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

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-300B	3	Central Coast/Hollister	41497337	9/2/11

Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts
TEST 2 – Hydrostatically test tie-in piping, hydrostatic test piping and existing 34" L-300B Existing pipeline material listed are from the "Material of Record" (refer to Dwg. 41497337 Sheet 5)
Hydrotest L-300B from MP 449.75– 450.7794 Hollister, CA (Test section 87B)
K.L.G.

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	0.50	631	631 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)				Static Head Calculation			
	Max. Elevation	461	Ft.	For Water	0.433 X Elev. Diff. =	60	PSIG
	Min. Elevation	322	Ft.	Other (Specify)		X Elev. Diff. =	PSIG
	Elev. Diff.	139	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	0.500	API 5L, GR X-65, DSAW (item#101)	~~2'~~	K.L.G. 30.3'	33.01	49.54	53.93	1721
34.00	0.375	API 5L, GR X-65, DSAW (item#102)	~~24'~~	K.L.G. 17.5'	44.01	66.05	71.91	1291
34.00	0.344	API 5L, GR X-52, DSAW (item#1)	~~3542'~~	K.L.G 3559' MOR	59.97	90.00	97.98	947
34.00	0.505	API 5L, GR X-60, DSAW (item#2)	~~37'~~	K.L.G 45.5' MOR	35.40	53.13	57.84	1604
36.00	0.500	API 5L, GR X-52, DSAW (item#3)	612'	K.L.G. M.O.R	43.68	65.56	71.38	1300
36.00	0.531	API 5L, GR X-52, DSAW (item#4)	111'	K.L.G. M.O.R.	41.13	61.73	67.21	1381
34.00	0.500	API 5L, GR X-52, DSAW (item#5)	3'	K.L.G. M.O.R.	41.26	61.92	67.41	1376
34.00	0.406	API 5L, GR X-60, DSAW (item#6)	1082'	K.L.G. M.O.R.	44.04	66.09	71.95	1290
34.00	0.505	API 5L, GR X-60, DSAW (item#7)	55.5'	K.L.G. M.O.R.	35.40	53.13	57.84	1604
34.00	0.500	API 5L, GR X-65, DSAW (item#8)	27'	K.L.G. M.O.R.	33.01	49.54	53.93	1721

Minimum Test Pressure @ Max. Elevation	947 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	1031 PSIG		

Redacted Date: 9-4-11 | For Information or Changes, Call: Mark Cabral (925) 588- 3640 | Approved By: Mark Cabral Date: 9-4-11

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	10/8/11 9:08 AM	Elevation at Test Point	460 FT	Min. Required Test Press. At Test Point	(1)	947.43 PSIG	Max. Allowable Test Press at Test Point	(4)	971.20 PSIG
Time and Date Test Ended	10/9/11 5:23 PM	Max. Elevation in Test Section	461 FT	Min. Indicated Test Pressure	(2)	960.00 PSIG	Max. Indicated Test Pressure	(5)	969.00 PSIG
Actual Duration of Test	8 hours 15 minutes	Min. Elevation in Test Section	322 FT	Min. Test Pressure at Max. Elevation	(3)	959.57 PSIG	Max. Test Pressure at Min. Elevation	(6)	1027.80 PSIG

Test Fluid Used: Water
Pipe Specification and Footage Verified (See Part I): K.L.G. A-603

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 0-2000 2024-175572	6-7-2011	Chandler 50-3000 6106	5-19-2011

Test Supervised By: Redacted Date: 10-8-2011 | Approved By: Jack Mansel Date: 10-13-11

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:

(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

* Additional Item – Cap 34.00" O.D. 0.505" WT., Y-60 (Item# 153) Ea. 1 – K.L.G.

% of SMYS
MAOP Min test Max test 90%

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STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	Max. Elevation	461 Ft.	Static Head Calculation For Water	0.433 X Elev. Diff. =	60 PSIG
	Min. Elevation	322 Ft.			
	Elev. Diff.	139 Ft.	Other (Specify)	X Elev. Diff. =	PSIG

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	% of SMYS At Min. Test Press.	% of SMYS At Max. Test Press.	Pressure to Give 90% SMYS
34.00	0.505	Tee, GR Y60 (item#9)	1 ea.	K.L.G. M.O.R	35.40	53.13	57.84	1604
34.00	0.505	Elbow, Y60, 45 deg, 3R (item#10)	4 ea.	K.L.G. M.O.R	35.40	53.13	57.84	1604
34.00	0.505	Valve, Ball, ANSI 300 (item#11)	1 ea.	K.L.G. M.O.R	-	-	-	-
34.00	0.344	Elbow, Grade unknown (item#12)	2 ea.	K.L.G. M.O.R.	-	-	-	-
36.00	0.500	Elbow, Y52, 45 deg, LR (item#13)	4 ea.	K.L.G. M.O.R	43.68	65.56	71.38	1300
34.00	0.406	Elbow, Grade unknown (item#14)	1 ea.	K.L.G. M.O.R	-	-	-	-
1.050	0.154	API 5L, GR B, SMLS (item#15)	10'	K.L.G. M.O.R.	6.15	9.22	10.04	9240
1.660	0.140	API 5L, GR B, SMLS (item#16)	10'	K.L.G. M.O.R.	10.69	16.04	17.46	5313
2.375	0.154	API 5L, GR B, SMLS (item#17)	15'	K.L.G. M.O.R	13.90	20.86	22.71	4085
2.375	UNK	Valve, Ball, ANSI 600 (item#18)	1 ea.	K.L.G. M.O.R	-	-	-	-

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Redacted 9-4-11 Redacted Redacted Date: 9-4-11

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