

## Pacific Gas and Electric Company Gas Pipeline Facilities Strength Test Pressure Report

(For Pipeline Facilities Designed to Operate over 100 PSIG)



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-105N 41449662-T11															
Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts  Test 1Tie-in pieces, hydrostatic test piping & existing 24" L-105N. Existing pipeline material listed; pipe & elbows are from the "Material of Record"  (refer to DWG 41449622-T11, Sheet 5 of 5)															
Hydrotest L-105N from Redacted (Test section 11)															
Location Clas													00 PSIG		
STATIC HEAD DUE TO Max. Elevation 37 Ft. Static Head Calculation															
ELEV	ATION DIFFE	RENCE	Min. Elevatio	n	19 Ft. For Water				·	7.8 PSIG					
(WH	ERE APPLICA	BLE)	Elev. Diff.		18 Ft.	Other	(Specify)			Diff. =		PSIG			
Pipe Specification Size API or ASTM					da	Footage to	Pipe Spec, and Footage Verified At				6 of SMYS At Min.			Pressure to Give 90%	
O.D.	W.T.	Long	Seam (ERW, D		Be Tested		In Field				Test Press.	Test Press.		SMYS	
24.00	.375	API 5L, GR X60, DSAW (item#106)					55'	<u>A</u> 55'		_f	26.67 40.00		45.33		1688
24.00	.375	Pipe, GR X-52, DSAW (item #5)					4591'	4591' MOR			30.77	46.15	52.31		1463
24.00	.250	Pipe, GR X-52, DSAW (item #6)					15'	A- 33.42' MOR			46.15	69.23	78.46	$\perp$	975
24.00	.375		ed, Y-52, 9			_	3 ea	3 ea MOR		4	26.67	40.00	45,33	-	1688
24.00	.375	Ell, Forg	ed, Y-52, 4	o" (ite	em#3)	+	2 ea	2 ea MOR			30.77	46.15	52.31	-	1463
										├					
	Test Fluid MINIMUM TEST DURATION														
Minimum Te	st Pressure	@ Max. Eleva	tion		750	PSIG		le Used ATER			IYS (1 HR. MINIM ER (8 HRS. MINIMI		<u> </u>	8	HOURS
Maximum Te	est Pressure	@ Min. Eleva	tion		850	PSIG		HEK			ION TEST (SEE A		T 'A', GAS ST	Qr A-34	(3)
Prepared By:		k Col	0/11 For Information or Changes, Call: Redacted					1	Approved B Rec	lacted			Date: /iG/1		
M.Cabral				05/10/	ISING TEST AT TIME			9037035570330	Note: Wi	i en en	test pressure and	duration are	not to be abou		ECASIBI
PART II - ICO	DAIALIO	DE FINEFANCU	DIFERSONS	OULEIVAI	IOINO TEOT AT TIME	. OF IC	sory:				written approval.	Outauon are i	not to be chap	ico.	
Time and Date		8:50 am				T		3.5.5.	. 3		1	1	NAME OF		940
Test Pressure Reached 6/5/11				1	Elevation at Test Point		20 FT	Min. Required Test Press. At Test Point (1		(1)	758 PSIG	Max. Allow Press at T		(4)	849 PSIG
Time and Date 5:05				Ī	Max. Elevation in			Min. Indicated				Max. Indic			833
Test Ended 6/5/11  8 hr 15 min				Test Section		37 FT			(2)	780 PSIG	Test Pressure		(5)	PSIG	
Actual Duration of Test				ľ	Min. Elevation in Test Section		19 FT	Min. Test I at Max. El	Max. Test at Min. Ele						
Test Fluid Use Water	d						Annual Consumers		d Footage Verif						
	and Serial No	of Pressure Re	cording Gauge		Date Last C	Calibrate		e, Range, an		Dead V	reight Tester (See	Note 7)	D	ate Last	Calibrated
		242E-3961	2		4/4/11		handler 50-5000 PSI 2-001 21495 Redacted			1 21495	10-26-10 Date:				
Test Supervised By: Date: Redacted S-4-							1.28	cuacicu			SCH	4			. 11 O
PUT SCHEMANC 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: DISTRIBUTION  (1) Add the static head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION)															
"minimum test pressure at maximum elevation" from PART I.  (2) Use lowest pressure on test gauge at any time during test.  GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT															
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.  PROJECT MANAGER/PROJECT ENGINEER															
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from  "maximum test pressure at minimum elevation" from PART I.  TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY															
(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 CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)															
indicated test pressure.  (7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90%  RECORDS SECTION (WC), GMS&TS															
of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.  REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING															

O ORIGINAL DOBUMENT SIGNED 6-30-11

(a) Original Document Signed 6-5-11 3 original document signed 5/10/11 a) original document signed 5/10/11



## 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)

of 2

			E PREPARED BY	PROJECT	V		·			T	NO. 8 10 100					
Feeder Main Number, Line Number, or Station Name Afea Division/District										Job Nu			Date Job Authorized	j ,		
L-105N  Description of Job Include Reference Drawling Numbers, and Pipeline Mileposts										41	41449662-T11					
Test 1Tie	-in piece	s, hydrostatio	wing Numbers, and P otest piping & e Sheet 5 of 5)	xisting 2	osis 4" L-105N	I. Existi	ng pipeli	ne materia	al listed; p	oipe & ell	ows a	re from the "	Material of Re	cord*		
Hydrotesi	L-105N	from Reda	acted		-word	(Test	section 1	1)	orana analysis (patrolina angs)	oʻyn, boʻs son masi suorongogi <u>sada an</u> an			William Willia			
Location Clas	s	Design Factor (F)	MAOP to be I	Established f	or this Piping	by this Te	st	Future E	Design Pressi	ıre			<del></del>	·		
3		.5					00 PSI			T T				i00 PSIG		
STA	TIC HEAD D	UE TO	Max. Elevation	37	_ Ft.	Static Head Calculation					7.0					
ELEVATION DIFFERENCE Min. Elevation 19 Ft.							For Water 0.433 X EI					Elev. Diff. = 7.8 PSIG				
(WHI	ERE APPLIC		Elev. Diff.	18	Ft.	Other (Specify)				X Elev. Diff. =			PSIG			
Siz	(e	Pipe Spo	ecification *: API or ASTM G	fication %; API or ASTM Grade					Pipe Spec. and Footage Verified		T	% of SMYS At Min.	At Max.	Pressure to Give 90%		
O.D.	W.T.		Seam (ERW, DSAW,	eam (ERW, DSAW, Seamless, Etc.)				ln Field		At MAOP		Test Press.	Test Press.	SMYS		
24.00	.375	API 5L, GR X60, DSAW (item#106)				55' _4591* (7)(		HA		26.67		40.00	45.33	1688		
24.00	.375		Pipe, GR X-52, DSAW (item #5)					18 4580		30.77		46.15 69.23	52.31	1463		
24.00 24.00	.250 .375		Pipe, GR X-52, DSAW (item #6) Ell, Forged, Y-52, 90° (item#1)						A EA 18		30.77%		78.46 -52.31/6	975 -4 <del>463</del> -		
24.00	.375		Ell, Forged, Y-52, 45° (item#3)				2-ea-2		-167-1560		7	46.15∆0 46.15	52.31	1463		
									M.O.R.							
				4								et .				
Minimum Te	Test Fluid MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) 8 HOURS															
Maximum Te	est Pressur	e @ Min. Elevat	ion 🕺		850 i	PSIG	WA	TER		S & OVER (8 ALLATION T			'A', GAS STD. A-3	4)		
Prepared By:			Date:	NA A		Information edacted	or Change	s Call		Annro	red Rv	0 00				
M.Cabral			<b>0</b> 5/10				<b>,</b>			Redacted 5/16/11						
PARI II - IES	I DAIA (IC	BE PREPARED I	BY PERSON SUPER	VISING IES	I AL TIME (	)r (ESI)			1 1	nmum test p vithout writte	essure a n approva	nd duration are n	ot to be changed			
Time and Date Test Pressure		8:5	AM Elevation at Test					Min. Require		758 Max. Allov		ble Test	849			
Reached			: () 5. PM	Point		20 FT		Press. At Test Point		(1) PSIG		Press at Te		PSIG		
Time and Date Test Ended	ime and Date			Max. Elevation in Test Section		37 FT		Min. Indicated Test Pressure		(2) 780 PSIG		Max. Indica Test Pressu	re (5)	833 PSIG 850		
Actual Duration	¥.	SHE.	15Mill							est Pressure 773 75			Time root rooms			
Test Fluid Used Pipe Specification of Pipe Specification of Pipe Processes (See Part I)												PSIG				
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																
BARTO Tast Supervise	<u> 3W 0</u>	-1000 PSI	242E-399	012.	4 • 4 • • p	<u>'/</u>	APPL	WALER .	<u>50   50</u>	00 051	2-00	1 2149	5 IO- Date:	26-10		
Test Supervise					65	- K	rippin	wed By Red	acted			といけ	6-30	. 1 1		
SHOW LOCAT	ION OF FAC	ILITY TESTED, N	CK OF THIS SHEET INHMUM AND MAXII OF ALL DRAWINGS	MUMELEVA AND ATTAC	TION IN FEE	ET, MILE P FOR STAT	OINTS, VA	LVE NUMBER G, FABRICATI	S AND INCC ED UNITS AN	RPORATED	AREAS,	USE AN ADDITI S OF PIPE, ALSO	ONAL SHEET IF N	ECESSARY ED SKETCH		
OF EACH ASS NOTES:	EMBLY TES	TED.	-Americanici			***************************************		DIST	RIBUTION			·				
(1) Add the static head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION)																
*minimum test pressure at maximum elevation* from PART I.  (2) Use lowest pressure on test gauge at any time during test.  GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT																
(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*	i test pressu	re al minimum ele	vation* from PART I.	point and mi	ınımum eleva	ioon) from		TECH	NICAL & CO	NSTRUCTIO	N SERVI	ICES - ASSIGNE	D JOBS ONLY			
(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)																
(7) A dead we	Indicated test pressure.  (7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90% RECORDS SECTION (WC), GMS&TS of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the															
of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above.  REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING												GAS ENGINEERI	NG & PLANNING			

M.O.R. = "MATERIAL of RECORD"

Pipeline was tested as an assembly with associated piping, fitting and "The Material of Record".