



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,

Redacted

cc. file

C:\Redact\Excel\RCP, Inc. Projects\PG&E\Hydrostatic Testing\
Test 41.xlsm
Letter

Page 1 of 13

6/26/2011



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:	Code of Federal Regulations, Title 49, Part 192, Subpart J (Class 3)	Test Date:	12-May-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 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	
Ambient Temperature:	66.0 °F	Elevation @ Test Point:	30.0 ft	Unrestrained:	65.0 °F
Pressure @ High Point (Cal/Measure):	620 psig	Elevation @ High Point:	30.0 ft	Restrained:	58.0 °F
Pressure @ Low Point (Cal/Measure):	620 psig	Elevation @ Low Point:	30.0 ft	Location:	00+00
				Location:	03+75
				Location:	00+00

Final Test Conditions

Pressure at Test Point:	675 psig	Date/Time:	5/12/11 8:00 PM	Pipe Temperature	
Ambient Temperature:	61.0 °F	Elevation @ Test Point:	30.0 ft	Unrestrained:	75.0 °F
Pressure @ High Point (Cal/Measure):	675 psig	Elevation @ High Point:	30.0 ft	Restrained:	58.0 °F
Pressure @ Low Point (Cal/Measure):	675 psig	Elevation @ Low Point:	30.0 ft	Location:	00+00
				Location:	03+75
				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
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Minimum Test Pressure (Calculated/Measured): 620 psig

Were leaks observed?	No	Explain:
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Acceptable Hydrostatic Test?	Yes	<p>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.</p> <p>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.</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>
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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		Comment	Bleed	Inject	
					Unrestrained	Restrained				
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		
File Name	RCP 61362 - 41		WATER

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.
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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		
File Name	RCP 61362 - 41		WATER

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.



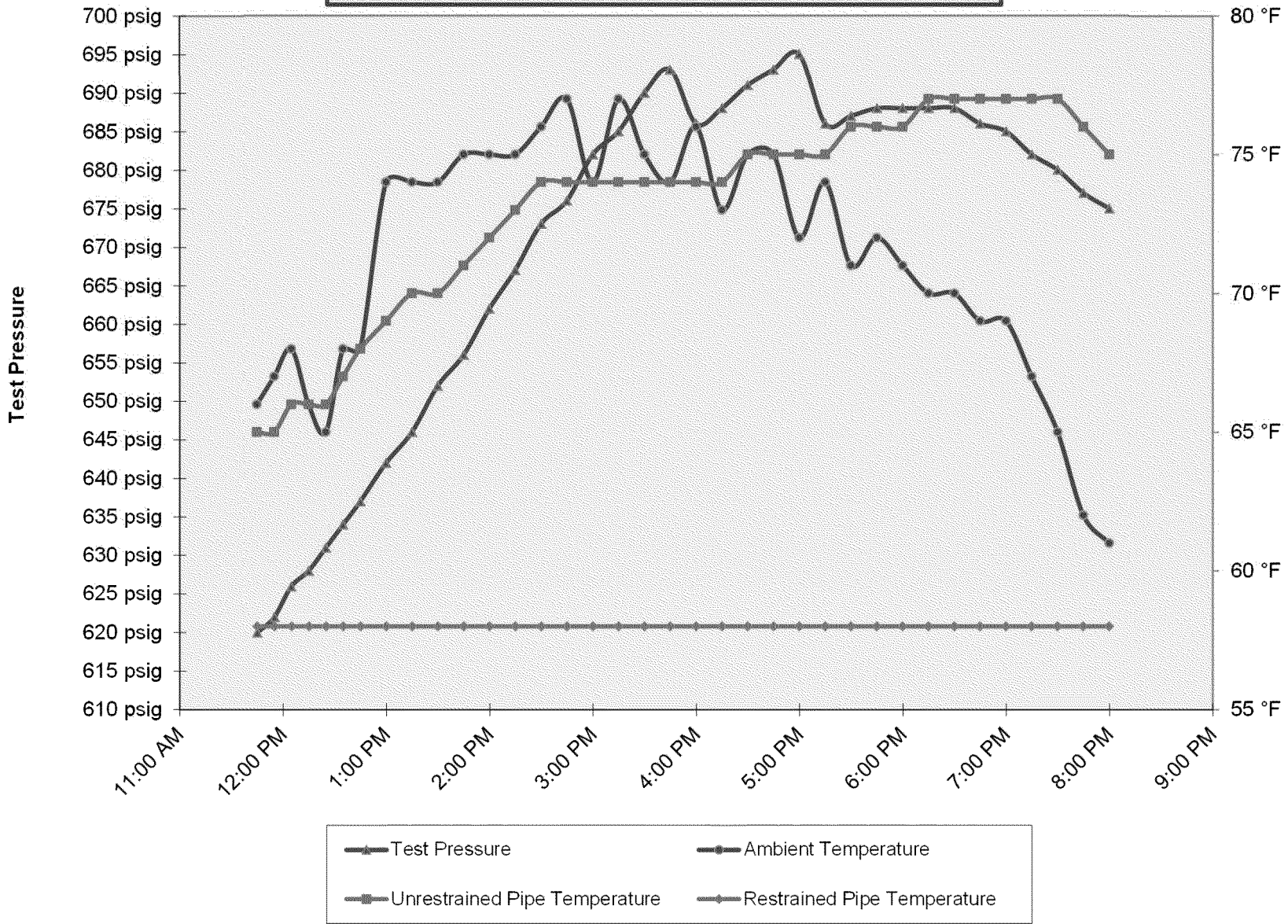
Hydrostatic Test Pipe Data Table

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

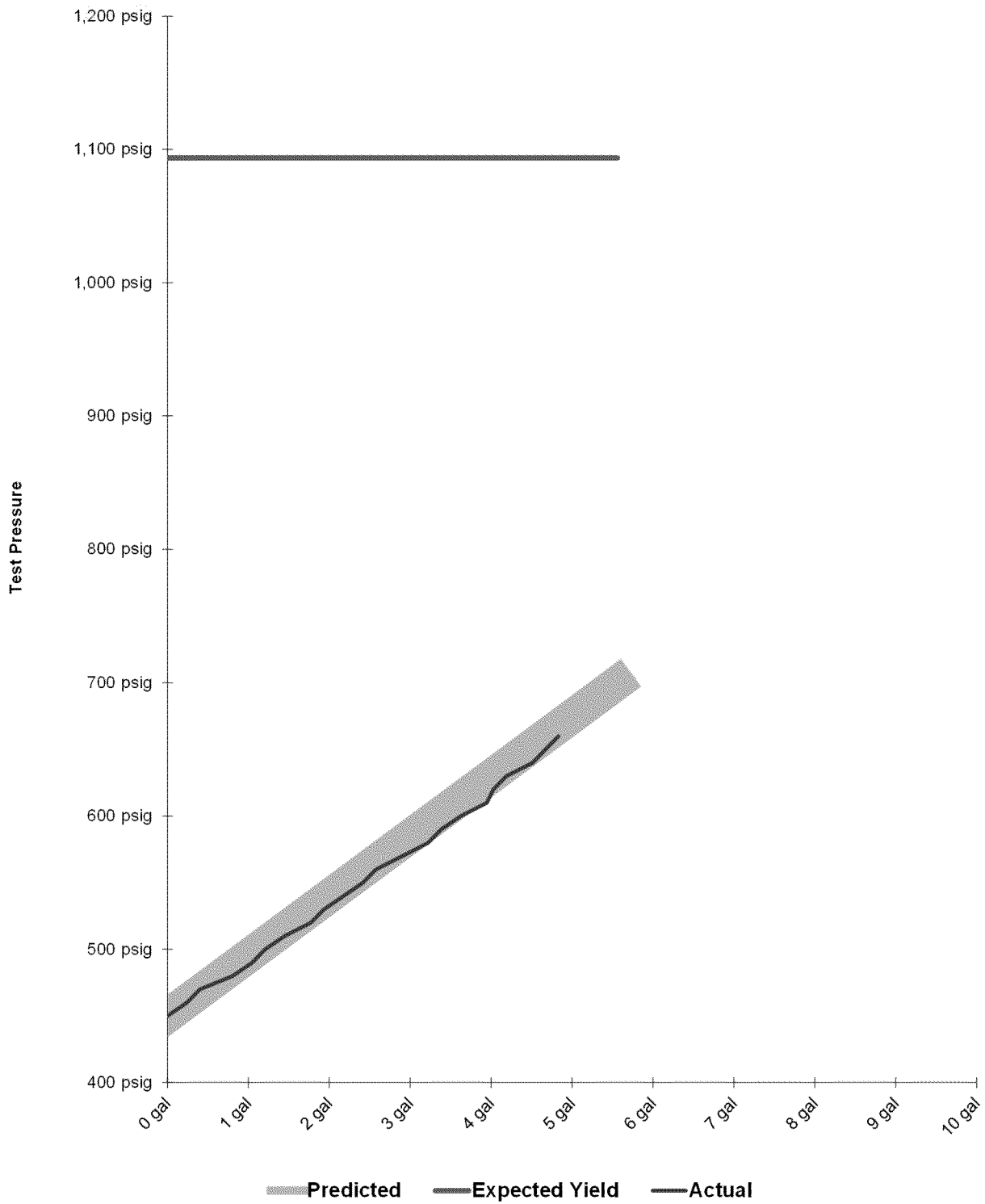
Hydrostatic Test Project Owner & Participants

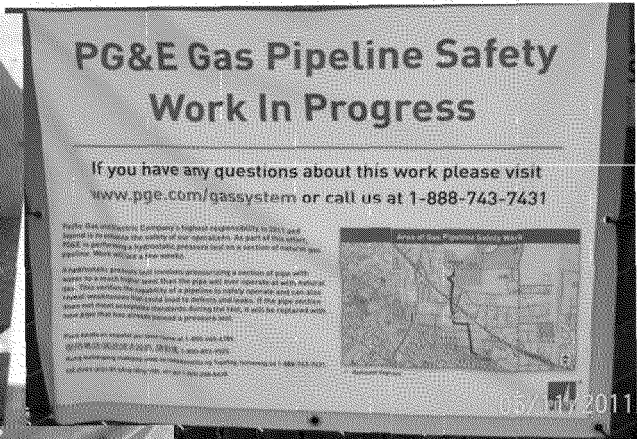
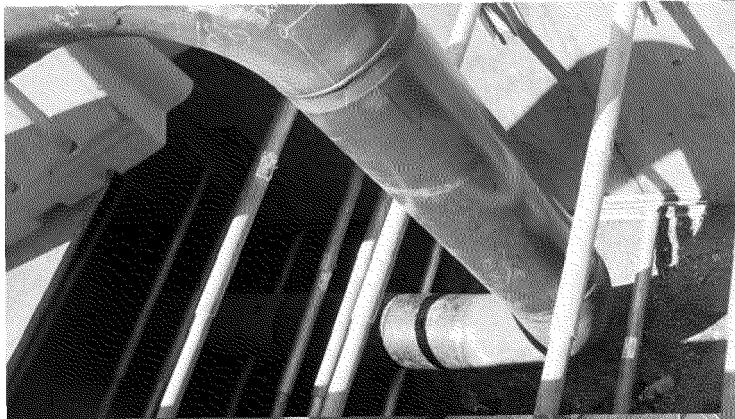
Owner Company	Pacific Gas and Electric Company	Job Number
Address	3600 Adobe Rd Petaluma, Ca 94954 Attention: Joel Mannie	41474079
Construction Company	ARB	Job Number
Address	1875 Loveridge Road Pittsburg, CA 94565 Attention: Redacted	0629-53C
Hydrostatic Test Co.	Contra Costa Inspection Company	Project 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	

PG&E Line 132A T- 41



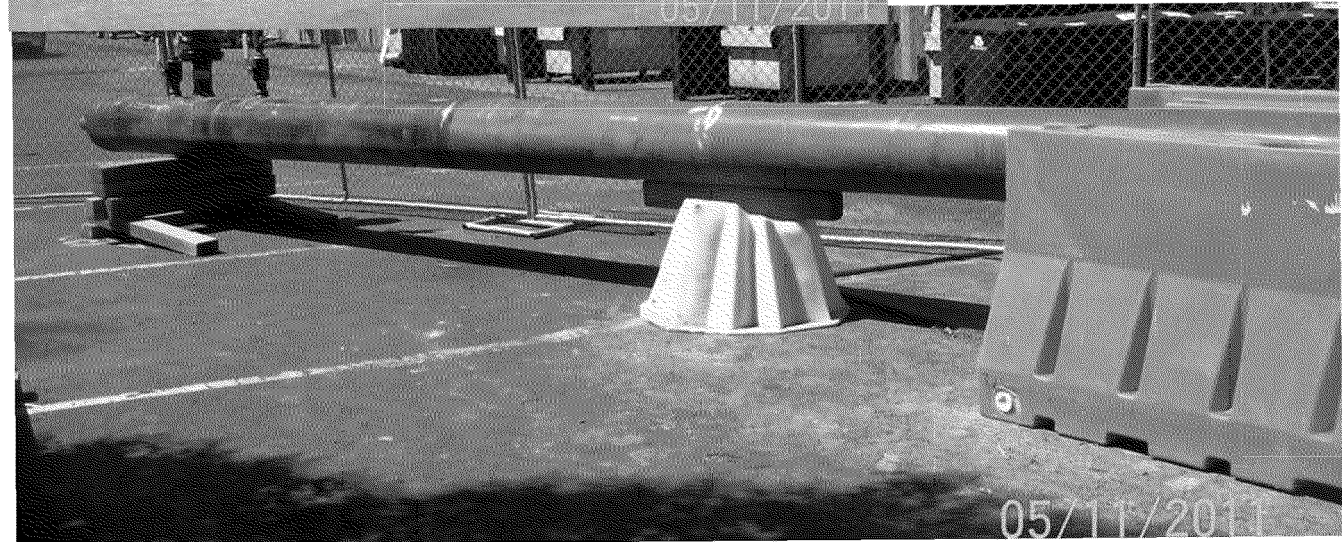
Stress Strain Curve -- PG&E Line 132A T- 41

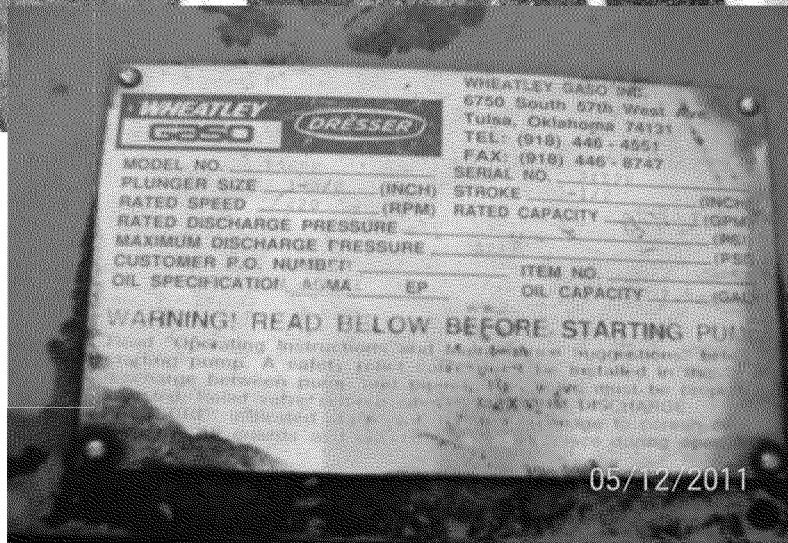
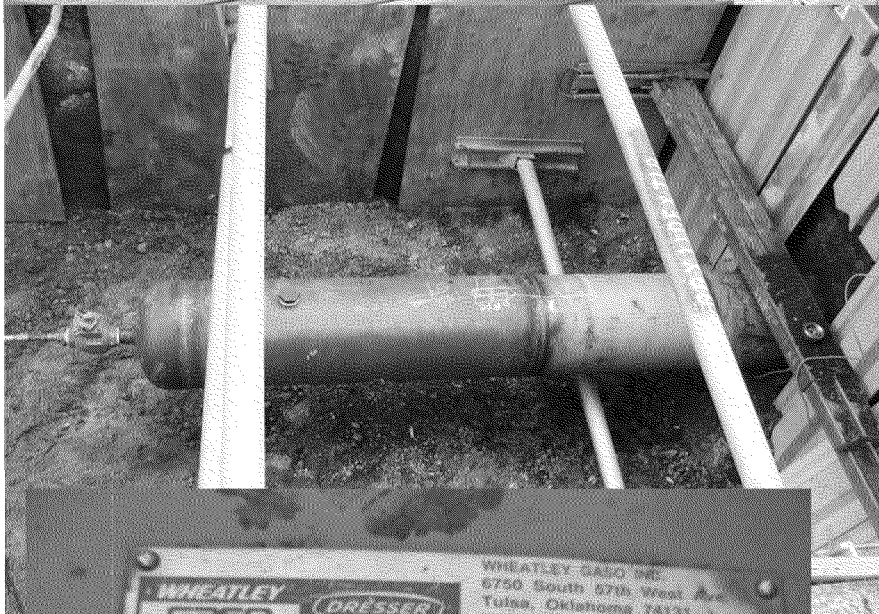
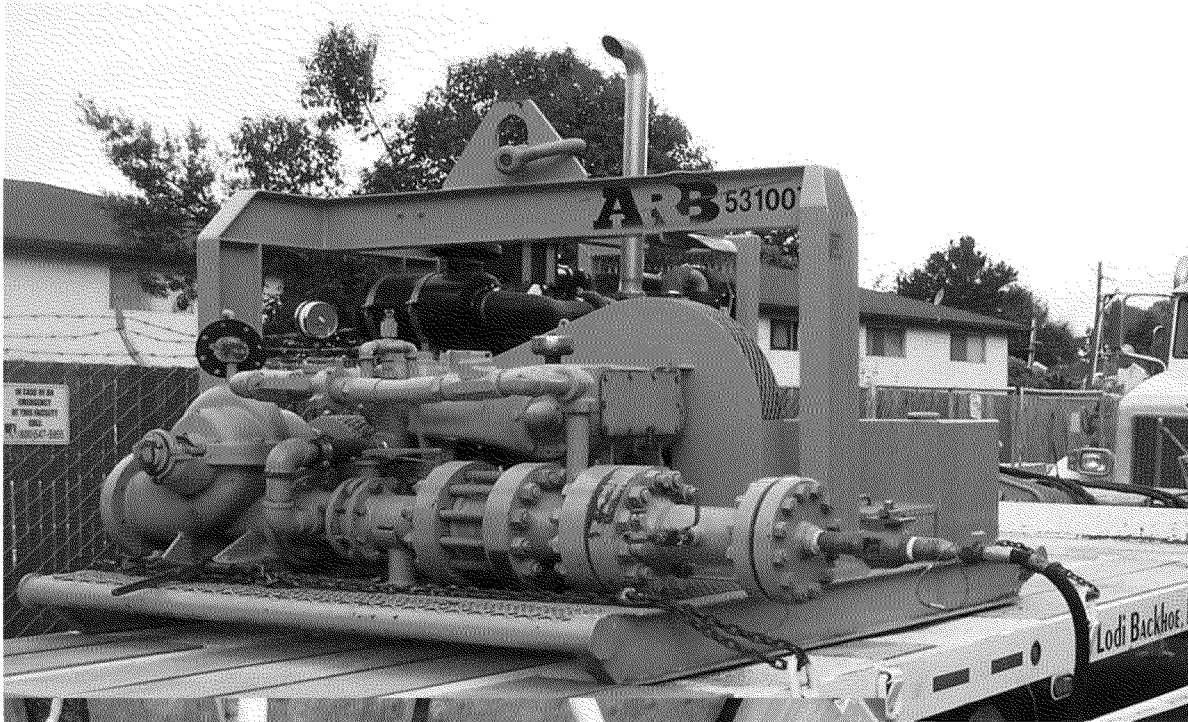




**Test Section # 41
Map**

**Exposed / Unrestrained Pipe
Segments**

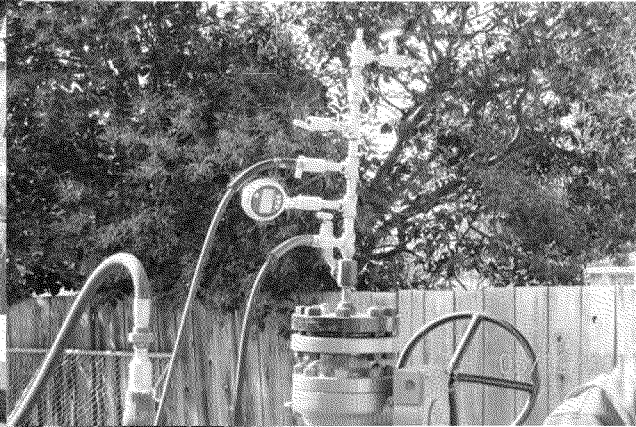




Pressure Pump and Pressure Connection to Test Section

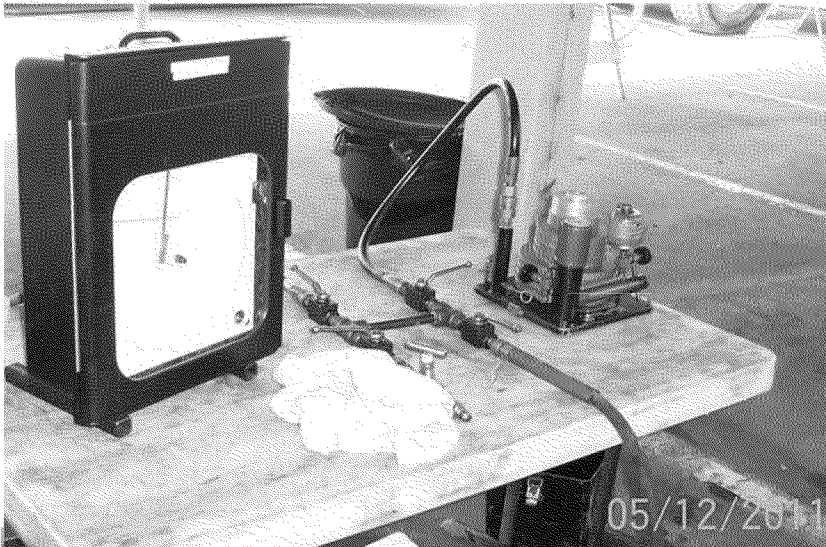


Pressure Recorder and Dead Weight Connection to Test Section



Pump Pressure Connection

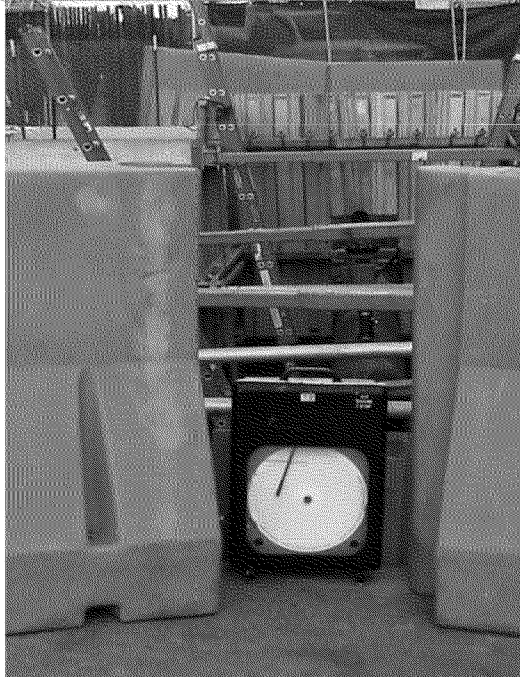




Dead Weight and Pressure Recorder

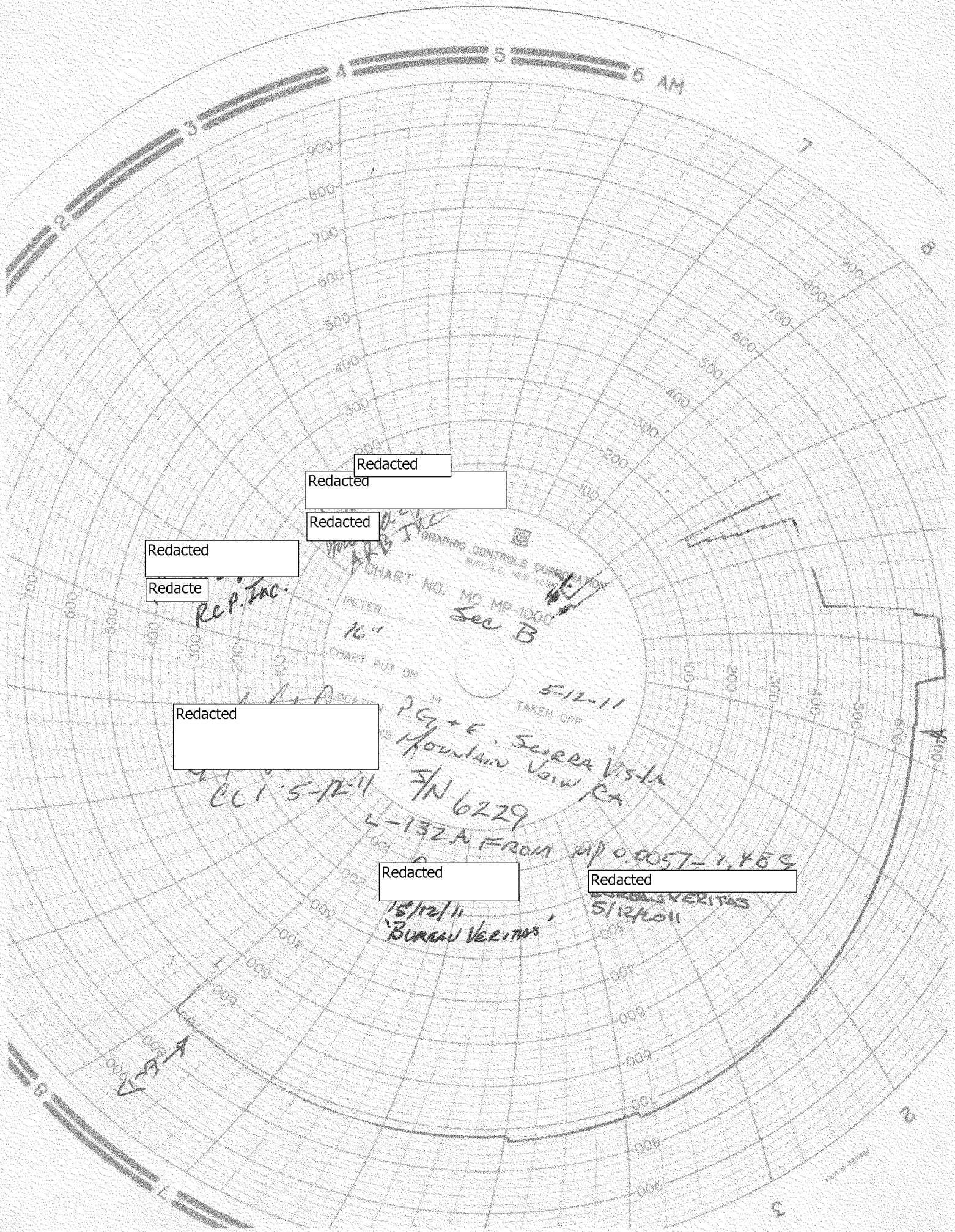


Unrestrained Pipe Temperature Recorder



Restrained Pipe Temperature Recorder





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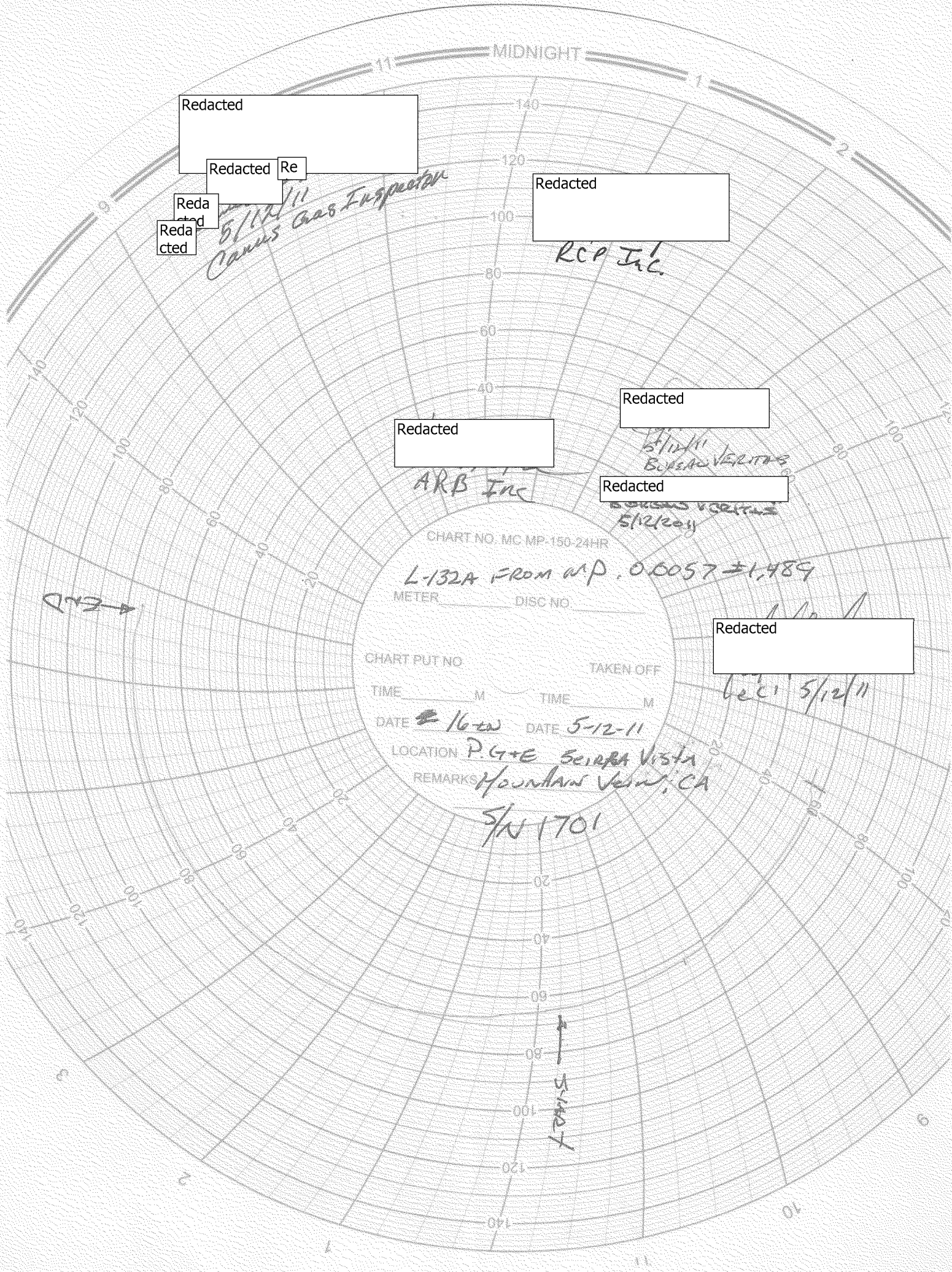
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5/12/11
Canus Gas Inspector

Redacted

RCP Inc.

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ARB Inc

Redacted

5/12/11
BUREAU VERITAS
5/12/2011

CHART NO. MC MP-150-24HR

L-132A FROM MP. 0.0057 ± 1.989

METER DISC NO

← 242

Redacted

CHART PUT NO TAKEN OFF

TIME M TIME M

DATE 5/16/11 DATE 5-12-11

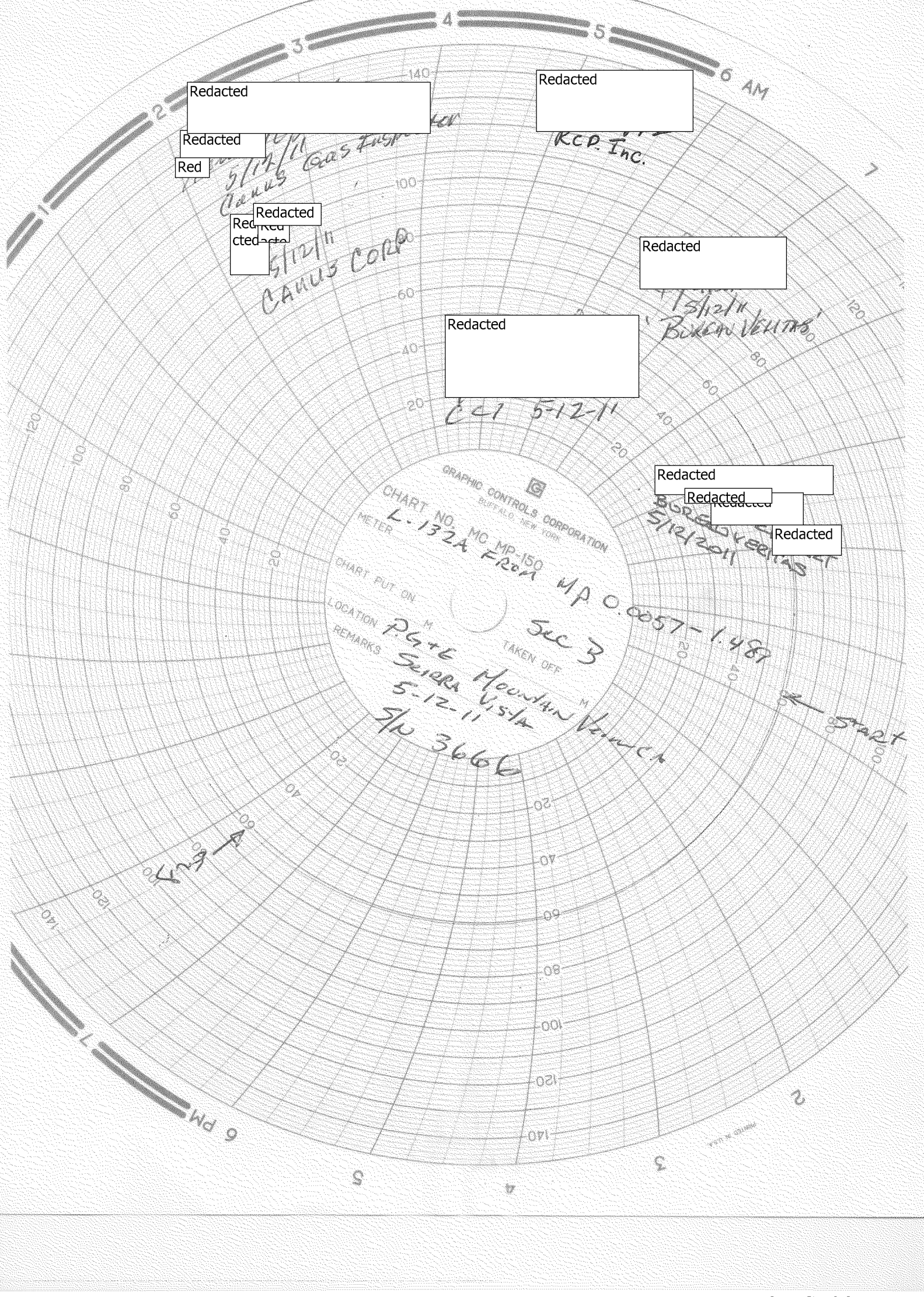
LOCATION P.G+E Sierra Vista

REMARKS Mountain View, CA

5/N 1701

621 5/12/11

↑ 5/12/11



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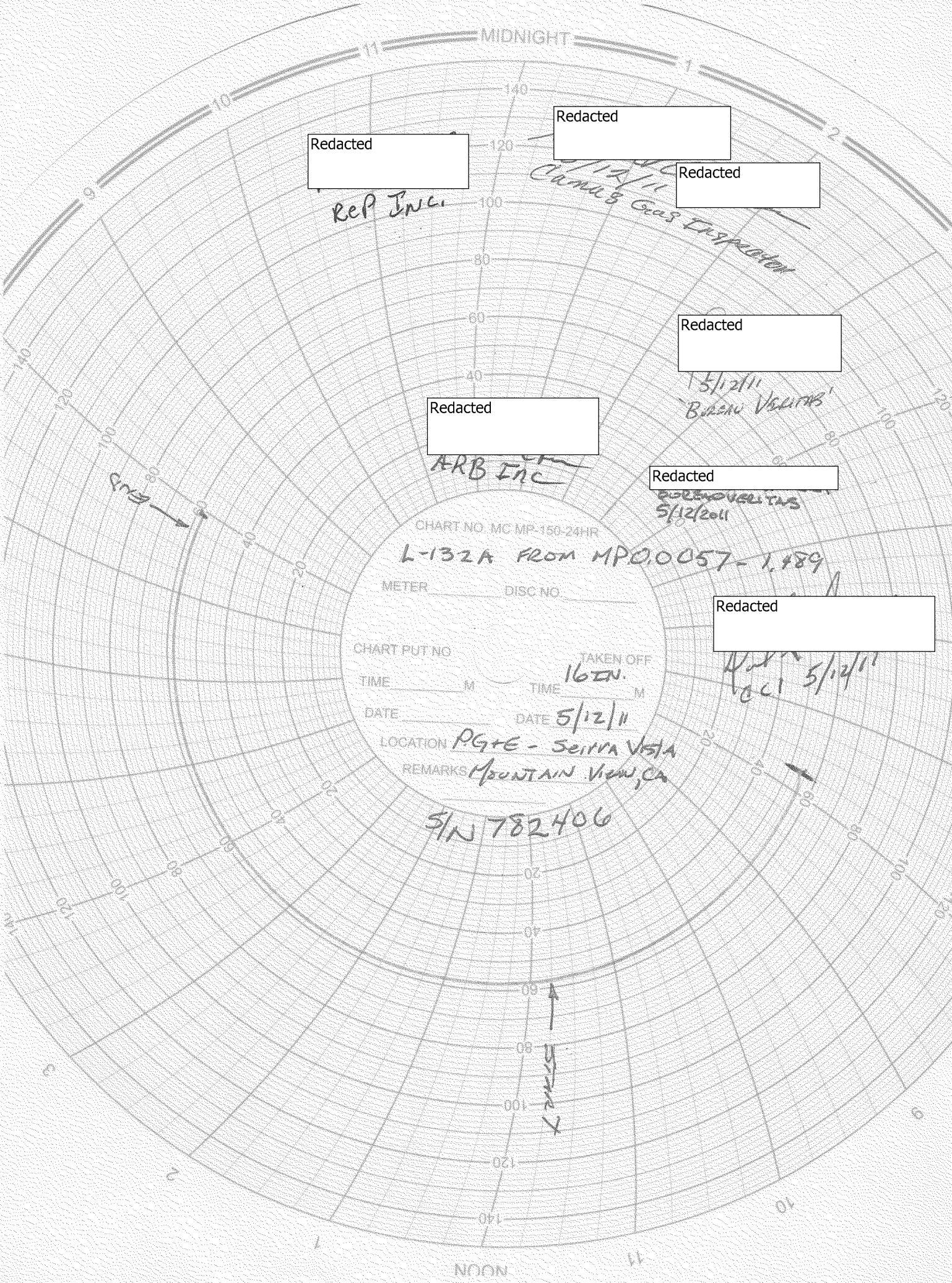
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GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP 150
L-132A FROM METER
CHART PUT ON
LOCATION
REMARKS
TAKEN OFF

5/12/11
CANUS CORP
K.C.P. INC.
5/12/11
BUREAU VERITAS
P. 4 + 6
SEIRA Mountain View
5-12-11
SP 3666

START



Redacted

Redacted

Redacted

REP INC

5/12/11
Canon Gas Dispenser

Redacted

Redacted

5/12/11
BUREAU VERITAS

ARB INC

Redacted

BUREAU VERITAS
5/12/2011

CHART NO. MC MP-150-24HR

L-132A FROM MPO, 0057-1, 489

METER _____ DISC NO. _____

Redacted

CHART PUT NO _____

TAKEN OFF

TIME _____ M

TIME _____ M

16 EN.

DATE _____

DATE 5/12/11

LOCATION PG+E - Sierra Vista

REMARKS MOUNTAIN VIEW, CA

061 5/12/11

5/12/11
782406

DRINK X

#2

SERRA VISTA

Resident

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		-32.02	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

DATE

PIPELINE OPERATOR'S REPRESENTATIVE ON SITE

DATE

SEND TEST TO:

NAME OF PERSON CERTIFYING TEST DATA FOR WITNESSING FIRM

DATE

#1

Jo Jo

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 PG&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
 50 16"
 40 24" Exposed
 290' Buried



MINIMUM PIGGING EQUIPMENT

SERVICE.	EQUIPMENT	No.	SUPERVISOR APPROVAL	TIME/ DATE
Pipeline Fill	5B Bare Swab Pig HP (16-inch)	1	Redacted	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 #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