T-77

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 ~~2~~ 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	Southern	Hinkley	41474055-T77	5-19-11

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Test 1 – 34" L-300B tie-in and hydrostatic test piping – Existing 34" pipe from the "Material of Record" (refer to DWG 41474055-T77, sheet 5)

Hydrotest L-300B from MP 126.883 – 127.4994 Newberry Springs, CA (Test section 77)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
1	.72	688 PSIG	688 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Static Head Calculation	
Max. Elevation	1793 Ft.	For Water 0.433 X Elev. Diff. =	.433 PSIG
Min. Elevation	1792 Ft.	Other (Specify) X Elev. Diff. =	PSIG
Elev. Diff.	1 Ft.		

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
34.00	.505	API 5L, GR X60, DSAW (item#101)	40'	66.3' A	38.60	48.31	53.14	1604
34.00	.375	Pipe, GR X-52, DSAW (item #102)	20'	23.7' A	51.98	65.05	71.55	1192
34.00	.3125	Pipe, GR X-52, DSAW (item #1)	3255'	3142.5' A	71.98	90.07	99.07	861

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	861 PSIG	WATER	- 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	947 PSIG			

Prepared By:	Date:	For Information or Changes, Call:	Approved By:	Date:
Mark Cabral *Mark Cabral*	05/19/11	Scott Clapp (530) 514-6482	[signature]	5/27/11

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	9:45 am 6-16-11	Elevation at Test Point	1,792 FT	Min. Required Test Press. At Test Point (1)	861 PSIG	Max. Allowable Test Press at Test Point (4)	947 PSIG
Time and Date Test Ended	6:30 pm 6-16-11	Max. Elevation in Test Section	1,793 FT	Min. Indicated Test Pressure (2)	875 PSIG	Max. Indicated Test Pressure (5)	939 PSIG
Actual Duration of Test	8 hr - 45 min	Min. Elevation in Test Section	1,792 FT	Min. Test Pressure at Max. Elevation (3)	875 PSIG	Max. Test Pressure at Min. Elevation (6)	939 PSIG

Test Fluid Used	Pipe Specification and Footage Verified (See Part I)
Water	A Adrian Transpondo Garcia Survey

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
Chessell Mod. 392 0-3000 psi 0404280	5-20-11	Chandler 50-3000 psi 6106	5-19-11

Test Supervised By:	Date:	Approved By:	Date:
Timothy McKnight [signature]	6-16-11	[signature] CLH7	7-14-11

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.

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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