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
(Usa in Accordance with Gas Standard A-34 and GO 112-D)

FINAL

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-300A	4	Kern	41587446	10-26-11

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

Test 3 – Segment B-C - Existing 34" materials listed are from the "Material of Record" (refer to DWG 41587446, sheet 6)
Hydrostatically test 34" tie-in piping, hydrostatic test piping and existing 34" L-300A

Hydrotest L-300A from MP 241.6 – 243.74 Segment B-C Cummings Valley to Bear Valley Springs, CA (Test Section 118) B

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
2	.60	803 PSIG	803 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)				Static Head Calculation			
	Max. Elevation	4246	Ft.	For Water	0.433 X Elev. Diff. =	126	PSIG
	Min. Elevation	3956	Ft.	Other (Specify)		X Elev. Diff. =	PSIG
	Elev. Diff.	290	Ft.				

Pipe Specification: Size O.D.	Size 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
34.00	.375	API 5L, GR X52, DSAW (item#1)	~~11172~~	11178.2' BA	70.01	87.53	99.82	1032
34.00	.375	API 5L, GR X65, DSAW (item#101)	~~9~~	Ø BA	56.00	70.02	79.86	1291
34.00	.500	API 5L, GR X46, DSAW (item#2)	97	MOR BA	59.35	74.21	84.63	1218
34.00	.505	ELBOW, GR Y60, 90° (item#113)	(2 Ea.)	BA	45.05	56.33	64.24	1604
34.00	.375	ELBOW, GR Y52, (item#4)	4 Ea.	MOR BA	70.01	87.53	99.82	1032
12.75	.500	API 5L, GR B, SMLS (item#5)	105	MOR BA	29.25	36.57	41.71	2471
2.375	.154	API 5L, GR B, SMLS (item#6)	~~10~~	Ø BA	17.69	22.12	25.23	4085
1.050	.113	API 5L, GR B, SMLS (item#7)	~~10~~	49.0 BA	10.66	13.33	15.20	6780
34.00	.505	API 5L Gr X60 to DSAW	26.0'	26.0' BA	45.05	56.33	64.24	1,604

SB

Minimum Test Pressure @ Max. Elevation	1004 PSIG	Test Fluid To Be Used	MINIMUM TEST DURATION	8 HOURS
Maximum Test Pressure @ Min. Elevation	1145 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)	

Prepared By:	Date:	For Information or Changes, Call:	Approved By:	Date:
Richard Avery	11/2/11	Mark Cabral (925) 588-3640	Mark Cabral	11-2-11

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	10:34 AM 11/15/11	Elevation at Test Point	4050 FT	Min. Required Test Press. At Test Point (1)	1089 PSIG	Max. Allowable Test Press at Test Point (4)	1104 PSIG
Time and Date Test Ended	6:45 PM 11/15/11	Max. Elevation in Test Section	4246 FT	Min. Indicated Test Pressure (2)	1094 PSIG	Max. Indicated Test Pressure (5)	1097 PSIG
Actual Duration of Test	8hr. 11min.	Min. Elevation in Test Section	3956 FT	Min. Test Pressure at Max. Elevation (3)	1009 PSIG	Max. Test Pressure at Min. Elevation (6)	1138 PSIG

Test Fluid Used	Pipe Specification and Footage Verified (See Part I)
Water	BA 9,582 11-15-11

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
Barton 0-3000#, 624082	6/17/11	Chandler, 50-3000#, 5198	6/17/11

Test Supervised By:	Date:	Approved By:	Date:
Joey D. Mathews	11/15/11	Jack Mannel	11-17-11

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:

(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

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