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

) ORIGINAL DOCUMENT SIGNED 6-19-11

) original document signed to original document signed

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

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PART I -	DESIGN I	DATA (TO B	E PREPARI		ROJECT			danta baranian		· · · · · · · · · · · · · · · · · · ·						
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Hydrotest	L-132 fro	m MP 3.05					•	section 2	5)			~		11/200		
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SB_GT&S_0482599



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

Sheet 2 of 3 PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Feeder Main Number, Line Number, or Station Name Joh Number Date Job Authorized 41474078 L-132 De Anza June 06, 2011 Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts TEST 2 - Hydrostatically test tie-in piping, hydrostatic test piping and existing 24" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, etc. are from the "Material of Record" (refer to Dwg. 41474078, Sheet 7) Hydrotest L-132 from MP 3.05 - 4.00 Santa Clara, CA (Test section 25) 8 Design Factor (F) MAOP to be Established for this Piping by this Test Location Class Future Design Pressure 3 .5 400 400 **PSIG** 19 STATIC HEAD DUE TO Max. Elevation Ft. Static Head Calculation 0 8 Ft. **PSIG ELEVATION DIFFERENCE** Min. Elevation For Water 0,433 X Elev. Diff. = 19 (WHERE APPLICABLE) Elev. Diff. Ft. X Elev. Diff. = **PSIG** Other (Specify) Pipe Specification Pipe Spec. and % of SMYS Pressure to API or ASTM Grade Footage Verified Footage to Size At Min. At Max Give 90% O.D W.T Long Seam (ERW, DSAW, Seamless, Etc.) Be Tested In Field MAOP Test Press Test Press SMYS 24.00 .375 API 5L, GR X-60, DSAW 38' 51.56 21.33 (item#106) 36.27 41.60 1688 24.00 .281 API 5L, GR B, 40000 SMYS, SMLS 4400.0 4375.1 M.O.R. 42.70 72.60 83.27 843 ALAK (item#1) API 5L, GR B, SMLS 24.00 .375 (item#2) 19' M.O.R. 36.57 62.17 71.31 984 24.00 .375 900' API 5L, GR X-60, DSAW (item#3) M.O.R. 21.33 36.27 41.60 1688 24.00 .500 API 5L, GR X-52, SMLS 146' M.O.R. (item#4) 18,46 31.38 36.00 1950 24.00 .375 Ell, Forged, LR, Y-60 (item#123) 4 Ea. 4 Ea. 21.33 36.27 41.60 1688 24.00 .281 Ell, Forged, LR, GR Unknown (item#5) 5 Ea. M.O.R. 24.00 375 Ell, Forged, LR, GR Y-52 M.O.R. 24.62 (item#6) 6 Ea. 41.85 48.00 1463 24.00 .500 Ell, Forged, LR, GR B 4 Ea. M.O.R. (item#7) 27.43 46.63 53.49 1313 24.00 .375 Sleeve, X-52 2 Ea. M.O.R. 24.62 41.85 48.00 1463 (item#9) MINIMUM TEST DURATION Test Fluid 680 HOURS Minimum Test Pressure @ Max. Elevation PSIG To Be Used - UNDER 30% SMYS (1 HR. MINIMUM) WATER - 30% SMYS & OVER (8 HRS, MINIMUM) 780 **PSIG** Maximum Test Pressure @ Min. Elevation - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) Date: 7-14-11 For Information or Changes, Call Ap Redacted Date: Redacted Redacted 06/06/11 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 11:45 pm Min. Required Test Max. Allowable Test 771 Test Pressure Elevation at Test 6-18-11 19 FT (1)Press. At Test Point **680 PSIG** (4)**PSIG** Reached Point Press at Test Point 0800 748 Min. Indicated Time and Date Max. Elevation in Max. Indicated 8 43 6-19-11 (2)Test Ended **Test Section** 19 FT Test Pressure 695 PSIG Test Pressure (5)**PSIG** 8 hr. 15 min Actual Duration Min. Elevation in Min. Test Pressure 756 Max. Test Pressure 695 PSIG of Test Test Section at Max. Elevation (3) **PSIG** at Min. Elevation (6)Test Fluid Used Pipe Specification and Footage Verified (See Part I) Water Make, Range, and Serial No. of Dead Weight Tester (See Note 7)

AMETEK 0-3500 PSI 2846 Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated Date Last Calibrated CPL 1703 0/1000/PSI/ 5-2-11 11-29-10 Date: Appr Redacted Date: Redacted (2) 7-14-11 CLHT 7-13-11 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 JOB FILE (AT SPONSORING ORGANIZATION) "minimum test pressure at maximum elevation" from PART I. Use lowest pressure on test gauge at any time during test. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT Subtract static head due to elevation difference (between test point and maximum elevation) from PROJECT MANAGER/PROJECT ENGINEER 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. TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY 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 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) Indicated test pressure. A dead weight tester is only required when testing to a pressure which produces a stress level of 90% RECORDS SECTION (WC), GMS&TS of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above. REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING DOCUMENT SIGRED 6.21-11 Original - ORIGINAL downwit

PSIG



Location Class

O.D.

24.00

24.00

10.750

10.750

10.750

8.625

6.625

6.625

Prepared By:

Redacted

3.5

Feeder Main Number, Line Number, or Station Name

L-132

STATIC HEAD DUE TO

ELEVATION DIFFERENCE

(WHERE APPLICABLE)

W.T.

.500

.533

.365

365

.250

.322

.432

.280

.216

Minimum Test Pressure @ Max. Elevation

Maximum Test Pressure @ Min. Elevation

Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts

Hydrotest L-132 from MP 3.05 - 4.00 Santa Clara, CA

Design Factor (F)

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

etc. are from the "Material of Record" (refer to Dwg. 41474078, Sheet 7)

Max. Elevation

Min. Elevation

API or ASTM Grade

Long Seam (ERW, DSAW, Seamless, Etc.)

Date

06/06/11

Fley Diff

Pipe Specification

Sleeve, 38000 SMYS

API 5L, GR X-42, ERW

API 5L, GR X-42, ERW

API 5L, GR B, SMLS

Sleeve, GR X-60

Area

MAOP to be Established for this Piping by this Test

Ft.

Ft.

Ft.

(item#10)

(item#11)

(item#12)

(item#12)

(item#13)

(item#13)

(item#13)

(item#14)

680

780

PSIG

PSIG

Redacted

(item#12&13)

7-14-11

19

0

19



Future Design Pressure

Pipe Spec, and

Footage Verified

In Field

M.O.R.

M.O.R.

M.O.R.

M.O.R.

M.O.R.

M.O.R.

M.O.R.

M.O.R.

M.O.R.

0.433 X Elev. Diff, =

X Elev. Diff. =

MAOP

25.26

15.01

14.02

16.83

20.48

15.31

8.76

13.52

9.26

De Anza

(Test section 25)

Static Head Calculation

Footage to

Be Tested

2 Ea.

2 Ea.

70'

6

114' 8"

6' 4"

6"

26'4"

56' 6"

For Information or Changes, Call

Test Fluid

To Be Used

WATER

For Water

Other (Specify)

62-4921 (Rev. 2/04) California Gas Transmission (Use In Accordance with Gas Standard A-34 and GO 112-D) 3 of 3 Sheet Job Number Date Job Authorized 41474078 June 6, 2011 TEST 2 - Hydrostatically test fie-in piping, hydrostatic test piping and existing 24" L-132. Existing pipeline material listed; ie. pipe, elbows, sleeves, 400 PSIG PSIG **PSIG** % of SMYS Pressure to At Min. At Max. Give 90% Test Press. Test Press SMYS 42.95 49.26 1425 25.52 29.27 2399 23.84 27.35 2567 28.61 32.82 2139 34.81 39.93 1758 26.02 29.85 2352 17.09 4108 14.90 22.98 26.36 2663 15.74 18.06 3888 MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) 8 HOURS - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) Annroyed By: Redacted (3) Max. Allowable Test 771 (4) **PSIG** Press at Test Point 243 Max, Indicated 748 (5)Test Pressure PSIG PSIG 756 Max. Test Pressure O.C. **PSIG**

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 1145 pm Test Pressure Min. Required Test Elevation at Test 6-18-11 Reached 19 FT Press, At Test Point (1) **680 PSIG** Point 0800 Time and Date Max. Elevation in Min. Indicated 6-19-11 19 FT **695 PSIG** Test Ended Test Pressure (2)Test Section 8 hrs. 15 min **Actual Duration** Min. Test Pressure Min. Elevation in 695 PSIG of Test **Test Section** at Max. Elevation Test Fluid Used Pipe Specification and Footage Verified (See Part I) Water

2PL 1703/0-1000 PSI est Supposited PSI Redacted

Make, Range, and Serial No. of Pressure Recording Gauge

Date Last Calibrated 5-2-11

Date:

Make, Range, and Sadal No. of Dead Weight Tester (See Note 7) AMETEK 0-3500 PSI 2845

Date Last Calibrated 11-29-11

7-13-11

THE SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET

HOW 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)F EACH ASSEMBLY TESTED.

Redacted

IOTES:

- 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

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

- ORIGINAL SIGNED 6-ZI-11 - ORIGINAL SIGNED 6-19-11

(3) original document signed 6/6/11 6/6/11@ (4) original document signed