



Pacific Gas and Electric Company
Gas Pipeline Facilities Strength Test Pressure Report
 (For Pipeline Facilities Designed to Operate over 100 PSIG)

62-4921 (Rev. 2/04)
 California Gas Transmission
 (Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 1

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-300B	Area Central	Division/District Kern	Job Number 41497335-T80	Date Job Authorized 7-30-11
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Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Test 2 - Segment A-B - Existing 34" materials listed are from the "Material of Record" (refer to DWG 41497335, sheet 5)
Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300B

Hydrotest L-300B from MP 237.49 - 240.56 Segment A-B Tehachapi, CA (Test section 80)

Location Class 2	Design Factor (F) .60	MAOP to be Established for this Piping by this Test 803 PSIG	Future Design Pressure 816 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation 4396 Ft.	Static Head Calculation For Water 0.433 X Elev. Diff. = 116.5 PSIG Other (Specify) _____ X Elev. Diff. = _____ PSIG
	Min. Elevation 4127 Ft.	
	Elev. Diff. 269 Ft.	

Size		API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
O.D.	W.T.				At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.500	API 5L, GR X46, DSAW (Item#2)	95	MOR.	59.35	74.21	84.78	1218
34.00	.500	API 5L, GR X65, DSAW (Item#101)	97	72.9'	42.00	52.52	60.00	1721
34.00	.375	API 5L, GR X52, DSAW (Item#1)	16631	MOR.	70.01	87.53	99.99	1032
34	.375	API 5L GR X-65 DSAW	6.25		52.80	66.05	72.67	1290
34	.500	API 5L GR X-60	14'		42.90	53.66	59.05	1588
34	.505	API 5L GR X-60	20'		42.47	53.13	58.46	1604

Minimum Test Pressure @ Max. Elevation 1004 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) 8 HOURS
Maximum Test Pressure @ Min. Elevation 1147 PSIG		

Redacted
 For Information or Changes, Call: **Mark Cabral (925) 588-3640**
 Approved By: *Mark Cabral* Date: **7-30-11**

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 10:35 AM 8/26/11	Elevation at Test Point 4344 FT	Min. Required Test Press. At Test Point (1) 1027 PSIG	Max. Allowable Test Press at Test Point (4) 1053 PSIG
Time and Date Test Ended 6:45 PM 8/26/11	Max. Elevation In Test Section 4396 FT	Min. Indicated Test Pressure (2) 1031 PSIG	Max. Indicated Test Pressure (5) 1035 PSIG
Actual Duration of Test 8 hr. 10 min.	Min. Elevation In Test Section 4127 FT	Min. Test Pressure at Max. Elevation (3) 1008 PSIG	Max. Test Pressure at Min. Elevation (6) 1129 PSIG

Test Fluid Used: **Water**
 Pipe Specification and Footage Verified (See Part I): *See above*

Make, Range, and Serial No. of Pressure Recording Gauge Barton, 0-3000#, 629082	Date Last Calibrated 6/17/11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler, 50-3000#, 5198	Date Last Calibrated 6/17/11
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Test Supervised By: **Redacted** Date: **8-26-11**
 Approved By: _____ Date: _____

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET
 SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

- NOTES:**
- Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
 - Use lowest pressure on test gauge at any time during test.
 - Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
 - Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
 - Highest pressure on test gauge at any time during test.
 - Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
 - A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.
- DISTRIBUTION**
 JOB FILE (AT SPONSORING ORGANIZATION)
 GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT
 PROJECT MANAGER/PROJECT ENGINEER
 TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY
 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)
 RECORDS SECTION (WC), GMS&TS
 REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

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Pacific Gas and Electric Company
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 (For Pipeline Facilities Designed to Operate over 100 PSIG)

62-4921 (Rev. 2/04)
 California Gas Transmission
 (Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 1

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-300B		Area Central	Division/District Kern	Job Number 41497335-T80	Date Job Authorized 7-30-11			
Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts Test 3 - MLV 237.50B Test Assembly to facilitate hydrotest (See Dwg 41497335-T80, SHT 4) TESTED WITH MAIN LINE TEST #2								
Hydrotest L-300B from MP 237.49 - 240.56 Segment A-B Tehachapi, CA (Test section 80)								
Location Class 2	Design Factor (F) .60	MAOP to be Established for this Piping by this Test 803 PSIG		Future Design Pressure 816 PSIG				
STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Max. Elevation <u>0</u> Ft.	Static Head Calculation					
		Min. Elevation <u>0</u> Ft.	For Water $0.433 \times \text{Elev. Diff.} =$ <u>0</u> PSIG					
		Elev. Diff. <u>0</u> Ft.	Other (Specify) <u>Air</u> $\times \text{Elev. Diff.} =$ <u>0</u> PSIG					
Pipe Specification			Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
12.75	.500	API 5L, GR B, SMLS (item#9)	8	MOR	29.25	36.57	41.78	2471
1.05	.113	API 5L, GR B, SMLS (item#10)	32'	MOR	10.66	13.33	15.23	6780
34.00	.375	API 5L, GR X52, DSAW (item#1)	33'	MOR	70.01	87.53	99.99	1032
34.00	.500	API 5L, GR X65, DSAW (item#101)	A	B	42.00	52.52	60.00	1721
Minimum Test Pressure @ Max. Elevation		1004 PSIG		Test Fluid To Be Used Water	MINIMUM TEST DURATION			8 HOURS
Maximum Test Pressure @ Min. Elevation		1147 PSIG			- UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)			

Redacted For Information or Changes, Call: **Mark Cabral (925) 588-3640** Approved By: *Mark Cabral* Date: **7-30-11**

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	10:35 AM 8/26/11	Elevation at Test Point	4344 FT	Min. Required Test Press. At Test Point (1)	1027 PSIG	Max. Allowable Test Press at Test Point (4)	1053 PSIG	1044 PSIG
Time and Date Test Ended	6:45 PM 8/26/11	Max. Elevation in Test Section	4344 FT	Min. Indicated Test Pressure (2)	1031 PSIG	Max. Indicated Test Pressure (5)	1035 PSIG	1035 PSIG
Actual Duration of Test	8 hr. 10 min.	Min. Elevation in Test Section	4344 FT	Min. Test Pressure at Max. Elevation (3)	1031 PSIG	Max. Test Pressure at Min. Elevation (6)	1035 PSIG	1035 PSIG
Test Fluid Used Water		Pipe Specification and Footage Verified (See Part I)						
Make, Range, and Serial No. of Pressure Recording Gauge Barton, 0-3000#, 629092		Date Last Calibrated 6/17/11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler, 50-3000#, 5198		Date Last Calibrated 6/27/11		Redacted	
Test Supervised By Redacted		Date: 8-26-11	Approved By:		Date:		Redacted	

PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED.

NOTES:

- Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
- Use lowest pressure on test gauge at any time during test.
- Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
- Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
- Highest pressure on test gauge at any time during test.
- Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
- A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.

DISTRIBUTION

- JOB FILE (AT SPONSORING ORGANIZATION)
- GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT
- PROJECT MANAGER/PROJECT ENGINEER
- TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY
- CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)
- RECORDS SECTION (WC), GSM&TS
- REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING



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Sheet 1 of 1

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)

Feeder Main Number, Line Number, or Station Name L-300B	Area Central	Division/District Kern	Job Number 41497335-T80	Date Job Authorized 7-30-11
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Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts
Test 1 - Cut caps to facilitate hydrotest (See Dwg 41497335-T80, SHT 4) TESTED WITH MAIN LINE TEST # 2
REV 1 - Change 12.75" OD x 0.375" WT to 12.75" OD x 0.500" WT as per the Drawing BOM and MOR
 Hydrotest L-300B from MP 237.49 - 240.56 Segment A-B Tehachapi, CA (Test section 80)

Location Class 2	Design Factor (F) .60	MAOP to be Established for this Piping by this Test 803 PSIG	Future Design Pressure 816 PSIG
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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	N/A	Ft.	Static Head Calculation For Water Other (Specify)	0.433 X Elev. Diff. = 0 PSIG X Elev. Diff. = 0 PSIG
	Min. Elevation	N/A	Ft.		
	Elev. Diff.	N/A	Ft.		

Pipe Specification			Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)			At MAOP	At Min. Test Press.	At Max. Test Press.	
34.00	.500	API 5L, GR X65, DSAW	8'	0	42.00	52.52	60.00	1721
34.00	.505	CAPS, GR Y60	2 ea		45.05	56.33	64.35	1604
12.75	.500	API 5L, GR B, DSAW	10'	33'	29.25	36.57	41.78	2471
12.75	.500	ELBOW, GR B	1 ea		29.25	36.57	41.78	2471
12.75	.500	GR B, CAP	1 ea		29.25	36.57	41.78	2471

Minimum Test Pressure @ Max. Elevation	1004 PSIG	Test Fluid To Be Used WATER	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1147 PSIG			

Redacted For Information or Changes, Call: **Scott Clapp (530) 514-6482** Approved By: *[Signature]* Date: **8/4/11**

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	10:35 AM 8/26/11	Elevation at Test Point	4344 FT	Min. Required Test Press. At Test Point (1)	1027 PSIG	Max. Allowable Test Press at Test Point (4)	1053 PSIG
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Actual Duration of Test	8 hr. 10 min.	Min. Elevation in Test Section	4344 FT	Min. Test Pressure at Max. Elevation (3)	1031 PSIG	Max. Test Pressure at Min. Elevation (6)	1035 PSIG

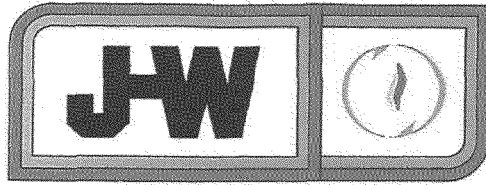
Test Fluid Used: **Water** Pipe Specification and Footage Verified (See Part I)

Make, Range, and Serial No. of Pressure Recording Gauge Barton 0-3000#, 629082	Date Last Calibrated 6/17/11	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Chandler, 50-3000# 5198	Date Last Calibrated 6/17/11
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Redacted Date: **8-26-11** Approved By: _____ Date: _____

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- NOTES:**
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 RECORDS SECTION (WC), GSM&TS
 REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING



J-W MEASUREMENT COMPANY

669 AERO DRIVE
SHREVEPORT, LA 71107
888-226-9110

CERTIFICATE OF CALIBRATION

Customer: MILBAR Manufacturer: CHANDLER
BRANCH: MODEL NO: 5-1

INSTRUMENT: DEADWEIGHT GAUGE (3000#) DW#15 TT#20

SERIAL NUMBER: 5198

CALIBRATION DATE: 6/17/2011

RECERTIFICATION DUE DATE: 12/17/2011

TESTED AND CERTIFIED BY: Redacted

ACCURACY: +/- .05% OF FULL SCALE

**ALL UNITS ARE CALIBRATED AND CERTIFIED WITH TEST EQUIPMENT
TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS
TECHNOLOGY (NIST).**

MANUFACTURER: REFINERY SUPPLY

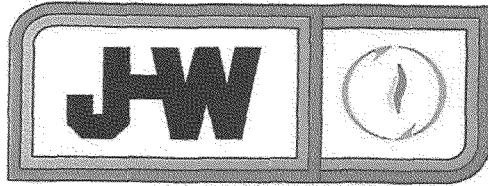
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SERIAL NUMBER: 2206

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J-W MEASUREMENT COMPANY

669 AERO DRIVE
SHREVEPORT, LA 71107
888-226-9110

CERTIFICATE OF CALIBRATION

Customer: MILBAR Manufacturer: BARTON
BRANCH: Model No.: 242

INSTRUMENT: TEMP. RECORDER (150F) TR#114 TT#20

SERIAL NUMBER: 624085

CALIBRATION DATE: 6/17/2011

RECERTIFICATION DUE DATE: 12/17/2011

TESTED AND CERTIFIED BY: Redacted

ACCURACY: +/-1.0% OF FULL SCALE

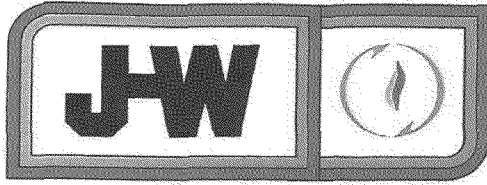
**ALL UNITS ARE CALIBRATED AND CERTIFIED WITH TEST EQUIPMENT
TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS
TECHNOLOGY (NIST).**

MANUFACTURER: COOPER

MODEL: TM99A

SERIAL NUMBER: C294467

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J-W MEASUREMENT COMPANY

669 AERO DRIVE
SHREVEPORT, LA 71107
888-226-9110

CERTIFICATE OF CALIBRATION

Customer: MILBAR
BRANCH: Manufacturer: BARTON
MODEL NO. N/A

INSTRUMENT: PRESS. RECORDER (3000#) PR#90 TT#20 DOWNSTREAM

SERIAL NUMBER: 624082

CALIBRATION DATE: 6/17/2011

RECERTIFICATION DUE DATE: 12/17/2011

TESTED AND CERTIFIED BY: Redacted

ACCURACY: +/-1.0% OF FULL SCALE

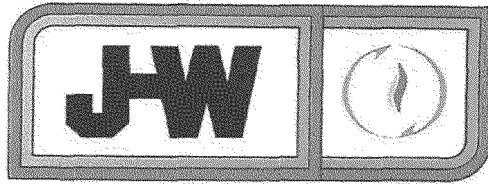
**ALL UNITS ARE CALIBRATED AND CERTIFIED WITH TEST EQUIPMENT
TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS
TECHNOLOGY (NIST).**

MANUFACTURER: DRUCK

MODEL: DPI104

SERIAL NUMBER: 3084547

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J-W MEASUREMENT COMPANY

669 AERO DRIVE
SHREVEPORT, LA 71107
888-226-9110

CERTIFICATE OF CALIBRATION

Customer: MILBAR
BRANCH: Manufacturer: BARTON
Model No.: 242

INSTRUMENT: DUAL TEMP. RECORDER (150F X 150F) TR#54 TT#20

SERIAL NUMBER: 242E-47478

CALIBRATION DATE: 6/17/2011

RECERTIFICATION DUE DATE: 12/17/2011

TESTED AND CERTIFIED BY: Redacted

ACCURACY: +/-1.0% OF FULL SCALE

**ALL UNITS ARE CALIBRATED AND CERTIFIED WITH TEST EQUIPMENT
TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS
TECHNOLOGY (NIST).**

MANUFACTURER: COOPER

MODEL: TM99A

SERIAL NUMBER: C294467

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STROKE / PRESSURE LOG

Date: 8/26/11

Page: 1 of 2

Company & Contractor: PG&E / Snelson Co.		Project: PG&E Hydro-Test	
Contract Number: FY 12-112	Location: Tehachapi, CA	Pipe Description: 34 " O.D. 0.375 " W.T. X-52 Grade	
Section Number(s): T-80	From: MP/STA 237.49 MP / 0+00	To: MP/STA 240.56 MP / 167+59	Length: 3.17 Mi.

Pressure Unit Location: STA: 0+00	Pressure Unit Number: 993	Gallons/Stroke: 0.551
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Date & Time Start Pump: 8/26/11 10:04 AM	Pressure: 753	Date & Time Stop Pump: 8/26/11 10:33 AM	Pressure: 1035
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Time	Pressure (psig)	Strokes	Difference	Time	Pressure (psig)	Strokes	Difference
10:04:16	753	0	0	10:33:29	1035	2415	18
10:05:31	763	98	98				
10:06:33	773	183	85				
10:07:31	783	264	81				
10:08:34	793	352	88				
10:09:33	803	436	84				
10:10:33	813	520	84				
10:11:35	823	606	86				
10:12:34	833	690	84				
10:13:35	843	776	86				
10:14:37	853	862	86				
10:15:38	863	947	85				
10:16:41	873	1033	86				
10:17:42	883	1117	84				
10:18:41	893	1203	86				
10:19:40	903	1288	85				
10:20:43	913	1372	84				
10:21:43	923	1458	86				
10:22:43	933	1543	85				
10:23:45	943	1628	85				
10:24:47	953	1716	88				
10:25:46	963	1800	84				
10:26:47	973	1885	85				
10:27:49	983	1971	86				
10:28:50	993	2056	85				
10:29:52	1003	2143	87				
10:30:51	1013	2227	84				
10:31:53	1023	2314	87				
10:32:53	1033	2397	83				

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PG & E

Log Continued: Yes No

Remarks:

Redacted

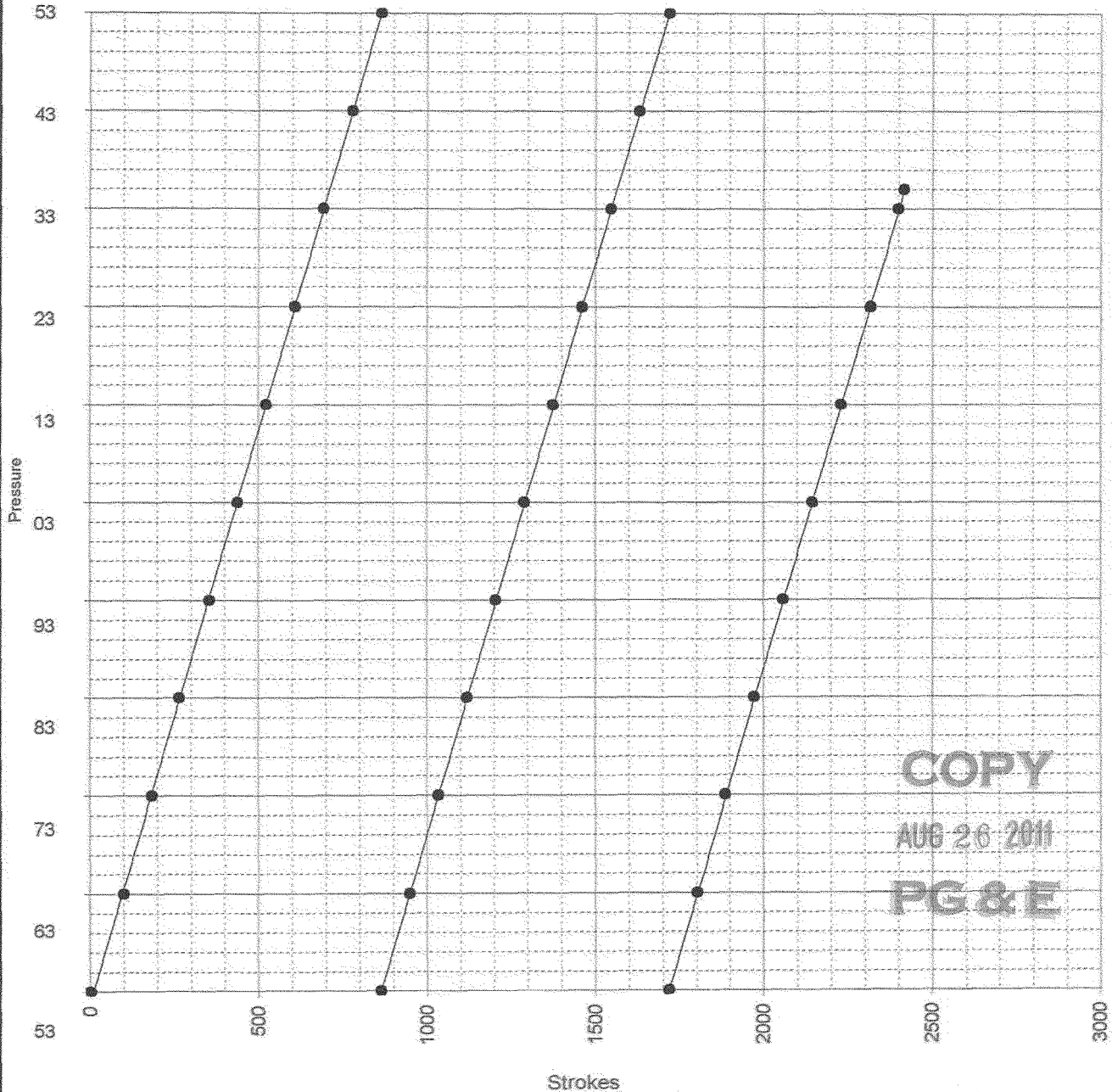


STROKE / PRESSURE PLOT

Date: 08/26/11

Page: 2 of 2

Company & Contractor: PG&E / Snelson Co.		Project: PG&E Hydro-Test	
Contract Number: FY 12-112	Location: Tehachapi, CA	Pipe Description: 34 " O.D. 0.375 " W.T. X-52 Grade	
Section Number(s): T-80	From: 237.49 MP / 0+00	To: 240.56 MP / 167+59	Length: 3.17
Gallons Deviation: -1.07 gallons	Elevation@HP: 4396.0	Total Gallons Pumped: 1331	Gallons/Stroke: 0.551
Deviation/Mile: -0.34 gallons	Stress: 45898 psi/88.3 %	Strokes/PSI: 8.56	Gallons/PSI: 4.72
Equation of Line: y=0.1171x+752.05	Elevation@TS: 4344.0	Strokes/Min: 82.66	PSI/Min: 9.65
	Stress: 46920 psi/90.2 %		
	Elevation@LP: 4127.0		
	Stress: 51184 psi/98.4 %		



Redacted



STROKE / PRESSURE LOG

Date:

Page: of

Company & Contractor: *PG&E / Snelson* Project: *PG&E Hydrotest*
 Contract Number: *FY12-112* Location: *Tehachapi, CA* Pipe Description: *3/4" O.D.* " W.T. Grade
 Section Number(s): *T-80* From: MP/STA To: MP/STA Length:

Pressure Unit Location: Pressure Unit Number: *PT993* Gallons/Stroke: *.537*
 Date & Time Start Pump: *8/26/11 10:04* AM PM Pressure: Date & Time Stop Pump: *8/26/11 10:33* AM PM Pressure: *1035*

Time	Pressure (psig)	Strokes	Difference	Time	Pressure (psig)	Strokes	Difference
10:04:16	753	0	0	10:33:29	1035	2415 2414	18
10:05:31	63	98	98				
10:06:33	73	183	85				
10:07:31	83	264	81				
10:08:34	93	352	88				
10:09:33	803	436	84				
10:10:33	13	520	84				
10:11:35	23	606	86				
10:12:34	33	690	84				
10:13:35	43	776	86				
10:14:37	53	862	86				
10:15:38	63	947	85				
10:16:41	73	1033	86				
10:17:42	83	1117	84				
10:18:41	93	1203	86				
10:19:40	903	1288	85				
10:20:43	13	1372	84				
10:21:43	23	1458	86				
10:22:43	33	1543	85				
10:23:45	43	1628	85				
10:24:47	53	1716	88				
10:25:46	63	1800	84				
10:26:47	73	1885	85				
10:27:49	83	1971	86				
10:28:50	93	2056	85				
10:29:52	1003	2143	87				
10:30:51	13	2227	84				
10:31:53	23	2314	87				
10:32:53	33	2397	83				

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Log Continued: Yes No

Remarks:

Milbar Superintendent

Date

Company Representative

Date

Company & Contractor: PG&E/Snelson		Project: PG&E Hydro-test	
Contract Number: FY12-112	Location: Tchachapi, LA	Pipe Description: 34" O.D. .375" W.T. X-52	Grade
Section Number(s): T-80	From: MP/STA 0+00	To: MP/STA 167+59	Length:

Pressure Unit Location: 0+00	Pressure Unit #: PT993	Gallons/Stroke: .551	Strokes/10psi: 85
Test Pressure Maximum: 1041	Test Pressure Minimum: 1027	Test Medium: Water	Weather: Sunny AM / Cloudy PM

Instruments	Dead Weight Gauge	Pressure	Temperature (Ambient)	Temperature (Pipe / Ground)	(Other)	(Other)
Range	50-3000#	0-3000#	0-150°F	0-150°F		
Manufacturer	Chandler	Barton	Barton	Barton		
Serial #	5198	629082	624085	242E47478		
Certification	6 11711	6 11711	6 11711	6 11711	1 1	1 1

Date & Time Test Started: 8/26/11 10:35	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	Date & Time Test Ended: 8/26/11 6:45	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
--	---	---	---

Time	Pressure (psig)	Temperature (°F)		Remarks	Time	Pressure (psig)	Temperature (°F)		Remarks
		Ambient	Pipe / Ground				Ambient	Pipe / Ground	
6:15AM	123	73	75/75	Begin Press.	2:45	1033	86	81/76	
9:01	753	77	78/75	Leak Check	3:00	1033	84	83/76	
9:16	752	80	78/75		3:15	1033	84	83/76	
9:31	752	83	80/75		3:30	1033	83	83/76	
9:46	752	87	80/75		3:45	1033	83	83/76	
10:01	752	90	81/75	End Leak Check	4:00	1032	84	83/76	
10:03	752	90	81/75	Pumping	4:15	1032	84	83/76	
10:35	1035	93	83/76	Start test	4:30	1032	85	82/76	
10:45	1034	95	81/76		4:45	1032	85	82/76	
11:00	1034	96	85/76		5:00	1032	85	82/76	
11:15	1034	97	86/76		5:15	1032	85	82/76	
11:30	1034	97	86/76		5:30	1031	85	81/76	
11:45	1034	97	87/76		5:45	1031	85	81/76	
12:00PM	1034	97	88/76		6:00	1031	85	80/76	
12:15	1034	96	88/76		6:15	1031	85	80/76	
12:30	1034	95	87/76		6:30	1031	84	80/76	
12:45	1034	92	87/76		6:45	1031	84	79/76	End Test
1:00	1034	91	86/76						
1:15	1034	91	87/76						
1:30	1034	92	87/76						
1:45	1033	92	86/76						
2:00	1033	90	86/76						
2:15	1033	88	86/76						
2:30	1033	87	86/76						

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Log Continued: Yes No

Remarks:

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

Redacted



Hydrostatic Test Log Sheet

Owner Company	Pacific Gas & Electric Company	Job Number	414197335-T80
Construction Co.	Snelson	Job Number	41474005-T80
Testing Co.	Milbac Hydro-test Inc.	Job Number	FY12-112

Test Section	Name	Station (0+00)		Elevation (Feet)	
	Test Location	0+00		4344	
	Begin	0+00		4344	
	End	167+59		4334	
	High Elevation	54+40		4396	
	Low Elevation	84+00		4127	

Pipe Data	Section	Length (ft.)	O. D. (in.)	W.T. (in.)	Restrained (ft.)	Unrestrained (ft.)	Grade	Seam/Joint Type
	1	95'	34	.500	95'		X-46	DSAW / Arc Weld
	2	16,631'	34	.375	16,631'		X-52	DSAW / Arc Weld
	3	81'	34	.500		81'	X-65	DSAW / Arc Weld
	4	40'	34	.500		40'	X-65	DSAW / Arc Weld
	5	41'	12.750	.500		41'	B	SM / Arc Weld
	6	32'	1.315	.113		32'	B	SM / Arc Weld
	7	33'	34	.375		33'	X-52	DSAW / Arc Weld
	8	4'	34	.500		4'	X-65	DSAW / Arc Weld
	9	6'	34	.375		6'	X-65	DSAW / Arc Weld
	10	14'	34	.500		14'	X-60	DSAW / Arc Weld
	11	20'	34	.505		20'	X-60	DSAW / Arc Weld
	12							

Test Period	Date	Time	Test Medium	Water	<input checked="" type="checkbox"/>	
	Begin	8/26/11		10:35 AM	Nitrogen	<input type="checkbox"/>
	End	8/26/11		6:45 PM	Other	<input type="checkbox"/>

Test Instrumentation	Description	Calibration Checked	Serial Number	Date Calibrated/Certified	Installation Correct
	Dead Weight Pressure Tester		5198	6/17/11	<input type="checkbox"/> Yes
	Pressure Recorder	<input type="checkbox"/> Yes		6/17/11	<input type="checkbox"/> Yes
	Ambient Temperature Recorder	<input type="checkbox"/> Yes	624085	6/17/11	<input type="checkbox"/> Yes
	Restrained Pipe Temperature Recorder	<input type="checkbox"/> Yes	242E47478	6/17/11	<input type="checkbox"/> Yes
	Unrestrained Pipe Temperature Recorder	<input type="checkbox"/> Yes	242E47478	6/17/11	<input type="checkbox"/> Yes

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		
1	8:15 AM	123	73	75	75				
2	9:01	753	77	75	78			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3	9:16	752	80	75	78			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
4	9:31	752	83	75	80			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5	9:46	752	87	75	80			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6	10:01	752	90	75	81			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
7	10:03	752	90	75	81			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	10:35	1035	93	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
9	10:45	1034	95	76	84			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
10	11:00	1034	96	76	85			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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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		
11	11:15	1034	97	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	11:30	1034	97	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
13	11:45	1034	97	76	87			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14	12:00pm	1034	97	76	88			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
15	12:15	1034	96	76	88			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
16	12:30	1034	95	76	87			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
17	12:45	1034	92	76	87			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
18	1:00	1034	91	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
19	1:15	1034	91	76	87			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
20	1:30	1034	92	76	87			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
21	1:45	1033	92	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22	2:00	1033	90	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
23	2:15	1033	88	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
24	2:30	1033	87	76	86			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
25	2:45	1033	86	76	84			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
26	3:00	1033	84	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
27	3:15	1033	82	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
28	3:30	1033	83	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
29	3:45	1033	83	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
30	4:00	1032	84	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
31	4:15	1032	84	76	83			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
32	4:30	1032	85	76	82			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
33	4:45	1032	85	76	82			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
34	5:00	1032	85	76	82			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
35	5:15	1032	85	76	82			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
36	5:30	1031	85	76	81			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
37	5:45	1031	85	76	81			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
38	6:00	1031	85	76	80			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
39	6:15	1031	85	76	80			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
40	6:30	1031	84	76	80			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
41	6:45	1031	84	76	79			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
42								<input type="checkbox"/> Yes <input type="checkbox"/> No	
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	

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Was a leak observed during test Period? Yes No

If "Yes", Explain:

High Test Pressure: 1035
Low Test Pressure: 1031

Certification:

Redacted

Date: 8-26-11