

62-4921 (Rev. 2/04) California Gas Transmission (Usain Accordance yith Gas Stardard A-34 and GO 112-D)

PF&E

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

(Use in Accordance with Gas Standard A-34 : Sheet \_\_\_1\_\_\_\_ of \_\_2

PART I-C	DESIGN	DATA (TO BE	E PREPARED BY P	ROJECT ENGINEE	R)									
Feeder Main Number, Line Number, or Station Name Area Division/District Job Number Date Job Author										Date Job Authorize	t			
	021	1-01	1	<u> </u>		Penins	ula		41598	529	10/25/11			
Description of Test 1 – T <u>*Material c</u> Strength fo	Job – Inclu Test tie-li of Recor	de Reference Dra 1 pieces, ten <u>d" (refer lo D</u> 1-01 from M	wing Numbers, and Pi iporary piping a rawing 4159855 P 0.02 - 0.68	nd existing 6" & 1 29, sheet 3 of 3) Budingame, CA	8" L-021	1-01. Ex Test sec	isting pipe	line mater	'al listed; ie. P	ipe, elbows	, sleeves are	rom the		
Outongur u	our uner	i Qi nomini	1 0.02 0.00	Daninganiol of	· · ·									
Location Class	5	Design Factor (F)	MAOP to be t	steblished for this Pipin	g by th's Te: 4(	st )0 PSI(	Future Di	Future Design Pressure				400 PSIG		
STATIC HEAD DUE TO Max. Elevation Ft. Static Head Ca'culation														
ELEVATION DIFFERENCE Min. Elevation IVA Ft. For Water 0.433 X Elev. Diff. = PSIG												з		
(WHE	REAPPLI	CABLE)	Elev. Diff.	2/6 Ft.	Other (Spe	cify)	6.1	X	Elev. Diff,≓	1	PSI	<u>a in k</u> i		
		Pipe Sp	pecification				Pipe Sp	ec. and		% of SMYS	1	Pressure to		
Siz	Size		API or ASTM G	rade Seam'ess Flc.)	Foo Be	tage to Tested	Footage Ventied In Field		AL MAOP	Al Min. Test Press.	At Max. Test Press.	Give 90% SMYS		
6.625	0.280	Pine AP	151 GR B SM	S-Blitem#113		21	11. 100		13.52	20.28	23.32	2663		
6.625	0.280	Flhow C	RB	(item#129	$\frac{1}{1}$	Ea.	105		13.52	20.28	23.32	2663		
2.375	0.154	Pine AP	15L GR B. SM	S (item #116	<u>,                                     </u>	8	2.5" (15)		8.81	13.22	15.20	4085		
8.625	0.172	Pipe, GF	B. SMLS	(item #1	387'		MOR		28.65	42,98	49.43	1256		
8.625	0.219	Pipe, GF	B, SMLS	(item #2		214'	MOR		22.50	33.76	38.82	1600		
8.625	0.188	Pine, GF	Pine, GR B, SMLS		) 2	37'	MOR		26.22	39.32	45.22	1373		
8,625	0.219	Pipe, AP	15L X-42, ERV	/ (item #4		50'	MOR	2	18.75	28.13	32.35	1920		
8,625	0.172	Pipe, AP	1 5L X-42, ERV	/ (item #5	<u>i)</u> 1	47'	MOR		23.88	35.82	41.19	1508		
8.625	0.188	Pipe, AF	1 5L X-42, ERV	/ (item #6	$\frac{1}{10}$	17'	MOR		21.85	32.77	37.69	1648		
8.625	0.322	Elbow, C	GRB	(item #7	) 12	12 Ea.		2	15.31	22.96	26.40	2352		
8.625	0.219	Elbow, (	GRB	(item #8	s) 15	5 Ea.	mor	R	22.50	33.76	38.82	1600		
Minimum Te Maximum Te	est Pressu	re @ Max. Elev Ire @ Min. Elev	ation	600 690	t Fluid ie Used ROGEN	1     MINIMUM TEST DURATION       1     - UNDER 30% SMYS (1 HR. MINIMUM)       1     - 30% SMYS & OVER (8 HRS. MINIMUM)       - 30% SMYS & OVER (8 HRS. MINIMUM)       - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD, A-34)								
Prenared Ry	<u></u>		Date:	Louisen F	or informatio	on or Chang	es, Call; N EDD 2044	^	Approved By:	man	1 10	Date:		
<u>K<u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	ų Lietavies			101/05/11 0	VIAIK CAL	nai (920	000-004	U . L o corre	Truck	12 (10/10	<u>ie 10</u>	-26-4		
PART II - TES	ST DATA (I	O BE PREPAREI	J BY PERSON SUPE	RVISING LEST AT TIM	EOF IESI)			NOIO: Mar V	without written appro	and outabon are val.	e not to be changeo	B		
Time and Dat Test Pressure Reached	Time and Date Test Pressure		5 pm 29/2011	Elevation at Test Point		-7 FT	Min, Required Test		(1) PSIG Mar		owable Test	Big Big		
Time and Dal	Time and Date		5 pm 129/2011	Max, Elevation in		33 FT	Min. Indicated Test Pressure		(2) PSIG Hax Ir		icaled ssure (!	667 PSIG		
Actual Duratio	Actual Duration 2 hv 30		he Zomia	Min, Elevation in Test Section		• 13 FT	Min, Test Pressure at Max, Elevation		(3) 624 PSIG	Max. Ter	st Pressure	OG7 PSIG		
Test Fluid Us	ed	10		- 1- 1- 1- 1		Pina Sr	ecification and	Ecolade Veri	fied (See Part I)	<u> </u>				
		11+1-06	IEN	- I patrice	Artuard			Control Marcoli	Doort Weinht Lotlor	ICan Hala 71	L Date	Lost Collingted		
Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated BRISTOL, 66W - 835, 0-2000 ps. 9-1-2011 Chimad Cerc, 26401, 50-5000 ps. 7-7-2011												7-2011		
Lest Supervised & Reclacted Unter 10/29/2011 Approved by: Green Mannue 10/3/-11											<u>"//</u>			
SHOW LOCA (SHOW REFI	ATION OF I	ACILITY TESTER UMBERS ON FAC	, Minimum and May Ce of All Drawing	KIMUM ELEVATION IN IS AND ATTACHMENT	feet, Mile S). For St	POINTS, V ATION PIPI	ALVE NUMBE NG, FANRICA	RS AND INCO TED UNITS A	ORPORATED AREA ND SHORT SECTIO	.S. USE AN AD DNS OF PIPE, A	DITIONAL SHEET I LSO SHOW A DET	F NECESSARY AILED SKETCH		
NOTES:         DISTRIBUTION           (1)         Add the static head due to elevation difference (between lest point and maximum elevation) to         JOB FILE (AT SPONSORING ORGANIZATION)														
(2) Use low (3) Subtrac	int test pres lest pressur It static hear	sore at maximum e on test gauge al 1 due to elevation	elevation from PART Lany time during lest. difference (between to	n st point and maximum	GSM	CSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT								
minimur (4) Subirac	m indicated I static hea	test pressure. I due to elevation	difference (between la	st point and minimum e	PRO	PROJECT MANAGER/PROJECT ENGINEER								
*maxim (5) Highest	um lest pre pressure o	ssure at minimum n test gauge at an a lo elevation diffe	elevation* from PART y time during test.	I. Sint and mistroom stores	JEC	LECTINICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)								
Indicated lest pressure.     Indicated lest pressure.     Indicated lest pressure.     A dead weight lester is only required when lesting to a pressure which produces a stress level of 90%     RECORDS SECTION (WC). GMS8TS											-,	-		
of SMY	S or greate	r. However, if a di we,	ead weight tester is us	ed on any lest, enter the	REF	REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING								



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 112D)

Sheet 2 of \_2

PARTI-D	DESIGN	ATA (TO B	E PRE	PARED BY P	<b>ROJECT ENGINEER</b>	1)			<u> </u>					
Feeder Main Number, Line Number, or Station Name Area Division/District									Job Number Date Job Authorized				8	
	1		Peninsula				4159	8529	10/25/11					
Description of Test 1 – T "Material c	Job Include Test lie-in of Record	Reference Dra pieces, ten ' (refer to E	wing N npora Drawi	lumbers, and Pip ary piping ai ng 4159852	eline Mileposts nd existing 6" & 8 ?9, sheet 3 of 3)	* L-0211-0	1. Ex	isting pip	eline mater	ial listed; ie.	Pipe, elbow	s, sleeves are	from the	
Strength to	est 0211	01 from N	IP 0.0	02-0.68	Burlingame, CA	(Tes	st sec	lion 122)						
Location Class     Design Factor (F)     MAOP to be Established for this Piping by this Test     Future Design Pressure       3     .5     400     PSIG											400 PSIG			
ŚTAT	IC READ DU	ETO	Max	c Elevation	N/A Ft.	Static Head Ca	culation	1						
FLEVA	TION DIFFEI	RENCE	150	Flevation	N/A FL	For Water			0.433 X E	ley. Diff. =		PSI	G	
ALLERA			- The	, Nif	722 Ff.	Other (Consist)		23	226 X	-	đ	psi	n the who	
(WHERE APPLICABLE) EI8V. DIIT. Pine Specification					-7.C 14. ]	Obiei (opeoin)		Pipe Spec. and		% of SMYS			Pressure to	
Siz	Size			API or ASTM G	rəde	Foolage to		Foolage Verified		At	At Min.	At Max.	Give 90%	
O.D.	W.T.	Lon	g Seam	n (ERW, DSAW, Séam'ess, Elc.)		Beilested		in Field		MAOP	Tesl Press.	Test Press.	SIAYS	
2.375	0.154	Pipe, GI	<b>२</b> В, 9	SMLS	(item #9)	65'		MOI	2	8.81	13.22	15.20	4085	
8.625	0.322	Tee, GR	В		(item #10)	2 Ea	0 4	mor		15.31	22.96	26.40	2352	
8.625	0.219	Tee, GR	В		(item #11)	1 Ea	•	mo	n	22.50	33.76	38.82	1600	
8.625	-	Valve, A	NSI	300	(Item #13)	2 Ea		MOR				-	-	
6.625	0.280	Pipe, GI	<b>२В, </b> (	SMLS	(item #14)	13'		m	R	13.52	20.28	23.32	2663	
6.625	0.280	Elbow,	GR B		(item#15)	1 Ea		MOR	P	13.52	20.28	23.32	2663	
6.625x	0.280x	Reduce	r, GR	В	(item#16)	1 Ea				15.31	22.96	26.40	2352	
8.625	0,322							MOL						
		· · · · ·								1. A.				
		1									1	].		
	Ì								1.					
	1			T		- <u></u>	Tes	tFluid	MINIMUN	I TEST DURA	TION		2	
Minimum Te	est Pressure	@ Max. Elev	ation		600	PSIG	To B	e Used	- UNDER 30	% SMYS (1 HR.	MINIMUM		1 HOURS	
54 X . H		. esta liter mende			600	0010	NITE	OGEN	- 30% SMYS	& OVER (8 HRS. /	MINIMUN) REC ATTACUM	CHIT IN CAR OTO	100	
Prepared By:	est Pressure	WININ. EIE	auon	Date:		r Information or	Change	as, Call:	I - FACINOIA	Approved B	VI ALLAUTIO	ENT ALGAGOID.	Dale:	
Redacted	d Red	acted			0/25/11 M	lark Cabral	(925	) 588-364	10	mai	RDCel	rel 10	-26-11	
PART IL • TES	ST DATA (TO	BE PREPARE	D 8Y F	ERSON SUPER	WISING TEST AT TIME	OF TEST)			Note: Min W	inum lest pressu ilhout written app	re and duration a roval.	re not to be changed	63	
Time and Dal Test Pressure Reached	Time and Dale Test Pressure Reached		5:45 pm 10/29/2011		Elevation at Test	F	F		Min. Required Test 6 Press. At Test Point		17 600 Max, Al (1) PSIG Press a		7 698 4) PSIG	
Time and Dat	Time and Date		B:15 pm 10/20/2011		Max. Elevation in Test Section	3	33		Min, Indicated Test Pressure		(2) 629 Max. In PSIG Test P		5 667	
Actual Duratio	Actual Duration Zh		hr.	Bornia	Min. Elevation in Test Section	- (	3 Min, Test Pressure at Max, Elevation		Pressure	(3) 62 PSI	8 Max T G at Min	est Pressure Flevation (I	667 PSIG	
Test Fluid Us	ed	1.1 0.		e al		1	Red	acted	1	10 7.14		£		
Hate D	$\overline{N}$	17700	91	E /V		Teliburtant	1 10-0	- Deser -	Cond Ma of	and Marshi Tark	at /Qon Mala 7	1 re-t-	Logi Colibrata	
Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated Make, Range, and Serial No. of Dead Weight Lester (See Note 7) Date Date Last Calibrated Make, Range, and Serial No. of Dead Weight Lester (See Note 7) Date Date Date Date Date Date Date Date											psi 7-	7-2011		
rest Supervi	Reudule	u			10/29	12011	App		Jour A	Buni	8	11-91-1	16.	
PUT SCHEM SHOW LOCA	ATIC PIP/IIG	SKROCH OH	BACK ( D, MINI	OF THIS SHEET MUM AND WAX	IMUM ELEVATION IN F	EET, MILE POI	INTS, V	ALVE NUMB	ERS AND INCO	RPORATED ARE	EAS, USE AN A	DDITIONAL SHEET I	FNECESSARY	
OF EACH AS	ERENCE NU	ABERS ON FA STED,	CEOF	ALL DRAWING	SAND ATTACHMENTS	). FOR STATIC	JN PIPI	NG, FABRIC	ALLO UNITS AN	NJ SHORI SECI	IONA OF PIPE,	ALSU SHUW A DET	AILED SKETCH	
NOTES: (1) Add the static head due to elevation difference (between test point and maximum elevation) to									JOB FILE (AT SPONSORING ORGANIZATION)					
(2) Use low	ini iest pressu iest pressure	ne ar maximum on lest gauge a	i e:evali il any li	non noin PARTI me during lest.	k:	GS	GSMATS RESPONSIBLE DISTRICT SUPERINTENDENT							
(3) Subtract	l slalic head c	lue to elevation	differe	nce (between le	st point and maximum e	DO								
(4) Subtract "maximi	n moicated te I static head o um test press	si pressure. lue lo elevation ure al minimum	i differe i elevati	nce (between te ion* from PART	st point and minimum el	TE	TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY							
<ul> <li>(5) Highest pressure on test gauge at any time during test.</li> <li>(6) Add static head due to elevation difference (between test point and minimum elevation) to maximum</li> </ul>									CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)					
Indicate (7) A dead	d lest pressu weight lester	e. is only required	when	lesting to a pres	sure which produces a s	tress lavel of 90	1%	RE	CORDS SECTI	ON (WC), GMSE	TS	۹.,	10	
of SMYS or greater. However, if a dead weight tester is used on any lest, enter the information in the space provided above. REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING										1G				

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