011	9:00 PM	880	80	79	76	
6/8/2011	3:13 PM	940	92	80	76	Bleed Is Test	6/8/2011	9:15 PM	880	79	79	76	
6/8/2011	3:25 PM	930	91	80	76		6/8/2011	9:30 PM	880	79	79	76	
6/8/2011	3:31 PM	879	91	80	76	On Test	6/8/2011	9:45 PM	880	78	79	76	
6/8/2011	3:45 PM	879	92	80	76		6/8/2011	10:00 PM	879	77	78	76	
6/8/2011	4:00 PM	880	93	80	76		6/8/2011	10:15 PM	879	77	78	76	
6/8/2011	4:15 PM	880	93	80	76		6/8/2011	10:30 PM	879	77	78	76	
6/8/2011	4:30 PM	880	93	80	76		6/8/2011	10:45 PM	879	77	78	76	
6/8/2011	4:45 PM	881	93	80	76		6/8/2011	10:53 PM	878	77	78	76	
6/8/2011	5:00 PM	881	93	79	76								
6/8/2011	5:15 PM	881	93	79	76								
6/8/2011	5:30 PM	882	93	79	76								
6/8/2011	5:45 PM	882	92	79	76								
6/8/2011	6:00 PM	882	92	79	76		Log Continued: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						

Remarks: TR#39 0-150 barton 242a-34945 6/18/2011 TR#103 0-150 barton 242e218022 6/18/2011 PR#15 0-3000 239674 6/18/2011 3:26 bleed 10 lbs for t3

Bleed valves 3-11 650-525 551-570

Section Accepted Yes P-V Plot Yes Section Ruptured Yes Section Leaking Yes

Redacted

Redacted

Author Representative

Date