

62-4921 (Rev. 2/04) California Gas Transmission (Use In Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 3																
PART 1 ~ DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Feeder Main Number, Line Number, or Station Name   Area   Division/District   Job Number   Date Job Authorized																
Feeder Main I		an an an an an an an an a' Charan A	ion Name	Area	Division			ŀ	1	Date Job Authorized						
	L-1			3	L		De A	nza		1149735	50	July 27, 2011				
Test 2-1	lie-in piec	Reference Dra es, hydrost Dwg 41497	atic test p	ping a	eline Mileposts nd existing 24' 7)	'L-132	2. Existing	pipeline ma	aterial listed	d; ie. pip	e, elbov	vs, sleeve	s, are from the	e "Material		
Hydrotest	L-132 fr	om MP 10.3	32 - 13.98	i Moi	untain View, C	)A	(Test se	ction 29)								
Location Class	s D	esign Factor (F)	I MAOI	to be Es	tablished for this Pio	ina by thi	s Test	Future D	esign Pressure							
3		.5					400 ps						4	400 psig		
STAT	FIC HEAD DUI	ETO	Max. Eleval	ion	<u>32</u> Ft.	Static	Head Calculati	nc								
ELEVA	TION DIFFER	ENCE	Min. Elevati	on	Ft.	ForW	ater		0.433 X E	lev. Diff. =		14 PSIG				
(WHERE APPLICABLE) Elev. Diff.					31 Ft.	Other	(Specify)		XI	Elev, Diff, =			PSIC	5		
		and the second se	eclfication					Pipe Sp	ec, and			6 of SMYS		Pressure to		
Siz O.D.	e	Lona		STM GR	ade		Footage to Be Tested	Footage In F		At		At Min. Test Press.	At Max. Test Press,	Give 90% SMYS		
30.00	.375	API 5L, X					2		33	MAOP 24.62		36.92	41.85	1463		
24.00	.375	API 5L, X							FIJE			32.00	36.27	1688		
30.00	.3125	API 5L, X					<u>A3°60.4</u> (3278')	MO		21.33		55.38	62.77	975		
24.00	.344	API 5L, C				<u></u>	-54	6				59.80 67.77		903		
24.00	.3125	API 5L, X					(1696)		7.35				43.52	1406		
24.00	.3125	API 5L, X	and the second se		and the second se		(155')	MO	Alland.	29.5		38.40 44.31	50.22	1219		
24.00	.3125	API 5L, X			Contracting and a second s		75'	MO	<u> </u>	36.5		54.86	62.17	984		
24.00	.281	45000 SN	and the second se	CONTRACTOR OF TAXABLE	North the second se		13600')	MO	R	37.9		56.94	64.53	948		
24.00	.281	40000 SN			and the second se		344'	10 MO	R	42.7	0	64.06	72.60	843		
		@ Max. Eleva			600	PSIG	Tol	st Fluid Be Used	- UNDER 309	1 TEST DURATION % SMYS (1 HR. MINIMUM)			8 HOUR			
Maximum Te	oof Pressure	@ Min. Eleva	fion		680	PSIG		ATER			OVER (8 HRS, MINIMUM) ATION TEST (SEE ATTACHMENT "A", GAS STD, A-			34)		
Prepared By: Redacted		es min Lioru	*	Date:	1	For Inform	nation or Chang Cabral (925			Approv	ed By:	the second s				
			OV PERSON	CONTRACTOR OF STREET	AP7 11 /ISING TEST AT TIA	SPORT SHOW		000-0040				E.		6(-11		
TEST C	snbuche	vo By	Redacte	ed					Note: Minimum test pressure without written appro				not to be cribinged			
Time and Date     11:+10     Pm       Test Pressure     9-9-11					Elevation at Test Point		32- FT		Min. Required Test Press. At Test Point		1) PSIG Pre		vable Test est Point (4)	PSIG		
Time and Date Test Ended 9-10-11					Max. Elevation in Test Section		32 FT	Min. Indicate Test Pressu		2) 4	615 Max. In PSIG Test Pri			660 PSIG		
Actual Duratio	n	OAR	35 m	1947	Min. Elevation in			Min. Test Pr				Max. Test		613.4		
of Test Test Fluid Use	ed.	0	22 m	M:	Test Section	L.	FT Piere Sa	at Max. Elev	ation (. Foolage Verifie	3) d (See Pari	1)	IG at Min. Elevation (6) PSIG				
	VUA	ter					· · · ·		· · · · · · · · · · · · · · · · · · ·					Ts)		
Make, Range, CLP, O		of Pressure Re		0	Date Lasi					ead Weight Tester (See Note 7)			Date Last Calibrated			
Test Reda					Date: 9-10			roved By:	De l	11	1	112 9-13-11				
PUT SCHEMA	TIC PIPING S	KETCH ON BA	CKOFTHIS	SHEET					7							
SHOW LOCAT (SHOW REFE OF EACH ASS	TION OF FACI RENCE NUMI SEMBLY TEST	LITY TESTED, SERS ON FACE ED.	MINIMUM AN E OF ALL DRA	D MAXIN WINGS	AUM ELEVATION IN AND ATTACHMENT	FEET, M S). FOR	IILE POINTS, V STATION PIPI	alve numbef NG, Fabricat	SAND INCOR	PORATED SHORT S	AREAS. L ECTIONS	JSE AN ADDI OF PIPE, ALS	TIONAL SHEET IF SO SHOW A DETAI	NECESSARY LED SKETCH		
NOTES:			Toronoo Thohu	oon laal e	e mumixem bne Inioc	Journal	6-		RIBUTION	ISORING	PCANIZA	TIONS				
"minimun	n test pressure	at maximum el test gauge at a	evation" from	PART I.	John Shu maximum c	acvation	10		LE RESPONS	anna angara ang		and and a second se	л			
(3) Subtract	static head du	a to elevation di			point and maximum	elevationj	) from	- 7	ECT MANAGE				<b>1</b> 3.	٠		
(4) Subtract		e to elevation di			point and minimum e	elevation)	from				34 - 105 - 1					
(5) Highest p	pressure on tes	e at minimum el t gauge at any	time during te	st.	an a	ie nerri							ED JOBS ONLY			
indicated	test pressure.				t and minimum eleva	5.5 a			TAL ACCOUNT	and the second		JEI OFJUB)				
of SMYS	or greater. Ho				re which produces a on any test, enter the				ORDS SECTION	ine en Succ			and the second			
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												<u>.</u>				

Pacific Gas and Electric Company Gas Pipeline Facilities Strength Test Pressure Report (For Pipeline Facilities Designed to Operate over 100 PSIG)

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## Pacific Gas and Electric Company Gas Pipeline Facilities Strength Test Pressure Report (For Pipeline Facilities Designed to Operate over 100 PSIG)

	Sheet _2of _3																	
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)           Feeder Main Number, Une Number, or Station Name         Area         Division/District         Job Number         Date Job Authorized																		
L-132 3 Description of Job – Include Reference Drawing Numbers, and Pipeline Mile						De Anza								50	July 27, 2011			
Test 2-7	lie-in piec	es, hydrosta Dwg 41497	atic test p	iping and	existing 2	4" L-	132. I	Existing p	oipelin	ie ma	terial list	ed; ie.	pipe, elbo	ows, sleeve	es, are froi	n the	"Material	
Hydrotest	L-132 fr	om MP 10.3	32 - 13.9	5 Moun	tain View,	CA	ļ	(Test sec	tion 2	29)	<u>in 1999 - Anna I</u>			11-000-E-1				
Location Class Design Factor (F) MAOP to be Established for this Piping I 3 .5								est 00 PSI	A. 1 197 3	uture De	isign Pressu	re	ilionino en en esta en			4	00 psig	
STAT	IC HEAD DU	tatic Hea	ad Calculatio	n :					*******									
ELEVATION DIFFERENCE Min. Elevation 1							or Water	1			0.433 X	Elev. D	iff. ==		14 <sub>PSIG</sub>			
WHE	ERE APPLICA	BLE)	Elev. Diff.	, in the second s	31 Ft	.   c	ther (Sp	ecify)				(Elev. I	 Diff. =		· · · · · ·			
			ecification							Pipe Spec, and				% of SMYS	Pressure			
Siz O.D.	e W.T.	Long	API or . Seam (ERW,	ASTM Grade DSAW, Sea			Footage to F Be Tested			Footage Verified In Field					in. At Max. ess. Test Press.		Give 90% SMYS	
24.00	.250	API 5L, X						18')	M	101			6.92	55.38	62.77		975	
30.00	.200	Elbow, Y						8 ea.		10k	<del>}</del>		0.77	46.15			1170	
30.00	.375	Elbow, Y						ea.	-11	101	2		8.10	57.14	64.76		945	
30.00	.375	Elbow, G	Elbow, Grade Unknown (Item #12)						Ŵ	MOR=75				ana ang ang ang ang ang ang ang ang ang				
24.00	.375	Elbow, Y-	Elbow, Y-60 (Item #13)						W	MOR			1.33	32.00	36.27		1688	
24.00	.375	Elbow, Y-52 (Item #14)					2		MOR		2	4.62	36.92	41.85		1463		
24.00	.375	Elbow, G			104	ea.		MOK		ļ			-					
24.00 .3125 Elbow, Grade Unknown (Item #16)								(12 ea) MOR										
Minimum Te	st Pressure	@ Max. Eleva	tion		60	0 P	PSIG Test Fluid To Be Used WATER				MINIMUM TEST DURATION         8           - UNDER 30% SMYS (1 HR. MINIMUM)         8           - 30% SMYS & OVER (8 HRS. MINIMUM)         8						HOURS	
Maximum Te	est Pressure	@ Min. Eleva	tion		68							ALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)						
Redacted		-		Date: 7/2.7	-/11			on or Change oral (925)		3640		A	Appipved By: Date: Date: Date: 7-27-11					
PART II - TES	T DATA (TO I	<b>BE PREPARED</b>	BY PERSON	SUPERVISI	NG TEST AT	TIME O	F TEST)					Minimum test pressure and duration are not to be changed						
TEST C	onduch	en bi	Red	acted				CCI		2	1	vithout v	ritten approva	l			3 	
Time and Date Test Pressure			40 Pm	E	Elevation at Te: Point					Required Test At Test Point (1)		av	(1) PSIG		Max, Allowable Test Press at Test Point		GG6.6 PSIG	
Time and Date 8: 15 Am					lax. Elevation	İn	7FT 32- FT		Min. I	Ain. Indicated		(2)	GIS Max Ir		dicaled		660 PSIG	
Test Ended         Q - 10 - 11         Test Section           Actual Duration of Test         8 <sup>H/2</sup> 35 <sup>min</sup> Min. Elevation in Test Section						n					est Pressure 6			5 Max. Test Pressure			673,4	
of Test Test Fluid Use		18	35 m	110 1	est Section			FT at Max. Elevation (3) PSIG at Min. Elevation (6) PSIG Pipe, Spacification and Foolage Verified (See Part I)										
	WAt	ER	τ.						- F	158	4							
CLP, 0-	1000 951	of Pressure Re	cording Gau		5-	2-1	11 AMETER, 0-3000"HL-2845 11								1-21	st Calibrated オートロ		
Te Redact	ed				Date: C		>-11	Appr	oved By	G.	-13-	11	and	There	ui/	Date:		
SHOW LOCAT	TION OF FAC	KETCH ON BA	MINIMUM AN	ID MAXIMUN	A ELEVATION	IN FEE NTS), 1	T, MILE	POINTS, VA	LVE NL	JMBER/	S AND INCO	RPORA	TED AREAS.	USE AN ADD	ITIONAL SHE	ET IF N DETAIL	ECESSARY ED SKETCH	
OF EACH ASS																		
(1) Add the s											DISTRIBUTION JOB FILE (AT SPONSORING ORGANIZATION)							
(2) Use lowe	est pressure or	e at maximum el 1 test gauge at a	ny time durin	g lest.			and the second			GSM8	TS RESPO	VSIBLE	DISTRICT SU	PERINTENDE	NT			
<ul> <li>(2) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.</li> </ul>										PROJECT MANAGER/PROJECT ENGINEER								
(4) Subtract static head due to elevation difference (between test point and minimum elevation) from												IV.						
<ul> <li>"maximum test pressure at minimum elevation" from PART I.</li> <li>(5) Highest pressure on test gauge at any time during test.</li> <li>(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum</li> </ul>										TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)								
indicated	lest pressure.												), GMS&TS		i			
of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the											REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING							



## Pacific Gas and Electric Company Gas Pipeline Facilities Strength Test Pressure Report (For Pipeline Facilities Designed to Operate over 100 PSIG)

11781	Sheet 3_of 3														3			
	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																	
a ser a s						Division/L						Jo						
L-132 Description of Job – Include Reference Drawing Numbers,					De Anza 41497350 July 27,										2011			
Test 2 - T	le-in piec	es, hydrost Dwg 41497	atic test p	iping a	and exist		-132.	Existing	pipelin	ne ma	terial liste	ed; le	. pipe, elb	ows, sleeve	es, are fro	m the	"Material	
		om MP 10.3				iew, CA	1	(Test se	ction 2	29)			7			and the second		
Location Class	. 11	Design Factor (F)	MAO	P to be E	stablished fo	r this Pipin	g by this	Test	F	uture De	esign Pressu	6						
3		.5						400 ps						4	00 psig			
STAT	IC HEAD DU	ETO	Max. Eleva	llion		_ Ft.	ead Calculatio	n						14 <sub>PSIG</sub>				
ELEVA	TION DIFFEI	lon		_ Ft	For Wal	er	ĩ		0.433 X	Elev. [	)iff. =		14					
(WHE	RE APPLICA	the second s	Elev. Diff.		31	Ft.	Specify)		2		Elev.	Diff. =	N		D			
Size	9	Pipe sp	ecification API or	ASTM G	rade			Footage to		Pipe Spe ootage '			At	% of SMYS At Min. At I		<u> </u>	Pressure to Give 90%	
0.D.	W.T.	Long	Seam (ERW											Test Press.	Test Pre		SMYS	
30.00	.375	Reducer			·····	and the second se		2 ea.)		NoK			30.77	46.15	52.3		1170	
30.00	.375	Reducer		And the owner of the owner owner owner owner owner owner ow	2 (Item #	18)		2 ea.)		10	states in the second states in the local data		38.10	57.14			945	
30.00	.500	Sleeve, X-52 (Item #19)						4 ea.)		MOR			23.08	34.62			1560	
24.00	.500	Sleeve, X-52 (Item #20)						<u>3 ea.)</u>		$\frac{10}{10}$			18.46	27.69	31.3		1950	
24.00	.500	Sieeve, X-50 (Item #21)						2 ea.	1	MOR			19.20 25.60	28.80	32.6		1875	
24.00 6.625	.375	Sleeve, X-50 (Item #22) API 5L, GR. B, SMLS (Item #27)						<u>1 ea.)</u> 3'		WOR WOR		L	13.52	38.40 20.28	43.5		1406 2663	
2.375	.200	API 5L, GR. B, SMLS (Item #27)						44'		NO			8.81	13.22	14.9		4085	
<u> </u>	HVT		1 (IV)	011 11 201		- النو	Tes				<u></u>	T DURATI		1.1.1	<u>·</u>	-1000		
Minimum Tes	st Pressure	@ Max. Eleva	tion			600	IG To Be Used			- UNDER 3	)% SM	YS (1 HR. MIN	IMUM)	8		HOURS		
Maximum Test Pressure @ Min. Elevation 680 PSIG - 30% SMYS & OVER (8 HRS. MINIMUM) - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)												4)						
Prenared By: Redacted		W MAR LOPA	001	Date:		Fo	r Informa	tion or Chang Ibral (925			۰.		pbroved By:	k Mai			Date: 27-11	
-		BE PREPARED	BY PERSON	SUPER	VISING TES				000	00-10	Note: Min	imum f		nd duration are			01 11	
TEST C				dacte				] cc	T				written approva			1100		
Time and Date Test Pressure		Elevation at Test			32	Min. F	Min. Required Test			600	Max. Allowable Test			666.6				
Reached 4-4-11					Point			FT				(1) PSIG		and the second		(4)	PSIG	
Time and Date Test Ended		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 AM 10-11		Max, Eler Test Sec			32 FT		Min. Indicated Test Pressure (		(2)	615 Max. In PSIG Test Pr				660 PSIG	
Actual Duration	A-	2 HA	351	i.	Min. Elev			)		fin. Test Pressure t Max. Elevation (3)					st Pressure		673.4	
of Test Test Fluid Used	1		23 *		Test Sec	ion		FT Pipe Se			ition ootage Verif	(3) ied (Se	PSIG e Part 1)	at Min, Ele	evation	(6)	PSIG	
	VVA	+ER	-					1 1 6	- A	158	4							
Make, Range, a		of Pressure Re	cording Gau	<b>je</b>		Date Last Calibrated Make, Range, and Serial No. of I 5-2-11 AWETER 0-300									Date Last Calibrated			
Test Supervise				*	Date: Approved By 9-10-11						19	1	a it a	2013	9-1 2-11 <sup>00</sup>			
PUT SCHEMA	TIC PIPING S	KETCH ON BA	CK OF THIS	SHEET					6		<u>n -                                   </u>	KM	VTRU.		110	<u>/</u>		
SHOW LOCAT (SHOW REFER	ION OF FAC RENCE NUM	ILITY TESTED, I BERS ON FACE	MINIMI MAN	ID MAXI	NUM ELEVA	(TION IN FI	ET, MIL . FOR S	E POINTS, V TATION PIPII	ALVE N IG, FAB	MBER: RICATE	S AND INCO D UNITS AN	RPOR/ ID SHC	ATED AREAS. ORT SECTION	USE AN ADDI S OF PIPE, AL	TIONAL SHE SO SHOW A	ET IF N DETAIL	ECESSARY ED SKETCH	
OF EACH ASS NOTES:	EMBLY IES	IED,									RIBUTION		ka					
(1) Add the st		e to elevation difi			point and m	aximum eler	vation) to	Ê .		JOB FILE (AT SPONSORING ORGANIZATION)								
(2) Use lowes	st pressure or	test gauge at a	ny time durin	g test.	noint and		walters! z	iom.		GSM&	TS RESPON	ISIBLE	DISTRICT SU	PERINTENDE	ΝT			
<ul> <li>(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.</li> <li>PROJECT MANAGER/PROJECT ENGINEER</li> </ul>												IEER						
(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												<b>VLY</b>						
(6) Add static	head due to	st gauge at any t elevation differe			nt and minim	um elevatio	n) to ma	kimum		CAPIT	ALACCOUN	ITING	FOREMAN'S	COPY OF JOB)	t			
(7) A dead we		only required wit								RECO	RDS SECTIO	DN (W(	C), GMS&TS					
	or greater. Hi vided above.	owever, if a dead	a weight teste	a is used	on any test,	enter the lf	normatio	u ui uio		REPO	RT FAILURE	S UND	ER TEST TO	GAS ENGINEE	RING & PLA	INING		