

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				1 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)

PHSE



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 _{PSIG}			
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	}		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	BE PREPARED	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 ^{H/2} 35 ^{min} 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			
 (2) 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												IV.						
 "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 										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 _{PSIG}				
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	je		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 ⁰⁰			
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			
 (3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure. PROJECT MANAGER/PROJECT ENGINEER 												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												VLY						
(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		