PGSE

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 112-0)

PART I - I	DESIGN D	ATA (TO BE	PREPARED BY P	ROJECT	ENGINEER)								-	
Feeder Main N	lumber, Line I						Dale Job Authorized								
	L-1		2	De Anza 41497346-3											4
Test 3 – F (refer to D	lydrostation wg. 4149	cally test 24" 7346 sheet 7		.10. E	kisting pipe			sted; i.e. pi	pe, elbow	is, s	leeves, etc.	are from (I	ne "Material	of R	ecord"
nyurolesi	L-IOZ ai	IVIL.V 7.1U	Sunnyvale, (γA	(Test se	CHON Z	:0)		117 - T						
Location Class	0	esign Factor (F) .5	MAOP to be E	stablished	for this Piping		est 00 psi	1	Design Pressu	ire	***************************************			40	0 PSIG
STAT	IC HEAD DUI	₹10	Max. Elevation	43	Ft.	Static Hea	ad Cafculatio)n	A						\$ 44.55
ELEVA	TION DIFFER	ENCE	Min. Elevation	43	Ft.	For Water	i.		0.433 x	Elev	. Diff. =		0	SIG	
(WHE	RE APPLICA	BLE)	Elev. Diff.	0	Ft.	Other (Sp	ecify)			X Ele	v. Diff. =			SIG	
		Pipe Spe				T	***	Pipe St	pec, and	ΪÏ		% of SMYS		Ť	Pressure to
Siz			API or ASTM Gr				otage to		Verified	At		At Min.	At Max.	x. Give 90	
O.D.	W.T.	Long Seam (ERW, DSAW,				Re	Tested	Inf	Field	1_	MAOP	Test Press.	Test Press		SMYS
24.00	0.375		5L X-60, DSAV		em 106)		4	3/5			21.33	36.27	40,53		1688
24.00	0.281		00 SMYS, SML				6	JE				72.60	81.14		843
24.00	0.312		de & Seam Un			6		J/		1_			1	_	
25.25	0.375		/pe B, 50000 S	-	(Item 7)	2 ea.			<u> </u>	_	25.60	43.52	48.64		1406
3,50	0.216		5L Gr. B, SML		(Item 11)		<u>// </u>	16	JE	<u> </u>	9.26	15.74	17.59	_	3888
24.00	,375	CAP Y		1100000	1EM 158		Z-E4.		<u>Je</u>	_				_	
3.50					15m 16b	ļ	LEA_		<u>JF</u>	1				\perp	
3,50		90° EL				<u> </u>	EA	<u> </u>	JE	<u> </u>		~~.			
Minimum Te	of Pressure	@ Max. Elevati	ion		680	PSIG		t Fluid le Used			EST DURATI MYS (1 HR. MIN			8	HOURS
	0111000000	e man, shoran					4	ATER	- 30% SMY	S & O	VER (8 HRS. MIN	MUM)	L		Anna de la companione d
	st Pressure	@ Min. Elevati				PSIG			- PREINST	ALLA	TION TEST (SE	ATTACHME	JF 'A', GAS ST). A-34)
Prenated Ru- Redacted	<u></u>	<u> </u>	Deta	61		Informatic dacte	on or Chano d	es. Call			Approved By Redac			151)ate: //
		or openings	BY PERSON SUPER	RECORDING CONTRACT		18 THE R. P. LEWIS CO.	(Contractive to distance)		Lister 12	أسا					
PAKI II- 1ES	I DATA (TO	JE FREPAREU	II PERSUN SUFER	NISING II	SOLAL LIME	Jr IESI,	le de la companya de				n lest pressure a ut written approvi		not to be chang	eo .	
Time and Date				T				r		************					
Test Pressure		7 - m 1 4	an tan Call	10-15-11 Elevation at Test		43		Min. Required Test		6 80		The state of the s	wable Test	Sw.	750.47
Reached		2:04 Am 10-15-11		Point		-	FT	Press. At Test Point		(1) PSI			Test Point	(4)	PSIG 748
Time and Date Test Ended		10: 30 Am 16-15-11		Max. Elevation in Test Section			43 FT	Min. Indicated Test Pressure		(2)	694 PSIG	***************************************	icaled ssure (f		PSIG
						_	2113			69				101	757-53
Actual Duration of Test	7	8 HR	26 mid	Min. Elevation in Test Section			FT	Min. Test Pressure at Max. Elevation		(3)	PSIG	at Min. E	A Pressure levation	(6)	PSIG
Test Fluid Use	d						Pipe Sp	ecification and	Foolage Ver	ified (See Part I)				
Make Panna	and Carial No	of Pressure Rec	2024853	460)	Date Last Ca	Shortod	1 110	And the second name of the second name of	S84	Dond	Weight Tester (log Mate 71	n	to Los	l Calibrated
BARTIN			20285346	1	7-21			o, monge, and Amblek	50-5			85G) ^D		-//
Test Sopervise					Dale:		Арр	re Redact	ed	*********				Date:	
Redacte					10-15	-11							(447)		
SHOW LOCAT	TION OF FAC	LITY TESTED. N	CK OF THIS SHEET (INIMUM AND MAXI)	NUM ELE	VATION IN FE	ET, MILE	POINTS, V	ALVENUMBE	RS AND INC	ORPC	RATED AREAS	USE AN ADD	OITIONAL SHEE	T IF NE	CESSARY
(SHOW REFE OF EACH ASS	RENCE NUM	BERS ON FACE	OF ALL DRAWINGS	AND ATT	ACHMENTS).	FOR ST	ATION PIPI	VG, FABRICA	TED UNITS A	ND S	HORT SECTION	S OF PIPE, AL	D A WOH? OS.	ETAILE	DISKETCH
NOTES:	ICMBCI IEG	ILD.				-		DIS	TRIBUTION	ı					
			erence (between test vation" from PART I.	point and	maximum elev	ation) to		JOB	FILE (AT SP	ONSC	ORING ORGANIA	'ATION)			
(2) Use lowe	st pressure or	itest gauge at en	y time during test.		1 - 240 - 1			GSN	M&TS RESPO	NSIB	LE DISTRICT SU	PERINTENDE	:NT		
	static head du indicated test		erence (between test	point and	maximum elev	ration) fro	m	PRC	LIECT MANA	GER#	PROJECT ENGI	NEER			
(4) Subtract:	static head du	e to elevation diff	erence (between test	point and	minimum elev	ation) fro	m						ا المعاشدين يونون	i.	
		e at minimum ele st gauge at any fi	vation' from PART I. me during test.					IEC	nnical & Co	Temu	RUCTION SERV	ICES - ASSIG	NED JOBS ONL	¥.	
(6) Add station		elevation differen	ce (between test poir	it and min	mum elevation) to maxi	mum	CAP	ITAL ACCOU	NTIN	G (FOREMAN'S	COPY OF JOE	1)		
(7) A dead w	eight tester is	only required wh	en testing to a pressu					REC	ORDS SECT	ION (WC), GMS&TS				
	or greater. He ovided above.	owever, if a dead	weight tester is used	on any te	st, enter the inf	ormation	in the	REP	ORT FAILUR	ES U	NDER TEST TO	GAS ENGINE	ERING & PLANI	IING	4.5 5.





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62-4921 (Rev. 2/04) California Gas Transmission (Use in Accordance with Gas Standard A 34 and GO 112-0)

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Sheet

		Number, or Station N		COJECT ENGINEER) Division/Dis				Job Number		Date Job Authorize	d	
L-132 2					De A	nza		4149734	6-4			
Description of	Job Includ	e Reference Drawing	Numbers, and Pipe	eline Meposts	nie Amire Amir		477		بالبان المانية		······································	
				ydrostatic test pip refer to Dwg. 414			Existing	i pipeline male	rial listed; i	i.e. pipe, elbo	NS,	
		rom MP 4.92 –			Test section 2					%	According to the second	
						S. S		TY 45				
Location Clas	8	Design Factor (F)	MAOP to be Es	tablished for this Piping I	by this Test 400 PS	3 - 40,74111 - 40,11111	ign Pressure				400 PSIG	
STA	TIC HEAD DU	JETO Ma	ax, Elevation	43 Ft. 8	Static Head Calculat	ion				1		
ELEW/	ATION DIFFE	RENCE Mi	n. Elevation	21 Ft. F	or Waler		0.433 X EI	ev. Diff. =	:	-8:2 _{PSi}	3	
(WHI	ERE APPLICA	ABLE) Ele	av, DXf.	. 19 ° Ft. (Other (Specify)		ΧE	lev. Diff. =		PSI	3	
		Pipe Specific				Pipe Spec			% of SMYS	1	Pressure to	
O.D.	w.T.	Lone Sear	API or ASTM Gra m (ERW, DSAW, S	States and the state of the sta	Footage to Be Tested	Footage Ve		AI MAOP	Al Min. Test Press.	At Max. Test Press.	Give 90% SMYS	
24.00	0.375	Pipe, API 5L	A Section 1997		Ж		JS	21,33	36.27	40.53	1688	
24.00	0.312	Pipe, API 5L			7	MOR	<u> </u>	36.63	62.27	69.60	983	
24.00	0.281	Pipe, 40000		The second secon	10938-	10936.9		42.70	72.60	81.14	843	
24.00	0.281	· · · · · · · · · · · · · · · · · · ·	-	SMLS (Item 5)	13 ea.	MOR	7.00	42.70	72.60	81.14	843	
24.00	0.312	Sleeve, 5000		(Item 6)	1 ea.	MOR		30.77	52.31	58.46	1170	
24.00	0.375	Sleeve, 5000		(Item 7)	2 ea.	MOR		25.60	43.52	48.64	1406	
25.25	0.500	Sleeve, 6000	and the second s	(Item 8)	1 ea.	MOR		16.83	28.62	31.98	2139	
									20172	1	7-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	
		1					7					
				***				TEST DURATIO		<u> </u>		
Minimum Te	est Pressure	@ Max. Elevation		680 r				6 SMYS (1 HR. MINI 1 OVER (8 HRS. MINI)		<u> </u>	8 HOURS	
Maximum T	est Pressure	e @ Min. Elevation		760 r	SIG			LATION TEST (SEE		T 'A', GAS STD. A	-34)	
Redacted					nformation or Chan-			Annoved R	dacted	7 1 /	Date'/	
					dacted		and the same		metrical educations of the material	***	715/17	
PART II - TES	ST DATA (TO	BE PREPARED BY I	PERSON SUPER\	ISING TEST AT TIME C	OF TEST)			num test pressure an hout written approval		not to be changed		
Time and Dale	e			***************************************	43			680	T		750.47	
Test Pressure Reached	!	2:04 Am	10-15-11	Elevation at Test Point	FT	Min. Required Test Press. At Test Point Min. Indicated		1) PSIG		Max. Allowable Test Press at Test Point (4)		
Time and Date	<u> </u>		***************************************	Max. Elevation in	43			694	Max. Indicated		PSIG 748	
Test Ended	·	10:30 Am	10-15-11	Test Section	FT	Test Pressure	()	2) PSIG	Test Pres	200		
Actual Duratio	n	8 He 12	16 mil	Min. Elevation in	21	Min. Test Pres		694	Max. Test Pressure		757-53 PSIG	
of Test Test Fluid Use	ad.			Test Section	FT Pine S	at Max. Elevati		3) PSIG	ise Part II a			
		WATE		T Date Lance		pecification and To	100 100		BESPAN			
		o. of Pressure Record	5 3 4 6	Date Last Ca	5 - H C		, 50 - 57	30 Weight Tester S	2836	uale i	ast Calibrated	
Test Reda	cted			Date: /a -	15-11 Ap	proved By Reda	cted			11-10ale	//	
		SKETCH ON BACK		BILLE CLAYOU DECE	T MIC DOMEC	KINE WINDO	ANDINGOD	DODATED AREAD	FROM AN ADDO	TIONE CHECTIC	NEOCOGADY	
(SHOW REFE	ERENCE NUA	IBERS ON FACE OF	ALL DRAWINGS	IUM ELEVATION IN FEI AND ATTACHMENTS).	FOR STATION PIP	ING, FABRICATED	OUNITS AND	SHORT SECTIONS	OF PIPE, AL	SO SHOW A DETA	ILED SKETCH	
OF EACH AS NOTES:	SEMBLY TES	STED.				NIETD	IBUTION					
(1) Add the				oint and maximum eleva	ation) to			ISORING ORGANIZA	ATION)			
		e al maximum elevati In test gauge at any til				GSM&T	S RESPONS	BIBLE DISTRICT SUI	PERINTENDFI	NT .		
(3) Subtract	static head d	ue to elevation differe		point and maximum elev	ation) from					Maria de la companya		
(4) Subtract		ue to elevation differe		point and minimum elevi	stion) from			ER/PROJECT ENGI		gengal ang sakaratan kada		
		ire at minimum elevat est gauge at any time				TECHN	ICAL & CON	STRUCTION SERVI	CES - ASSIGN	IED JOBS ONLY		
(6) Add stati	c head due to	elevation difference		t and minimum elevation) to maximum	CAPITA	IL ACCOUNT	TING (FOREMAN'S (COPY OF JOB).		
(7) A dead v		s only required when t		re which produces a stre		RECOR	OS SECTIO	N (WC), GMS&TS				
	i or greater. I ovided above		ight tester is used	on any test, enter the inf	ormation in the	REPOR	T FAILURES	UNDER TEST TO	SAS ENGINÉE	RING & PLANNING	5	
Account of the last of the las												



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				ROJECT ENGINEER		400		· ·		- 11					
Feeder Main		Number, or Static	n Name Area	Division/Dis	trict				Job	Number		Date Job Auth	orized	:	
	L-1		2			De Anz	a		1	4149734	/346-4				
Test 4 - I	Hydrostati etc. are fro	cally test 24 m the "Mate		ydrostatic test pip refer to Dwg, 414	197346 s		24" L-1;	32. Existii	ng pip	eline male	rial listed;	i.e. pipe, e	bows	i	
Location Clas	s [lesign Factor (F)	MAOP to be Es	lablished for this Piping	by this Test		Future C	Design Pressu	re	y war war was a same w			4.1		
3		.5			40	and 10 10 10 10 10 10 10 10 10 10 10 10 10							40	00 PSIG	
STA	TIC HEAD DU	ETO	Max. Elevation		Static Head	Catculation		44 J. A.							
ELEV/	ATION DIFFER	RENCE	Min, Elevation	water-resident comments.	or Water			0.433 X	Elev. Di	if,=		8.2	PSIG		
(WHI	ERE APPLICA		Elev. Diff.		Other (Spec	ify)			X Elev. [Diff. =			PSIG		
Siz	70	Pipe Spe	cification API or ASTM Gra	ade	Foota	meto		oec. and Verified	ļ	At I	% of SMYS At Min.	At Max.	-	Pressure to Give 90%	
O.D.					Be To					MAOP		Test Press		SMYS	
-24x16 -	0.375	Tee, Redu	icing, Gr. B	—— (Item 9)	4-6	ð.	IX.			6.57	62.17	69,49		984	
16.00	0.375		FL X-42, ERW		***************************************				20.32		34.54	38.60	-	-1772	
6.625	0.280		5L Gr. B, SML		1			J &	13.52		22.98	25.69		2663	
2.375	0.154	and the second second	5L Gr. B, SML		26		MOR 11		And the second second		14.98	16.74		4085	
1.66	0.140	Pipe, API	5L Gr. B, SML	S (Item 13)	- 3	8 //	1012		1	6.78	11,52	12.87		5313	
									-			-	\dashv		
								marin and a second second	+-				-		
Maximum To Prepared By: Redacted	est Pressure	@ Max. Eleval @ Min. Eleval	ion Date:	760 i	dacted	To Be I WAT or Changes	ER	- 30% SMY3 - PREINST	S & OVEI ALLATK A nimum le	Redac	MUM) ATTACHME ted Id duration an	NT 'A', GAS ST	9/3	HOURS) Date:	
Time and Dat	e							1 '	without w	rillen approva		·		750.47	
Test Pressure Reached		2:04	AM 10-15-11	Elevation at Test Point	43 FT		Min. Required Test Press. At Test Point		(1) PSIG			owable Test Test Point	st Point (4)		
Time and Date 11 Test Ended		10:30 A	m 10-15-11	Max. Elevation in Test Section			Min. Indicated Test Pressure		(2) PSIG		Max, Indicated Test Pressure		(5)		
Actual Duration of Test		8 H&	26 mill Min. Elevation in Test Section		2	19.7	Min. Test Pressure at Max. Elevation		(3)			est Pressure Elevation (6)		752.53 PSIG	
Test Fluid Use	ed WATER					Pipe Speci		Footage Veri	fied (See		gen been see		-		
***************************************		of Pressure Re	cording Gauge ム 名気3円6	Date Last Ca		Make,			Dead Wi	eight Tester (S			ale Las	l Calibrated	
Test Reda	cted			Date:	/1	Approv	Redac					1-20-1	Dale:		
SHOW LOCA (SHOW REFE	TION OF FAC	ILITY TESTED, I BERS ON FACE		NUM ELEVATION IN FEI AND ATTACHMENTS).	ET, MILE P						USE AN ADI	DITIONAL SHEE			
NOTES:			erence (between test r	point and maximum eleva	ation) to			TRIBUTION		NG ORGANIZ	ATION				
"minimur (2) Use lowe	m test pressure est pressure o	e at maximum ele i test gauge at ai	evation* from PART L by time during test.							DISTRICT SU	e sangan a	ENT			
	static head du i indicated test		terence (between test	point and maximum elev	abon) from		PRO	DIECT MANA	GER/PR	OJECT ENGIN	IEER				
'maximu	m test pressu	e at minimum ek	evation* from PART I.	point and minimum eleva	ation) from		TEC	HNICAL & CO	ONSTRU	CTION SERV	CES - ASSIG	NED JOBS ON	Ŷ		
(6) Add stati	ic head due to			t and minimum elevation) to maximu	ım	CAP	ITAL ACCOU	NTING (FOREMANS	COPY OF JO	8)			
(7) A dead v		only required wh		re which produces a stre on any test, enter the inf			REC	ORDS SECTI	ION (WC), GMS&TS					
	ovided above.	oneron, n e ucel	erreidint monet to nazar.	an any scar emer are un	ormodon ar	K.ID	REP	ORT FAILUR	ES UND	ER TEST TO	GAS ENGINE	ERING & PLAN	VING		





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Sheet

					ECT ENGINEER											
Feeder Main		Number, or Station 132	Area 2	Division/Dis			Job	Number		Date Job Authorized						
1,244.1		·····	De A	nza			414973	46-2								
Description of J Fest 2 - H refer to Dv	ydros ital ydros <u>149</u>	e Reference Drav ically test 24 <u>97346 sheet</u> ownstream	" pipe at 7)	MLV 4.92.	Existing pipe		aterial li	160 Committee of the Co	pe, elbov	ws, sle	eves, etc.	are from the		l of Re	ecord"	
Tydrotest	L-101							D/D /	127	12	1. 2	/_ Keua				
Location Clas	;\$	Design Factor (F)	MAC	P to be Establis	hed for this Piping	-	est <mark>00 PS</mark>	Future Desig	n Pressure		*			40	0 PSIG	
STA	TIC HEAD DU	JE TO	Max. Elev	ation	22 Ft. :	Static Hea	d Calculation	วก								
ELEV	ATION DIFFE	RENCE	Min. Eleva	tion	22 Ft.	For Water		y	0.433	X Elev. Di	ff. =	****	0	P S IG		
(WH	ERE APPLIC		Elev. Diff.		0 Ft. (Other (Spe	ecify)			X Elev. E	Diff. =			PSIG		
^-		Pipe Spe	ecification	107116				Pipe Sp		1		% of SMYS			Pressure to	
O.D.	Size API or ASTM O.D. W.T. Long Seam (ERW, DSA				ess, Elc.)	3	ilage to Tested	Footage In Fi		1 N	AI IAOP	At Min. Test Press.	At Max. Test Press			
24.00				, DSAW	(Item 106)				11116/4		1.33	36.27	40.53		1688	
24.00	0.312	Pipe, API		<u> </u>	(Item 1)	24		 		36.63		62.27	69.60		983	
24.00	0.281	Pipe, 400			(Item 2)	T	8	<u> </u>			2.70	72.60	81.14	\dashv	843	
24.00	0.375	Elbow, LI			(Item 4)	2	ea.			36.57		62.17	69.49		984	
24x16	0.375	Tee, Red	ucing, G	RB	(Item 9)	1	ea.				6.57	62.17	69.49		984	
24.00	0.375	Sleeve, T	ype B, 5	0000 SMY	S (Item 7)	1	ea.			2	5.60	43.52	48.64		1406	
Redacted PART II - TES	J ST DATA (10	@ Min. Elevatio		THE RESERVE TO SERVE THE PARTY OF THE PARTY	For	dacted		ies Call·	Note: M	A)	Reda	nd duration are	not to be chan	D. A-34) Date:		
Time and Dat Test Pressure Reached				Ele Po	evation at Test int	FŢ		Min. Required Test Press. At Test Point		(1) PSIG		i i	wable Test Test Point	(4)	PSIG	
Time and Dat Test Ended	Time and Date Test Ended				x. Elevation in st Section	FT		Min. Indicated Test Pressure		(2) PSIG		Max. Indi Test Pres		(5)	PSIG	
Actual Ouration	วก			Mis	Min. Etevation in			1	Min. Test Pressure		_	Max. Tes	l Pressure			
of Test Test Fluid Usa	ed			Te:	st Section		FT Pipe St	at Max. Eleverification and		(3) ified (See	PSIG Parti)	at Min. El	evation	(6)	PSIG	
Make, Range	, and Serial N	o. of Pressure Re	cording Gau	ge	Date Last Ca	alibrated		ke, Range, and l				See Note 7)	D	ate Lasi	Ca'ibraled	
Test Supervised By: Date:						Approved By:						Date:				
SHOW LOCA	TION OF FAC RENCE NUM	IBERS ON FACE	MINIMUM A	NO MAXIMUM I	ELEVATION IN FE ATTACHMENTS).	ET, MILE FOR ST/	POINTS, V ATION PIPI	ALVE NUMBER	RS AND INC ED UNITS A	ORPORA ND SHO	TED AREAS RT SECTION	USE AN ADD S OF PIPE, AL	ITIONAL SHEE SO SHOW A D	ET IF NE	CESSARY D SKETCH	
NOTES: (1) Add the	static head di	re to elevation diff			and maximum elev	ation) to			RIBUTION		NG ORGANII	(ATION)				
(2) Use lower (3) Subtrect	est pressure d static head d		n y t ime durir	ig test.	and maximum elev	vation) fro	m					IPERINTENDE	NT			
(4) Subtract 'maximu	ım test pressu	ue to elevation dil re at minimum ele	evation" from	n PART 1.	and minimum elev	ation) from	n				DJECT ENGI CTION SERV		NED JOBS ONI	Υ.		
		est gauge at any t relevation differer			minimum elevation	ı) to maxir	mum	CAPI	TAL ACCOL	INTING (FOREMAN'S	COPY OF JOB	1)			
Indicated (7) A dead v	l tost pressum veight lester i	e. s only required wi	ien testing t	o a pressure wh	ich produces a stre y test, enter the inf	ess level o	f 90%		ORDS SECT	,			,			
	ovided above		s werâui iest	er is used thi bil	it read eurer mis IIII	IVIFII (UVI)	m At∆	REPO	ORT FAILUR	ES UND	ER TEST TO	GAS ENGINEE	RING & PLAN	NING		

