

## Pacific Gas and Electric Company

DADTI	DECIONI	NATA MOD	-				····			ð <b>i</b>	Sheet	_1of_		
Feeder Main N	VESIGN I	JATA (TO B Number, or Stat	e PREPARE	Area	JECT ENGINEE Division/	:R) District			T	Job Number	1	Date Job Authoriz		
	L-3(	)0A		4		Redact					41617928		3.21.12	
Description of Test 1 – I	Job Include solation P	Reference Dra	wing Numbers Is to facili	, and Pipeline tate Hydro	Mieposts otest 055-12	(See Dw	/g 41617	7928, SHT	4) per Detail	4 attached	here to, to b	e fabricated	& tested.	
Hydrotes	t L-300A	from Reda	icted					(Test	Section 055-	12)			<b></b>	
Location Class 2	s I	Design Factor (F) .6	MAOF	? to be Establ	ished for this Pipir	ng by this Te 8	st 03 PSI	Future D	Design Pressure				817 PSIG	
STAT	IC HEAD DU	E TO	Max. Eleval	ion	Ft.	Static Hea	d Calculatio	м						
ELEVA	TION DIFFER	RENCE	Min. Elevati	on	Ft.	For Water		<b>,</b>	0.433 X Elev	r. Diff. =		0 PS	IG	
(WHE	RE APPLICA	BLE)	Elev. Diff.		0 Ft.	Other (Spe	ecify)		X Ele	v. Diff. =		PS	IG	
Cia	à	Pipe Sp	ecification	OTH Crede		-	62242	Pipe Sp	bec. and		% of SMYS		Pressure to	
0.D.	W.T.	Long	Seam (ERW,	DSAW, Sean	vless, Etc.)	Be	tage to Tested	Footage In F	ivenned	At MAOP	At Min. Test Press.	At Max. Test Press.	Give 90% SMYS	
34.00	.375	API 5L, X	-65, SAW	L.		8'				56.00	70.02	80.00	1291	
34.00	.505	CAPS, Y-	60			2	Ea.	······		45.05	56.33	64.35	1604	
	-													
	****					-				-	-			
						-	<u> </u>							
Minimum Tes	st Pressure	@ Max. Eleva	ion		1004	PSIG	Tes To B	t Fluid e Used	MINIMUM TE - UNDER 30% S	EST DURAT MYS (1 HR. MI	ON VIMUM)		4 HOURS	
Maximum Te	st Pressure	@ Min. Eleval	ion		1147	PSIG	WA	TER	- 30% SMYS & O - PREINSTALLA	VER (8 HRS, MIN TION TEST (SE	IIMUM) E ATTACHMENT	[ 'A', GAS STD, A	-34)	
Prepared By: Redacted	Re	dacted	-	Date:	23/201 B	r Information	n or Change	es. Call:		Androved By:		2	Date:	
PART II • TEST	I DATA (TO	BE PREPARED	BY PERSON	SUPERVISIN	G TEST AT TIME	OF TEST)			Note: Minimun withou	n test pressure a it written approv	ind duration are n al.	ot to be changed	* US* ( Carri	
Time and Dale		<u> </u>			wation of Tact			Min Require	l		May Allow	ahla Tact		
Reached				Po	int	FT			st Point (1)	PSIG	Press at Te	est Point (4)	PSIG	
Time and Date				Ma Te	ix. Elevation in st Section	svation in ction FT		Test Pressure (		PSIG	Max. Indica Test Pressu	ure (5)	PSIG	
ctual Duration	È.			Mi Te	n. Elevation in st Section	FT at Max. Elevation				PSIG	Max. Test Pressure at Min. Elevation (6) PSIC			
est Huid Used	Ľ						Pipe Spe	cification and I	Footage Verified (S	See Part I)				
Make, Range, a	and Serial No.	of Pressure Re	cording Gauge	)	Date Last C	Calibrated	Make	), Range, and S	Serial No. of Dead	Weight Tester (S	See Note 7)	Date L	ast Calibrated	
est Supervised	d By:				Date:		Appro	oved By:				Date		
UT SCHEMAT	IC PIPING S ON OF FACI ENCE NUME	KETCH ON BAN LITY TESTED, M ERS ON FACE	CK of this s Ainimum and of all dra'	NHEET D MAXIMUM WINGS AND	ELEVATION IN FR ATTACHMENTS)	EET, MILE F	POINTS, VA	LVE NUMBER G, FABRICATI	S AND INCORPO ED UNITS AND SI	RATED AREAS	USE AN ADDIT	IONAL SHEET IF O SHOW A DETA!	NECESSARY ILED SKETCH	
IOTES: Add the st	atic head due	co. to elevation diff	erence (betwe	en lest point	and maximum ele	vation) to		DIST JOB F	RIBUTION	RING ORGANIZ	ATION		*****	
*minimum ) Use lowes	test pressure t pressure on	at maximum ele test gauge at ar	vation* from F y time during	PART I. test.				GSM8	TS RESPONSIBL	E DISTRICT SU	IPERINTENDENT	r		
ninimum i	ndicated test	pressure.	erence (DelWi	en test point	ano maximum ele	mont (nousv:	I	PROJ	ECT MANAGER/F	ROJECT ENGI	NEER			
i) Subtract st *maximum ) Highest pro	latic head due test pressure	to elevation diff at minimum ele	erence (betwo vation* from F	en test point ART I.	and minimum elev	vation) from		TECH	NICAL & CONSTR	RUCTION SERV	ICES - ASSIGNE	D JOBS ONLY		
) Add static l	head due to e	levation differen	ce (between t	est point and	minimum elevatio	n) lo maxim	um	CAPIT	TAL ACCOUNTING	G (FOREMAN'S	COPY OF JOB)			
) A dead well of SMYS o	ight tester is o r greater. Ho	only required wh wever, if a dead	en testing to a weight tester	pressure wh	ich produces a str y test, enter the in	ess level of formation in	90% the	RECO	RDS SECTION (V	VC), GMS&TS				
space prov	ided above.		and the second secon		<ul> <li>Come more integritte</li> </ul>			REPO	RT FAILURES UN	IDER TEST TO	GAS ENGINEER	ING & PLANNING	r	



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

11'Q'	<b>1</b>			ىسىمىرى ئېرىكى ئېرىكى بىرىكى								Sheet _	_10	f	1		
PART I -	DESIGN I	DATA (TO B	E PREPAR	ED BY PRO	JECT ENGINE	ER)											
Development of	L-3	DOA		Alea 4		VUISUICE	Red.	acte			oo Number 41617	928	Date Job Auth	mzed 21-1	2		
Test 2 – Sheet 5).	Segment No spike	A-B – Hydr test for exis	ostaticall ting 34"   ctod	y Test exis piping in C	ting 34" pip ass II due t	e on L-30 o major e	00A. Ma levatior	iterials listen changes.	ed are fro	om the	"Material o	of Record" (	refer to DW	/G 41	617928,		
nyurotes	a L-300A	IOIIIRCua	LIEU			,	•		Section	055-1	2)				j		
Location Class	s I	Design Factor (F) .6	MAC	)P to be Estab!	shed for this Pip	ing by this Te 8	ist 03 PS	Future SIG	Design Pres	sure		9. 9.		81	7 PSIG		
STAT	FIC HEAD DU	ETO	Max. Elev	ation	024 Ft.	Static Hea	d Calculat	ion									
ELEVATION DIFFERENCE Min. Elevation					4770 Ft. For Water			·	0.433	3 X Elev.	Diff. =	110PSIG					
(WHE	ERE APPLICA	BLE)	Elev. Diff.	: 	254 Ft.	Other (Spe	ecify)			X Elev	. Diff. =	-	PSIG				
Siz	A	Pipe Sp	ecification API or	ASTM Grade			lane to	Pipe S	pec. and a Varified		<u>At</u>	% of SMYS	Attlay		Pressure to		
0.D.	W.T.	Long	Seam (ERW	, DSAW, Sean	less, Elc.)	Be	Tested	In	Field		MAOP	Test Press.	Test Press.		SMYS		
34.00	.375	API 5L, X	-52, SAV	VL.		24	425'				70.01	87.53	100.00		1032		
34.00	.375	Elbow Al	91 5L, Y-	52		1	Ea.				70.01	87.53	100.00	1	1032		
34.00	.375	API 5L, X	-65, SAV	VL			35'		meèl		56.00	70.02	80.00		1291		
12.75	.500	API 5L, C	LS	101 000		25'				29.25	36.57	41.78		2471			
12.10	*	DIIIU FIA	nge Ass	enibiy, Ar	131 000		⊏a.		****			*		+	•'		
			****			1	*****			-			<u> </u>		·		
									<b>200</b> 0000000000000000000000000000000000			·					
														+			
		-															
			3-					1	1				[				
Minimum Tes	st Pressure (	@ Max. Eleva	lion		1004	PSIG	Te: To	st Fluid Be Used	- UNDER	<u>JM TE:</u> 30% SN	<u>ST DURATI</u> 1YS (1 HR. MIN	<u>ON</u> IMUM)		8	HOURS		
Elasian Ta	at Decentra	o.u., r	¥		11/7 0010			Water - 30% SMYS & OV			OVER (8 HRS. MINIMUM)						
Prepared By:	Re	dacted	1011	Date:	Eor Information or			hances Call			Dedacto	tod Date:					
Redacted				$\square 3/2$	3/23/01 Redacted				Redacted	3-23-12							
PART II - TESI	T DATA (TO E	E PREPARED	BY PERSON	I SUPERVISIN	G TEST AT TIM	E OF TEST)			Note: N	Ainimum without	test pressure a written approva	nd duration are i il.	not to be change	id			
Time and Date		T.			instant Tast			Min Popula					oble Test		<u>, , , , , , , , , , , , , , , , , , , </u>		
Reached				Po	int		FT	Press. At Te	s. At Test Point (1) PSIG Press at				Test Point (4) PSIG		PSIG		
Time and Date Test Ended	Init Elev. Diff.         Elev. Diff.         Pipe Specification         Size         API or         O.D.       W.T.       Long Seam (ERW         4.00       .375       API ot         4.00       .375       API ot         AVII SL, X-52, SAV         2.75       API ot         AVII SL, X-65, SAV         2.75       SIDI SL, X-65, SAV         2.75       SIDI API SL, X-65, SAV         2.75       BIING Flange Ass         innum Test Pressure @ Max. Elevation         and Date         Pressure         Aun Date <td cols<="" td=""><td>Ma Te</td><td>x. Elevation in st Section</td><td></td><td colspan="2">FT</td><td colspan="2">idicated ressure (2)</td><td>PSIG</td><td>Max. Indic Test Press</td><td colspan="2">Max. Indicated Test Pressure</td><td>PSIG</td></td>		<td>Ma Te</td> <td>x. Elevation in st Section</td> <td></td> <td colspan="2">FT</td> <td colspan="2">idicated ressure (2)</td> <td>PSIG</td> <td>Max. Indic Test Press</td> <td colspan="2">Max. Indicated Test Pressure</td> <td>PSIG</td>	Ma Te	x. Elevation in st Section		FT		idicated ressure (2)		PSIG	Max. Indic Test Press	Max. Indicated Test Pressure		PSIG		
Actual Duration	1			Mi	1. Elevation in		CT.	Min. Test Pi	ressure	70)	DOIO	Max. Test	Pressure	-	0010		
fest Fluid Used	I		<u></u>	1.16	Test Section			pecification and	Footage Ve	(3) rified (Se	See Part I)		levation (6)		PSIG		
Vake, Range, a	and Serial No.	of Pressure Re	cording Gaug	36	Date Last	Calibrated	librated Make, Range, and Serial No. of Dead Weight Tester (See Note 7)					Date Last Calibrated					
Test Supervised By: Date:							Approved By: Date:										
VUT SCHEMAT SHOW LOCATI SHOW REFER	TIC PIPING S ION OF FACII RENCE NUME	KETCH ON BAU ITY TESTED, M ERS ON FACE	C <mark>k of this</mark> Ainimum an Of all dr/	<u>SHEET</u> ID MAXIMUM I AWINGS AND	ELEVATION IN F	EET, MILE F ). FOR STA	POINTS, V TION PIPI	ALVE NUMBEI NG, FABRICAT	RS AND INC ED UNITS /	ORPOR	ATED AREAS. ORT SECTION	USE AN ADDI S OF PIPE, ALS	TIONAL SHEET	IF NE	CESSARY D SKETCH		
NOTES:						ologija (na stani na		DIS	TRIBUTIO	N							
minimum	auc nead due test pressure	at maximum ele	vation* from	PART I.	no maximum ex	svauon) 10		JOB	rile (AI SH	ONSOR	ING ORGANIZ	ATION]	int				
<ol> <li>Use lowes</li> <li>Subtract sl</li> </ol>	t pressure on latic head due	test gauge at ar to elevation diff	y time during erence (betv	g test. veen test point	and maximum el	evation) from	E	GSM	&TS RESPO	INSIBLE	DISTRICT SU	PERINTENDEN	п				
minimum i 4) Subtract st	ndicated test j tatic head due	pressure. To elevation diff	erence (belv	veen test point	and minimum ele	evation) from		PRO	JECT MANA	GER/PF	OJECT ENGIN	IEER					
*maximum	i test pressure	at minimum ele	vation" from	PART I.				TECI	HNICAL & C	ONSTRI	JCTION SERV	CES - ASSIGNI	ED JOBS ONLY				
6) Add static	head due to e	levation differen	ce (between	test point and	minimum elevati	on) to maxim	um	CAPI	TAL ACCOU	JNTING	(FOREMAN'S	COPY OF JOB)					
7) A dead we	ight tester is c	nly required wh	en testing to	a pressure whi	ch produces a sl	ress level of	90%	REC	ORDS SECT	TION (W	C), GMS&TS						
of SMYS o space prov	vr greater. Ho vided above.	wever, it a dead	weight leste	r is used on an	y test, enter the i	ntormation in	the	REP	ORT FAILUF	RES UNE	ER TEST TO	3AS ENGINEER	UNG & PLANNI	NG			



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

(Use in Acco	vidance with	Gas Sta	ndard A-	34 and	GO 112-	0

							à,				Sheet	_1of	1
PART I - D	DESIGN I	DATA (TO B	E PREPARED E	BY PROJE	OT ENGINE	ER)							
Feeder Main N	lumber, Line	Number, or Stat	on Name Are	a	Division	/District	Ded	lacte		Job Number	×	Date Job Authorize	d
	L-3(	00A	<u> </u>	4						41617	7928	3-21	·12
Test 3 – S Sheet 5). N	iegment No spike	B-C – Hydr test for exis	wing Numbers, an ostatically Te ting 34" pipin	d Pipeline M est existir ig in Clas	ileposts 1g 34" pipe ss II due to	e on L-30( o major ele	)A. Mat evation	erials liste changes.	d are from th	e "Material	of Record" (	refer to DWG	41617928,
Hydrotest	L-300A	from Reda	cted					(Test	Section 055	-12)	and a second		
Location Class 2		Design Factor (F) .6	MAOP to I	oe Establishi	ed for this Pipi	ng by this Tes 80	t 3 PSI	Future D	Design Pressure				817 psic
STATI	C HEAD DU	E TO	Max. Elevation	_ 471	<u>6</u> Ft.	Static Head	Calculatio	xn	22222000000000000000000000000000000000		·····		011 1010
ELEVAT	ION DIFFER	RENCE	Min. Elevation	451	8 Ft.	For Water			0.433 X Ele	v. Diff. =		112 <sub>PSI</sub>	3
(WHEI	RE APPLICA	BLE)	Elev. Diff.	25	8 Ft.	Other (Spec	xify)		XE	ev. Diff. =		PSI	3
		Pipe Sp	ecification					Pipe Sp	ec. and		% of SMYS		Pressure to
Size	WT	long	API or ASTN Seam (ERW_DSA	A Grade W Seemles	e Etc.)	Foota	age to octod	Footage	Verified	AL	At Min.	At Max.	Give 90%
34.00	275		52 CANI	(11, 00011000	3,	20	A A1	111		70.04	OT CO	Test Press.	SMTS
34.00	275	Elhow AL	-52, SAVE			24	14	<u> </u>		70.01	07.53	100.00	1032
34.00	375	ADI SI Y	.65 SAWI				_a, 51	-  -		70.01 56.00	70.00	100.00	1032
04.00	.01.0		-00, 04116			19	<u> </u>			50.00	10.02	80.00	1291
							·····						<del></del>
					······································								
								<u> </u>					
i.				T		<u> </u>	Tool	Clinia					
Minimum Tesl	Pressure (	@ Max. Elevat	ion		1004	PSIG	To B	e Used	- UNDER 30%	EST DURAT SMYS (1 HR. MII	ION NIMUM)		HOURS
• Inc	1 Distantia	018- PG-0			4447	5010	W	ater	- 30% SMYS & C	VER (8 HRS. MIN	IMUM)		
Maximum Tes Prenared Rv		acted	ion Date	<u> </u>	1147	PSIG	or Change	s. Call:	- PREINSTALL	ATION TEST (SE Approved By:	E ATTACHMEN	r 'A', GAS STD. A-	34) Data
Redacted			and the second se	5 3/2	3 hora R	edacted				Redacted		3.	-23.12
PART II + TEST	DATA (TO E	IE PREPARED I	BY PERSON SUP	ERVISING	EST AT TIME	OF TEST)			Note: Minimu witho	m test pressure a ut written approv	and duration are r al.	not to be changed	
Time and Date Test Pressure Reached				Eleval	ion at Test	i. N	ст	Min. Require	d Test	DEIG	Max. Allow	able Test	000
Time and Date				Max. 1	Elevation in		F-1	Min. Indicate	d (1)	P 810	Max. Indica	est Point (4) ated	PSIG
Actual Duration			· · ·	Min. E	ection levation in	HI Test Pres			essure (2) PS		Test Pressure (5) Max. Test Pressure		PSIG
of Test Test Fluid Used		1		Test S	ection		FT Pipe Spe	at Max. Eleva cification and I	ation (3) Footage Verified (	PSIG See Part I)	at Min. Elev	vation (6)	PSIG
Make, Range, ar	nd Serial No.	of Pressure Rec	ording Gauge		Date Last C	alibrated	Make	, Range, and S	erial No. of Dead	Weight Tester (1	See Note 7)	Date La	st Calibrated
Test Supervised	By:			#9593877777777777777777777777777	Date:		Appro	oved By:				Date;	
VUT SCHEMATI SHOW LOCATIC SHOW REFERE	C PIPING SI ON OF FACIL INCE NUMB	KETCH ON BAC ITY TESTED, N ERS ON FACE ED.	IN OF THIS SHEE	T XIMUM ELE SS AND AT	VATION IN FI FACHMENTS)	EET, MILE PO . FOR STATI	DINTS, VA	LVE NUMBER G, FABRICATE	S AND INCORPO ED UNITS AND S	PRATED AREAS	. USE AN ADDIT IS OF PIPE, ALSI	TONAL SHEET IF N O SHOW A DETAIL	ECESSARY ED SKETCH
IOTES: 1) Add the stat	lic head due	to elevation diffe	rence (between to	st point and	maximum ele	vation) to		DIST JOB F	RIBUTION ILE (AT SPONSO	ORING ORGANIZ	ZATION)		
2) Use lowest	pressure on	lest gauge at an	y time during test.	den Disenserenter	eterstead, strain an	un des sites des titues		GSM8	TS RESPONSIB	LE DISTRICT SU	IPERINTENDEN	г	
<ol> <li>Subtract sta minimum ind</li> </ol>	tic nead due dicated test p	to elevation diffi pressure,	erence (between t	est point and	l maximum elé	evation) from		PROJ	ECT MANAGER/	PROJECT ENGI	NEER		
) Subtract sta *maximum t	tic head due est pressure	to elevation diffi at minimum elev	erence (between to abon' from PART	est point and 1.	i minimum ele	vation) from		TECH	NICAL & CONST	RUCTION SERV	ICES - ASSIGNE	D JOBS ONLY	
<ul> <li>nignest pres</li> <li>Add static h</li> </ul>	ssure on test ead due to e	gauge at any tir evation different	ne ounng test. :e (between test p	oint and min	imum elevatio	n) to maximur	n	CAPIT	AL ACCOUNTIN	G (FOREMAN'S	COPY OF JOB)		
indicated tes ) A dead weig of SMYS or	st pressure. Iht lester is o oreater. How	nly required who vever, if a dead	in testing to a pres	sure which j	produces a str	ess level of 90 Iformation In 1	)% be	RECO	RDS SECTION (	NC), GMS&TS	····· •		
space provid	led above.	South and the second						REPO	RT FAILURES U	NDER TEST TO	GAS ENGINEER	ING & PLANNING	