

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

(Use in Accor		62-4921 Ii fornia Gas T Sas Standard A-34	ransm	ission
Sheet _	1	of	_1_	

					ROJECT ENGINEER	<u> </u>										
Feeder Main N	·	Number, or Stati	on Name	Area	Division/Di			•		Job	Number		Date Job Au		اما	
Description of	lah Indu	148 le Reference Drav	wing Numbers	5 and Pine	eline Milenosts			osemite			41617	948	02	2/24/20	12	
Test 1 - H	-lydrosta	tically test 8"	& 6" isola	ation ca	ps & tie-in asser	nbly a R	edacte	d								
Hydrotest	L-148 fr	Redacted	d [Mantec	a & Modesto, CA	4 (T-097-	12)	REVISIO)N 1:	CHANGE	D NITROG	EN TEST	LOCA	TIONS	
Location Class	3	Design Factor (F)	MAOI	o to be Est	tablished for this Piping	by this Test		1	esign Pressu	ire				72	0 PSIG	
STAT	TC HEAD D	UE TO	Max. Eleva	tion	Ft.	Static Head	Calculatio	n								
ELEVA	TION DIFFE	RENCE	Min. Elevat	ion _	Ft.	For Water C				Elev. D	iff. =	PSIG				
(WHE	RE APPLIC	ABLE)	Elev. Diff.		0 Ft.	Other (Specify)					Diff. =		PSIG			
		Pipe Sp	ecification					Pipe Sp				% of SMYS			Pressure to	
O.D.	e W.T.	Long		ASTM Gra DSAW, S	ide eamless, Etc.)	Foota Be To	•	Footage In F		1 ,	At MAOP	At Min. Test Press.	At Ma	1	Give 90% SMYS	
8.625	0.322	Pipe, AP				8'-	4"				5.61	26.56	30.2		2352	
6.625	0.280		I 5L, GR I			1 6					3.79	23.46	26.7		2663	
8.625	0.322		ight, GR		(Item #219)	1 1 8	Ea.				5.61	26.56	30.2		2352	
6.625	0.280		5 Deg, Gl		R (Item #221)	1 6	Ea.		***************************************	1 1	3.79	23.46	26.7		2663	
6.625	0.280	Elbow, 9	0 Deg, Gl	R B, LR	R (Item #222)	1 E	Ea.			1	3.79	23.46	26.7	0	2663	
8.625	0.322	Reducer	8x6, GR	В	(Item #139)	1 E	≣a.			1	5.61	26.56	30.2	3	2352	
8.625	0.322	Cap, GR	В		(Item #163)	2 8	Ξa.			1	5.61	26.56	30.2	3	2352	
6.625	0.280	Cap, GR			(Item #164)	1 E				1	13.79	23.46	26.7	0	2663	
8.625	0.322	Valve, Ba	all, ANSI	300		1 E	Ea.				· • ·	D.			m	
	Test Fluid MINIMUM TEST DURATION															
Minimum Te	est Pressur	e @ Max. Eleva	ation		694	PSIG		t Fluid le Used			YS (1 HR. MI			1	HOUR	
								ATER	- 30% SMY	S & OVE	R (8 HRS. MII	IMUM)	100000			
Maximum To Redacted	est Pressu	re @ Min. Eleva	ation		790	PSIG	or Chang	as Call	- PREINST			E ATTACHME	VT 'A', GAS	****) Date:	
Redacted								588-3640	١	'	opproved By:	2/2Ca	Pal		8-12	
PART II - TES	T DATA (T	O BE PREPARED	BY PERSON	I SUPERV	ISING TEST AT TIME	CITCHIA CARSANTI SONO ANTINA SALIFAT			Note: Mi		est pressure	and duration are				
										without	written approv	ral.				
Time and Date					F 6 47 1			Min Dogular	nd Tont			May Alla	wahla Taal			
Test Pressure Reached	,				Elevation at Test Point				equired Test At Test Point (1) PSI			1	wable Test Test Point	(4)	PSIG	
Time and Date	 9				Max. Elevation in			Min. Indicate	ed			Max. Indi	cated			
Test Ended		1299 A. Carrier			Test Section		FT	Test Pressu	re	(2)	PSIG	Test Pres	ssure	(5)	PSIG	
Actual Duration	on				Min. Elevation in Test Section		FT	Min. Test Pr at Max. Elev		(3)	PSIG		t Pressure	(0)	PSIG	
Test Fluid Use	ed			Process Bull	Test Section			ecification and			<u> </u>	at Min. E	ievalion	(6)	1 010	
Make, Range	and Serial	No. of Pressure R	ecording Gau	ge	Date Last C	alibrated	Mak	e, Range, and	Serial No. of	Dead W	eight Tester	See Note 7)		Date Las	t Calibrated	
Test Supervis	ed By:				Date:		App	roved By:			·····			Date:	······································	
DUTCOUEM	ATIO DIDINI	OVETOU ON D	ACK OF THE	OUEET										****		
SHOW LOCA	TION OF FA		, MINIMUM A	ND MAXIN	MUM ELEVATION IN FI											
(SHOW REFE OF EACH AS			E OF ALL DR	AWINGS	AND ATTACHMENTS)	. FOR STAT	FION PIPI	NG, FABRICAT	TED UNITS A	ND SH	ORT SECTIO	NS OF PIPE, AI	SO SHOW A	DETAILE	D SKETCH	
NOTES:									TRIBUTION							
		due to elevation di ure at maximum e			ooint and maximum ele	vation) to		JOB	FILE (AT SP	ONSOR	ING ORGAN	IZATION)				
(2) Use low	est pressure	on test gauge at	any time durir	ig test.	point and maximum ele	avation) from		GSM	1&TS RESPO	NSIBLE	DISTRICT S	UPERINTENDE	ENT			
minimun	n indicated t	est pressure.	•			,		PRO	JECT MANA	GER/PF	ROJECT ENG	INEER				
		due to elevation d sure at minimum e			point and minimum ele	vation) from		TEC	HNICAL & C	ONSTRI	JCTION SER	VICES - ASSIG	NED JOBS C	NLY		
(5) Highest	(5) Highest pressure on test gauge at any time during test.															
indicated	d test pressu	re.	·	·							•		-,			
of SMYS	or greater.	However, if a dea			re which produces a st on any test, enter the i					•	C), GMS&TS					
	rovided abov		=					REP	ORT FAILUF	RES UNI	DER TEST TO	GAS ENGINE	ERING & PLA	NNING		



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I TOIL												Sheet _	_1 of _		1
					OJECT ENGINEER)										
Feeder Main N	•	lumber, or Statio	on Name	Area	Division/Dis					Job	Number		Date Job Authoriz		•
Description of	L-14	~ ~	uina Numbora	5	line Mileneste	Stock	cton/Y	<u>osemite</u>	A.III.		41617	948	02/24	/2012	2
Test 2 – To to DWG 41	est 8" L-1 1617948 - led values	from PG&I	eath Reda F Resoluti	cted					ws, sle	eves, et	c. are fro	m the "Mat	erial of Recor	⁻ d". (F	Refer
Hydrotest	L-148 from	Redacted	d b		a & Modesto, CA		-097-1		REVIS	ION 1:	CHANGE	D NITRO	BEN TEST LO	CAT	TIONS
Location Class		esign Factor (F)		o to be Esta	ablished for this Piping I	by this Test 408	PSI	1	esign Pres	sure				720	PSIG
	IC HEAD DUE		Max, Elevat	tion	32 Ft. S	Static Head C									
	TION DIFFER		Min, Elevati	-	07	For Water	Jaioulatio		0.433 X Elev. Diff. = PS						
				-	F		0.028	X Elev. D	Newsons		^	_ PSIG PSIG			
(WHE	RE APPLICAL		Elev. Diff. ecification		5 Ft. (Pipe Sp		A Clev. L	лп. –	% of SMYS			ressure to		
Size			API or A	ASTM Grad		Footag		Footage	Verified		At	At Min.	At Max.		Give 90%
O.D.	W.T.	~	Seam (ERW,			Be Te:		In F	ield		1AOP	Test Press.	Test Press.		SMYS
8.625	0.322		I 5L, GR E			2'					5.61	26.56	30.23		2352
8.625	0.312	1 ,			med) (Item #2)	42		_			3.50	39.97	45.50	_	1562
8.625	0.277		1 5L GR B		······································	322 10		<u> </u>	A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		8.15 7.72	30.87 30.14	35.14 34.31		2023
4.500 1.050	0.148 0.113*	Pipe, GR	B (35,000	J)	(Item #5) (Item #7)	42°	****		·		6.77	11.52	13.11		5424
8.625	0.113	Cap, GR		***************************************	(Item #163)	2 E					5.61	26.56	30.23		2352
8.625	0.322	Elbow, G			(Item #4)	6 E					5.61	26.56	30.23		2352
0.020	U.UZZ	Libor, C	, LIX		(ROITI II-1)	02	u .			 '	0.01		00.20		
						<u> </u>			nev-	+		***************************************		\dagger	
Test Fluid MINIMUM TEST DURATION													N. C.		
Minimum Test Pressure @ Max. Elevation 694 PSIG To Be Used NITROGEN - UNDER 30% SMYS (1 HR. MINIMUM) - 30% SMYS & OVER (8 HRS. MINIMUM)												1	HOUR		
Maximum Te Redacted	et Pressure	Min Fleva	ation	148		PSIG Information of	or Chong	on Cally	- PREIN		ON TEST (SE pproved By:	EE ATTACHME	NT 'A', GAS STD.		ate:
Reducted								es, Can.) 588-3640		^	MAN	RAC	alrel		8-12
PART II - TES	T DATA (TO	BE PREPARED) BY PERSON	SUPERV	VISING TEST AT TIME (OF TEST)			Note:		est pressure vritten approv		e not to be changed	İ	,
Time and Date								Min Desvis				May Alle	wohle Teet	T	
Test Pressure Reached					Elevation at Test Point		FT	Min. Require Press. At Te		(1)	PSIG	1	owable Test Test Point ((4)	PSIG
Time and Date Test Ended	э				Max. Elevation in Test Section		FT	Min. Indicat Test Pressu			Max. Ind Test Pre		(5)	PSIG	
Actual Duratio	in'				Min. Elevation in		r:~	Min. Test Pi		(0)	neic		st Pressure		DOLO
of Test Test Fluid Use	ed e	<u> </u>			Test Section		FT Pipe Sp	at Max. Eleverification and		(3) erified (Se	PSIG e Part I)	at Min. E	elevation (6)	PSIG.
Make, Range,	and Serial No	o. of Pressure R	ecording Gau	ge	Date Last Ca	alibrated	Mak	ke, Range, and	Serial No.	of Dead W	eight Tester	(See Note 7)	Date	E Last (Calibrated
Test Supervise	ed By:	Andrews and a second second			Date:		Арр	roved By:					Da	ate:	
SHOW LOCA	TION OF FAC ERENCE NUM	IBERS ON FAC	, MINIMUM AI	ND MAXIM	NUM ELEVATION IN FE AND ATTACHMENTS).	ET, MILE PO FOR STAT	DINTS, V ION PIPI	'ALVE NUMBE NG, FABRICA'	RS AND IN	ICORPOR S AND SHO	ATED AREAS ORT SECTIO	S. USE AN AD NS OF PIPE, A	DITIONAL SHEET LSO SHOW A DET	IF NEΩ ΓAILED	CESSARY SKETCH
NOTES:									TRIBUTION						
		ie to elevation d re at maximum e			point and maximum elev	ration) to		JOB	FILE (AT S	SPONSOR	ING ORGAN	IZATION)			
(2) Use lowest pressure on test gauge at any time during test. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT															
` minimum	n indicated tes	st pressure.	,		•			PRO	JECT MAI	NAGER/PF	OJECT ENG	SINEER			
		ue to elevation o re at minimum e			point and minimum elev	ration) from		TEC	HNICAL &	CONSTRU	JCTION SER	VICES - ASSIG	SNED JOBS ONLY		
(5) Highest	pressure on te	est gauge at any	y time during to	est.	at and minimum elevation	n) to mavimu	ım					S COPY OF JO			
indicated	d test pressure	9.	•			•					•		-,		
of SMYS	or greater. H	lowever, if a dea			re which produces a street on any test, enter the in					,	C), GMS&TS				
enana nr	avade babiyar							REP	CRIFALL	JRES HME	JER TEST TO	J GAS ENGINE	FRING & PLANNI	N(3	



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Sheet_

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					ROJECT	PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Feeder Main Number, Line Number, or Station Name Area Division/District Job Number Date Job Authorized														
Feeder Main Number,	Line N	umber, or Static	n Name	Area	,	Division/[Distric	t					Jó	b Number		Da	ate Job Au	horized		
	L-14	18		5				Sto	kton/Y	ose	mite			4161	7948		02	24/2012	2	
Description of Job – In												Reda	cted	Exis	sting ma	terial li	isted; i.e	e. pipe, e	elbows,	
sleeves, etc. ar Hydrotest L-148	e fron	n me iware Redacted	eriai oi	Mante				<u> </u>	<u>8 – Sne</u>	et /	1	DE\/IC	NON 4	: CHANC	SED NIT	PAGE	N TEC	11004	TIONS	
nydiolesi L-140	o II OII	reducted		iviante	Ja, UA	(1-	097	-12)				KEVIC	DION I	CHANG	SED MII	KUGE	ENIES	LUCA	HONS	
Location Class 2	De	esign Factor (F)	N	IAOP to be E	stablished	for this Pipin	g by	this Tes 40		G	Future De	esign Press	sure					720	PSIG	
STATIC HEA	D DUE	:TO	Max. F	levation	36	Ft.	Static Head Calculation													
ELEVATION D				evation	25	Ft.									5	5 PSIG				
					11	I	***************************************													
(WHERE AP	PLICAE	Pipe Spe	Elev. D		11	Ft.	Oth	er (Spec	сіту)	T	Pipe Spe	ec and	X Elev.	DITT. =	% of SN	MYS.		PSIG Pressure t		
Size	T	Тіро орс		or ASTM G	rade		\dashv	Foot	age to		Footage '		-	At	At Mi		At Max		Sive 90%	
O.D. W.	Т.	Long	Seam (E	RW, DSAW,	Seamless	, Etc.)		Be T	ested		In Fi	eld		MAOP	Test Pro	ess.	Test Pre	SS.	SMYS	
8.625 0.3	22	Pipe, API	5L, G	RB, SM	em #112)	1	9'					15.61	26.5	6	30.23	3	2352		
8.625 0.3	22	Elbow, G	R B, 9	0 Deg 3F	R (It	em #128)		4	Ea.	Т				15.61	26.5	66	30.23	3	2352	
		0			1												····			
							T				···									
							\top			1										
Test Fluid MINIMUM TEST DURATION 1 HOU 1 HOU													HOUR							
Maximum Test Pre	ssure	@ Min. Eleva	tion			790	PS			ATE			STALLAT	ER (8 HRS. M ION TEST (8	SEE ATTAC	HMENT	'A', GAS S			
Redacted									or Chang al (925)				13	Approved By	R/D	10 10 10	20		te: 8-12_	
PART II - TEST DATA	A /TO F		DV DED	CON CUDE	MONOT	newscapening and a			ai (020)	, 00	0-3040	I Notes A							0	
PARTII- IEST DATI	A (I O E	SE PREPARED	BI PER	SUN SUPER	WISHVE I	ESTAT HIM	: OF	(E91)				Note: I		test pressure written appre		on are no	ot to be cha	ngea		
Time and Date		1			F			_		1				1				T		
Test Pressure						on at Test					in. Require					x. Allowa		(4)		
Reached					Point			-	FT	Press. At Test Point (1) PSIG Press at				ss at Tes	st Point	PSIG				
Time and Date Test Ended					Max. E Test S	levation in			FT	1	in. Indicate est Pressur		1 1		1	Max. Indicated Test Pressure		(5)	PSIG	
								1	11		in. Test Pre		(2)	100			***************************************	(0)	1 010	
Actual Duration of Test						levation in ection			FT	1	Max. Elev		(3)	PSIG		x. Test Pi Vin. Eleva		(6)	PSIG	
Test Fluid Used									Pipe Sp	ecific	ation and l	Footage Ve		ee Part I)						
Make, Range, and Se	rial Na	of Proceura Da	cordina	Caune		Date Last	اطالوث	rated	I Mad	(0 D	ande and C	Sprial No.	of Dead !	Veight Teste	r (Saa Nafa	71:	F	Date Last C	alibrated	
wano, inanga, and Se	aidi (VO	. UI I IESSUIE NE	ou willy	-augr		Date Edst	oaiiil	atou	Ividik	10, M	ango, anu t	serial INO. (' DOUG A	roigiit 1888	LOGE MOTE	1)		raid Fg91 (outin ateu	
Test Supervised By:						Date:			Арр	roved	i By:							Date:		
PUT SCHEMATIC PI	PING S	KETCH ON BA	CK OF	THIS SHEET	. At 15 2	3/47/34/			DOINTO 11	(81) "		O 4112	00000		AO 110= 11		(ON11) C		F0015	
SHOW LOCATION O (SHOW REFERENCE	F FACI E NUMI	ILITY TESTED, BERS ON FACE	MINIMU OF ALI	M AND MAX . DRAWINGS	IMUM ELE S AND AT	:VATION IN I	EET.	, MILE I OR STA	POINTS, V TION PIPI	'ALVE NG. F	NUMBER ABRICAT	RS AND IN ED UNITS	CORPOR AND SH	RATED AREA ORT SECTION	AS. USE AI ONS OF PIF	N ADDITI PE: ALSO	IONAL SHI D SHOW A	ET IF NEC DETAILED	ESSARY SKETCH	
OF EACH ASSEMBL							<i>y</i> - · · ·			, .						_,				
NOTES: (1) Add the static he	ead due	e to elevation dif	ference :	between tes	hns triog	maximum el	evatio	on) to				RIBUTIC FILE (AT S		RING ORGA	NIZATION					
"minimum test p	ressure	at maximum el	evation"	from PART I				,				•			·	rena seria erra	-			
(2) Use lowest pres (3) Subtract static h					t point and	d maximum e	levati	ion) fron	n		GSM	&15 KESP	ONSIBL	E DISTRICT	SUPERINT	ENDENT	l			
minimum indicat	ted test	pressure.			•			,			PRO	JECT MAN	AGER/P	ROJECT EN	GINEER					
(4) Subtract static h "maximum test p	oressur	e at minimum el	evation"	from PART I		ı munimum el	evatio	on) from	l		TECH	HNICAL &	CONSTR	UCTION SE	RVICES - A	SSIGNE	D JOBS O	NLY		
(5) Highest pressur (6) Add static head	due to	elevation differe			nt and mir	nimum elevat	ion) to	o maxim	num		CAPI	TAL ACCC	UNTING	(FOREMAN	I'S COPY O	F JOB)				
indicated test pr (7) A dead weight to			hen teeti	nn to a press	ure which	nroduces a s	trese	level of	90%		RECO	ORDS SEC	TION (M	/C), GMS&T	S					
of SMYS or grea	ater. H															· • · · · ·	(n) a - :			
space provided	above.										REP(JRT FAILL	IRES UN	DER TEST	IO GAS EN	GINEER	ING & PLA	NNING		



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

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11/01											······		Sheet	2of_	2
		ATA (TO BE			PROJECT										
Feeder Main N	umber, Line N	lumber, or Station	on Name	ı		Division/Dis	trict				Job N	lumber		Date Job Authorize	ed
	L-1			5			Stock	cton/Y	osemite			416179	48	02/24/	2012
Test 3 – T sleeves, e * - Assume	est 8" L-1 tc. are fro ed values	Reference Re 48 from Re m the "Mate from PG&F Redacted	dacte erial of Resc	ed f Record" olution of	t. Refer'.	o the west to DWG 4 vn Pipeline	161794 <mark>8</mark>	- She	et 7)					listed; i.e. pi	
Location Class		esign Factor (F)				for this Piping t	·	·	Future D	esign Pressu		JIIANOL		TEN IEU E	- TONO
2	IC HEAD DUI	.5	May E	Elevation	36	Ft. S	408 Static Head C		<u> </u>						720 PSIG
					25			Jaroaranoi	1	0.402.V	Fi Diff			5 _{PSI}	Ć.
	TION DIFFER			levation			or Water				Elev. Diff.			F3	
(WHE	RE APPLICA		Elev. D		11	Ft. 0	Other (Specif	fy)			(Elev. Dif	ff. =		PSI	
Pipe Specification Pipe Spec. and % of SMYS Size API or ASTM Grade Footage to Footage Verified At At Min. At Max.													Pressure to Give 90%		
O.D.										ield	1	AOP	Test Press.	Test Press.	SMYS
8.625	0.277	Pipe, API				(Item #3)	8,22)Q'			ļ	.15	30.87	35.14	2023
1.315	0.133*	Pipe, GR				(Item #6)	13					20	12.25	13.95	5097
1.050	0.113*	Pipe, GR				(Item #7)	53					.77	11.52	13.11	5424
0.840	0.113	Pipe, GR				(Item #8)	1'					16	7.08	8.06	8820
						<u> </u>	4 E						26.56		
8.625	0.322	Elbow, G	K D, I	LK		(Item #4)	4 6	d.			10	.61	20.50	30.23	2352
											ļ				-
							<u> </u>				ļ				ļ
Test Fluid MINIMUM TEST DURATION To Be Used UNDER 30% SMYS (1 HR. MINIMUM) 1 H												1 HOUR			
Maximum Test Pressure @ Min. Elevation 790 PSIG - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)															
Redacted									es, Call: 588-3640			proved By:	10 Call	4 ">	Date: - 8 - 12
PART II - TES	T DATA (TO	BE PREPÅRED	BY PER	RSON SUPE	RVISING T	EST AT TIME C	OF TEST)	(020)	300-3040	Note: Mi	nimum tes		nd duration are i	not to be changed	0.1
Time and Date Test Pressure Reached					Elevat Point	ion at Test	F	FT	Min. Require Press. At Te		(1)	1		vable Test est Point (4) PSIG
Time and Date Test Ended	,				Max. E Test S	Elevation in ection		FT	Min. Indicated Test Pressure (2) PSIG Test Pr) PSIG
Actual Duration of Test Test Fluid Use					Min. E Test S	levation in ection		FT Pina Sn	Min. Test Pr at Max. Elev ecification and	ation	(3)	PSIG	Max. Test at Min. Ele		PSIG
, 00t 1 Iulu 086	w							i ibo ob	comodatri ariu	, Joings ven	(COO				
Make, Range,	and Serial No	o. of Pressure R	ecording	Gauge		Date Last Ca	librated	Mak	e, Range, and	Serial No. of	Dead Wei	ght Tester (S	See Note 7)	Date	Last Calibrated
Test Supervise	ed By:					Date:		Appr	roved By:					Dat	e:
SHOW LOCAT	TION OF FAC RENCE NUM	IBERS ON FACI	MINIMU	AM DA ML	MUM ELE	EVATION IN FEI TACHMENTS).	ET, MILE PO FOR STATI	OINTS, VAION PIPIN	ALVE NUMBEI NG, FABRICAT	RS AND INCO	ORPORAT ND SHOF	TED AREAS RT SECTION	. USE AN ADDI IS OF PIPE, ALS	TIONAL SHEET II SO SHOW A DETA	NECESSARY AILED SKETCH
NOTES:		e to elevation di	fference	Thehween to	t noint and	maximum elou	ation) to			FILE (AT SP		IG ORGANII	ZATION\		
"minimun (2) Use lowe	n test pressur st pressure o	e at maximum e n test gauge at :	levation" any time	from PART during test.	l,		•			•			JPERINTENDE	NT	
(3) Subtract	static head du	ie to elevation d	ifference	e (between te	st point and	d maximum elev	ration) from		חחח	IECT MANNA	CED/DDA	HECT END	NEED		
(4) Subtract "maximu	minimum indicated test pressure. (4) Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I. PROJECT MANAGER/PROJECT ENGINEER TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY														
(6) Add stati	c head due to	st gauge at any elevation differe	time dur ence (be	ring test. tween test po	oint and mir	nimum elevation	ı) to maximu	m	CAP	ITAL ACCOU	NTING (F	OREMAN'S	COPY OF JOB))	
(7) A dead w		i. s only required w lowever, if a dea							REC	ORDS SECT	ION (WC)	, GMS&TS			
	ovided above			·····					REP	ORT FAILUR	ES UNDE	R TEST TO	GAS ENGINEE	RING & PLANNIN	G

Pacific Gas and Electric Company Gas Pipeline Facilities Strength Test Pressure Report

62-4921 (Rev. 2/04) California Gas Transmission

PESE	(F D)	eline Facilitie						port				(Use in Accord	lance with Gas Stand	lard A-34 a	and GO 112-D)	
	·	MTA								· · · · · · · · · · · · · · · · · · ·		Sheet _	<u>_1o</u>	f	2	
		DATA (TO BE Number, or Stati		Area Area	JECT	ENGINEE Division/[······································	J	ob Number		Date Job Autho	orized		
	L-1	•		5			Sto	ckton/Y	osemite		41617	948	02/2	4/201	2	
		Reference Drav					ļ.,	MING	OC Eviatina	matarial list	od i o nin	o olbowo	alaguas etc	oro.	from the	
		48 from ea ', (Refer to						IVILV-O.	oo. Existing	g material list	eu, i.e. pip	e, elbows, i	sieeves, eic	. ale	ioni me	
		Redacted		Modesto			097-12)			REVISION	1: CHANG	ED NITRO	GEN TEST	LOC	ATIONS	
Location Class	- E	esign Factor (F)	MAG	OP to be Esta	blished f	or this Pipir			Future De	sign Pressure						
2_		.5					4(08 PSI	G]		Caralle Messes			72	0 PSIG	
STAT	TO HEAD DU	ЕТО	Max. Elev	ation _	46 Ft. Static Head Calculation											
ELEVA	TION DIFFER	RENCE	Min. Eleva	ation	27	-				0.433 X Elev.	Diff. =			PSIG P S IG		
(WHE	RE APPLICA		Elev. Diff. ecification	<u></u>	19 Ft. Other (Specify)			ecify)	Pipe Spe		/. Diff. ≈	% of SMYS	:	Pressure to		
Siz			API o	r ASTM Grad				tage to	Footage \	Verified	At	At Min.	At Max.		Give 90%	
O.D.	W.T.		·	V, DSAW, Sea				Tested	In Fie	əld	MAOP	Test Press.	Test Press	<u>·</u>	SMYS	
8.625 4.500	0.322	Pipe, AP				m #112 m #114	/	36' ' 8"			15.61 11.07	26.56 18.82	30.23	+	2352 3318	
1.050	0.237		Pipe, API 5L, GR B, SMLS (Item Pipe, API 5L, GR B, SMLS (Item					12'			3.97	6.76	7.69	+	9240	
8.625	0.134	Elbow, GR B, 90 Deg 3R (Item #1					<u>' </u>	Ea.			15.61	26.56	30.23	\dashv	2352	
1.050	0.154	Elbow, 45 Deg (Item #2°					<u></u>	Ea.			3.97	6.76	7.69		9240	
8.625	0.322	Valve, Ba	all, ANS	300, WE	(Ite	m #148		Ea.							•	
4.500	0.237	Valve, Ba				m #150	,	Ea.						_		
8.625	0.322	Tee, Red Wall, GR	_	3" x 4" Oı	Outlet Std. 2 I			Ea.			15.61	26.56	30.23		2352	
		Wall, GR	D		life	:111 # 2 1 1	1					***************************************		\dashv		
														+		
Minimum Te	et Droceiiro	@ Max. Eleva	ofion			694	PSIG		t Fluid e Used	MINIMUM TE - UNDER 30% S				1	HOUR	
William (gra) - 1 C	Striessule	W Wax. Lieve	auon						ATER	- 30% SMYS & O	VER (8 HRS. MII	NIMUM)	1,000,000,000			
Maximum To Redacted	est Pressure	@ Min. Eleva	ation.				PSIG or Informatio	n or Chang	es Call.	- PREINSTALLA	TION TEST (SI Approved By:		NT 'A', GAS ST)ate:	
caactca						1 1		-	588-3640		no	RPO	alrel	3-	7-12	
PART II - TES	OT) ATAD TO	BE PREPARED	BY PERSO	ON SUPERVIS	SING TE	ST AT TIM	E OF TEST)				n test pressure ut written appro	and duration ar	e not to be chan	ged		
Time and Dat	e								T	<u> </u>		T				
Test Pressure Reached	;				Elevation Point	on at Test		FT	Min. Require Press. At Te		PSIG		owable Test Test Point (4)		PSIG	
Time and Dat	e				Max. Ele	evation in			Min. Indicate			Max. Inc	licated			
Test Ended	······	13.533.5535.5		N 5 8 8 7 (8 8 8 6 6	Test Se	ction		FT	Test Pressur		PSIG	Test Pre	essure	(5)	PSIG	
Actual Duration of Test	n				Min. Ele Test Se	evation in		FT	Min. Test Pre at Max. Elev		PSIG		st Pressure Elevation	(6)	PSIG	
Test Fluid Use	ed	- Line and the second		<u> </u>				Pipe Sp		Footage Verified (See Part I)				•	
Make, Range	, and Serial N	o. of Pressure R	ecording Ga	auge	<u> </u>	Date Last	Calibrated	Mak	e, Range, and S	Serial No. of Dead	Weight Tester	(See Note 7)		ate Last	Calibrated	
Test Supervis	ed By:	<u> </u>				Date:		App	roved By:	and the second s				Date:	·····	
		OVETOU ON D	LOV OF TH	IO OUECT												
SHOW LOCA	TION OF FAC RENCE NUM	IBERS ON FAC	MINIMUM.	AND MAXIMU	JM ELE\ ND ATT/	VATION IN ACHMENTS	FEET, MILE S). FOR STA	POINTS, V ATION PIPI	ALVE NUMBER NG, FABRICAT	RS AND INCORPO ED UNITS AND S	DRATED AREA HORT SECTIO	S. USE AÑ AD NS OF PIPE, A	DITIONAL SHEI LSO SHOW A D	ET IF NE ETAILE	CESSARY D SKETCH	
NOTES:										RIBUTION						
"minimu	m test pressui	ue to elevation d re at maximum e	elevation" fro	om PART I.	int and r	maximum e	levation) to			FILE (AT SPONS)		·				
(2) Use lowest pressure on test gauge at any time during test. (3) Subtract static head due to elevation difference (between test point and maximum elevation) from																
minimur	n indicated tes		•	•			•		PRO	JECT MANAGER/	PROJECT EN	SINEER				
"maximu	ım test pressu	ire at minimum e	elevation" fro	om PART I.	enit alla		.oradonj noi		TECH	HNICAL & CONST	RUCTION SEF	RVICES - ASSIC	GNED JOBS ON	LÝ		
(6) Add stat	ic head due to	est gauge at any elevation differ			and mini	imum eleva	tion) to maxi	mum	CAPI	TAL ACCOUNTIN	IG (FOREMAN'	S COPY OF JO	B)			
(7) A dead		s only required v							RECO	ORDS SECTION ((WC), GMS&TS	}				
	S or greater. I rovided above	lowever, if a de	ad weight te	ster is used o	n any tes	st, enter the	information	in the	REPO	ORT FAILURES U	INDER TEST T	O GAS ENGINE	ERING & PLAN	NING		

of ___2_



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 ___2_

PART I - I	DESIGN D	ATA (TO BE	PREPAR	RED BY F	PROJECT	ENGINEER	₹)									
		Number, or Statio		Area		Division/D					Job	Number		Date Job Aut	horized	
	L-1	48		5			Sto	ckton/Y	osemite			41617	948	02	24/201	2
Description of	Job Include	Reference Drav	ving Numbe	ers, and Pi	peline Mile	noete										
"Material o	of Record'	48 from ear	DWG 41	stern le 161794	vee of ^R 8 – She	edacted et 7)	to	MLV-6.	06. Existin	g mater	ial liste	d; i.e. p ip	e, elbows,	sleeves, e	c. are f	rom the
Hydrotest	L-148 fro	Redacted		Modes	sto, CA	(T-0)97-12)			REVI	SION 1	: CHANG	ED NITRO	GEN TES	r Loca	ATIONS
Location Class	s C	Design Factor (F)	MA	OP to be I	stablished	for this Piping	by this Ter 4(1	esign Pres	sure				720) PSIG
STAT	IIC HEAD DU	ЕТО	Max. Elev	ation	46	Ft.	Static Head	d Calculatio	n				-			
ELEVA	TION DIFFER	RENCE	Min. Elev	ation	27	Ft.	For Water	er 0.433 X Elev. Diff. = 8						8	PSIG	
(WHE	ERE APPLICA	BLE)	Elev. Diff		19	Ft.	Other (Spe	ecify)			X Elev.	Diff. =			PSIG	
		Pipe Sp	ecification						Pipe Sp	ec. and			% of SMYS			Pressure to
O.D.	e W.T.	Long	API o Seam (ERV	or ASTM G N, DSAW,		Etc.)		tage to Tested	Footage In F			At VIAOP	At Min. Test Press.	At Max Test Pre		Give 90% SMYS
8.625	0.322	Pipe, API	5L, GR	B, SM	LS	(Item #1)	1 :	53'			1	15.61	26.56	30.23	3	2352
8.625	0.277	Pipe, API	5L, GR	B, SM	LS	(Item #3)	20	,012'			1	18.15	30.87	35.14	ļ	2023
																2 farmer
								··········								
*																
			waaware -				<u> </u>		-				-			
	<u> </u>				junta ayangan s			Too	t Eluid	BAINIBA	LIMATEC	TAULDAT	IONI	1888		elikumanisma
Minimum Te	Minimum Test Pressure @ Max. Elevation Test Fluid MINIMUM TEST DURATION - UNDER 30% SMYS (1 HR. MINIMUM) To Be Used - UNDER 30% SMYS (1 HR. MINIMUM) The Use Fluid - UNDER 30% SMYS (1 HR. MINIMUM) The Use Fluid - UNDER 30% SMYS (1 HR. MINIMUM) The Use Fluid - UNDER 30% SMYS (1 HR. MINIMUM) The Use Fluid - UNDER 30% SMYS (1 HR. MINIMUM)												HOUR			
								Ŵ	ATER	1		R (8 HRS. MII	-	1		
	est Pressure	@ Min. Eleva	tion			790	PSIG	05	Oalh	- PREIN			E ATTACHME	NT 'A', GAS S		ate:
Redacted								n or Chang ral (925)	es, Cail.) 588-3640)	'	Approved By:	E/OCAL	2.0		7-12
PART II - TES	ST DATA (TO	BE PREPARED	BY PERSO	ON SUPE	RVISING TI							est pressure	and duration ar			
											without	written approv	/al.			
Time and Dat					Elovati	on at Test			Min Requir	ed Test			Max All	owable Test		
Reached					Point	on at 165t		FT							(4)	PSIG
Time and Dat	e					levation in		jum tuge	Min. Indicat		Max, I			(E)	PSIG	
Test Ended		26853558			Test S			FT	Test Pressu		(2) PSIG		Test Pressure		(5)	
Actual Duration of Test	on				Min. E Test S	evation in ection		FT	Min. Test P at Max. Ele	vation	(3)	PSIG		st Pressure Elevation	(6)	PSIG
Test Fluid Us	ed				***		yyyy	Pipe Sp	ecification and	Footage V	erified (Se	e Part I)				
Make Ranne	and Serial N	o. of Pressure Re	ecordina G	aude		Date Last (Calibrated	Mak	e, Range, and	Serial No	of Dead W	leiaht Tester	(See Note 7)	Т	Date Last	Calibrated
Widne, range	, and Condin	o. 011 1000 0 10 10	boording O	augo		Duto Lust (odiibi atou	l l l l l l l l l l l l l l l l l l l	io, rango, ana	Condi i i i	or bodd i	roigin rooto.	(000 11010 1)		DG(0 200)	Oumb, atou
Test Supervis	sed By:					Date:		Арр	roved By:	1					Date:	
PUT SCHEM	ATIC PIPING	SKETCH ON BA	ACK OF TH	IIS SHFF	Г								Lieux			
SHOW LOCA	TION OF FAC	CILITY TESTED.	MINIMUM	AND MAX	MUM ELE	VATION IN F	EET, MILE	POINTS, V	ALVE NUMBE	RS AND IN	CORPOR	ATED AREA	S. USE AN AD	DITIONAL SH	ET IF NE	CESSARY
	SEMBLY TES	MBERS ON FAC STED.	E UF ALL L	JRAWING	IN UNA OI	AUTIVIEN I S	j. FUK 81/	ATTON PIPI				UKI BEUIIU	THO OF FIFE, F	LOU SHUW A	PETAILE	U ONE I UM
NOTES: (1) Add the	etatic hand d	ue to elevation di	fforonce (h.	atween to	et noint and	maximum ol	wation) to			TRIBUTION OF THE PARTY		RING ORGAN	IZATIONI			
"minimu	m test pressu	re at maximum e	levation" fro	om PART		maximum or	valion, to			•			·			
		on test gauge at a ue to elevation d			st point and	I maximum el	evation) fro	m	GSN	n& IS RES	PONSIBLE	: DISTRICT S	SUPERINTEND	ENI		
minimur	n indicated tes		•		•		•		PRO	JECT MAI	NAGER/PI	ROJECT ENG	SINEER			
"maximu	um test pressu	ire at minimum e	levation" fr	om PART		i iriii ii ii ii ii ii ele	valion) noi	13	TEC	HNICAL &	CONSTR	UCTION SER	RVICES - ASSIG	SNED JOBS O	NLY	
		est gauge at any elevation differ			oint and mir	imum elevati	on) to maxi	mum	CAF	PITAL ACC	OUNTING	(FOREMAN'	S COPY OF JO)B)		
indicate	d test pressure		•	•			•					C), GMS&TS		•		
of SMYS	S or greater. I	lowever, if a dea									•	•-				
space p	rovided above								REF	ORT FAIL	URES UN	DER TEST T	O GAS ENGINE	EERING & PLA	NNING	