



RCP, Inc

801 Louisiana, Ste.200  
Houston, Texas 77002

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Redacted

October 23, 2011

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

Test Contractor: AKRI – T-24 10/23/11  
Asset Owner: Pacific Gas and Electric Company – 41497359  
Construction Contractor: ARB – 0629-53-3500 T-24  
Test Section: PG&E T-24 , L-132 , MP 0.945 - 1.88  
Test Date: October 23, 2011  
Certificate Number: RCP 61362 - T-24, L-132, MP 0.945 - 1.88

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 AKRI 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 751 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 8.25 hour test duration period.

This hydrostatic test was completed successfully. Pressure was maintained on the test facilities in excess of 8.25 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 705 psig and the MAOP per 49 CFR Part 192, Subpart J can be as high as 470 psig. The MAOP established by this test is sufficient to qualify for Pacific Gas and Electric Company's desired MAOP of 400 psig.

Pressure decreased 43 psi during the test. 5,856.00 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 410.36 ounces, gain, which is equivalent to a 0.57 °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

cc. file



## Hydrostatic Test Certification

Company	Pacific Gas and Electric Company	Job Number	41497359
Construction Co.	ARB	Job Number	0629-53-3500 T-24
Hydro Test Co.	AKRI	Project No.	T-24 10/23/11
Test Section	PG&E T-24 , L-132, MP 0.945 - 1.88		
File Name	RCP 61362 - T-24, L-132, MP 0.945 - 1.88		

### Hydrostatic Test Pressure

APPLICABLE CODE FOR CERTIFICATION: **Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 3)** Test Date: **23-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-24 , L-132, MP 0.945 - 1.88	From:	51+07	To:	0+00
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### Pipe Data

Segment	Length	Diameter	Wall Thickness	Specification	100% SMYS
1	50 ft	24.000 in.	0.375 in.	API5L-X60, DSAW, Arc Weld, Steel	1,875 psi
2	4,937 ft	24.000 in.	0.281 in.	40ksmys, OTH, Arc Weld, Steel	937 psi
3	17 ft	24.000 in.	0.313 in.	API5L-X60, DSAW, Arc Weld, Steel	1,583 psi
4	112 ft	24.000 in.	0.313 in.	API5L-X52, DSAW, Arc Weld, Steel	1,354 psi
5	49 ft	24.000 in.	0.344 in.	API5L-X42, DSAW, Arc Weld, Steel	1,204 psi
6	22 ft	24.000 in.	0.500 in.	API5L-X65, DSAW, Arc Weld, Steel	2,708 psi

### Initial Test Conditions

Pressure at Test Point:		Date/Time:	Pipe Temperature		
Ambient Temperature:	53.0 °F		Unrestrained:	58.0 °F	
Pressure @ High Point (Cal/Measure):	748 psig	Elevation @ Test Point:	14.0 ft	Restrained:	55.0 °F
Pressure @ Low Point (Cal/Measure):	751 psig	Elevation @ High Point:	22.0 ft	Location:	0+00
		Elevation @ Low Point:	14.0 ft	Location:	51+07

### Final Test Conditions

Pressure at Test Point:		Date/Time:	Pipe Temperature		
Ambient Temperature:	79.0 °F		Unrestrained:	70.0 °F	
Pressure @ High Point (Cal/Measure):	705 psig	Elevation @ Test Point:	14.0 ft	Restrained:	57.0 °F
Pressure @ Low Point (Cal/Measure):	708 psig	Elevation @ High Point:	22.0 ft	Location:	51+07
Total Fluid Injected:		Elevation @ Low Point:	14.0 ft	Location:	0+00
Total Fluid Withdrawn:	5856.00 fluid ounces			Volume gain	
Net Change in Volume of the Test Section ± (+Gain, -Loss):	410.36 oz	gain	0.0027%	0.585 °F equivalent	

Test Duration: **8.25 hours**

Minimum Test Pressure:	Test Point	700 psig	Max Elevation	697 psig	Min Elevation	700 psig
Maximum Test Pressure:		751 psig		748 psig		751 psig
% SMYS:				47.8%		80.2%
Test Segment Observed % SMYS:			Minimum	27.7%	Maximum	80.2%
				Minimum Test Pressure (Calculated/Measured):		705 psig
				Maximum Allowable Operating Pressure:	DOT Part 192	Test Factor= 1.50
						470 psig

The MAOP established by this test is sufficient to qualify for Pacific Gas and Electric Company's desired MAOP of 400 psig.

Were leaks observed?	No	Explain:
Acceptable Hydrostatic Test?	Yes	<p>The test segment was subjected to a spike pressure test of 751 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 8.25 hour test duration period.</p> <p>No leaks were observed during the test period. The test section included 5,115 feet of buried and 72 feet of exposed pipe. Pressure lost 43 psi during the test. The buried pipe segment gained 2°F fluid temperature and the exposed pipe segment gained 12°F.</p> <p>5,856.00 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 410.36 ounces, gain, which is equivalent to a 0.57 °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	

23-Oct-11



## Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	41497359
Construction Co.	ARB	Job Number	0629-53-3500 T-24
Testing Co.	AKRI	Project No.	T-24 10/23/11
Test Section	PG&E T-24 , L-132 , MP 0.945 - 1.88		
File Name	RCP 61362 - T-24, L-132, MP 0.945 - 1.88		

Log No.	Test Period		Test Pressure	Temperature °F			Remarks			
	Date	Time		Ambient	Pipe					
				Unrestrained	Restrained		Comment	Bleed	Inject	
1	10/23/11	7:36 AM	512 psig	52 °F	58 °F	55 °F	Start Spike			
2	10/23/11	7:36 AM	522 psig	52 °F	58 °F	55 °F	Inject		952 oz.	
3	10/23/11	7:37 AM	532 psig	52 °F	58 °F	55 °F	Inject		971 oz.	
4	10/23/11	7:38 AM	542 psig	52 °F	58 °F	55 °F	Inject		1,045 oz.	
5	10/23/11	7:39 AM	552 psig	52 °F	58 °F	55 °F	Inject		803 oz.	
6	10/23/11	7:40 AM	562 psig	52 °F	58 °F	55 °F	Inject		915 oz.	
7	10/23/11	7:41 AM	572 psig	52 °F	58 °F	55 °F	Inject		1,008 oz.	
8	10/23/11	7:42 AM	582 psig	52 °F	58 °F	55 °F	Inject		952 oz.	
9	10/23/11	7:43 AM	592 psig	52 °F	58 °F	55 °F	Inject		933 oz.	
10	10/23/11	7:44 AM	602 psig	52 °F	58 °F	55 °F	Inject		1,008 oz.	
11	10/23/11	7:45 AM	612 psig	52 °F	58 °F	55 °F	Inject		896 oz.	
12	10/23/11	7:46 AM	622 psig	52 °F	58 °F	55 °F	Inject		915 oz.	
13	10/23/11	7:47 AM	632 psig	52 °F	58 °F	55 °F	Inject		989 oz.	
14	10/23/11	7:48 AM	642 psig	52 °F	58 °F	55 °F	Inject		915 oz.	
15	10/23/11	7:49 AM	652 psig	52 °F	58 °F	55 °F	Inject		1,027 oz.	
16	10/23/11	7:50 AM	662 psig	52 °F	58 °F	55 °F	Inject		952 oz.	
17	10/23/11	7:51 AM	672 psig	52 °F	58 °F	55 °F	Inject		933 oz.	
18	10/23/11	7:52 AM	682 psig	52 °F	58 °F	55 °F	Inject		1,027 oz.	
19	10/23/11	7:53 AM	692 psig	52 °F	58 °F	55 °F	Inject		877 oz.	
20	10/23/11	7:54 AM	702 psig	52 °F	58 °F	55 °F	Inject		989 oz.	
21	10/23/11	7:55 AM	712 psig	52 °F	58 °F	55 °F	Inject		1,008 oz.	
22	10/23/11	7:56 AM	722 psig	53 °F	58 °F	55 °F	Inject		933 oz.	
23	10/23/11	7:57 AM	732 psig	53 °F	58 °F	55 °F	Inject		933 oz.	
24	10/23/11	7:58 AM	742 psig	53 °F	58 °F	55 °F	Inject		1,027 oz.	
25	10/23/11	7:59 AM	751 psig	53 °F	58 °F	55 °F	Inject		933 oz.	
26	10/23/11	8:00 AM	751 psig	53 °F	58 °F	55 °F	On Test			
27	10/23/11	8:10 AM	751 psig	53 °F	58 °F	55 °F				
28	10/23/11	8:20 AM	751 psig	55 °F	59 °F	55 °F				
29	10/23/11	8:30 AM	751 psig	57 °F	59 °F	55 °F	End Spike			
30	10/23/11	8:33 AM	741 psig	59 °F	59 °F	55 °F	Bleed		960 oz.	
31	10/23/11	8:36 AM	731 psig	59 °F	59 °F	55 °F	Bleed		960 oz.	
32	10/23/11	8:39 AM	721 psig	59 °F	59 °F	55 °F	Bleed		960 oz.	
33	10/23/11	8:41 AM	711 psig	59 °F	59 °F	55 °F	Bleed		960 oz.	
34	10/23/11	8:43 AM	701 psig	59 °F	59 °F	55 °F	Bleed		960 oz.	
35	10/23/11	8:45 AM	700 psig	59 °F	59 °F	55 °F	Bleed		96 oz.	
36	10/23/11	9:00 AM	700 psig	60 °F	59 °F	55 °F				
37	10/23/11	9:15 AM	701 psig	61 °F	59 °F	55 °F	Sun Shine			
38	10/23/11	9:30 AM	701 psig	62 °F	59 °F	55 °F				
39	10/23/11	9:45 AM	702 psig	65 °F	59 °F	55 °F				
40	10/23/11	10:00 AM	703 psig	69 °F	60 °F	55 °F				
41	10/23/11	10:15 AM	705 psig	67 °F	61 °F	55 °F				
42	10/23/11	10:30 AM	706 psig	71 °F	61 °F	55 °F				
43	10/23/11	10:45 AM	707 psig	72 °F	62 °F	56 °F	Sun Shine			
44	10/23/11	11:00 AM	708 psig	72 °F	62 °F	56 °F				
45	10/23/11	11:15 AM	708 psig	75 °F	63 °F	56 °F	Clear			
46	10/23/11	11:30 AM	708 psig	78 °F	64 °F	56 °F				
47	10/23/11	11:45 AM	709 psig	76 °F	65 °F	56 °F				



## Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company					Job Number	41497359		
Construction Co.	ARB					Job Number	0629-53-3500 T-24		
Testing Co.	AKRI					Project No.	T-24 10/23/11		
Test Section	PG&E T-24 , L-132 , MP 0.945 - 1.88								
File Name	RCP 61362 - T-24, L-132, MP 0.945 - 1.88								
Date 23-Oct-11			<b>Test Log</b>						
Log No.	Test Period		Test Pressure	Temperature °F			Remarks		
	Date	Time		Ambient	Pipe				
				Unrestrained	Restrained	Comment	Bleed	Inject	
48	10/23/11 12:00 PM	709 psig	76 °F	66 °F	56 °F				
49	10/23/11 12:15 PM	710 psig	79 °F	67 °F	56 °F				
50	10/23/11 12:30 PM	710 psig	80 °F	67 °F	56 °F	Sun Shine			
51	10/23/11 12:45 PM	711 psig	81 °F	68 °F	56 °F				
52	10/23/11 1:00 PM	702 psig	80 °F	69 °F	56 °F	Clear	960.00 oz.		
53	10/23/11 1:15 PM	702 psig	81 °F	69 °F	56 °F				
54	10/23/11 1:30 PM	703 psig	82 °F	70 °F	56 °F	Sun Shine			
55	10/23/11 1:45 PM	703 psig	81 °F	72 °F	56 °F				
56	10/23/11 2:00 PM	704 psig	81 °F	73 °F	56 °F				
57	10/23/11 2:15 PM	704 psig	82 °F	75 °F	56 °F				
58	10/23/11 2:30 PM	705 psig	81 °F	75 °F	56 °F	Sun Shine			
59	10/23/11 2:45 PM	706 psig	82 °F	74 °F	56 °F				
60	10/23/11 3:00 PM	706 psig	82 °F	74 °F	56 °F	Clear			
61	10/23/11 3:15 PM	706 psig	82 °F	73 °F	56 °F				
62	10/23/11 3:30 PM	707 psig	81 °F	72 °F	56 °F				
63	10/23/11 3:45 PM	708 psig	80 °F	71 °F	56 °F				
64	10/23/11 4:00 PM	708 psig	80 °F	71 °F	57 °F				
65	10/23/11 4:15 PM	708 psig	79 °F	70 °F	57 °F	End of Test			
Spike Test								22,944.0 oz.	
Hydrostatic Test								5,856.0 oz.	
Were leaks observed during the test period?			Exposed and buried pipe, no leaks observed.			High Test Pressure:	751 psig		
						Low Test Pressure:	700 psig		



## Pipe Segment Volume Calculations

Company	Pacific Gas and Electric Company			Job Number	41497359		
Construction Co.	ARB			Job Number	0629-53-3500 T-24		
Hydro. Test Co.	AKRI			Project No.	T-24 10/23/11		
Test Section	PG&E T-24 , L-132 , MP 0.945 - 1.88			WATER			
File Name	PGP 61362 - T-24, L-132, MP 0.945 - 1.88						
General Pipe Data							
Description	Segment						
	1	2	3	4	5	6	
Restrained or Unrestrained?	Unrestrained	Restrained	Restrained	Restrained	Restrained	Unrestrained	
Outside Diameter	24.000 in.	24.000 in.	24.000 in.	24.000 in.	24.000 in.	24.000 in.	
Wall Thickness	0.375 in.	0.281 in.	0.313 in.	0.313 in.	0.344 in.	0.500 in.	
Inside Diameter	23.250 in.	23.438 in.	23.375 in.	23.375 in.	23.312 in.	23.000 in.	
Spec./Grade	API5L-X60	40ksmys	API5L-X60	API5L-X52	API5L-X42	API5L-X65	
Length Unrestrained	50 ft					22 ft	
Length Restrained		4,937 ft	17 ft	112 ft	49 ft		
Temperature - On Test	58 °F	55 °F	55.0 °F	55.0 °F	55.0 °F	58.0 °F	
Temperature - End of Test	70 °F	57 °F	57.0 °F	57.0 °F	57.0 °F	70.0 °F	
Pressure - On Test	751 psig	751 psig	751 psig	751 psig	751 psig	751 psig	
Pressure - End of Test	708 psig	708 psig	708 psig	708 psig	708 psig	708 psig	
Unrestrained Pipe							
Vo	1,577.57 gal	Vtp1	1,584.26 gal	Vtp2	1,582.31 gal		
	201,929 oz.		202,785 oz.		202,536 oz.		
Vo Unrestrained	1,103 gal				475 gal		
Fwp 1	1.002300				1.002300		
Fpp 1	1.001940				1.001439		
Fpt 1	0.999964				0.999954		
Fwt 1	0.999819				0.999819		
Fpwt 1 = Fpt/Fwt	1.000145				1.000145		
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	1,107.59 gal				476.68 gal		
Fwp 2	1.002168				1.002168		
Fpp 2	1.001829				1.001357		
Fpt 2	1.000182				1.000182		
Fwt 2	1.001036				1.001036		
Fpwt 2 = Fpt/Fwt	0.999146				0.999146		
Vtp 2 = Vo(Fwp)(Fpp)(Fpwt)	1,106.21 gal				476.10 gal		
Restrained Pipe							
Vo	114,615.26 gal	Vtp1	115,132.65 gal	Vtp2	115,092.06 gal		
	14,670,754 oz.		14,736,979 oz.		14,731,783 oz.		
Vo Unrestrained	110,653 gal	379 gal	2,497 gal	1,086 gal			
Fwp 1	1.002300	1.002300	1.002300	1.002300			
Fpp 1	1.001882	1.001686	1.001686	1.001526			
Fpt 1	0.999940	0.999940	0.999940	0.999940			
Fwt 1	0.999605	0.999605	0.999605	0.999605			
Fpwt 1 = Fpt/Fwt	1.000335	1.000335	1.000335	1.000335			
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	111,153 gal	381 gal	2,508 gal	1,091 gal			
Fwp 2	1.002168	1.002168	1.002168	1.002168			
Fpp 2	1.001780	1.001596	1.001596	1.001445			
Fpt 2	0.999964	0.999964	0.999964	0.999964			
Fwt 2	0.999749	0.999749	0.999749	0.999749			
Fpwt 2 = Fpt/Fwt	1.000215	1.000215	1.000215	1.000215			
Vtp 2 = Vo(Fwp)(Fpp)(Fpwt)	111,114 gal	380 gal	2,507 gal	1,091 gal			
Combined Pipe							
Vo	116,192.84 gal	Vtp1	116,716.91 gal	Vtp2	116,674.37 gal		
	14,872,683 oz.		14,939,764 oz.		14,934,319 oz.		

C:\Users\Redacted\Documents\PG&E Pressure tests\T-24  
Test 24a

Water Calculations



## Pipe Segment Volume Allowance Calculations

Company Construction Co.	Pacific Gas and Electric Company ARB	Job Number Job Number	41497359 0629-53-3500 T-24			
Hydro. Test Co.	AKRI	Project No.	T-24 10/23/11			
Test Section	PG&E T-24 , L-132 , MP 0.945 - 1.88					
File Name	RCP 61362 - T-24, L-132, MP 0.945 - 1.88		WATER			
General Pipe Data						
Description	Segment					
	1	2	3	4	5	6
Restrained or Unrestrained?	Unrestrained	Restrained	Restrained	Restrained	Restrained	Unrestrained
Outside Diameter	24.000 in.	24.000 in.	24.000 in.	24.000 in.	24.000 in.	24.000 in.
Wall Thickness	0.375 in.	0.281 in.	0.313 in.	0.313 in.	0.344 in.	0.500 in.
Inside Diameter	23.250 in.	23.438 in.	23.375 in.	23.375 in.	23.312 in.	23.000 in.
Spec./Grade	API5L-X60	40ksmys	API5L-X60	API5L-X52	API5L-X42	API5L-X65
Length Unstrained	50 ft					22 ft
Length Restrained		4,937 ft	17 ft	112 ft	49 ft	
Temperature -- On Test	63 °F	55 °F	55 °F	55 °F	55 °F	63 °F
Temperature -- End of Test	64 °F	56 °F	56 °F	56 °F	56 °F	64 °F
Pressure -- On Test	729 psig	729 psig	729 psig	729 psig	729 psig	729 psig
Pressure -- End of Test	729 psig	729 psig	729 psig	729 psig	729 psig	729 psig
Unrestrained Pipe						
Vo	1,577.57 gal	Vtp1	1,583.51 gal	Vtp2	1,583.36 gal	
	201,929 oz.		202,689 oz.		202,671 oz.	
Vo Unrestrained	1,103 gal			475 gal		
Fwp 1	1.002232			1.002232		
Fpp 1	1.001883			1.001397		
Fpt 1	1.000055			1.000055		
Fwt 1	1.000267			1.000267		
Fpwt 1 = Fpt/Fwt	0.999788			0.999788		
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	1,107.05 gal			476.45 gal		
Fwp 2	1.002232			1.002232		
Fpp 2	1.001883			1.001397		
Fpt 2	1.000073			1.000073		
Fwt 2	1.000375			1.000375		
Fpwt 2 = Fpt/Fwt	0.999698			0.999698		
Vtp = Vo(Fwp)(Fpp)(Fpwt)	1,106.95 gal			476.41 gal		
Restrained Pipe						
Vo	114,615.26 gal	Vtp1	115,118.53 gal	Vtp2	115,113.00 gal	
	14,670,754 oz.		14,735,171 oz.		14,734,464 oz.	
Vo Restrained	110,653 gal	379 gal	2,497 gal	1,086 gal		
Fwp 1	1.002232	1.002232	1.002232	1.002232		
Fpp 1	1.001826	1.001636	1.001636	1.001481		
Fpt 1	0.999940	0.999940	0.999940	0.999940		
Fwt 1	0.999605	0.999605	0.999605	0.999605		
Fpwt 1 = Fpt/Fwt	1.000035	1.000035	1.000035	1.000035		
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	111,140 gal	381 gal	2,507 gal	1,091 gal		
Fwp 2	1.002232	1.002232	1.002232	1.002232		
Fpp 2	1.001830	1.001640	1.001640	1.001484		
Fpt 2	0.999952	0.999952	0.999952	0.999952		
Fwt 2	0.999668	0.999668	0.999668	0.999668		
Fpwt 2 = Fpt/Fwt	1.0000283	1.0000283	1.0000283	1.0000283		
Vtp = Vo(Fwp)(Fpp)(Fpwt)	111,134 gal	381 gal	2,507 gal	1,091 gal		
Combined Pipe						
Vo	116,192.84 gal	Vtp1	116,702.03 gal	Vtp2	116,696.36 gal	
	14,872,683 oz.		14,937,860 oz.		14,937,134 oz.	
1 °F Change	5.67 gal		725.79 oz.			

RCP			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	50 ft	Unrestrained	24.000 in.	0.3750 in.	API5L-X60	1,875 psig	Steel	Arc Weld	DSAW	
2	4,937 ft	Restrained	24.000 in.	0.2810 in.	40ksmys	937 psig	Steel	Arc Weld	OTH	
3	17 ft	Restrained	24.000 in.	0.3125 in.	API5L-X60	1,563 psig	Steel	Arc Weld	DSAW	
4	112 ft	Restrained	24.000 in.	0.3125 in.	API5L-X52	1,354 psig	Steel	Arc Weld	DSAW	
5	49 ft	Restrained	24.000 in.	0.3440 in.	API5L-X42	1,204 psig	Steel	Arc Weld	DSAW	
6	22 ft	Unrestrained	24.000 in.	0.5000 in.	API5L-X65	2,708 psig	Steel	Arc Weld	DSAW	
<i>Test head</i>										

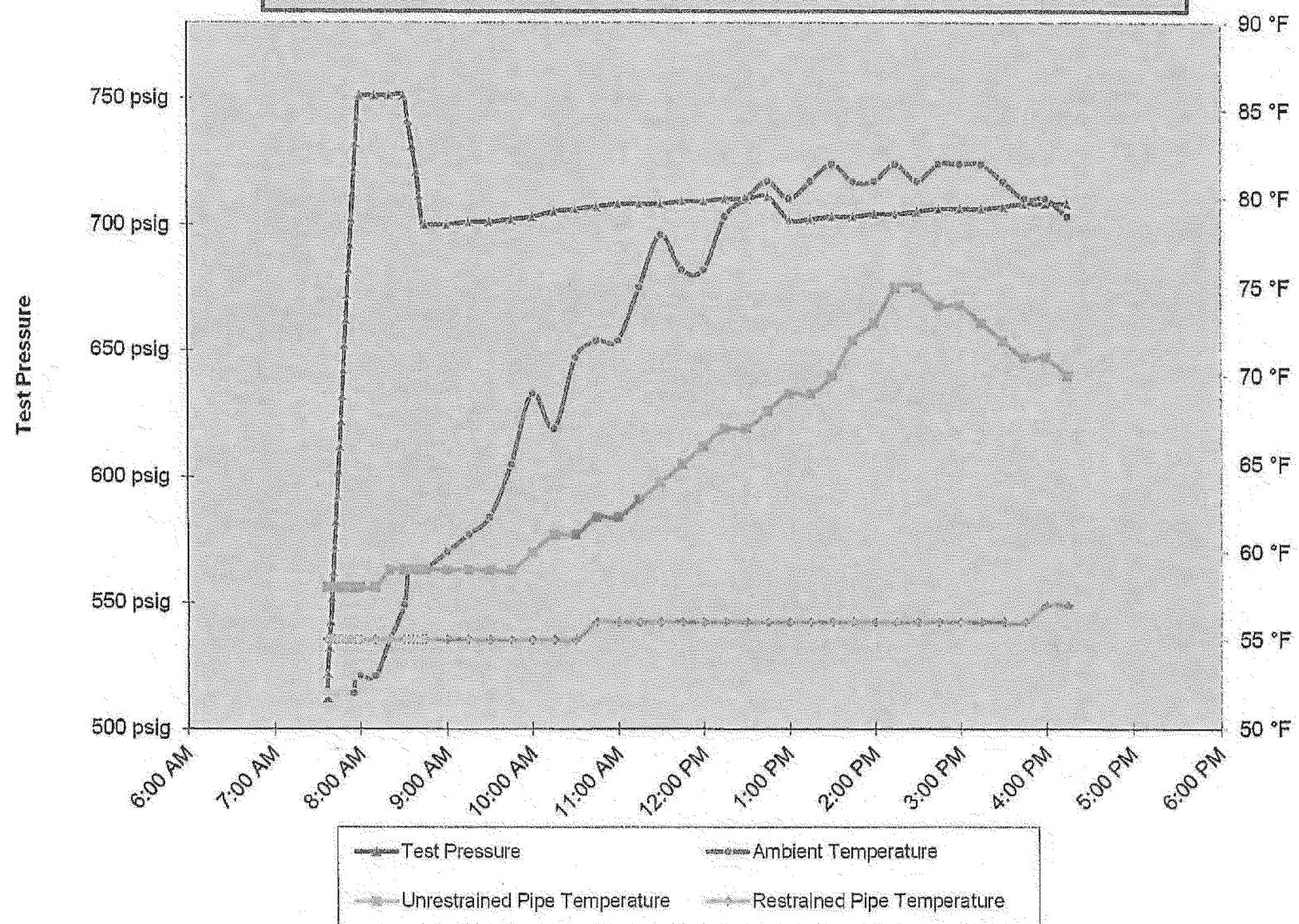
### Hydrostatic Test Project Owner & Participants

Owner Company	Pacific Gas and Electric Company	Job Number
Address	350 N. Wiget Walnut Creek, CA 94598	41497359
	Attention: Redacted	
Construction Company	ARB	Job Number
Address	1875 Loveridge Road Pittsburg, CA 94565	0629-53-3500 T-24
	Attention: Redacted	
Hydrostatic Test Co.	AKRI	Project No.
Address	1414 Vahlhalla Drive Bakersfield, CA 93309	T-24 10/23/11
Test Section	PG&E T-24 , L-132 , MP 0.945 - 1.88 From: 51+07 To: 0+00	
File Name	RCP 61362 - T-24, L-132, MP 0.945 - 1.88	

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	10/23/11 8:00 AM	Elevation at Test Point	14 ft	Min. Required Test Press At Test Point (1)	683.47 psig	Max. Allowable Test Press at Test Point (4)	755.00 psig
Time and Date Test Ended	10/23/11 4:15 PM	Max. Elevation in Test Section	22 ft	Min. Indicated Test Pressure (2)	700.00 psig	Max. Indicated Test Pressure (5)	751.00 psig
Actual Duration of Test	8 hours 15 minutes	Min. Elevation in Test Section	14 ft	Min. Test Pressure at Max. Elevation (3)	696.53 psig	Max. Test Pressure at Min. Elevation (6)	751.00 psig

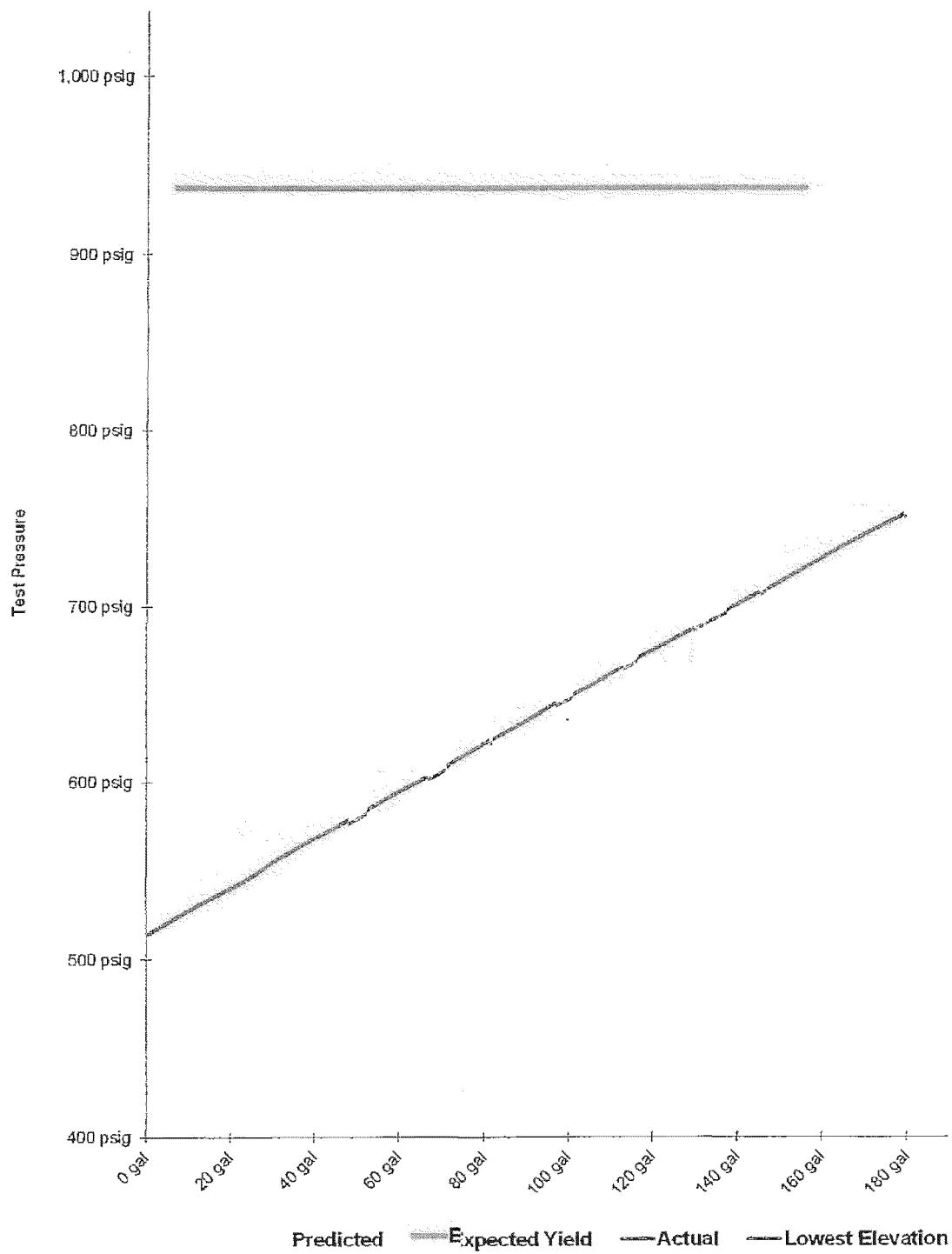
RCF

PG&E T-24 , L-132 , MP 0.945 - 1.88



C:\Users\Redacted\Documents\PG&E Pressure tests\T-24\  
Test 24a  
PlotT

**Spike Pressure Test**  
**Stress Strain Curve -- PG&E T-24 , L-132 , MP 0.945 - 1.88**



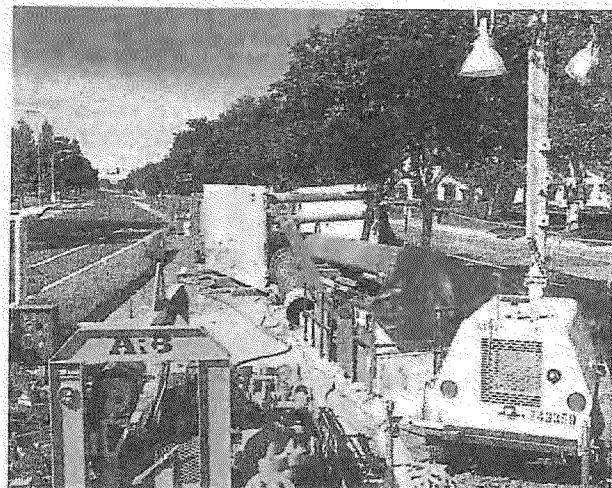


COPY

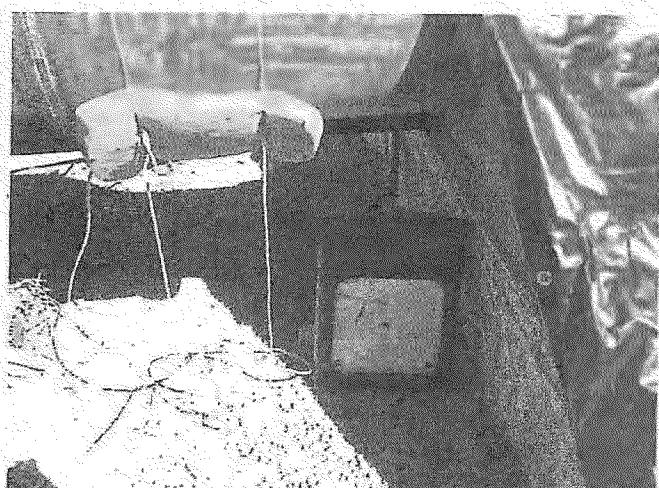
SEP 29 2011

PG&E

**RCP**



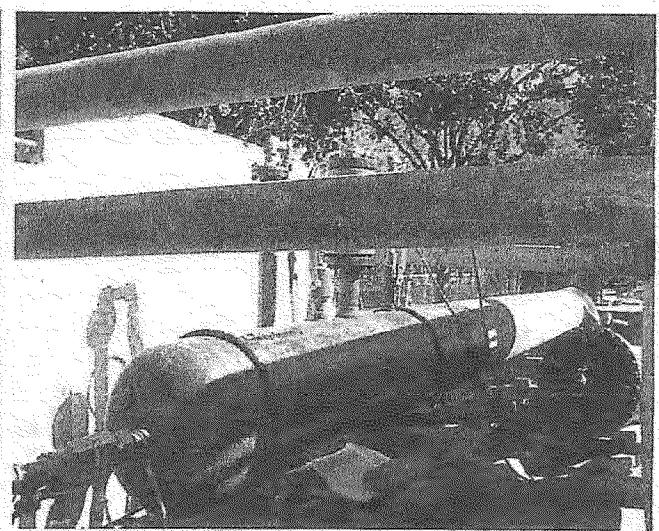
**Test Header Location A**



**Unrestrained Temp Recorder and Chart**



**Test Header Location A**

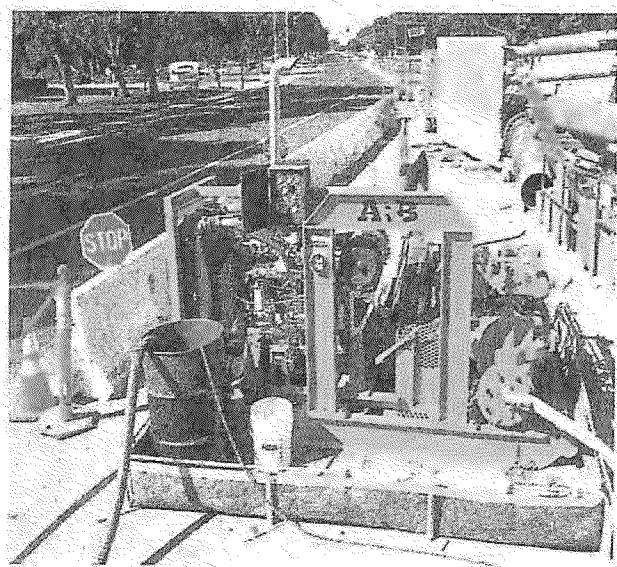


**Test Header, Test Tree**

**COPY**

**SEP 29 2011**

**PG&E**



**Pressure Pump**



**Restrained Temp Recorder and Chart**



**COPY**  
**SEP 29 2011**  
**PG&E**

**Deadweight Tester and Pressure Recorder**