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

Test Contractor:	Contra Costa Inspection Company -- PG&E 5-12-11
Asset Owner:	Pacific Gas and Electric Company -- 41474079
Construction Contractor:	ARB -- 0629-53C
Test Section:	PG&E Line 132A T- 41
Test Date:	May 12, 2011
Certificate Number:	RCP 61362 - 41

To whom it may concern,

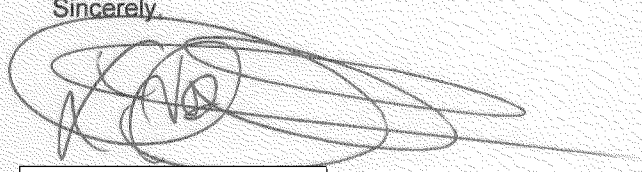
This letter is to certify that the hydrostatic test performed on pipe owned by Pacific Gas and Electric Company and tested by Contra Costa Inspection Company met the requirements of the Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 3).

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 620 psig and the established MAOP is 413 psig.

Pressure increased 55 psi during the test. 62.00 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 16.36 ounces, gain, which is equivalent to a 0.4 °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,



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Hydrostatic Test Certification

Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	ARB	Job Number	0629-53C
Hydro. Test Co.	Contra Costa Inspection Company	Project No.	PG&E 5-12-11
Test Section	PG&E Line 132A T- 41		
File Name	RCP 61362 - 41		

Hydrostatic Test Pressure

APPLICABLE CODE FOR CERTIFICATION: Test Date: 12-May-11

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

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

Pipeline:	PG&E Line 132A T- 41		
From:	04+07	To:	78+98

Pipe Data

Segment	Length	Diameter	Wall Thickness	Specification	100% SMYS
1	290.00 ft	16.000 in.	0.250 in.	API5L-Grade B, SM, Arc Weld, Steel	1,094 psi
2	45.00 ft	16.000 in.	0.313 in.	API5L-X52, ERW-HF, Arc Weld, Steel	2,031 psi
3	15.00 ft	16.000 in.	0.500 in.	API5L-X52, SM, Arc Weld, Steel	3,250 psi
4	43 ft	24.000 in.	0.375 in.	API5L-X60, DSAW, Arc Weld, Steel	1,875 psi

Initial Test Conditions

Pressure at Test Point:	620 psig	Date/Time:	5/12/11 11:45 AM	Pipe Temperature	
				Unrestrained:	65.0 °F
Ambient Temperature:	66.0 °F			Restrained:	58.0 °F
		Elevation @ Test Point:	30.0 ft	Location:	00+00
Pressure @ High Point (Cal/Measure):	620 psig	Elevation @ High Point:	30.0 ft	Location:	03+75
Pressure @ Low Point (Cal/Measure):	620 psig	Elevation @ Low Point:	30.0 ft	Location:	00+00

Final Test Conditions

Pressure at Test Point:	675 psig	Date/Time:	5/12/11 8:00 PM	Pipe Temperature	
				Unrestrained:	75.0 °F
Ambient Temperature:	61.0 °F			Restrained:	58.0 °F
		Elevation @ Test Point:	30.0 ft	Location:	00+00
Pressure @ High Point (Cal/Measure):	675 psig	Elevation @ High Point:	30.0 ft	Location:	03+75
Pressure @ Low Point (Cal/Measure):	675 psig	Elevation @ Low Point:	30.0 ft	Location:	75+50
	Total Fluid Injected:			Volume gain	
	Total Fluid Withdrawn:	62.00 fluid ounces			
Net Change in Volume of the Test Section ± (+ Gain, - Loss):		16.36 oz	gain	0.003%	0.438 °F equivalent

Test Duration:	8 hours					
Maximum Test Pressure:		695 psig				
% SMYS @:	56.7%	Test Point	56.7%	High Point	56.7%	Low Point
					Minimum Test Pressure (Calculated/Measured):	620 psig

Were leaks observed?	**No**	Explain:
Acceptable Hydrostatic Test?	**Yes**	No leaks were observed during the test period. The test section included 290 feet of buried and 103 feet of exposed pipe. Pressure gained 55 psi during the test. The buried pipe segment fluid temperature remained steady and the exposed pipe segment gained 10°F. 62.00 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 16.36 ounces, gain, which is equivalent to a 0.4 °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.
Remarks		

Redacted

26-Jun-11

Dead Weight Log Sheet

Owner Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	ARB	Job Number	0629-53C
Testing Co.	Contra Costa Inspection Company	Project No.	PG&E 5-12-11
Test Section	PG&E Line 132A T- 41		
File Name	RCP 61362 - 41		

Date **12-May-11**

Test Log

Log No.	Test Period		Test Pressure	Temperature °F			REMARKS		
	Date	Time		Ambient	Pipe				
					Unrestrained	Restrained	Comment	Bleed	Inject
1	5/12/11	11:45 AM	620 psig	66 °F	65 °F	58 °F	On Test		
2	5/12/11	11:55 AM	622 psig	67 °F	65 °F	58 °F	Sun Shine		
3	5/12/11	12:05 PM	626 psig	68 °F	66 °F	58 °F			
4	5/12/11	12:15 PM	628 psig	66 °F	66 °F	58 °F			
5	5/12/11	12:25 PM	631 psig	65 °F	66 °F	58 °F			
6	5/12/11	12:35 PM	634 psig	68 °F	67 °F	58 °F			
7	5/12/11	12:45 PM	637 psig	68 °F	68 °F	58 °F			
8	5/12/11	1:00 PM	642 psig	74 °F	69 °F	58 °F			
9	5/12/11	1:15 PM	646 psig	74 °F	70 °F	58 °F			
10	5/12/11	1:30 PM	652 psig	74 °F	70 °F	58 °F			
11	5/12/11	1:45 PM	656 psig	75 °F	71 °F	58 °F			
12	5/12/11	2:00 PM	662 psig	75 °F	72 °F	58 °F			
13	5/12/11	2:15 PM	667 psig	75 °F	73 °F	58 °F			
14	5/12/11	2:30 PM	673 psig	76 °F	74 °F	58 °F			
15	5/12/11	2:45 PM	676 psig	77 °F	74 °F	58 °F			
16	5/12/11	3:00 PM	682 psig	74 °F	74 °F	58 °F			
17	5/12/11	3:15 PM	685 psig	77 °F	74 °F	58 °F			
18	5/12/11	3:30 PM	690 psig	75 °F	74 °F	58 °F			
19	5/12/11	3:45 PM	693 psig	74 °F	74 °F	58 °F			
20	5/12/11	4:00 PM	686 psig	76 °F	74 °F	58 °F		32.00 oz.	
21	5/12/11	4:15 PM	688 psig	73 °F	74 °F	58 °F			
22	5/12/11	4:30 PM	691 psig	75 °F	75 °F	58 °F			
23	5/12/11	4:45 PM	693 psig	75 °F	75 °F	58 °F			
24	5/12/11	5:00 PM	695 psig	72 °F	75 °F	58 °F			
25	5/12/11	5:15 PM	686 psig	74 °F	75 °F	58 °F		30.00 oz.	
26	5/12/11	5:30 PM	687 psig	71 °F	76 °F	58 °F			
27	5/12/11	5:45 PM	688 psig	72 °F	76 °F	58 °F			
28	5/12/11	6:00 PM	688 psig	71 °F	76 °F	58 °F			
29	5/12/11	6:15 PM	688 psig	70 °F	77 °F	58 °F			
30	5/12/11	6:30 PM	688 psig	70 °F	77 °F	58 °F			
31	5/12/11	6:45 PM	686 psig	69 °F	77 °F	58 °F	Sun Shine		
32	5/12/11	7:00 PM	685 psig	69 °F	77 °F	58 °F			
33	5/12/11	7:15 PM	682 psig	67 °F	77 °F	58 °F			
34	5/12/11	7:30 PM	680 psig	65 °F	77 °F	58 °F			
35	5/12/11	7:45 PM	677 psig	62 °F	76 °F	58 °F			
36	5/12/11	8:00 PM	675 psig	61 °F	75 °F	58 °F	End of Test		
								62.0 oz.	

Were leaks observed during the test period?	Exposed and buried pipe, no leaks observed.	High Test Pressure:	695 psig
		Low Test Pressure:	620 psig

Pipe Segment Volume Calculations

Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	ARB	Job Number	0629-53C
Hydro. Test Co.	Contra Costa Inspection Company	Project No.	PG&E 5-12-11
Test Section	PG&E Line 132A T- 41		**WATER**
File Name	RCP 61362 - 41		

General Pipe Data

Description	Segment										
	1	2	3	4							
Restrained or Unrestrained?	Restrained	Unrestrained	Unrestrained	Unrestrained							
Outside Diameter	16.000 in.	16.000 in.	16.000 in.	24.000 in.							
Wall Thickness	0.250 in.	0.313 in.	0.500 in.	0.375 in.							
Inside Diameter	15.500 in.	15.375 in.	15.000 in.	23.250 in.							
Spec./Grade	API5L-Grade B	API5L-X52	API5L-X52	API5L-X60							
Length Unrestrained		45 ft	15 ft	43 ft							
Length Restrained	290 ft										
Temperature -- On Test	58 °F	65 °F	65.0 °F	65.0 °F							
Temperature -- End of Test	58 °F	75 °F	75.0 °F	75.0 °F							
Pressure -- On Test	620 psig	620 psig	620 psig	620 psig							
Pressure -- End of Test	675 psig	675 psig	675 psig	675 psig							

Unrestrained Pipe

Sum:	Vo	1,520.07 gal 194,569 oz.		Vtp1	1,524.56 gal 195,144 oz.	Vtp2	1,523.43 gal 194,999 oz.
Vo Unrestrained		434 gal	138 gal	948 gal			
Fwp 1		1.001898	1.001898	1.001898			
Fpp 1		1.001271	1.000775	1.001602			
Fpt 1		1.000091	1.000091	1.000091			
Fwt 1		1.000467	1.000467	1.000467			
Fpwt 1 = Fpt/Fwt		0.999624	0.999624	0.999624			
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)		435.22 gal	138.02 gal	951.32 gal			
Fwp 2		1.002066	1.002066	1.002066			
Fpp 2		1.001384	1.000844	1.001744			
Fpt 2		1.000273	1.000273	1.000273			
Fwt 2		1.001688	1.001688	1.001688			
Fpwt = Fpt/Fwt		0.998587	0.998587	0.998587			
Vtp = Vo(Fwp)(Fpp)(Fpwt)		434.90 gal	137.91 gal	950.63 gal			

Restrained Pipe

Sum:	Vo	2,842.63 gal 363,857 oz.	Vtp1	2,851.77 gal 365,027 oz.	Vtp2	2,852.55 gal 365,126 oz.
Vo Unrestrained	2,843 gal					
Fwp 1	1.001898					
Fpp 1	1.001159					
Fpt 1	0.999976					
Fwt 1	0.999819					
Fpwt 1 = Fpt/Fwt	1.000157					
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	2,852 gal					
Fwp 2	1.002066					
Fpp 2	1.001262					
Fpt 2	0.999976					
Fwt 2	0.999819					
Fpwt = Fpt/Fwt	1.000157					
Vtp = Vo(Fwp)(Fpp)(Fpwt)	2,853 gal					

Combined Pipe

Sum:	Vo	4,362.70 gal 558,426 oz.	Vtp1	4,376.34 gal 560,171 oz.	Vtp2	4,375.98 gal 560,126 oz.

Pipe Segment Volume Allowance Calculations

Company	Pacific Gas and Electric Company	Job Number	41474079
Construction Co.	ARB	Job Number	0629-53C
Hydro. Test Co.	Contra Costa Inspection Company	Project No.	PG&E 5-12-11
Test Section	PG&E Line 132A T- 41		**WATER**
File Name	RCP 61362 - 41		

General Pipe Data

Description	Segment 1	2	3	4
Restrained or Unrestrained?	Restrained	Unrestrained	Unrestrained	Unrestrained
Outside Diameter	16.000 in.	16.000 in.	16.000 in.	24.000 in.
Wall Thickness	0.250 in.	0.313 in.	0.500 in.	0.375 in.
Inside Diameter	15.500 in.	15.375 in.	15.000 in.	23.250 in.
Spec./Grade	API5L-Grade B	API5L-X52	API5L-X52	API5L-X60
Length Unstrained		45.00 ft	15.00 ft	43 ft
Length Restrained	290 ft			
Temperature -- On Test	57 °F	69 °F	69 °F	69 °F
Temperature -- End of Test	58 °F	70 °F	70 °F	70 °F
Pressure -- On Test	647 psig	647 psig	647 psig	647 psig
Pressure -- End of Test	647 psig	647 psig	647 psig	647 psig

Unrestrained Pipe

Sum:	Vo	1,520.07 gal 194,569 oz.	Vtp1	1,524.19 gal 195,097 oz.	Vtp2	1,524.06 gal 195,079 oz.	
Vo Unrestrained		434 gal	138 gal	948 gal			
Fwp 1		1.001980	1.001980	1.001980			
Fpp 1		1.001326	1.000809	1.001671			
Fpt 1		1.000164	1.000164	1.000164			
Fwt 1		1.000929	1.000929	1.000929			
Fpwt 1 = Fpt/Fwt		0.999236	0.999236	0.999236			
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)		435.12 gal	137.98 gal	951.10 gal			
Fwp 2		1.001980	1.001980	1.001980			
Fpp 2		1.001326	1.000809	1.001671			
Fpt 2		1.000182	1.000182	1.000182			
Fwt 2		1.001036	1.001036	1.001036			
Fpwt = Fpt/Fwt		0.999146	0.999146	0.999146			
Vtp = Vo(Fwp)(Fpp)(Fpwt)		435.08 gal	137.97 gal	951.01 gal			

Restrained Pipe

Sum:	Vo	2,842.63 gal 363,857 oz.	Vtp1	2,852.31 gal 365,096 oz.	Vtp2	2,852.15 gal 365,076 oz.	
Vo Restrained	2,843 gal						
Fwp 1	1.001980						
Fpp 1	1.001206						
Fpt 1	0.999964						
Fwt 1	0.999749						
Fpwt 1 = Fpt/Fwt	1.000215						
Vtp 1 = Vo(Fwp)(Fpp)(Fpwt)	2,852 gal						
Fwp 2	1.001980						
Fpp 2	1.001210						
Fpt 2	0.999976						
Fwt 2	0.999819						
Fpwt = Fpt/Fwt	1.000157						
Vtp = Vo(Fwp)(Fpp)(Fpwt)	2,852 gal						

Combined Pipe

Sum:	Vo	4,362.70 gal 558,426 oz.	Vtp1	4,376.50 gal 560,192 oz.	Vtp2	4,376.21 gal 560,155 oz.
1 °F Change	0.29 gal	37.32 oz.				

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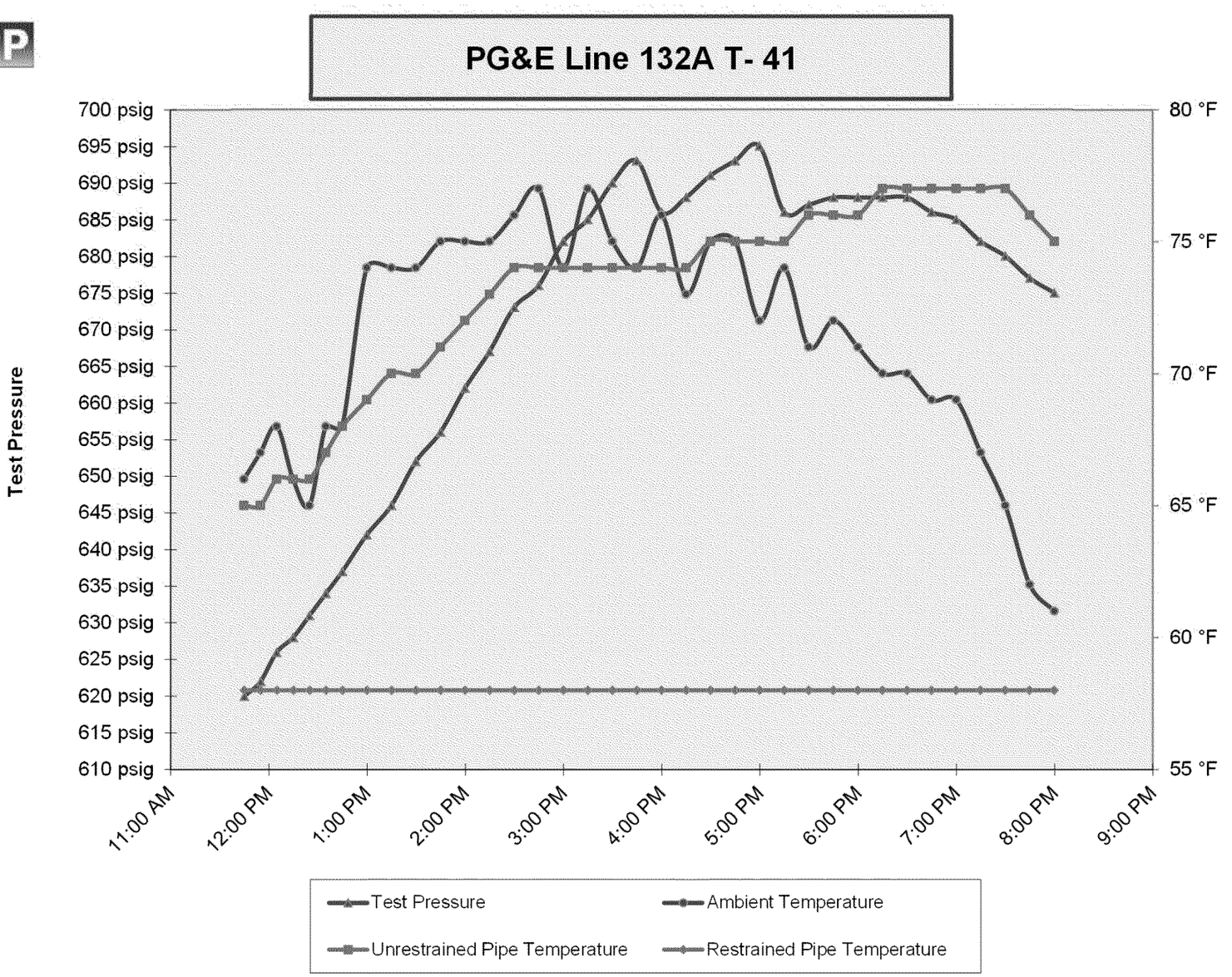
Hydrostatic Test Pipe Data Table

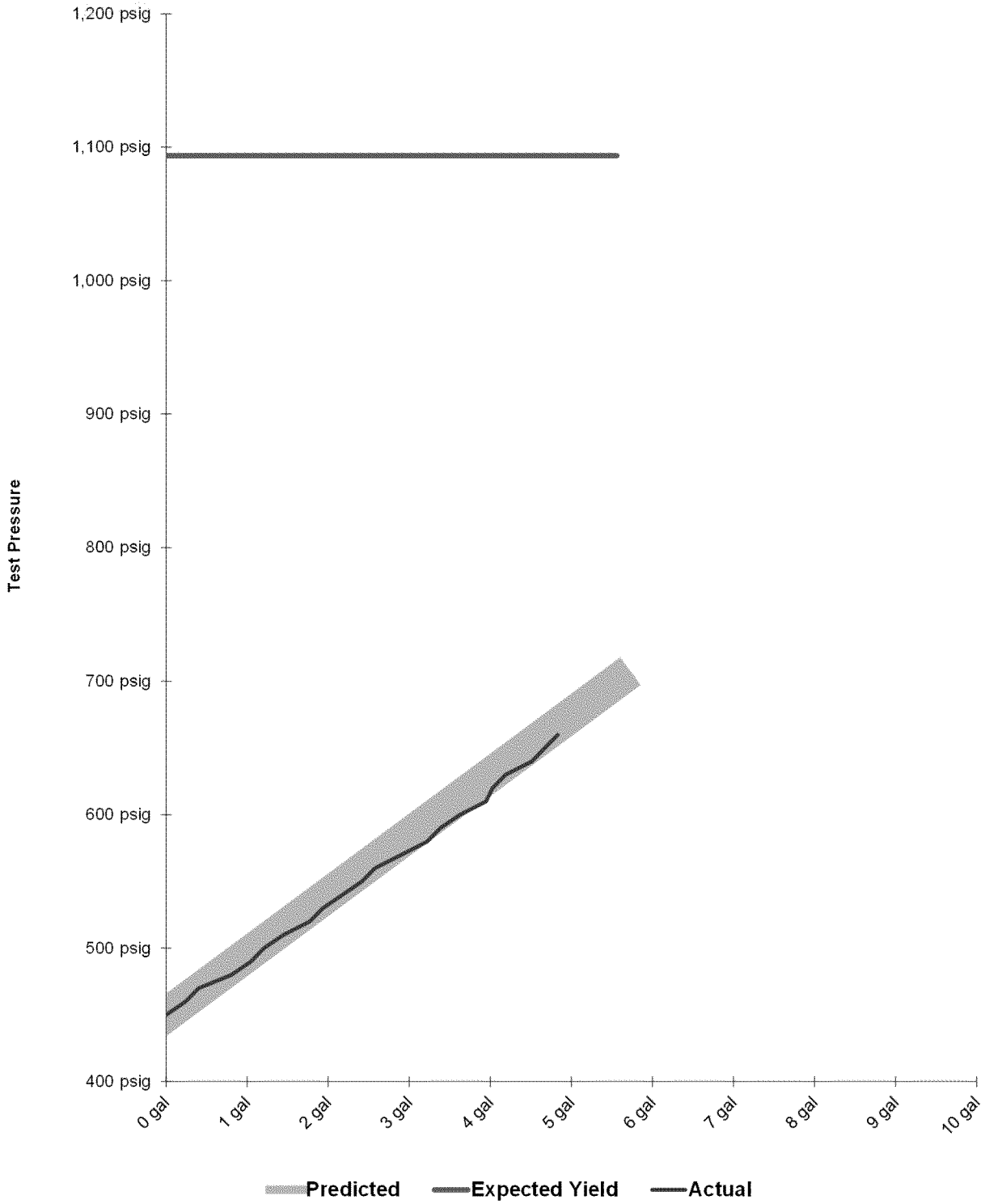
Pipe Type	Length	Restrained / Unrestrained	Outside Diameter	Wall Thickness	Specification & Grade	Pipe Yield Pressure	Material	Joint Type	Seam Type
1	290 ft	Restrained	16.000 in.	0.2500 in.	API5L-Grade B	1,094 psig	Steel	Arc Weld	SM
2	45 ft	Unrestrained	16.000 in.	0.3125 in.	API5L-X52	2,031 psig	Steel	Arc Weld	ERW-HF
3	15 ft	Unrestrained	16.000 in.	0.5000 in.	API5L-X52	3,250 psig	Steel	Arc Weld	SM
4	43 ft	Unrestrained	24.000 in.	0.3750 in.	API5L-X60	1,875 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	41474079
Construction Company	ARB	Job Number
Address	1875 Loveridge Road Pittsburg, CA 94565 Attention: Redacte	0629-53C
Hydrostatic Test Co.	Contra Costa Inspection Company	Project No.
Address	2820 La Jolla Drive Antioch, California 94531 Attention Redacted	PG&E 5-12-11
Test Section	PG&E Line 132A T- 41 From: 04+07 To: 78+98	
File Name	RCP 61362 - 41	



Stress Strain Curve -- PG&E Line 132A T- 41



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Actual Pressure Volume Plot Data			Predicted Pressure Volume Plot Data	Slope	
Pressure	Strokes	Gallons	Gallons	Actual	Predicted
450 psig		0.00 gal	0.00 gal		
460 psig	3	0.24 gal	0.22 gal	0.024	0.022
470 psig	5	0.40 gal	0.44 gal	0.016	0.022
480 psig	10	0.81 gal	0.67 gal	0.040	0.022
490 psig	13	1.05 gal	0.89 gal	0.024	0.022
500 psig	15	1.21 gal	1.11 gal	0.016	0.022
510 psig	18	1.45 gal	1.33 gal	0.024	0.022
520 psig	22	1.77 gal	1.56 gal	0.032	0.022
530 psig	24	1.93 gal	1.78 gal	0.016	0.022
540 psig	27	2.17 gal	2.00 gal	0.024	0.022
550 psig	30	2.42 gal	2.22 gal	0.024	0.022
560 psig	32	2.58 gal	2.44 gal	0.016	0.022
570 psig	36	2.90 gal	2.67 gal	0.032	0.022
580 psig	40	3.22 gal	2.89 gal	0.032	0.022
590 psig	42	3.38 gal	3.11 gal	0.016	0.022
600 psig	45	3.62 gal	3.33 gal	0.024	0.022
610 psig	49	3.95 gal	3.56 gal	0.032	0.022
620 psig	50	4.03 gal	3.78 gal	0.008	0.022
630 psig	52	4.19 gal	4.00 gal	0.016	0.022
640 psig	56	4.51 gal	4.22 gal	0.032	0.022
650 psig	58	4.67 gal	4.45 gal	0.016	0.022
660 psig	60	4.83 gal	4.67 gal	0.016	0.022
670 psig		4.83 gal	4.89 gal	0.000	0.022
680 psig		4.83 gal	5.11 gal	0.000	0.022
690 psig		4.83 gal	5.34 gal	0.000	0.022
700 psig		4.83 gal	5.56 gal	0.000	0.022
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
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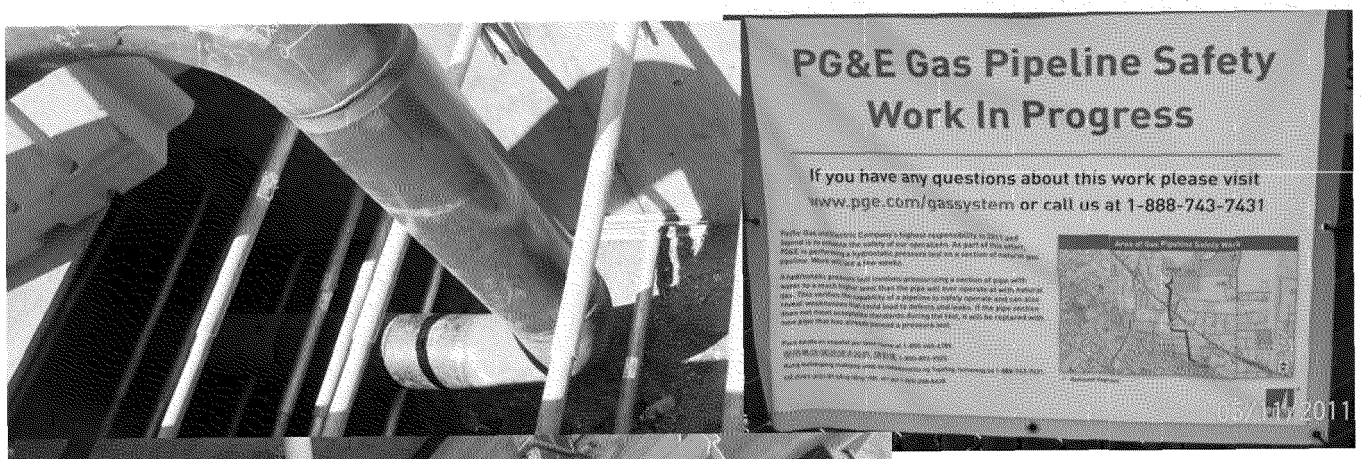
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000
700 psig		4.83 gal	5.56 gal	0.000	0.000

Stress Strain Curve – PG&E Line 132A T- 41	
Pump Piston Diameter	1.380 in
Pump Piston Stroke	4.15 in
Pump Cylinders	3 ea
Maximum2	10 gal
Minimum2	0 gal
Maximum1	1,200 psig
Minimum1	400 psig
Cubic Inches/Stroke	18.60
Pressure Increment	10 psi
Max Pressure	700 psig
Ground Temperature	59 °F
Ambient Temperature	67 °F
ASME B31.8 Appendix N-5	
Average Actual Elastic Slope	0.020
Average Predicted Elastic Slope	0.022
Code Prescribed Minimum Yield Slope (less 10%) B31.8 N-5 (c)(2)	0.038
Established Minimum Yield Pressure B31.8 N-5 (c)(2)	470 psig
Maximum Allowed Volume (After Slope Deviation) B31.8 N-5 (c)(2)	418 gal
Volume (After Slope Deviation) B31.8 N-5 (c)(2)	0 gal

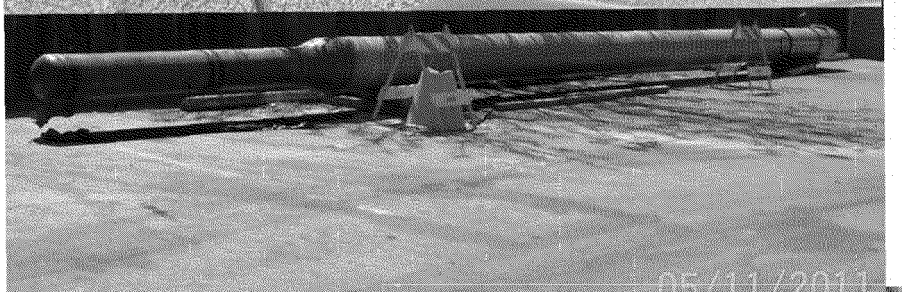
[signature] 6/26/2011

Test Supervisor   Date

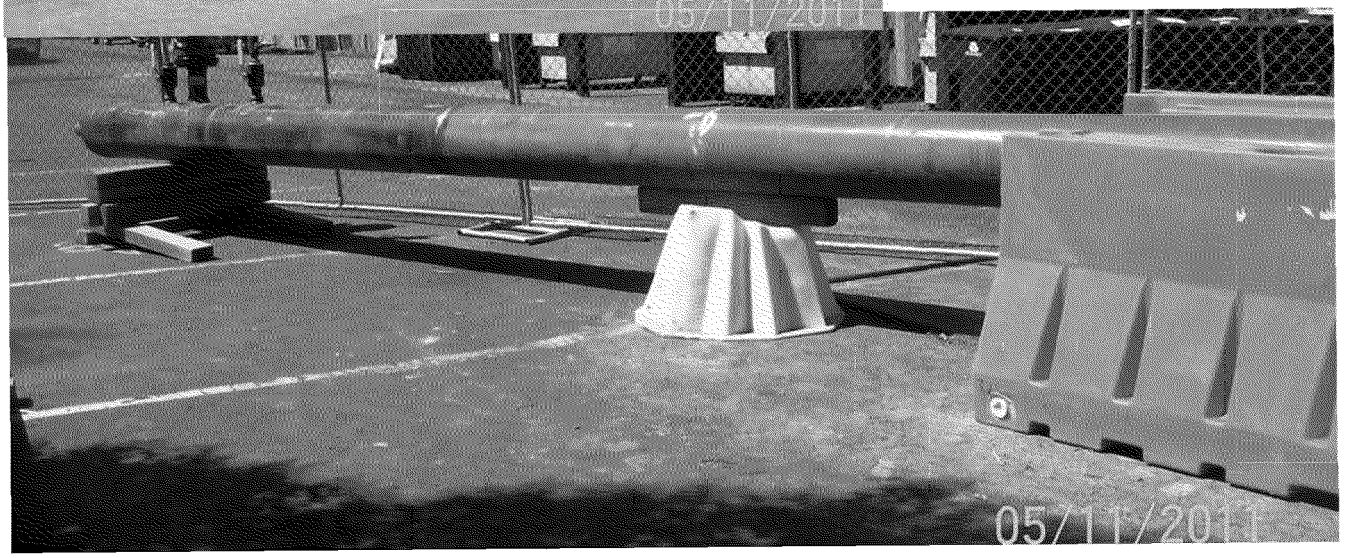
RCP



Test Section # 41
Map

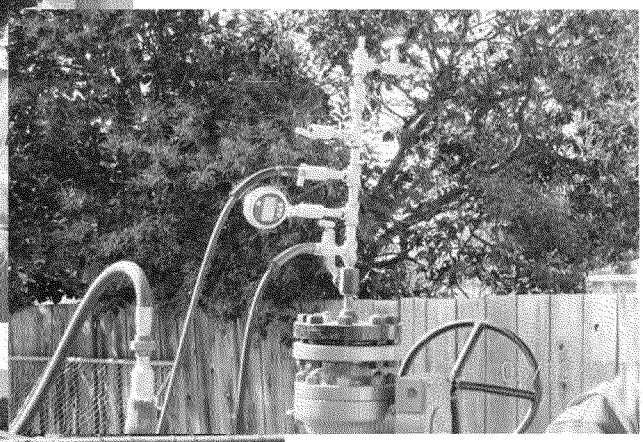


Exposed / Unrestrained Pipe Segments

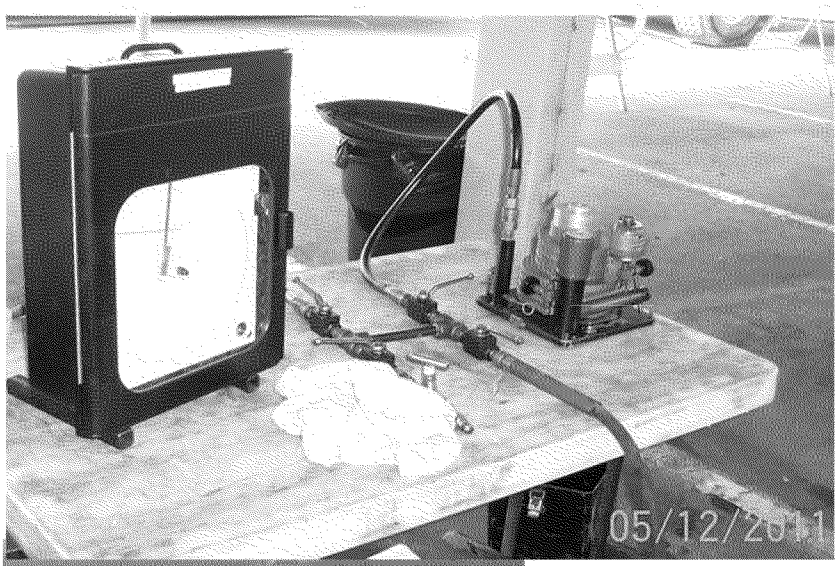


Pressure Pump and Pressure Connection to Test Section

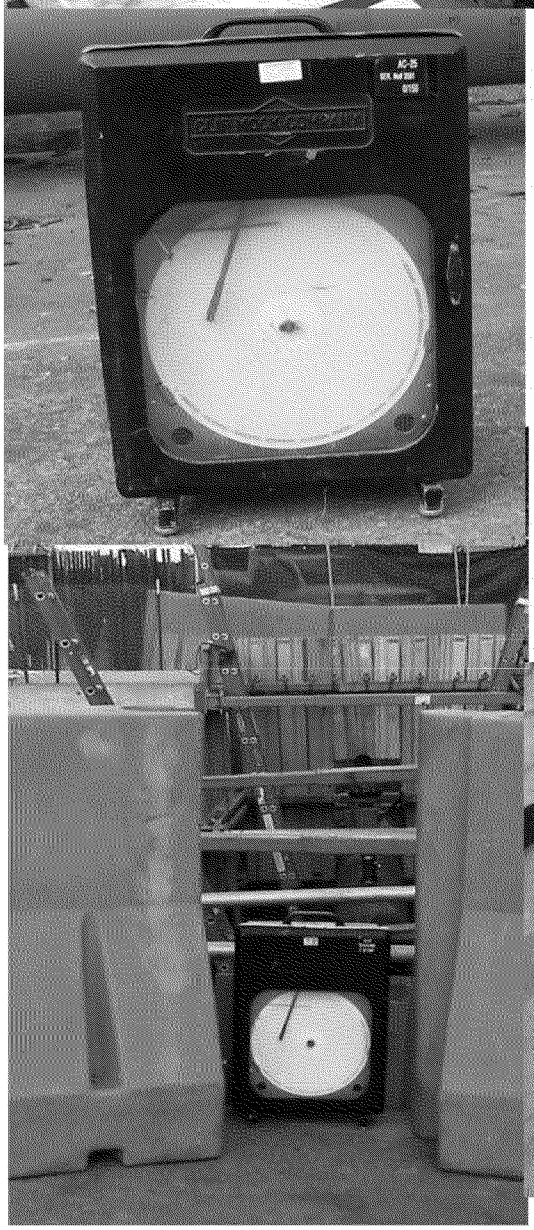
Pressure Recorder and Dead Weight Connection to Test Section



Pump Pressure Connection

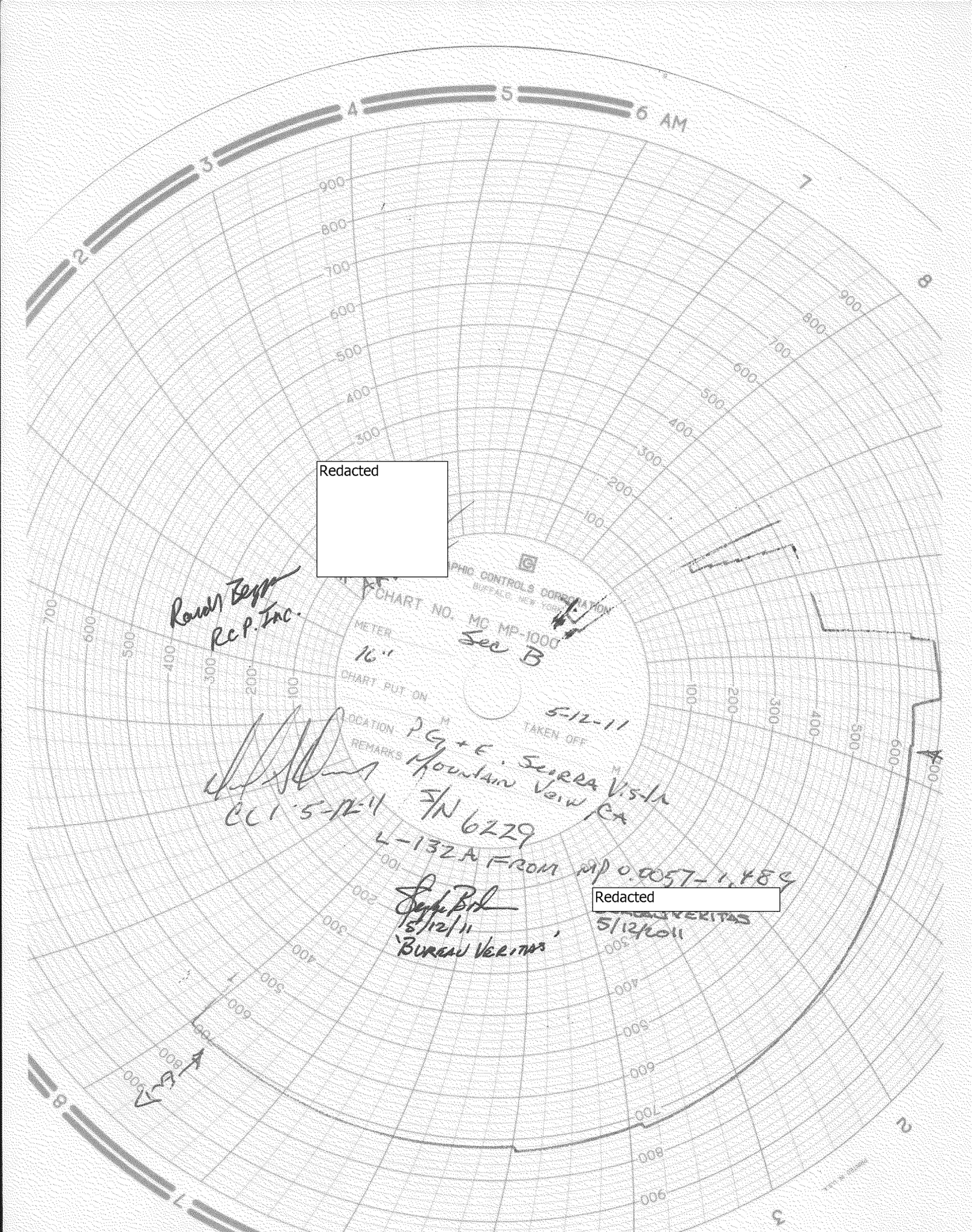


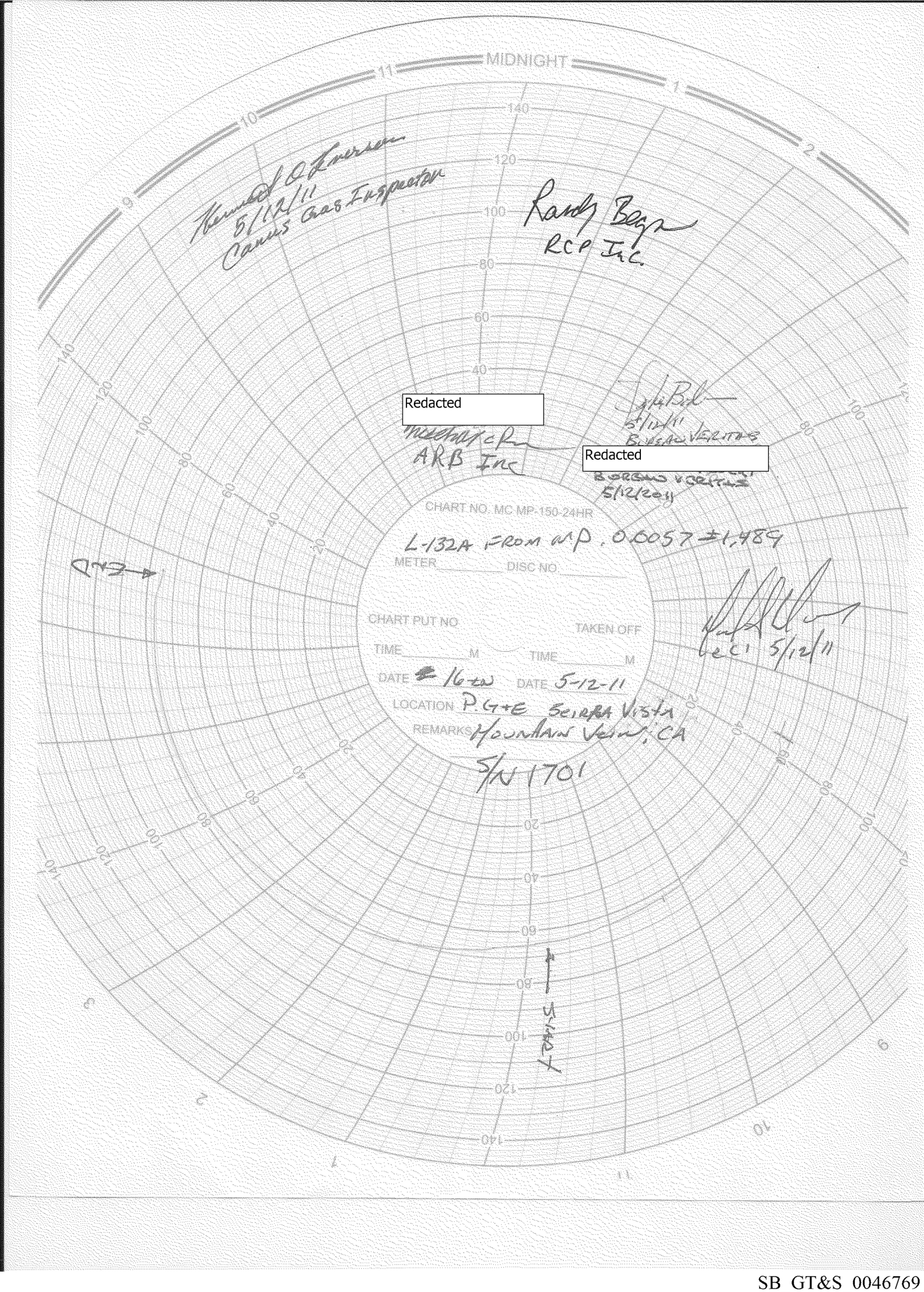
Dead Weight and Pressure Recorder

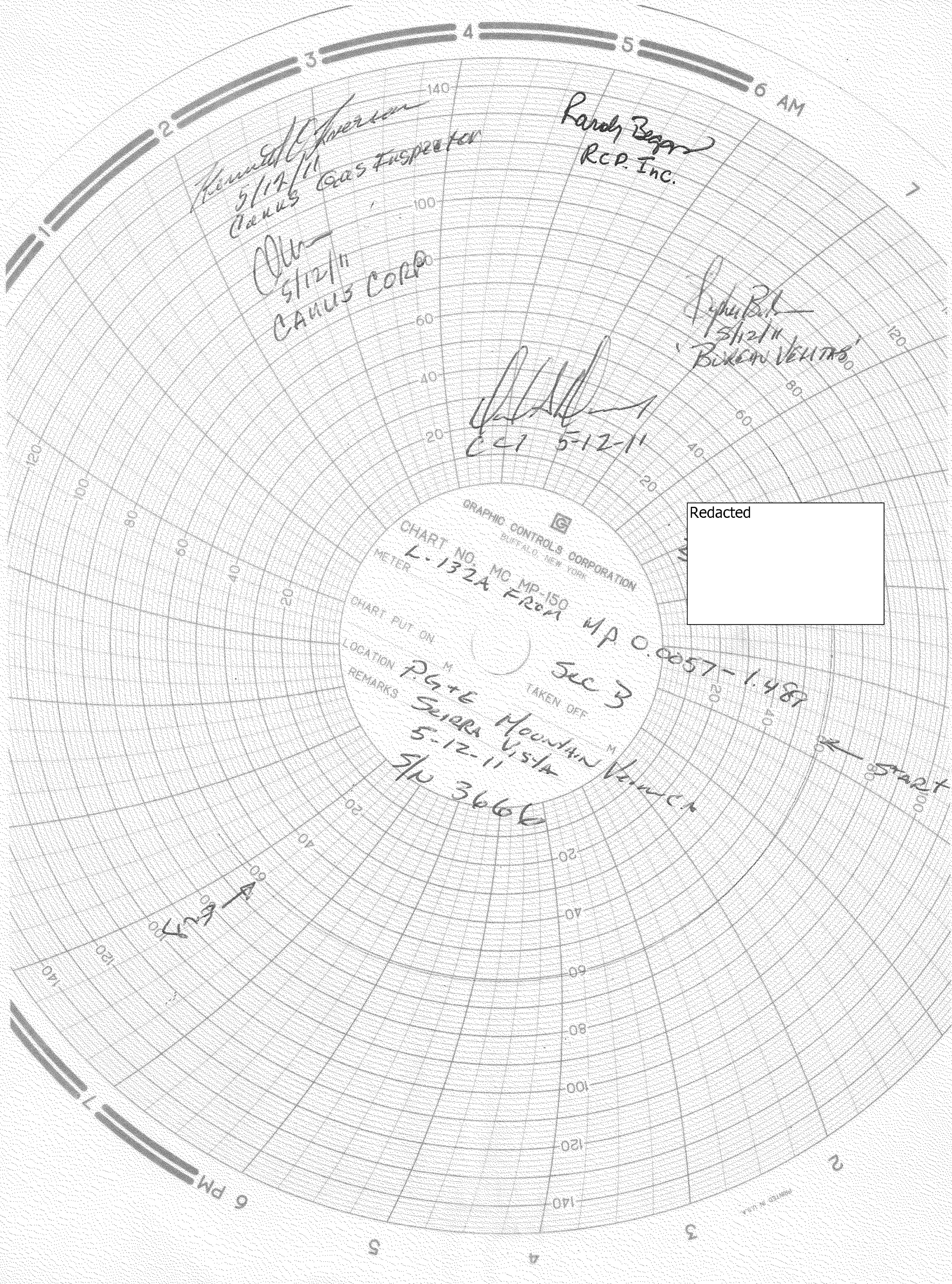


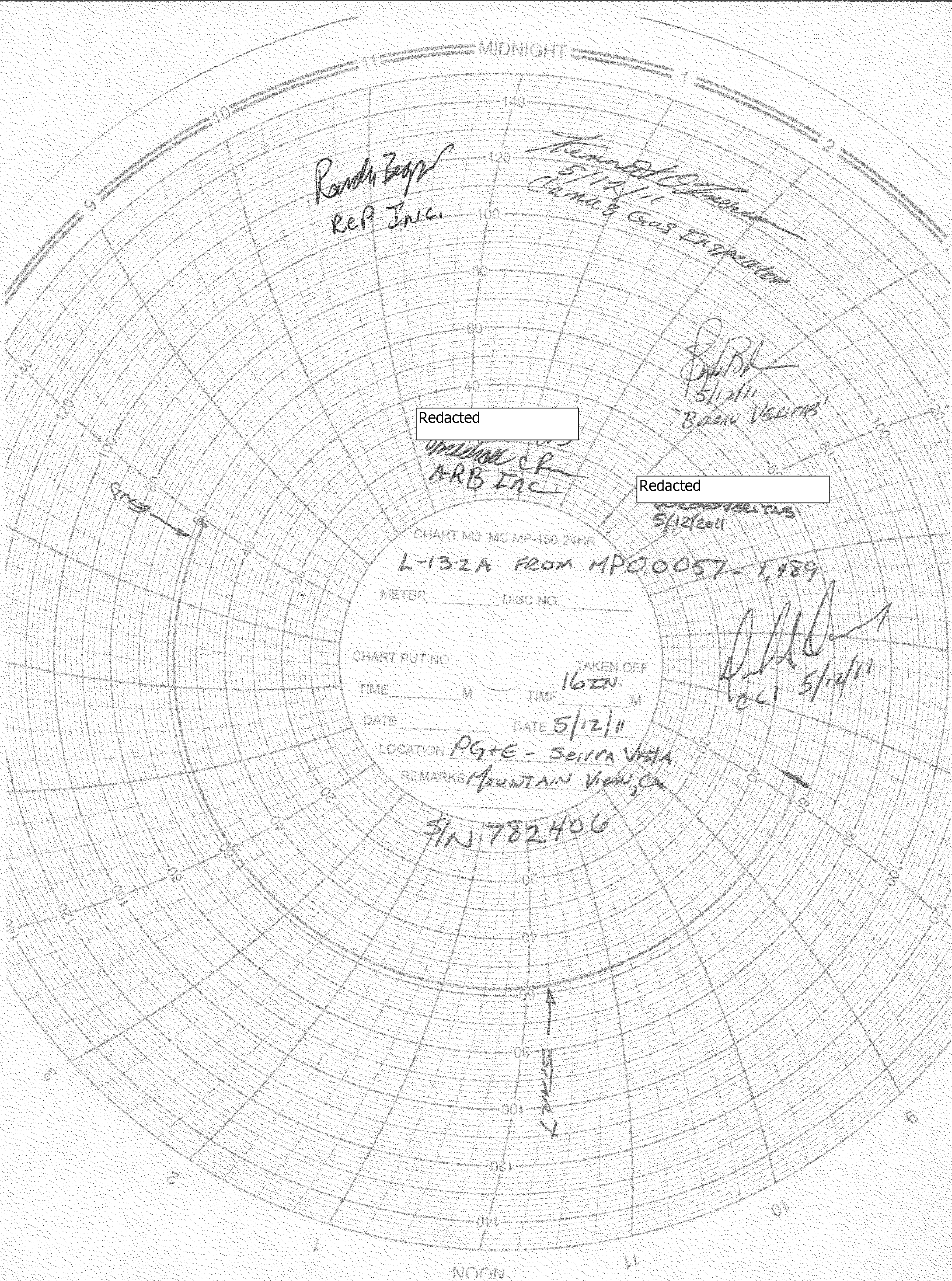
Unrestrained Pipe Temperature Recorder

Restrained Pipe Temperature Recorder


Redacted
Ronald Zeppa
RCP. Inc.
CHART NO. MC MP-1000
See B
16"
5-12-11
PG+E. Sierra V.S.A.
Mountain View, CA
S/N 6229
L-132A FROM MP 0.0057-1.489
CCI 5-12-11
5/12/11
'Burean Veritas'
Redacted
5/12/2011


MIDNIGHT
Randy Berger
RCP Inc.
Redacted
Redacted
ARB Inc
5/12/11
BUREAU VERITAS
5/12/2011
CHART NO. MC MP-150-24HR
L-132A FROM MP. 0.0057 ±1,489
METER DISC NO.
CHART PUT NO. TAKEN OFF
TIME M TIME M
DATE 5-12-11 DATE 5-12-11
LOCATION P.G+E SIERRA VISTA
REMARKS MOUNTAIN VIEW, CA
S/N 1701
5/12/11


GRAPHIC CONTROLS CORPORATION
BUFFALO NEW YORK
CHART NO. MC MP-150
METER L-132A FROM MP 0.0057-1.487
CHART PUT ON
TAKEN OFF
LOCATION PG+E Sec 3
REMARKS Seirra Mountain Vista
Vacaville CA
5-12-11
S/N 3666
5/12/11
CAMUS Gas Inspector
5/12/11
CAMUS CORP
Randy Beggs
RCP. Inc.
5/12/11
'Bureau Veritas'
CCI 5-12-11
Start
Redacted
6 AM
6 PM


MIDNIGHT
NOON
Randy Bego
RcP Inc.
5/12/11
Camus Gas Inspector
5/12/11
Bureau Veritas
Redacted
ARB Inc
Redacted
5/12/2011
CHART NO. MC MP-150-24HR
L-132A FROM MP0.0057 - 1.489
METER
DISC NO.
CHART PUT NO
TAKEN OFF
TIME M
TIME 16 IN. M
DATE
DATE 5/12/11
LOCATION PG+E - Seirra Vista
REMARKS Mountain View, CA
S/N 782406
CCI 5/12/11

#2 SERRA VISTA ROSMOOR

TEST DATA PG& E

~~PRE-TEST~~

DATE	TIME	DEAD WEIGHT PRES.	CHART PRES.	PIPE WALL TEMP.	AMBIENT TEMP.	WIND SPEED	TEST MEDIUM CHANGE	COMMENTS
5/12	1530	690			75			
	1545	693			74	—	695	
	1600	686			76		-3 oz	To 685
	1615	688			73	—		
1630	~~1700~~	691			75			
1645	~~1715~~	693			75	—		
1700	~~1730~~	695			72		695	
	1715	686			74		-30.12	To 685
	1730	687			71			
	1745	688			72			
	1800	688			71			
	1815	688			70			
	1830	688			70			
	1845	686			69			
	1900	685			69			
	1915	682			67			
	1930	680			65			
	2000	677			62			
NET CHANGE:								Gal.

FAILURES / LOSS AND OR LEAKS DURING TEST YES (NO)

LOCATION	CAUSE

CERTIFICATION

NAME OF COMPANY CONDUCTING TEST	DATE
NAME OF INDEPENDENT TESTING FIRM WITNESSING TEST CONTRA COSTA INSPECTION CO.	DATE
NAME OF [Redacted] NT WITNESS ON SITE	DATE
PIPELINE OPERATOR'S REPRESENTATIVE ON SITE	DATE
SEND TEST TO:	
NAME OF PERSON CERTIFYING TEST DATA FOR WITNESSING FIRM	DATE

#1

TEST DATA PG& E

DATE	TIME	DEAD WEIGHT PRES.	CHART PRES.	PIPE WALL TEMP.	AMBIENT TEMP.	Exposed WIND SPEED	TEST MEDIUM CHANGE	COMMENTS
5/12	1145	620		58	66	- 65°		
	1155	622			67			
	1205	626			68			
	1215	628			66	-		
	1225	631			65			
	1235	634			68			
	1245	637			68	-		
	1300	642			74			
	1315	646			74			
	1330	652			74			
	1345	656			75	-		
	1400	662			75			
	1415	667			75	-		
	1430	673			76			
	1445	676			77			
	1500	682			74			
	1515	685			77			
NET CHANGE:								Gal.

FAILURES / LOSS AND OR LEAKS DURING TEST YES NO

LOCATION	CAUSE

CERTIFICATION

NAME OF COMPANY CONDUCTING TEST P G & E	DATE
NAME OF INDEPENDENT TESTING FIRM WITNESSING TEST CONTRA COSTA INSPECTION CO.	DATE
NAME OF CERTIFIED INDEPENDENT WITNESS ON SITE Redacted	DATE
PIPELINE OPERATOR'S REPRESENTATIVE ON SITE SEND TEST TO:	DATE
NAME OF PERSON CERTIFYING TEST DATA FOR WITNESSING FIRM	DATE

90 E

290' Buried

50 16"
40 24" Exposed

TEST DATA PG& E

PRE-TEST

DATE	TIME	DEAD WEIGHT PRES.	CHART PRES.	PIPE WALL TEMP.	AMBIENT TEMP.	WIND SPEED	TEST MEDIUM CHANGE	COMMENTS
5/12	1045	665			65			
	1055	670			64			
	1105	675			66			
	1115	675			67		-15 oz	TO 620
	1125	620			65			
	1135	625			64			
	1145	625			69		-15 oz	= 5 PSI
NET CHANGE:								Gal.

FAILURES / LOSS AND OR LEAKS DURING TEST YES NO

LOCATION	CAUSE

CERTIFICATION

NAME OF COMPANY CONDUCTING TEST	DATE
NAME OF INDEPENDENT TESTING FIRM WITNESSING TEST CONTRA COSTA INSPECTION CO.	DATE
NAME OF CERTIFIED INDEPENDENT WITNESS ON SITE Redacted	DATE
PIPELINE OPERATOR'S REPRESENTATIVE ON SITE SEND TEST TO:	DATE
NAME OF PERSON CERTIFYING TEST DATA FOR WITNESSING FIRM	DATE

MINIMUM PIGGING EQUIPMENT				
SERVICE.	EQUIPMENT	No.	SUPERVISOR APPROVAL	TIME/ DATE
Pipeline Fill	5B Bare Swab Pig HP (16-inch)	1	[illegible]	8:00 AM 5/12/11
Drying Pigs	3B Bare Swab	2	"	"

TESTING EQUIPMENT PER NUMBERED DOCUMENT A-37					
NO	Type	Description	Calibration	Location	Approval/ Date
1.	Deadweight Tester	AMETEK 0-3500 PSI S/N 2845	Within 1 Year of test. Sensitivity 1 psi Date: 11-29-10	**1, Sierra Vista (Location B)**	
2.	Pressure Recorder #1	CLP 1703 0-1000 psi	Within 6 Months of test. Accuracy 0.5% Date: 5-2-11	**1, Sierra Vista (Location B)**	
3.	Temperature Recorder #1	CLP 1701 0-150 °F	Within 6 months of test. Date: 5-2-11	**1, Sierra Vista (Location B)**	
4.	~~Test Gauge~~ Press. Rec. #2	INVALCO S/N 6229 0-1000 PSI	Within 12 months of test. Date: 3-2-11	**1, Sierra Vista (Location B)**	
5.	~~Dew Point Meter~~ TEMP Rec #2	METSERCO S/N 782406 0-150 °F	Within 12 months of test. Date: 3-2-11	**1, Sierra Vista Station (Location A)**	

Per CPUC Requirements, All Pressure Recorder(s) and Test Gages must have a range so that the test pressure is between 20 and 80% of the minimum test pressure.

HOLD POINT

TEST DOES NOT PROCEED UNTIL SUPERVISOR APPROVAL

SUPERVISOR HAS VERIFIED THAT ALL EQUIPMENT IS ONSITE.

TEST SUPERVISOR SIGNS NAME HERE FOR APPROVAL: _____

TEST LINE: 132A T-41	REVISION: 0