
JB
Start test
11/10/09
8:40
JB
End test
11/10/09
9:45
P.M. 30677709
Relocate 6" DFM 3002-01 M.P. 1.75
Lafayette Reservoir. Lafayette,
Contra Costa County
11/10/09
8:40 to 9:45. 1 Hour 5 min.
Test Pressure 895 to 900 PSIG
Tested in place with Water
Recording Gauge: Mercury, 0-2000 PSIG
S.N. 890 1310, Date Last Calibrated: 8/24/09
Tested: 831-7" of 8.625" O.D. Steel Pipe & Fittings.
0.188" W.T., API 5L, Gr X-52 ERW
14-6" of 8.625" O.D. Steel Pipe & Fittings.
0.250" W.T. API 5L, Gr X60PSL2, ERW
9-9 3/4" of 6.625" O.D. Steel Pipe & Fittings.
0.280" W.T., API 5L, Gr B, SMLS

14. Length 831'-7" Spec. 8.625 W.T. 0.188"
15. Pipespec. API 5L Gr X-52, ERW
16. Length 14'-6" Spec. 8.625 W.T. 0.250"
17. Pipespec. API 5L, Gr X-42, ERW

STRENGTH TEST INFORMATION

1. JOB PM 3067709 PFM 3002-01 M.P. 1.75
2. LOCATION LaFayette Reservoir; LaFayette. Contra Costa County
3. DATE 11/10/09
4. TIME 8:45 to 9:45 PRESSURE 895 to 900 PSIG
5. LENGTH 7'-9 3/4" DURATION 1 Hour 5min
6. PIPE SPEC. API 5L Gr B, SMLS SPEC. 6.625" W.T. 0.280"
7. RECORDING GAUGE Metcur SERIAL # 8901310
8. RANGE 0-2000 PSIG LAST CALIBRATED 8/24/09
9. DEAD WGT. N/A SERIAL # N/A
10. RANGE N/A LAST CALIBRATED N/A
11. TEST FLUID Water
12. SUPERVISED Jason Brown DATE 11/10/09
APPROVED [signature] DATE 11/12/09

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)

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
DFM 3002-01	2	DIABLO	30677709	

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
Replace 892' of 6" DFM 3002-01 MP 1.75, with 8" pipe Lafayette Reservoir : Lafayette : Contra Costa County

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	0.50	500 PSIG	500 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)			Static Head Calculation		
	Max. Elevation	585 Ft.	For Water	0.433 X Elev. Diff. =	47.6 PSIG
	Min. Elevation	475 Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff.	110 Ft.			

Pipe Specification				Pipe Spec. and Footage Verified In Field	% of SMYS			Pressure to Give 90% SMYS
Size O.D.	Size W.T.	API or ASTM Grade Long Seam (ERW, DSAW, Seamless, Etc.)	Footage to Be Tested		At MAOP	At Min. Test Press.	At Max. Test Press.	
8.625"	0.188"	API 5L X-52 ERW, FBE	940'	831'-7" JR	22.06	33.08	44.11	2041
8.625"	0.250"	API 5L X-42 ERW, FBE	~~10'~~	14'-6" JR	20.54	30.80	41.07	2192
6.625"	0.280"	API 5L GR B SMLS	~~10'~~	9'-9 3/4" JR	16.90	25.35	33.80	2663
~~6.625"~~	~~0.188"~~	~~API 5L X-52 ERW, FBE~~	2'		~~16.94~~	~~25.41~~	~~33.88~~	~~2657~~

Minimum Test Pressure @ Max. Elevation	750 PSIG	Test Fluid To Be Used	MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM)	1 HOURS
Maximum Test Pressure @ Min. Elevation	1000 PSIG	WATER	- 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:
RYAN MOORE	09/02/09	NEIL JENEST 925-974-4152	Neil Jenest	9/2/09

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	8:40 11/10/09	Elevation at Test Point	585 FT	Min. Required Test Press. At Test Point	(1)	750 PSIG	Max. Allowable Test Press at Test Point	(4)	952 PSIG
Time and Date Test Ended	9:45 11/10/09	Max. Elevation in Test Section	585 FT	Min. Indicated Test Pressure	(2)	895 PSIG	Max. Indicated Test Pressure	(5)	900 PSIG
Actual Duration of Test	1 Hour 5min	Min. Elevation in Test Section	475 FT	Min. Test Pressure at Max. Elevation	(3)	895 PSIG	Max. Test Pressure at Min. Elevation	(6)	948 PSIG

Test Fluid Used: Water

Pipe Specification and Footage Verified (See Part I): JR

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
Mercury, 0-2000 PSIG, 8901310	8/24/09	N/A	N/A

Test Supervised By:	Date:	Approved By:	Date:
Jason Brunn			11/19/09

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