

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)

Sheet 1 of 3																	
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																	
Feeder Main Number, Une Number, or Station Name Area Division/District											Number 4447405	70	Date Job Authorized				
Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts												414/40/	0	ј Арш	19,20	11	
Test 2 – Tie-in pieces, hydrostatic test piping and existing 24" L-132A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the																	
"Material of Record" (refer to Dwg 414/40/9, sheet 5 of 5) Hydrotest 1-132A from MP 0075 - 1 489 Mountain View CA (Test section 40)																	
Location Class Design Factor (F) MAOP to be Established for this Piping by this Test A00 perce																	
3	<u> </u>	.0			22	1	400	PSIG						****	400	PSIG	
STA	Static	Head Calcu	ilation			60	12										
ELEVATION DIFFERENCE Min. Elevation 3						For W	later		0.433 X Elev. Diff. =					PSIG			
(WH	ERE APPLICA	BLE) Pice Si	Elev. Diff.		<u>20 Ft.</u>	Other	(Specify)	Ding Core or		ec and	X Elev. I	Diff. =	6 of SMYS	PSIG VS Processing to			
Si	ze]	API or AS	TM Grade			Footage to		Footage Verified		At At Min			At Max.		ive 90%	
0.D.	W.T.	Long	Seam (ERW, D	SAW, Seam!	ess, Elc.)		Be Tested	<u></u>	In Field			MAOP Test Press		Test Press.		SMYS	
16.00	.3125	Pipe, AF	1 5L, X-52, I	ERW (ite	m #30)		40'		0 950		19.69		29.54	34.46		1828	
24.00	.375	Pipe, AP	15L, X-60, I	JSAW (I	tem #29)		80		118' 750		21.33		32.00	37.33		1688	
24.00	.200	File, Si	ad V-52 /it	om #A)	tem #11)		000 7 00			7 256		0.44	42.07	49.70	_	1200	
24.00	375	Ell Ford	ed, 1-52 (it)	em #5)			11 ea.		1	1 250		6 57	54.86	64.00		985	
24.00	.375	Ell, Forg	ed. Y-42 (it	em #6)			2 ea.		3	2 9.50		0.48	45.71	53.33	<u></u>	1182	
24.00	.375	Ell, Forg	ed, Y-52 (it	em #7)			7 ea.			7 250	2	4.62	36.92	43.08		1463	
		A			000		Test		Fluid <u>MINIMUM</u>		M TES	T DURATIO	N	o			
Minimum Te	est Pressure	@ Max. Elev	ation		000	PSIG		To Be Us WATE	ed R	- UNDER 3	0% SM S & OVE	YS (1 HR. MINIA R (8 HRS. MINIM	ium) Umi	L	0	HOURS	
Maximum Test Pressure @ Min. Elevation 700 PSIG - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)																	
Redacted									all:	Redacted							
DADT IL TE	ST BATA (TO		DV DEDGONI SI	DEDVISIN		IE OF TR	een			Note: M	 I mumic		duration a	e not to be choose	4	-17 	
Dan Daw	son	DETREFANCI	ADI FERODINO	JE LINY IONAN	3 1231 AT 11	at or a	2017			11010. 111	without v	vritten approval.		e not to be change	U .		
Time and Dal	8	5-9-11															
Test Pressure 1000 am Reached			Ele	Elevation at Test Point		7 FT		Min. Required Test Press. At Test Point (610 PSIG	Max. Al Press a	it Test Point (4)		PSIG		
Time and Date 5-9-11			Ма	x. Elevation in				Min. Indicated				Max. In	Indicated		623		
Test Ended 1800 pm Test				st Section		30 FT	Te	Test Pressure (620 PSIG	Test Pro	essure (5) PS		PSIG		
Actual Duration 8 hrs N					1. Elevation in		5 FT	M	Min. Test Pressure at Max. Elevation (610 PSIG	st Pressure 6 Elevation (6) P:		624 PSIG		
Test Fluid Us	ed	L				1	Pipe	e Specific	ation and	Footage Ver	ified (Se	e Part I)	- we triate.		<u>ev 1</u>		
Water Make Ranne	and Starial Nr	of Pressure 6	Stording Gauge		Date Las	t Calihrat	dA	IOVE Make R	nne and	Serial No. of	Dead W	eight Tester (Se	o Note 7)	Dat	alastC	alibrated	
CPL 1703 0-1000 PSL 5/2/11							AMETEK 2845 0-3500 PSI						11	11-29-10			
Test Supervised By: Redacted Date:						1-11	i i	Approved	^{i By:} Re	dacted				Date:			
PUTSCHEM	ATIC PIPING	SKETCH ON B	ACK OF THIS SI	IEET							1			<u> </u>			
SHOW LOCA (SHOW REFI	TION OF FAC	ILITY TESTED BERS ON FAC	, MINIMUM AND E OF ALL DRAW	MAXIMUM E	ELEVATION IN ATTACHMENT	FEET, M	AILE POINTS STATION F	S, VALVE PIPING, F	E NUMBE	RS AND INC IED UNITS A	DRPOR	ATED AREAS. I	JSE AN AC	DITIONAL SHEET	IF NEC	ESSARY SKETCH	
OF EACH AS	SEMBLY TES	TED.					10.52 (* 75.53 1		DIO								
(1) Add the	static head du	e to elevation d	ifference (betwee	n test point a	and maximum e	elevation)	to		JOB	FILE (AT SP	L ONSOR	ING ORGANIZA	TION)				
"minimu (2) Use low	m test pressur est pressure o	e at maximum e n test gauge at	elevation' from P/ any time during to	ART I. est.					GSN	1&TS RESPO	NSIBLE	DISTRICT SUP	ERINTEND	ENT			
(3) Subtract	t static head du	e to elevation of to elevation of the to elevation of the total of total of the total of tota	lifference (betwee	en test point	and maximum	elevation) from		PRC	JECT MANA	GER/PR	OJECT ENGINE	ER				
(4) Subtract	t static head du	ie to elevation o	lifference (betwee	en test point	and minimum e	elevation)	from		TEA	HNICALSO	Metoi	ICTION CEDUR	EG. 1000				
(5) Highest	pressure on te	st gauge at any	time during test.	VIXI 1.	i na li na	the second			TEG	TINICAL & CA	JNO INC		E0 - 1000	SNED JODD ONLI			
(o) Add stal indicate	uc nead due to d test pressure	elevation differ	ence (petween te	st point and	minimum eleva	iuon) lo n	naxumum		CAP	TAL ACCOU	MING	FUREMANSC	UPT UP JC	ioj.			
(7) A dead of SMYS	weight tester is S or greater. H	only required volume only required volume on the only required to the on	when testing to a ad weight tester is	pressure whi used on an	ich produces a y test, enter the	stress le e informa	vel of 90% tion in the		REC	ORDS SECT	ION (WO	C), GMS&TS					
space p	rovided above.		*	đ					REP	ORT FAILUR	ES UND	ER TEST TO G	AS ENGINI	ERING & PLANNI	NG		
In	in in	1 No	cumbl	1.510	ned.	6-1	2.11		ϵ	3) on	ina	P Cocur	rent	signed :	5/81	11	
e ur	7	n av	10000	5.5	the second second	a 64	571		dia a	a na se			an ann a' suitean a' s				
5		1 ×	a Sanak	1.			5-9	-11	(4) ori	51m	daim	with 5	igned on	61	sin	
5'OP	19Ini	al D	deume	NT C	ryne	S.F.	\$ T	e.C.	adare.	w.		•					
	1.																



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)

D'A	R I		Aur 20									Sheet	_2of	3			
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																	
Feeder Main	Number, Line L-1	Number, or Stati 32A	on Name Area	uthern	Division/D	istrict	Penin	sula		Jo	b Number 41474(079	Date Job Authorized April 19, 2011				
Description of Job – Include Reference Drawing Numbers, and Pipeline Mileposts Test 2 – Tie-in pieces, hydrostatic test piping and existing 24" & 16" L-132A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwo 41474079, sheet 5 of 5)												e from the					
Hydrotest L-132A from MP .0075 – 1.489 Mountain View, CA (Test section 40)																	
Location Clas 3	s	Design Factor (F) .5	ı by this T 4	est 100 PS	Future IG		400 PSIG										
STATIC HEAD DUE TO Max Elevation Ft. s						Static Head Ca/culation											
ELEVATION DIFFERENCE Min. Elevation 5 Ft. F						For Wate	ir.	1	0.433	X Elev. C	Xff. =		PSIG				
(WHI	ERE APPLIC	VBLE) Pine Sn	Elev. Diff.	28	Ft.	Other (Specify)				X Elev.	Diff. =	% of SUVS	PSIG Pressure to				
Siz	Size API or ASTM Grade						iotage to	Footag	Footage Verified		At At Min.		At Max.	Give 90%			
0.D.	W.T.	Long	Seam (ERW, DSA)	V, Seamless, E	Be	e Tesled	In Field		I	MAOP Test Press.		Test Press.	SMYS				
24.00	.200	Pipe, X-4	Pipe, X-42 DSAW (item #12, 12A, 12B)					2062'			15.71	68.57	80.00	/88			
24.00	.250	Pipe, X-5	2 SMLS (iten	1#14)		40'		40'			36.92	44.01 01.09 55.38 64.60		975			
24.00	.281	Pipe, X-4	2 SMLS (iten	n #15)		16'		16'		40.67		61.01	71.17	886			
24.00	.281	Pipe, 40,	000 SMYS, S	MLS (item	#16)	4403'		4400'			12.70	64.06	74.73	843			
24.00	.286	Pipe, X-4	2, DSAW (ite	m #17)		-	46'	46'			39.96	59.94	69.93	901			
24.00	.3125	Pipe, X-5	2, DSAW (ite	m #18)			253'	2	53'		29.54	44.31	51.69	1219			
Minimum Test Pressure @ Max. Elevation 600 PSIG Test Fluid To Be Used MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) 8 HOU											8 HOURS						
Maximum Te	Aaximum Test Pressure @ Min. Elevation 700							PSIG - PREINST/				E ATTACHMEN	NT 'A', GAS STD. A-34)				
Redacted	<u> </u>	<u></u>	(3) Date 05/	: 8/2011	For	Informati edacte	on or Chang ed	es, Call:			Redacted	1.11	-1/1	$\sqrt{\frac{\text{Date:}}{1}}$			
PART II - TES	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	Ð	5-9-11		<u> </u>							<u> </u>	· · · ·		600			
Reached	Test Pressure 10 am Reached			Point Point		7FT		Press. At T	red Test est Point	(1)	610 PSIG	Press at T	est Point (4	() PSIG			
Time and Date Test Ended	9	1800 pm		Max. Elevation in Test Section		30 FT		Min. Indicated Test Pressure		(2)	(2) 620 PSIG Tes		caled sure (5	623 5) PSIG			
Actual Duratio of Test	Actual Duration of Test						5 FT	Min. Test Pressure 5 FT at Max. Elevation			610 PSIG	Max. Test at Min. Ele	Pressure evation (6	624)) PSIG			
Test Fluid Use Water	be						Pipe Sp Abov	ecification and C	d Footage Vei	ified (Se	e Part I)						
Make, Range, CPL 1703	and Serial N 0-1000	o, of Pressure Re PSI	cording Gauge		Date Last Ca 5-2-11	alibrated	Mak AN	e, Range, and IETEK 28	I Serial No. of 45 0-350	Dead W 0 PSI	eight Tester (S	iee Note 7)	Date 11-2	Last Calibrated 29-10			
Test Supervise Redact	ed Bal Reda ed	acted	(2)		Date: 7-14	-// Approved Burn Redacted Date:								e: ?-//			
PUT SCHEMA SHOW LOCA (SHOW REFE OF FACH ASS	PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE MUMBERS 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																
NOTES: (1) Add the s	static head du	e to elevation dif	ference (between te	st point and m	aximum elev	(ation) to		DIS		U ONSOR	ING ORGANIZ	ATION)					
"minimun (2) Use lowe	n test pressur ist pressure o	e at maximum el n test gauge at a	evation [®] from PART ny time during test.	1.				GSI	W&TS RESPO	NSIBLE	DISTRICT SU	PERINTENDE	ти				
(3) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure PRO IECT NAMACED PRO IECT ENCINEED																	
(4) Subtract	static head di m test pressu	te to elevation di re at minimum el	fference (between t evation [*] from PART	est point and m	inimum elev	ration) fro	m.	TEC	HNICAL & C	ONSTRI	ICTION SERV	ICES - ASSIGN					
(5) Highest p	pressure on te	st gauge at any I	time during test.	oint and minim	um alauntin	nt to man	์ตามสา	CAL		INTINO	EUDENING	CODY OF ION					
indicated	test pressure	noly required w	han lacting to a rea	son sny filibit	un un roraului	are lough	of 00%	DEV	MODE COM	TOMAN	D CHOOTO	UULI OF JOD	1°				
(/) 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 pro		int to	an an int	All and	1 1			KEF Z_A	OKI FAILUF	CES UNE	EK 1251 10	GAS ENGINEE	NING & PLANNIN	<u>ه </u>			
y i	11 19/1	781. AN	CUMSON	JAW	R G	-23	-11	(3)	origin	ne c	epcume,	nt suji	ed 518				
20	Rig.	me D	bermen	1 Sign	fd-	7-14	H	(4)	origne	di	Journa	t Signi	d 5181	1/			
	1			#-);#	5	-9-	//										



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

1200	4	n An an								She	et	3	of	3		
PART I -	DESIGN	DATA (TO BI	E PREPARED BY	PROJECT ENGINEE	R)	1			Lich Numh	oć.		Data Jab Au	thorizod			
T COUCT MOIN	L-132A Southern Peninsula 41474												79 Anril 19 201			
Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts									1 7	πητιτο, 2011						
Test 2 – "Material	Tie-in pied of Record	ces, hydrost I" (refer to D	atic test piping	and existing 24" sheet 5 of 5)	& 16" L-132	2A. Exis	sting pipel	ine mate	erial listed;	ie. pipe, e	lbows	, sleeves	, are f	rom the		
Hydrotes	t L-132A	from MP .0	075 - 1.489	Mountain View, (CA (1	Fest sec	tion 40)									
Location Clas	55	Design Factor (F) 5	MAOP to be	Established for this Pipir	ng by this Test	Delo	Future De	sign Pressu	re	<u>.</u>		*		00 000		
STA	TIC HEAD DU	JE TO	Max. Elevation	33 Ft.	Static Head C	alculation	1							VV FOIC		
ELEV	ATION DIFFE	RENCE	Min. Elevation	<u>5</u> Ft.	For Water			0.433 X	Elev. Diff. =			12	PSIG			
(WH	ERE APPLIC	ABLE)	Elev. Diff.	28 Ft.	Other (Specify	<u>)</u>))	(Elev. Diff. =			uotuo esimerenen	PSIG			
Si	ze	Pipe Sp	ecification API or ASTM	Grade	 Footage	e to	Pipe Sper Footage V	c. and /erified	At	% of S	MYS Æn.	At Max		Pressure to Give 90%		
0.D.	W.T.	Long	Seam (ERW, DSAW	/, Seamless, Etc.)	Be Tes	ted	In Fie	ld	MAOP	Test	Press.	Test Pre	SS.	SMYS		
24.00	.375	Pipe, Gr.	B, SMLS (iten	n #19)	54'		59' 206		36.57	54	.86	64.0)	985		
24.00	.250	Sleeve, T	ype B, X-42 (i	item #21)	1 ea	a	1 1056		45.71	68	.57	80.00)	788		
24.00	.312	Sleeve, I	YPE B, X-42 (I	100 #22)	2 68	<u>a.</u>	2	1426	30.03	54.	95	64.1		983		
Z4. 00	.375	oleeve, i	уре в, Атом	(item #24)	2.60	1.	1 25L		20.00	30	40	44.0\	1:	1400		
4.50	.237	Pipe, AP	I 5L, Gr.B SMI	_S (item #25)	3'		43'	256	10.85	16.	27	18.99)	3318		
24.00	.500	Pipe, AP	Pipe, API 5L, X-60, DSAW		4'		4'	25%	16.00	24.	00	28.00)	2250		
	1						· · · · · ·	*****								
Carton in 1010 in an	<u> </u>	1		600		Test F	luid	MINIMU	M TEST DU	RATION		L	l			
Minimum I e	est Pressure	@ Max. Eleva	tion	000	PSIG	IO BOL	ER	- UNDER 3 - 30% SMYS	0% SMYS (1 H & OVER (8 HF	R. MINIMUM) S. MINIMUM)		ļ	0	HOURS		
Maximum T	est Pressure	e @ Min. Eleva	tion	700	PSIG	Channel	<u></u>	- PREINST	ALLATION TES	ST (SEE ATTA	CHMEN	T 'A', GAS S	TD. A-3	4)		
Redacted	epared By: 1 / 3 Date: For Information or Channes Call Redacted Q5/8/2011 Redacted Redacted								ted	7/14/11 Date:						
PART II - TES	ST DATA (TO	BE PREPARED	BY PERSON SUPE	RVISING TEST AT TIME	E OF TEST)			Note: Mir v	imum test pres vithout written a	sure and dura approval.	tion are i	not to be cha	nged			
Time and Date 5-9-11			Elevation at Test			Min. Required	Test	Max. /		ax. Allow	Jowable Test		699			
Reached		5-9-11		Point	7 F	T 1	Press. At Test	Point	(1) 610	PSIG P	Press at Test Point		(4)	PSIG		
ime and Date 1800 pm				Max. Elevation in Test Section	30	FT	Min. Indicated Test Pressure		(2) 620	PSIG Te	Test Pressure		(5)	PSIG		
Actual Duratio	n	8 hrs		Min. Elevation in Test Section	5	it i	Min. Test Pres at Max, Eleval	sure	(3) 610 PSIG at Min.		ax. Test Min Ele	Pressure	(6)	624 PSIG		
Fest Fluid Us	ed			Trac Dotton		Pipe Specif	fication and F	ootage Veril	ied (See Part I)	man, ch	10.00	<u></u>	1.00		
lake, Range	, and Serial N	o. of Pressure Re	ecording Gauge	Date Last (Calibrated	ADOVE Make, F	Range, and Se	erial No. of I	Dead Weight Ti	ester (See Not	e 7)	3	Date La	st Calibrated		
CPL 1703, 0-1000 PS/ 5-2-11 iest Supervised Por Date:					AMETEK 2845 0-3500				PSI		à		11-29 Date:	-10		
Redacte	Redacted (2) Date 7-14-1							acteu			6	Ž	?- <u>/j</u>	<u>-//</u>		
SHOW LOCA	TION OF FAC	SKETCH ON BA SILITY TESTED, IBERS ON FACE	MINIMUM AND MAX E OF ALL DRAWING	L KIMUM ELEVATION IN F IS AND ATTACHMENTS	EET, MILE POI). FOR STATIC	NTS, VALV ON PIPING,	/E NUMBERS	SAND INÉC D UNITS AI	RPORATED A	REAS. USE / CTIONS OF P	N ADDI IPE, ALS	TIONAL SHE	ET IF N DETAIL	ECESSARY ED SKETCH		
)FEACHAS Iotes:	SEMBLY TES	ITED.					DIST		<u>~</u>			<u></u>				
 Add the "minimu 	static head du m test pressur	e to elevation dif	ference (between tes levation* from PART	st point and maximum ele	evation) to		JOB FI	LE (AT SPC	INSORING OF	GANIZATION)					
2) Use low 3) Subtract	est pressure o static head d	n test gauge at a	any time during test. Iference (between te	st noint and maximum el	evation) from		GSM&	TS RESPO	SIBLE DISTR	ICT SUPERIN	TENDEN	IT				
minimun	n indicated tes	t pressure.	fforonco /hohvoon to	et point and minimum ak	austion) from		PROJE	CT MANAC	ER/PROJECT	ENGINEER						
maximu	im test pressu	re at minimum el	evation" from PART	l.	syadonj nom		TECHN	IICAL & CO	NSTRUCTION	SERVICES -	ASSIGN	ED JOBS ON	ILY			
 Add stat 	pressure on te ic head due to	elevation differe	ince (between test po	pint and minimum elevation	on) to maximum	1	CAPIT	AL ACCOU	VTING (FORE	MAN'S COPY	OF JOB)					
 A dead v A dead v 	veight tester is	s only required w	hen testing to a pres	sure which produces a si	tress level of 90'	%	RECO	RDS SECTI	ON (WC), GMS	S&TS						
space pr	ovided above	iumovel, il 8 063	o weight tester is US6	so on any test, enter the	mornauon in th		REPOR	rt failuri	S UNDER TE	ST TO GAS EI	GINEE	RING & PLAI	INING			
00	rigi	ral doc	ament:	righted b	-23-1	1 6	'3) ori	ginal	docu	nent :	siejn	ed 5	-8-1	7		
2) OR	1Gina	L Doc	oment	Signes 5	-9-11	(4) or	iginel	docim	unit s	ign,	d 5-	8-1	1		