

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

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

DAPT!	NE CICAL P	ATA MAP	ב מסבסגמבה מע הנ		D)			ana ana ang ang ang ang ang ang ang ang	Sheet_	_10f	3
Pender Main	Number, Line 1	Vumber or Stati	on Name Area	Division/	a vy District			Job Number		Date Job Authorize	rd
yourse mont	1.4	32		1	Pa	ninsula		4149	7349	July 22. 201	i.
escription o EST 2 - leeves, lydrotes	r Job - Include - Hydrostat etc. are fro t L-132 froi	Reference Dray ically test ti m the "Mate m MP 18.46	wing Numbers, and Pip e-in piping, hydr erial of Record" (321 – 23.1638	eline Mileposts ostatic test pipil (refer to Dwg. 4 Menlo Park to I	ng and existii 1497349, Sh Redwood Cit Asscentio	ng 24" and 30 eet 8) <u>76575</u> y, CA (" L-132. E <u>Gact-ocs</u> Test section	xisting pipelli <u>30'(Frea</u> on 31) (EP 40 T=31, 1	ne material li 113) 18-5 6 Ewcob C Est 2-A4	sted; ie. pipe, 54. For ta 2055 over) - loc. A.*	əlbows, <i>X-ön 1-</i> 32
cation Clar 3	SS D	esign Factor (F) .5	MAOP to be Es	tablished for this Pipir	ng by this Test 400	PSIG Future	Design Pressu	19			400 <u>PSIG</u>
STA	TIC HEAD DUI	ETO	Max. Elevation	553 FL	Static Head Calc	culation					
ELEV	ATION DIFFER	ENCE	Min. Elevation	<u>168</u> FL	For Water		0.433 X	Elev. Diff. =		167PSI	3
(WH	ERE APPLICA	BLE)	Elev. Diff.	385 Ft.	Other (Specify)			(Elev, Diff. =	N FOLDIO	PSI	3
PI		Pipe Sp	ecification	ndo		n Pipe S	pec. and e Verifier	Al	At Min	At Max	Give 90%
0.D.	W.T.	Long	Seam (ERW, DSAW, S	Seamless, Etc.)	Be Tester	i in	Field	MAOP	Test Press.	Test Press.	SMYS
0.00	.375	API 5L G	R X-42, DSAW	(item#1) 605'	MOR		38.10	57.14	79.52	945
0.00	.375	API 5L G	R X-65, DSAW	(item#103) 2	* 22.3	150	24.62	36.92	51.38	1463
0.00	.3125	API 5L G	R X-52, DSAW	(item#2) 3802'	NOR		36.92	55.38	77.08	975
4.00	.375	API 5L G	R X-60, DSAW	(item#106) 37	178.8	/ JE	21.33	32.00	44.53	1688
4.00	.3125	API 5L G	R X-42, DSAW	(item#3	357'	MOR		36.57	54.86	76.34	984
4.00	3125	GR B. SM	ALS	(item#4	580'	MOR	-	43.89	65.83	91.61 -	820
4.00	281	GR B 450	000 SMYS. SML	S (item#5	20276	- 2021	6918	37.96	56.94	79.24	948
4.00	.281	API 5L G	R X-42. DSAW	(item#6) 20'	MON		40.67	61.01	84.90	885
4.00	250	API 5L G	R X-42, DSAW	(item#7	1 16'	MISR		45.71	68.57	95.43	788
50	237	API 5L G	R B. SMLS	(item#21	1 3'	MAR	<u>*</u>	10.85	16.27	22.65	3318
50	216	API 51 G	R B. SMI S	(item#22	3'	Ner R		9.26	13.89	19.33	3888
epared By lark Cal	bral MA	a.k./2 BE PREPARED	Date: BY PERSON SUPER	- 3-11 F	or Information or (R. Scott Clap) E OF TEST)	Changes, Cell: p (530) 514-6	482 Note: M	Approved B nimum test pressu	r: re and duration ar	e not to be changed	Date; 15///
ime and Da	le	10	:31 km	Clavation at Tost	505	S/ Min Rent	ired Test	without written app	SØ May All	nwahla Test	6830
eached		+2;	II-U2-II Point GISS Pro Max Elevation in II-U2-II Test Section 8-00075 Min Elevation in			Press. At	Press. At Test Point Min. Indicated Test Pressure Min. Test Pressure		G Press al	Test Point (4) PSIG
est Ended	110 	11-			- FT 149	Test Press Min Test			G Test Pre	el Promute) PSIG
Test est Fluid Us	sed	lau	- ministe	Test Section		at Max. El	evation Footage Ver	(3) PSI fied (See Part I)	G at Min. I	Elevation (6	PPSig
<u></u>	aler	10 0			<u> </u>	<u> 4- 110</u>	<u>ung</u>	JE MJ	<u> </u>		
ake, Range	a, and Senai Mo). Of Pressure H	ecoroing Gauge	Uate Last		Make, Range, an	o Senai No. of	Dead Weight Teste	er (See Note /) パノー・イム つ		ast Calibrated
ast Supervi	sed By:	<u>NOCO 1</u>	<u> 1924 - 26</u>	Date:	<u> </u>	Approved By:	712	A State	a alla Bassa	Date	<u> </u>
Zan IT SCHEN	ALC PIPING	SKETCH ON B		11-12	-11		27	Conne)		<u>//-/4-//</u>	
IOW LOC/ HOW REF	ATION OF FAC ERENCE NUM SSEMBLY TES	ILITY TESTED, BERS ON FAC TED.	MINIMUM AND MAXII E OF ALL DRAWINGS	MUM ELEVATION IN AND ATTACHMENT	FEET, MILE POIN S). FOR STATION	TS, VALVE NVMB I PIPING, FABRIC	ERS AND INC ATED UNITS A	ORPORATED ARE ND SHORT SECT	AS. USE AN AD IONS OF PIPE, A	DITIONAL SHEET IF LSO SHOW A DETA	NECESSARY JLED SKETCH
DTES: Add the "minimu	stalic head du im lest pressur	e to elevation di e at maximum e	fference (between test levation" from PART I.	point and maximum e	levation) to	DI JO	<u>STRIBUTION</u> B FILE (AT SP	L ONSORING ORGA	NIZATION)		
Use low Subtrac	rest pressure o t static head du m indicated tec	n test gauge at : ie to elevation d f pressure	any time during test. ifference (between test	point and maximum e	elevation) from	GS	M&TS RESPC	NSIBLE DISTRICT	SUPERINTEND	ENT	
Subtrac	t static head du	e lo elevation d	ifference (between test	point and minimum e	levation) from		CLIMPAL & C	MOTOLICTICAL		NICH INDO ANI Y	
Highest Add sta	um test pressur pressure on te tic head due to	e at minimum e st gauge at any elevation differe	time during test. ance (between test poin	it and minimum eleval	ion) to maximum	CA	PITAL ACCOU	INTING (FOREMAL	VS COPY OF JO	B)	
indicate	d lest pressure weight lester is	nalv remiired w	han lesting to a pressu	re which produces a	tress level of 90%	RF	CORDS SECT	ION (WC). GMS&T	8	5. N.	
of SMY	S or greater. H	owever, if a dea	id weight tester is used	on any lest, enter the	information in the			ES HNDED TEST	TO GAS ENGINE		a



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 (Jee in Accordance with Cas Standard A-34 and GO 112 D)

PGG	Gas I (For Pi	Pipeline Fa peline Faciliti	es Designed to (n gth Test Press Operate over 100 PS	sig)	ort	F	IN	AL	(Use in Accords Sheet	California Ga nce with Cas Standard	s Transmission A-34 and GO 112-D)
PARTI	- DESIGN	DATA (TO B	E PREPARED BY	PROJECT ENGINEER	R)			-	I Joh Mumhar		Onto Job Authoriza	
reeder Ma	in Number, Line	1900 1929	OII Mame Alea		лырад	Pening	sula		4149	7349	July 22, 201	1
Description	of Job - Includ	e Reference Dra	wing Numbers, and F	ipeline Mileposts				i in a m			waiy may not	
TEST 2	- Hydrosta	itically test to om the "Mat	e-in piping, hy erial of Record	drostatic test pipin 7 (refer to Dwg 41	ig and exi 1497349	Isting 2 Sheet	:4° and 30° 81	L-132. E	-xisting pipelin	e material lis	ted; ie. pipe, i	elbows,
Hydrote	st L-132 fro	om MP 18.4	621 – 23.1638	Menio Park to F	Redwood	City, C	:A (1	Test section	on 31)		*********	
Location Cl	855	Design Factor (F) 5	MAOP to be	Established for this Piping	g by this Test 401	0 psi	Future D	esign Pressu	ire			400 psig
s		IF TO	Max Elevation	553 Ft.	Static Head	Calculatio	in 1					300 1010
FLF	VATION DIFFE	RENCE	Min Flevation	168 Ft.	For Water			0.433 X	Elev. Diff. =		167 _{PSI}	G
	HERE APPLIC	ABLE)	Elev. Diff.	385 FL	Other (Speci	ify)			X Elev. Diff. =		PSI	G
		Pipe Sp	ecification				Pipe Sp	ec. and		% of SMYS		Pressure to
0.D.	Size W.T.	Long	API or ASTM (Seam (ERW, DSAW	Grade , Seamless, Etc.)	Foota Be Te	ge to ested	Footage In F	Verified ield	At MAOP	At Min. Test Press.	At Max. Test Press.	Give 90% SMYS
3.5	.188	API 5L G	R B. SMLS	(item#22)	8	y	MOR		10.64	15.96	22.21	3384
2.375	.154	API 5L G	R B, SMLS	(item#23)	6	•	MOR		8.81	13.22	18.40	4085
1.66	.140	API 5L G	R B, SMLS	(item#24)	5	?	MOR		6.78	10.16	14.14	5313
1.05	.113	API 5L G	R B, SMLS	(item#25)	1(<u>)</u> ,	MOR	-	5.31	7.96	11.08	6780
30.00	.375	Elbow, L	R, GR Y-52	(item#8)	141	Ea.	MOR		30.77	46.15	64.23	1170
30.00	.375	Elbow, L	R, GR Y-42	(item#9)		<u>a.</u>	MOR			57.14	79.52	945
24.00	.500	Elbow, L	K, GK B	(Item#10) (//www.#444)		:a.	MOK.		21.43	41.14	57.20	1313
24.00	375	Elbow, L	R, OR 1-52	(item#12)	16	.a. •a	NOR		38.57	54.88	01.30 76.34	1405 084
24.00	3125	Elbow, L	R. Grade Unk	nown (item#13)	15	Ea.	MAD		Ness	845.00	10.04	8845
Minimum	Test Pressure	@ Max. Eleva	tion	600	PSIG	Tes To E W	t Fluid Be Used ATER	MINIMU - UNDER 3 - 30% SMY	M TEST DURAT 10% SMYS (1 HR. M S & OVER (8 HRS. M	L TON INIMUM) NIMUMI		8 HOURS
Maximum	Test Pressun	e @ Min. Eleva	tion	835	PSIG			- PREINST	ALLATION TEST (S	EE ATTACHMEN	T 'A', GAS STD. A	-34)
Prepared B Mark Ca	y: ahral Ma	a, b A	Date:	FO	r Information Scott Cl	or Chang ann (51	es, Call: 30) 514-64	82	Approved By:	III.	4	Date:
PART II - T	EST DATA (TO	BE PREPARED	BY PERSON SUPE	RVISING TEST AT TIME	OF TEST)			Note: Mi	nimum test pressure without written appro	and duration are inval.	not to be changed	
Time and D	ale	10%	BI KIN	Terrer	1.50	SQ. C	Min Desuite	d Test	619.0	50	and the second	100 69
Reached	lle	11-	12-0	Point		FT	Press. Al Te	et Point	(1) PSIG	Press at T	racie rest est Point (4) PSIG
Time and D Test Ended	ate	6:	55 PM 12-11	Max. Elevation in Test Section	-55	3 FT	Min. Indicate Test Pressu	ed re	(2) (30, PSIG	Max. Indic Test Press	ated jure (5	CBU CO PSIG
Actual Dura	tion	8-	Hours	Min. Elevation in	16	8.	Min. Test Pr	essure volice	GIO.5	Max. Test	Pressure	\$31.3
Test Fluid L	lsed		1.000-010-	1 Test decilitat		Pipe Sp	eclification and	Footage Veri	ified (See Part I)	at Mills, Els	<u>vauon (0)</u>	roig
Make Ratio	ATCA In and Serial N	n of Pressure Re	conding Gauge	Date Last C	alibrated	Mak	a Ranna and	Serial No. of	Doord Walaht Tector	(Con Mato 7)	Data	ant Calibrated
Bart	cons o	-1000,	202-382	19 10-20	5-11	A	METE	K-26-	-3000	46432	10-	-10-11
Test Super	ised by:	in MA	13	Date:	11	Арр	roved By:	19	Buni	1	Date 1-/4-1/	۲.
PUT SORE SHOW LOC (SHOW REI	MATIC PIPING ATION OF FAC FERENCE NUM	SKETCH ON BA	CK OF THIS SHEE MINIMUM AND MAX OF ALL DRAWING	[IMUM ELEVATION IN FI S AND ATTACHMENTS)	EET, MILE PI	oints, V Ion Pipi	ALVE NUMBER	RS AND INCO	ORPORATED AREA	S. USE AN ADDI	TIONAL SHEET IF	NECESSARY ILED SKETCH
OF EACH A	SSEMBLY TES	TED.					DIST	RIBUTION	1			
(1) Add th	e static head du	e to elevation dif	ference (between tes	t point and maximum ele	vation) to		JOB	FILE (AT SPI	ONSORING ORGAN	IIZATION)		
(2) Use lo	west pressure c	n test gauge at a	ny time during test.	ter 19. southus in 19 main Million (* 19	arrest days		GSM	&TS RESPO	NSIBLE DISTRICT	UPERINTENDEN	π	
(o) Subus minimu	um indicated tes	t pressure.	mererica (between te	si pomi ano maximum elf	evauon) from		PRO.	JECT MANA	GER/PROJECT ENG	INEER		
(4) Subtra "maxin	ct static head di num test pressu	ue to elevation di re at minimum el	nerence (between te evation* from PART	st point and minimum ele I.	vation) from		TECH	INICAL & CO	DNSTRUCTION SER	VICES - ASSIGN	ED JOBS ONLY	
(5) Highes (6) Add sta	t pressure on te atic head due to	st gauge at any l elevation differe	lime during test. nce (between test nr	int and minimum elevation	in) to maximu	Im	CAPI	TAL ACCOU	NTING (FORFMAN	S COPY OF JOBI	and a first state of the second s	
indicate	ed test pressure		tion toelling to a new	ura which newtone a st	mon touri of 0	nez.	DEM		ICAL ANCI CLICOTO			
of SMY	'S or greater. I	lowever, if a dear	d weight tester is use	d on any test, enter the ir	normation in	the		JRT FAILUD	ESTINDED TEET T	CAS ENCINEE	NA & DI ANNING	



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)

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ART I -	DESIGN I	DATA (TO BE	PREPARED BY P	ROJECTENG	INEER)				1.5. 11		Parts 1.1.1	
eeder Main	Number, Line I	Number, or Stati	on Name Area	Div	/ision/District	t			Job Number		Date Job Authorize	жі •
orodalica o	L-1	32 Peterance Dra	wing Numbers and Pin	1 Juline Milennets		Peni	nsula	L	4149/	349	July 22, 201	1
EST 2 - leeves, (lvdrotes	 Hydrostal etc. are fro t L-132 fro 	tically test ti m the "Matu m MP 18.40	e-in piping, hydr erial of Record" 521 – 23,1638	rostatic test (refer to Dw Menio Park	piping ar /g. 41497 < to Redv	nd existing 7349, Shee wood City.	24" and 30" et 8) CA (T	L-132. Exis	ting pipeline	e material lis	ted; le. pipe,	elbows,
	5 and 5 an ar ar ar	andren inden s										-
ocation Clas	s [[Jesign Factor (F)	MAOP to be Es	stablished for this	s Piping by II	his Test 400 F	SIG Future D	esign Pressure				400 psk
STA	TIC HEAD DU	ETO	Max. Elevation	553 1	Ft. Stati	ic Head Calcul	tion				100	
ELEV/	ATION DIFFEF	RENCE	Min. Elevation	<u>168</u> I	Ft. For \	Water		0.433 X Ele	<i>ı</i> . Diff. =		16/ PSI	G
(WH	ERE APPLICA	(BLE)	Elev. Diff.	385 1	Ft. Othe	er (Specify)		XEI	ev. Diff. =		PSI	G
QF	70	Pipe Spi	ecification APL or ASTM Gr	ehe		Footage to	Pipe Spi Footage	ec. and Verified	At	% of SMYS	AtMax	Pressure to Give 90%
0.D.	W.T.	Long	Seam (ERW, DSAW, \$	Seamless, Etc.)		Be Tested	In Fi	ield	MAOP	Test Press.	Test Press.	SMYS
0.00	.500	Reducer, 38000 SM	24"x30", Conc MYS	centric, (item	#16)	1 Ea.	more		31.58	47.37	65.92	1140
0.00	.375	Reducer, Y-42	24"x30", Conc	centric, (itemi	#17)	1 Ea.	MOR		38.10	57.14	79.52	945
0.00	.375	Sleeve, G	3R X-52	(item	1#18)	1 Ea.	MOR		30.77	46.15	64.23	1170
4.00	.375	Sleeve, C	Frade Unknown	n (item	#19)	3 Ea.	MUL			#####		****
4.00	.500	Sleeve, G	Frade Unknown	<u>า (item</u>	#20)	5 Ea.	Mak		****	2922		****
linimum Tr	est Pressure	@ Max. Eleva	ition	6	00 psi	IG T	est Fluid o Be Used wateo	- UNDER 30%	EST DURAT SMYS (1 HR. MI	<u>ION</u> NIMUM) VIBALINA		8 HOUR
		Contraction and the second	a a service de la company	and the second				and the state of t		30 66 59 7.9 .0 5 59 5 1.		
Aaximum T repared By:	est Pressure	1 @ Min. Eleva	ition Date:	8	35 PSI For Info	IG Imation or Cha	nges, Call:	- PREINSTALL	ATION TEST (S Approved By:	EE ATTACHMEN	T 'A', GAS STD. A	-34) Date:
Aaximum T repared By: Aark Cak ART II - TE:	iest Pressure pral 2014 ST DATA (TO	ender BE PREPARED	ition Caral Date: BY PERSON SUPERY	8 9 - 3 - 11 Vising test at	35 PSI For Info R. Sc T TIME OF 1	IG rmation or Cha cott Clapp (TEST)	nges, Call: 530) 514-641	- 30% SMTS & C - PREINSTALL 82 Note: Minimu with	ATION TEST (SI Approved By: im test pressure out written appro	EE ATTACHMEN and duration are val.	T 'A', GAS STD. A	-34) Date: 3/5/1
faximum T repared By: Ark Cak ART II - TE: ime and Dat est Pressure eached	Test Pressure Dral ST DATA (TO le	e @ Min. Eleva	ttion Date: Date: BY PERSON SUPER BY	8 9 - 3 - 1/ VISING TEST AT Elevation et T Point	35 PSI For Info R. Sc T TIME OF 1	IG Irmation or Cha cott Clapp (TEST)	nges, Call: 530) 514-64 Min. Require Press. At Te	- 30% SMITS & C - PREINSTALL 82 Note: Minimum without ad Test st Point (1)	ATION TEST (SI Approved By: m test pressure out written appro	ATTACHMEN and duration are val.	T 'A', GAS STD. A	-34) Date:- ////////////////////////////////////
Aximum T repared By: Aark Cat ART II - TE ime and Dat est Pressure eached me and Dat ast Ended	Test Pressure oral //// ST DATA (TO le e	a @ Min. Eleva a.k/0 BE PREPARED 10 11- 11- 11- 11- 11- 11- 11-	tion Date: Date: BY PERSON SUPER 3(Ann 12-11 52 Pm -12-11	8 9 - 3 - // VISING TEST AT Elevation at T Point Max Elevatio Test Section	35 PSI For Info R. Sc T TIME OF 1 Fest	IG Immation or Cha sott Clapp (TEST) SD 8 FT SS 3 FT	Min. Require Press. At Te Min. Indicate Test Pressu	- 30% Series a C - PREINSTALL 82 Note: Minimu withu ad Test st Point (1) ad re (2)	ATION TEST (SI Approved By: mm test pressure out written appro- PSIG PSIG	ATTACHMEN and duration are val. Max. Allow Press at T Max. Indic Test Press	T 'A', GAS STD. A not to be changed vable Test est Point (4 vated sure (5	-34) Date: 3/5/1 (687, PSIG 694,) PSIG
laximum T repared By: fark Cak ART II - TE: me and Dat set Pressure eached me and Dat set Ended tual Duratio	rest Pressure pral <u>ha</u> st DATA (TO le e le	a @ Min. Eleva a @ Min. Eleva BE PREPARED 10 11 63 11 11 63 11 11 11 11 11 11 11 11 11 1	ition Date: Da	8 9 - 3 - 1/ VISING TEST AT Elevation at T Point Max. Elevation Test Section Min. Elevation	35 PSI For Info R. Sc T TIME OF 1 Fest	IG Immation or Cha cott Clapp (TEST) SU 8 FT SS 8 FT I 6 S	Min. Require Press, At Te Min. Indicate Test Pressu Min. Test Pressu Min. Test Pressu	OVE SHITS at C PREINSTALL B2 Note: Minimu witho ad Test st Point (1) ad re (2) essure	ATION TEST (SI Approved By: unitest pressure unitest pressure of CAR Si PSIG CAR Si PSIG	and duration are rel. Max. Allow Press at T Max. Indic Test Press Max. Test	T 'A', GAS STD. A	-34) Date:- g///// / / / / / / / / / / / / / / / /
Aximum T repared By: Ark Cal: Ark Cal: Art II - TE: ime and Dat ast Pressure eached me and Dat ast Ended Test sat Fluid Us:	Test Pressure oral ST DATA (TO te a te a an ed	a @ Min. Eleva a @ / 0 BE PREPARED 10 11- 11- 11- 11- 11- 11- 11-	tion Date: D	8 9 - 3 - // VISING TEST AT Elevation at T Point Max. Elevation Test Section Min. Elevation Test Section	35 PSI For Info R. Sc T TIME OF 1 Fest on In	IG Immation or Cha scott Clapp (TEST) SD 8 FT FT I C 8 FT FT FT FT	Min. Require Press. At Te Min. Indicate Test Pressu Min. Test Pr at Max. Elev Specification and	PREINSTALL PREINSTALL PREINSTALL B2 Note: Minimu with with sd Test st Point (1) id re (2) essure ation (3) Foology Verified	ATION TEST (SI Approved By: m test pressure but written appro PSIG PSIG (See Part/)	E ATTACHMEN and duration are val. Max. Allow Press at T Max. Indic Test Press Max. Test at Min. Ele	T 'A', GAS STD. A Not to be changed vable Test est Point (4 vated sure (5 Pressure evalion (6)	-34) Date: 24/5/1 PSIC PSIC S31-3 PSIC
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THIS IS A SUCCESSFUL RETEST. THE INITIAL TEST ATTEMPT DISCHERED FXISTING MECHANICAL DAMAGE RESULTING IN A RUPTURE FAILURE. THE RUPTURED PIPE WAS REPLACED. SEE THE T-31 TEST FOLDER. FOR DOCUMENTATION OF THE FAILED TEST.