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-300B	3	Hinkley/Kern	41497341	9/29/11

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. 41497341 Sheet 4) ***Rev. 1 – Moved Location A and Location B changing MOR footages on item#1 and item#2***

Hydrotest L-300B from MP 152.66 – 155.26 Barstow, CA (Test section 79A)

Location Class	Design Factor (F)	MAOP to be Established for this Piping by this Test	Future Design Pressure
3	0.50	Corrected elev. per Test procedure. 688	688 PSIG

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)		Static Head Calculation		
	Max. Elevation 2137 ~~2184~~ MS Ft.	For Water	0.433 X Elev. Diff. =	17 ~~34~~ MS PSIG
	Min. Elevation 2097 ~~2105~~ MS Ft.	Other (Specify)	X Elev. Diff. =	PSIG
	Elev. Diff. 40 ~~79~~ MS Ft.			

Pipe Specification						% of SMYS			
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	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)	~~48'~~	61.2' MS	35.99	53.98	61.46	1721
34.00	0.505	Elbow, GR Y-60	(item#118)	4 ea.	4 ea. MS	38.60	57.90	65.92	1604
34.00	0.4375	API 5L, GR X-48, DSAW	(item#1)	~~9940'~~	9940.1' MS	55.70	83.54	95.12	1112
34.00	0.500	API 5L, GR X-46, DSAW	(item#2)	~~3902'~~	3717.7' MS	50.85	76.28	86.85	1218
34.00	0.4375	Elbow, Grade unknown	(item#3)	4 ea.	MOR	-	-	-	-
34.00	0.500	Elbow, X-52, 45 deg	(item#4)	4 ea.	MOR	44.98	67.48	76.83	1377
34.00	0.500	Elbow, Grade unknown	(item#5)	1 ea.	MOR	-	-	-	-
34.00	0.505	API 5L GR. X 60, DSAW		43.8' MS	43.8' MS	38.60	57.90	65.92	1,604
34.00	.375	API 5L GR. X 65, DSAW		2.7' MS	2.7' MS	47.99	71.96	81.95	1,290

		Test Fluid To Be Used	MINIMUM TEST DURATION	
Minimum Test Pressure @ Max. Elevation	1032 PSIG	WATER	- UNDER 30% SMYS (1 HR. MINIMUM)	8 HOURS
Maximum Test Pressure @ Min. Elevation	1175 PSIG		- 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:
Redacted	9/29/11	Mark Cabral 925-588-3640	Mark Cabral	9-29-11

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	9:48am 10/11/11	Elevation at Test Point	2097 ~~2137~~ FT MS	Min. Required Test Press. At Test Point (1)	1049 PSIG	Max. Allowable Test Press at Test Point (4)	1175 PSIG
Time and Date Test Ended	6:30pm 10/11/11	Max. Elevation in Test Section	2137 FT	Min. Indicated Test Pressure (2)	1072 PSIG	Max. Indicated Test Pressure (5)	1153 PSIG
Actual Duration of Test	8hr. 42min.	Min. Elevation in Test Section	2097 FT	Min. Test Pressure at Max. Elevation (3)	1055 PSIG	Max. Test Pressure at Min. Elevation (6)	1153 PSIG

Test Fluid Used	Pipe Specification and Footage Verified (See Part I)
Water	Mark Sobata

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	Date:
Redacted	10/11/11	Redacted	11-2-11

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

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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