Pacific Gas and Electric Company

Gas Pipeline Facilities Strength Test Pressure Report

(For Pipeline Facilities Designed to Operate over 100 PSIG)

FINAL

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	Area	Division/District	Job Number	Date Job Authorized
L-132	1	Peninsula 4/1/97345	41474078-T36B	5/17/11

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

T-36 North-Hydrostatically test tie-in piping, hydrostatic test piping and existing 30"" L-132. Existing material listed; ie. pipe, elbows, sleeves, are from the "Material of Record". (refer to DWG 41474078,Sht .9).

Hydro test L-132 from MP Redacted South San Francisco, CA (Test-Section 36 North-Location B to C)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	.5	200 PSIG	200 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	220 Ft.	Static Head Calculation For Water	0.433 X Elev. Diff. =	79 PSIG
	Min. Elevation	38 Ft.			
	Elev. Diff.	182 Ft.	Other (Specify)	X Elev. Diff. =	PSIG

Pipe Specification: Size O.D.	W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)		Footage to Be Tested	Pipe Spec. and Footage Verified In Field	% of SMYS: At MAOP	At Min. Test Press.	At Max. Test Press.	Pressure to Give 90% SMYS
30.00	.375	API 5L, X-65 DSAW	(Item 28)	38'	MOR	12.31	27.08	36.00	1462
30.00	.375	API 5L, X-52 DSAW	(Item#5)	6298'	MOR	15.38	33.85	45.00	1170
30.00	.375	API 5L, X-52 DSAW	(Item #7)	310'	MOR	15.38	33.85	45.00	1170
6.625	.432	API 5L, Gr B, SMLS	(Item#9)	1'	MOR	4.38	9.64	12.82	4108
30.00	.375	Elbow, Y-33	(Item#12)	6 Ea.	MOR	24.24	53.33	70.91	742
30.00	.375	Elbow, Unknown Grade	(Item#14)	2 Ea.	MOR	-	-	-	-
30.00	UNK	Sleeve, Unknown Grade	(Item#16)	3 Ea.	MOR	-	-	-	-
30.00	.375	Elbow, Y-60, LR		2 Ea.	SK	13.33	29.33	39.00	1350
30.00	.375	API 5L, X-65 DSAW		42'	SK	12.31	27.08	36.00	1462.5

Minimum Test Pressure @ Max. Elevation	440 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	585 PSIG			

Prepared By:	Date:	For Information or Changes, Call:	Approved By:	Date:
Mark Cabral	06/03/11	Redacted	Redacted	6/4/11

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	0645 6/13/11	Elevation at Test Point	44 FT	Min. Required Test Press. At Test Point (1)	516 PSIG	Max. Allowable Test Press at Test Point (4)	582 PSIG
Time and Date Test Ended	1515 6/13/11	Max. Elevation in Test Section	220 FT	Min. Indicated Test Pressure (2)	536 PSIG	Max. Indicated Test Pressure (5)	582 PSIG
Actual Duration of Test	8.5 hours	Min. Elevation in Test Section	38 FT	Min. Test Pressure at Max. Elevation (3)	460 PSIG	Max. Test Pressure at Min. Elevation (6)	585 PSIG

Test Fluid Used: Water

Pipe Specification and Footage Verified (See Part I): Steve Knapp

Make, Range, and Serial No. of Pressure Recording Gauge	Date Last Calibrated	Make, Range, and Serial No. of Dead Weight Tester (See Note 7)	Date Last Calibrated
ITT Barton, 0-1,000, 242E-39611	6-07-2011	EG&G Chandler, 25-5000, 21495A	10/26/2010

Test Supervised By:	Date:	Approved By:	Date:
Redacted	6/13/11	Redacted	6-30-11

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:

(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.
(2) Use lowest pressure on test gauge at any time during test.
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I.
(5) Highest pressure on test gauge at any time during test.
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure.
(7) 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

Pipeline was tested as an assembly with associated piping, fitting and "The Material of Record".

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