

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

												Sheet	_10	2	
PART I -	DESIGN D	ATA (TO BE	E PREPARED BY	PROJECT	ENGINEER)									
		Number, or Stati			Division/Di	strict			,,	Job N	umber		Date Job Autho	rized	
	L-1	32	1		Redacte	ed	358	July 16, 2012							
			wing Numbers, and I								and the second				
			y test tie-in pie											, elbo	WS,
			of Record" (ref	er to Dw	g 4149/35				n 1 - Upda	ated for	2012 c	onstruction	••••••		
Hydrotest	t L-132 fro	m MP Red	dacted] (TIM-037	-11)							
Location Clas	s C	esign Factor (F)	MAOP to be	Established	for this Piping	by this Tes	t	Future D	esign Pressur	e.			- Chicarabhille		
3		.5			1 0	30	0 PSIC	1	0					30	O PSIG
STA	TIC HEAD DU	-то -	Max. Elevation	423	Ft.	Static Head	Calculation	1							
				27		For Water	oulouluion	•	0 422 V	Elev. Diff.	-		172 g	SIG	
	ATION DIFFEF		Min. Elevation					·							
(WHI	ERE APPLICA		Elev. Diff.	396	Ft.	Other (Spec	cify)	Ding On		Elev. Diff	. =	% of SMYS	ł	SIG	Dranguage to
Siz		Pipe Sp	ecification API or ASTM	Grade		Footage to		Pipe Spec. and Footage Verified			t I	At Min.			Pressure to Give 90%
0,D.	W.T.	Long	Seam (ERW, DSAW		Etc.)	Be Tested		In Field		MAOP		Test Press.			SMYS
30.00	0.375	Pipe, AP	1 5L X-65, SAV	NL (it	em #103)	31'				18.46		27.69	43.08		1463
30.00	0.500		1 5L X-60, SAV		(item #104)		2'				.00	22.50	35.00		1800
30.00	0.375	Elbow, Y			em #119)	2 Ea.				20.00		30.00	46.67		
30.00	0.375		1 5L X-52, DSA		(item #1)	5992'		<u> </u>		23.		34.62	53.85	······	
30.00	0.312		Pipe, API 5L X-52, DOAW			304'				27.74		41.61	64.72		974
		1 190,741			(item #3)										
	+														
w	1														
	<u>.</u>	L					Test	Fluid	MINIMUN	L A TEST		<u>ON</u>		I	
Minimum Te	est Pressure	@ Max. Eleva	ition		450	PSIG		Used	- UNDER 30	0% SMYS	(1 HR. MIN	IMUM)		8	HOURS
					700		WA	TER	- 30% SMYS						
Maximum T Prepared By:		@ Min. Eleva	ition			PSIG	or Change	r. Call	- PREINST/		TEST (SE	E ATTACHMEN	IT 'A', GAS STI	· · · ·	ate:
Redacted	d keu	acted	в.	7/16		edactec		s, oan.	7		dacted				6-12-
			BY PERSON SUPE		And the second state to be				Note: Min			nd duration are	not to be chang		
170011-160	SI DAIA(IO		DI I ENGONIGOI E			01 1201)					ten approva		not to be briding	50	
Time and Dat					vino)	r									
Test Pressure				3	on at Test			Min. Required Test					wable Test	(4) PSIG	
Reached			Point		FT				(1) PSIG		Press at Test Point		(4) PS		
Time and Dat				Max. Elevation in		FT	Min. Indicated Test Pressure		(2) PSIG		Max. Indicated Test Pressure		(5) PS		
	Test Ended		1.1.1	Test Section			1		100						
Actual Duratic of Test	ctual Duration f Test			Min. Elevation in Test Section		FT	Min. Test Pressure at Max. Elevation		(3) PSIG		Max. Test Pressure at Min. Elevation		(6)		
Test Fluid Use	ed	<u> </u>		1.00000		l		cification and				- Contraction (Contraction)		1-/	PSIG
				Y			L								
Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated							Make	Make, Range, and Serial No. of Dead Weight Tester (See No					e 7) Date Last Calibrated		
Test Supervised By: Date:							Approved By:						Date:		
								/.					-		
			ACK OF THIS SHEE		UNTION IN PT			INC NUMBER							00000
			MINIMUM AND MA E OF ALL DRAWING												
	SEMBLY TES	TED.						DIOT	ייטעומוס						
NOTES: (1) Add the	static head du	e to elevation di	fference (between te	st point and	maximum elev	ation) to			FILE (AT SPC	NSORING	GORGANIZ	ATION)			
"minimu	im test pressuri	e at maximum e	levation" from PART			•							NT		
			any time during test. ifference (between te	est point and	maximum elev	vation) from	i	GSM	aid Keopor	NOIBLE DI	STRICTSU	IPERINTENDE	141		
minimun	n indicated test	pressure.		,		-		PRO	JECT MANAG	ER/PROJ	ECT ENGI	NEER			
			ifference (between te levation" from PART		minimum elev	auon) from		TECH	HNICAL & CO	NSTRUCT	ION SERV	ICES - ASSIGN	ED JOBS ONL	{	
(5) Highest	pressure on te	st gauge at any	time during test. ence (between test p		mum olouotto-	i) to movie	ium								
	d test pressure		nice (nermeen rest b	onit and min	mum elevatior	ij to maxim	MIT .	UAPI		111110 (FC	AND MAN S	COPY OF JOB	1		
			hen testing to a pres d weight tester is us					RECO	ORDS SECTION	ON (WC),	GMS&TS				
	s or greater. In rovided above.	owover, ii a uea	a worgan toolet is US	ou on any it		iornativit III	110	REPO	ORT FAILURE	S UNDER	R TEST TO	GAS ENGINEE	RING & PLANN	ING	



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

	1												Sheet	_2	of	2
				D BY PF	ROJECT ENGINI											
Feeder Main Number, Line Number, or Station Name Area Division/District L-132 1 Redacted											J	b Number		Date Job Authorized		
								41497	358	July 16, 2012						
Test 4 (C	Job Include	Reference Drav	/ing Numbers / test tie-i	i, and Pipe	eline Mileposts es, hydrostatic	tes	t pipina	and exi	istina 30" L	-132. Ex	istin	a pipeline	material list	ted: ie.	Pipe, el	bows,
					to Dwg 4149											·····,
Hydrotest	L-132 fro	m MP Red	acted				ד) ['IM-037	'-11)							
Location Class	s D	esign Factor (F) .5	MAO	o to be Est	tablished for this P	iping t	by this Test 30(1	esign Pressur	e					300 psig
······	TIC HEAD DUI		Max. Eleva	ilan	423 Ft.		Static Head		<u>}</u>	***			<u></u>			700 F310
				•	<u>– 420</u> Ft. 27 Ft.		For Water	Galculatio	1	0.433 X	Flov	Diff -		172	PSIC	2
	TION DIFFER		Min. Elevat Elev. Diff.		000			95 A							PSIC	
(WHE	<u></u>	Ft. Other (Specify)			Pipe Spec. and			. Diff. =	% of SMYS	Pressure to						
Siz	ASTM Gra				ootage to Footage V		Verified At		At Min. At N			Give 90%				
0.D.	O.D. W.T. Long Seam (ERW, DSAW,								In Field		MAOP				Press.	SMYS
30.00											30.00				.00	900
30.00	0.375	Elbow, Y-52, LR			(item f	7 Ea. 2 Ea.				23.08		34.62		.85	1170	
31.00	0.500	Sleeve, X			(item f					17.88				.73	1510	
30.624	0.312	Sleeve, X-52			(item #*	4 E					28.31	42.47	_	.07	954	
6.625	0.432	Pipe, GR	B, SMLS	•	(item # [*]	12)	6				 	6.57	9.86	15	.34	4108
	ļ										<u> </u>					
														-		·
				1.12		····		Teet	Fluid	MINIMUM		ST DURAT	ION			
Minimum Te	est Pressure	@ Max. Eleva	tion		450) F	SIG		e Used			AYS (1 HR. MI			i i i i i	8 HOURS
					700			WA	TER			ER (8 HRS. MI				241
Prepared By:		<u>@ Min. Eleva</u> acted	tion	ate:	700		PSIG Information	or Change	s. Call:	- PREINST		Anntoved By	EE ATTACHMEN	NTA, GA	5 51D. A-	Date:
Redacted				7	116/12		dacted					Redacte	d			7-16-12
PART II - TES	ST DATA (TO	BE PREPARED	BY PERSON	SUPERV	ISING TEST AT T	IME C	OF TEST)						and duration are	not to be	changed	
										W	vithout	written approv	/al.			
Time and Date									Min. Require	d Tost		1	Max Allo	wable Tes	+	
Test Pressure Reached					Elevation at Test Point					ss. At Test Point (1)				Test Point (4)		PSIG
Time and Date					Max. Elevation in			Min. Indicated Test Pressure				Max. Indicated				
Test Ended					Test Section		FT				Test Pres	sure	(5)	PSIG		
Actual Duration					Min. Elevation in			ст	Min. Test Pressure at Max. Elevation (3) PSIG at Min. Elevation (6)							PSIG
of Test Test Fluid Use	ed				Test Section		<u> </u>	FT Pipe Spi	ecification and F				i aciviin, El	evalion	(0)	1 1010
															-1	
Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibra								Make	e, Range, and S	Serial No. of E	Jead \	Neight Tester	(See Note 7)		Date L	ast Calibrated
Test Supervised By: Date:								Appr	oved By:						Date:	-
									-							
PUT SCHEM	TION OF FAC	SKETCH ON BA		SHEET	IUM ELEVATION I	N FF	ET. MILE P	OINTS VA		S AND INCO	RPO	RATED AREA	S. USE AN ADD	TIONAL S	SHEET IF	NECESSARY
(SHOW REFE	ERENCE NUM	BERS ON FACE	E OF ALL DR	AWINGS	AND ATTACHMEN	ITS).	FOR STAT	ION PIPIN	IG, FABRICATI	ED UNITS AN	VD SH	IORT SECTIO	NS OF PIPE, AL	SO SHOV	A DETAI	LED SKETCH
OF EACH AS NOTES:	SEMBLY TES	1EU.				-,			DIST	RIBUTION		······				
(1) Add the					point and maximum	n eleva	ation) to		Trees of the second sec		DNSO	RING ORGAN	IZATION)			
(2) Use lowe	est pressure o	e at maximum el n test gauge at a	iny time durir	g test.					GSM	TS RESPORT	VSIBL	E DISTRICT S	UPERINTENDE	NT		
	static head du		fference (bet	ween test	point and maximur	n elev	ration) from		PROI	IECT MANAG	SER/P	ROJECT ENG	INEER			
(4) Subtract	static head du	ie to elevation di			point and minimum	ı eleva	ation) from								ONIX	
"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 stat		elevation differe			t and minimum elev	vation) to maximu	ım	CAPI	TAL ACCOUI	NTING	G (FOREMAN'S	S COPY OF JOE	3)		
(7) A dead v	weight tester is	only required w			re which produces				RECO	ORDS SECTI	on (v	VC), GMS&TS				
	6 or greater. H rovided above.		a weight test	er is used	on any test, enter t	ne inf	ormation in	the	REPC	ORT FAILURE	ES UN	IDER TEST TO) GAS ENGINEI	ERING & F	LANNING	;

An asterisk (*) indicates values are from the PG&E Technical Guidance Specification for Resolving Unknown Pipeline Features, published 08/01/11.