

Pacific Gas and Electric Company Project 1581

Strength Test Pressure Report L-114 Replacement MP 12.70 – MP 16.57



Gulf Document No.: 1581-114_2A-RP-0001-00_0

Rev. No.	Date	Revision Description	Preparer Name	Reviewing Engineer Name	Project Manager	Client Approval
0	9/9/2013	Initial Submittal	Redacted			Redacted
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REVISION LOG

PROJECT: PG&E 2013 PIPELINE REPLACEMENT PROJECT

REPORT NUMBER:

GULF PROJECT NO.: 1581

TITLE:

L-114 Strength Test Pressure Report, MP 12.70 – 16.57

Provide a brief description of changes for all revisions following Rev. 0

Rev.	Date	Revision Description
0	9/9/2013	Initial submittal



PART 1 - TEST DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER/ESTIMATOR)

Test D	escript	ion						a da pe						
Line N	umber o	r Static	on Nan	ne L-11	4			Division/District Diablo Job Number 30943472						
Purpos	e of Tes	t: Tes	tnew	installa	tion			MAG	OP to	be Estab	lished by t	nis Test <u>7</u>	<u>20</u> PSIG	
Test T	ie-in Pie	ces at	MP 1	2.70, M	nclude reference P 13.73, MP EB-58. Draw	14.35,	MP 14.58	and I	MP 1		newly insta	lled 24" L	-114 fron	n
		N 17 2 2 3 4 5 5 6) 🗌 Existing es 🗌 No (expla			lf no	o spil	ke test for	existing fa	cility, expl	ain:	
Static	Head C	alcula	tion			Non			NG.					
Minimu	um Eleva ım Eleva on Differ	tion	<u>N/A</u> <u>N/A</u> <u>N/A</u>	F F F	Γ			For	Othe	er Test Me	Contraction of the second s	-		ing this field.
Pipe to	be Tes	sted	(1996) Alexandriana	in an										
Si		API	or	SMYS	Long Seam	JF	Footage	Act	ual	Location	Most	aratetee (Statistic)	% of SM	YS
OD (in.)	WT (in.)	AST Spe	M	(psi)	(ERW, DSAW, SMLS etc.)	(E)	to be Tested	Fool		Class	Restrictive Design Factor	At MAOP	At Min Test Press.	At Max. Test Press.
24,000	0.375	API-	5L	60000	SAWL	1,00	100			3	0,5	38,40	90.03	93.01
22,000	0.375	API-	5L	65000	HFW	1.00	25			3	0,5	32,49	76.18	78,70
24,000	0,375	MSS-SI	P-75	60000	24x22 Reducer		2 ea			3	0.5	38,40	90,03	93.01
22.000	0.375	MSS-SI	P-75	60000	24x22 Reducer	•	<u>^</u>			3	0.5	35.19	82.52	85.26
All fitti	ngs inclu	uded in	the to	est (exc	ept those list	ed abov	ve) are the	same	wall	thickness	and grade	as the pip	e 🛛	
Pipe sp	ecs veri	fled in	field	🗌 Si	gnature of pe	rson si	upervising	test						
Compo	onent(s)	limiting	g test	pressur	e/Control Poi	nt exce	ptions							
Test S	pecifica	ntions	(incluc	de a spik	e test when tes	ting exi	sting faciliti	es)	L.M.					
Test Fac	tor <u>1.5</u>	[1A]	Min.	Test Pres	sure at Max. E	lev. <u>168</u>	8 PSIG	[18]	Max	. Test Pres	sure at Min.	Elev. <u>1744</u>	PSIG	
Spike T	est	[1C]	Spike	e Factor				[1D]	Spil	ke Pressure	at Max. Ele	. Box [1A] X	[1C] =	PSIG
(comple	te only	[1E]			re at Min. Elev.		_ PSIG	[1F]	[1F] Max. Post-Spike Pressure at Min. Elev.					
	edium to	be Us	i ied <u>W</u>	ATER	Minimum T	est Dui	ration <u>8.(</u>) <u>)</u> Hou	l	• Unde • 30% • Pre-ii	r 30% SMYS SMYS and or Installation Te Test: 30 mir	er: 8 hours st: Refer to /	minimum A-34, Attac	
Signat	ures	and a			l Den Nga Dana									
	ed by (si	gnatur	e) Re	edacted			rint Name a	and P	hone	Number		Date 9/6/2013		LAN ID Redacted
Redacte	d d	lanatu	rnt			P	rint Name					Date 9/9//		LAN ID Redacted
Test Si	Ip ervise	d by (s	ignati	ure)			ime and Da eached (fro				Time and E Ended (from			Duration of m Part 2)



PART 2 - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Test Elevation									
Elevation at	Max	Elevation	in Tes	t Section	FT	Min. E	levation in Test Section	FT	
Test Point FT	[2A]	Static Hea	id b/t ⁻	Fest Point and N	lax. Elev, PSIG	[28]	Static Head b/t Test Po	int and Min. Elev PSIG	
No Spike Test: Calc	ulatio	ns and Te	st Re	sults (complete	for strength test with	iout a sp	ike test)		
Min. Required Test Press Box [1A] + Box [2A] =			1	Allowable Test Pro B] – Box [2B] =		Pressu	re Range During Test	_PSIG	
[2C] Min. Test Pressure		ited PSIG	[2D]	Max. Test Press	ure Indicated PSIG				
Calculated Min. Test Pres Box [2C] – Box [2A] =	영영 영영			lated Max. Test Pi D] + Box [2B] =	ressure at Min. Elev. PSIG				
Spike Test: Calculat	ions	and Test I	Result	S (complete for s	trength test with a s	oike test)		
Spike Pressure at Test Point Box [1E] – Box [2B] = PSIG				Required Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	ost-Spike Pressure at Test	Pressure Range After Spike Test G PSIG	
영구에는 구성을 만들어 있는 것이 같아요. 그는 것이 같아요.	Spike Pressure Indicated [2F] Min. Test Pre PSIG				re Indicated PSIG		Max. Post-Spike Test Pres		
Calculated Spike Pressure at Min. Elev. Calculated Min. T Box [2E] + Box [2B] = PSIG Box [2F] - Box [2A]					Pressure at Max. Elev. Calculated Max. Post-Spike Pressure at Min. Elev. PSIG Box [2G] + Box [2B] = PSIG				
Test Acceptance			<u>I</u>						
Were Leaks Observed	?				lf yes, explain;				
Acceptable Strength T Yes No Report strength test failure		gulatory Com	oliance		lf no, explain:				
Test Medium Used 1			*****		Time and Date Te	f Test			
Test Instruments					l Martin de la companya				
Make, Range, and Ser	al No.	of Pressu	re Rec	ording Device			Date Last Calibrat	led	
Make, Range and Seria A dead weight tester and/o or greater than 90% of SM	r an ele				r tests of any pipe seg	jment eq	ual to Date Last Calibrat	ted	
Signatures									
Fest Supervised by (signature) Print Name				Print Name			Date	LAN ID	
Testing Contractor (if	third p	oarty)						1	
Approved by (signatu	re)			Print Name			Date	LAN ID	
Attachments					Distribution			l	

Test chart

Schematic piping sketch

• Test log with pressure noted every 15 minutes

 Gas Job Closeout Desk, 6121 Bollinger Canyon Road, Building Z1, San Ramon, CA 94583



PART 1 - TEST DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER/ESTIMATOR)

	escripti	1											
Line Nu	umber or	Statio	n Name L-	114			Divi	sion/	District D	Diablo	Job Nur	nber 309	43472
Purpos	e of Tes	t: Tes	t new insta	lation			MAOP to be Established by this Test 720 PSIG						
Test Sa	and Cre	ek Tie		(include reference MP 13.71 for		 All All All All All All All All All All				.70 to MF	16.57. Wa	all Map E	B-58.
				ed) 🔲 Existing Yes 🗌 No (expl			lf no	o spil	ke test for	existing fi	icility, expl	ain:	
Static	Head C	alcula	tion										
Maximum Elevation <u>92</u> FT Minimum Elevation <u>92</u> FT							-				33 = <u>0</u> PSI	G	
	on Differ		<u>9</u> 2 0	F1 FT					r Test Mec e responsibl	and the first of the second	 or guidance (on completi	ng this fiel
Pipe to	be Tes	ted											
Sia OD (in.)	ze WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested		ual tage	Location Class	Most Restrictiv Design Factor	e At MAOP	% of SMY At Min. Test Press.	S At Mai Test Press
24.000	0.375	API-	5L 60000	SAWL	1.00	25	1		3	0,5	38.40	90.03	93.01
22.000	0.375	API-			1.00	10			3	0,5	32,49	76,18	78,70
24.000	0,375	MSS-SF	^{>-75} 60000	24x22 Reducer	-	1 ea			3	0.5	38.40	90.03	93.01
22.000 0.375	MSS-SF	²⁻⁷⁵ 60000	60000 24x22 Reducer		Λ			3	0.5	35.19	82.52	85.20	
Pipe sp Compo	ecs veri nent(s) l	fied in imiting	field 🗌	cept those list Signature of pe ure/Control Poi	erson s nt exce	upervising	test	waii					
		tions		ike test when tes	- Televis	COMPLETE CONTRACTORS IN T	es) T	l.				NUTRINE U	
est Fac	tor <u>1.5</u>	[1A]	Min. Test Pi	essure at Max. E	lev. <u>168</u>	8 PSIG	[18]	Max	. Test Press	sure at Min.	Elev. <u>1744</u> F	PSIG	
Spike T		-	Spike Facto				[1D]	Spik	e Pressure	at Max. Ele	v . Box [1A] X	[1C] =	PSI
(comple for spike	A STARLEY CONTRACTORY CONTRACTORY	[1E]	Spike Press	ure at Min. Elev.		PSIG	[1F]		. Post-Spike [1E] x 0.95 =		at Min. Elev. PS IG		
Test Me	edium to	be Us	ed <u>WATEF</u>	Minimum T	est Du	ration <u>8.</u>	<u>)</u> Hou	rs	■ 30% S ■ Pre-in	SMYS and o stallation Te	: 1 hour mini ver: 8 hours r st: Refer to A nutes minimu	ninimum -34, Attach	
Signat	ures												
Prepare	ed by (si	gnatur	e) Redact	ed		rint Name edacted	and P	hone	Number		Date 9/6/2013	이 아이는 아이들은 바람은 감독을 다 나는 아이들이 다.	AN ID
Approv	ed by (s d	ionatu	(A)	7		rint Name Redacted			1		Date 9/9/1		
Test Su	ipervisei	d by (s	ignature)		일 같은 사람이 있는 것이?	ime and Da eached (fro				Time and I Ended (from		Actual D Test (from	



PART 2 - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Test Elevation										
Elevation at	Max.	Elevation	in Tes	t Section	FT	Min. E	Min. Elevation in Test Section FT [2B] Static Head b/t Test Point and Min. ElePSIG			
Test Point FT	[2A]	Static Hea	nd b/t⊺	Fest Point and N	lax. Elev. PSIG	[2B]				
No Spike Test: Calc	ulatio	ns and Te	st Re	suits (complete	for strength test with	iout a sp	ike test)			
Min. Required Test Press Box [1A] + Box [2A] =				Allowable Test Pro B] – Box [2B] =	이 물건 물건이 많이 가지 않아야 하지 않는 것	Pressu	re Range During Test	PSIG		
[2C] Min. Test Pressure		ited PSIG	[2D]	Max. Test Press	ure Indicated PSIG					
Calculated Min. Test Pres Box [2C] – Box [2A] =			Postaria:	lated Max. Test Pr D] + Box [2B] =	essure at Min. Elev. PSIG					
Spike Test: Calculat	ions	and Test I	Result	S (complete for s	trength test with a s	oike test)			
Spike Pressure at Test P Box [1E] – Box [2B] =	'SIG		Requi red Test Pres A] + Box [2A] =	ssure at Test PointPSIG	Point	ost-Spike Pressure at Test -] – Box [2B] = PSI	After Spike Test			
[2E] Spike Pressure Ind	Spike Pressure Indicated [2F] Min. Test Pre PSIG				re Indicated PSIG		Max. Post-Spike Test Pre	ssure Indicated PSIG		
Calculated Spike Pressu Box [2E] + Box [2B] =				lated Min. Test Pr F] – Box [2A] =	ssure at Max. Elev. Calculated Max. Post-Spike Pressure at Min. Elev. PSIG Box [2G] + Box [2B] =PSIG					
Test Acceptance	NG NG		1			L				
Were Leaks Observed	?				If yes, explain:					
Acceptable Strength T Yes No Report strength test failure		gulatory Corr	pliance		lf no, explain:					
Test Medium Used	'ime a	nd Date Te	st Pre:	ssure Reached	Time and Date Test Ended Actual Duration of Test					
Test Instruments										
Make, Range, and Ser	ial No.	of Pressu	re Rec	ording Device			Date Last Calibra	ited		
Make, Range and Seria A dead weight tester and/c or greater than 90% of SM	or an ele				r tests of any pipe seg	jment eq	ual to Date Last Calibra	ited		
Signatures										
Test Supervised by (signature) Print Name				Print Name			Date	LAN ID		
Testing Contractor (if	thi rd p	oarty)		L <u></u>						
Approved by (signatu	re)			Print Name	Date LAN ID					
Attachments					Distribution			<u> </u>		

Test chart

• Schematic piping sketch

Gas Job Closeout Desk, 6121 Bollinger Canyon Road, Building

Z1, San Ramon, CA 94583

Test log with pressure noted every 15 minutes



PART 1 - TEST DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER/ESTIMATOR)

I ine Ni	escripti	on													
Line Number or Station Name L-114								Division/District Diablo Job Number 30943472							
Purpos	e of Tes	t: Tes	t new installa	ation			MAOP to be Established by this Test 720 PSIG								
Descrij	otion of F	vipe be	ing Tested (i	nclude reference	e drawing	s, field static	ning, a	ind mil	e points)						
Test no	ewly inst	alled 8	3" line from N	1LV-13.05 on	L-114	to line L-3	16. V	Vall N	Aap EB-58	. Drawing	3094347	2, sheet 6	iA.		
		- 25. CAR - 5. CAR) 🗌 Existing es 🗌 No (expla			If no spike test for existing facility, explain:								
					an on ng										
	Head Ca			10000 (1996) (1996) 				18/040	r <u>0 (</u> Elev. [);#) ~ 0 A2	2 - 0 001				
	um Eleva Im Eleva			T T			-				3 - U FSIC	2			
	on Differ			Т			.		r Test Med e responsible		r guidance (on completin	ig this field		
Pipe to	be Tes	ted					J								
in a second second second	ze	API	or SMYS	Long Seam	JF	Footage	Ac	tual	Location	Most		% of SMY	S		
OD (in.)	WT (in.)	AST Spe	M (psi)	(ERW, DSAW, SMLS etc.)	(E)	to be Tested		tage	Class	Restrictive Design Factor	At MAOP	At Min. Test Press.	At Max Test Press		
8.625	0.322	API-	5L 35000	SMLS	1.00	260	1		3	0,5	27.55	56.52	57.78		
16.000	0.375	API-	5L 35000	SMLS	1.00	10			3	0.5	43.89	90.03	92.04		
16.000	0.312	API-	5L 5200 0	HFW	1.00	10			3	0.5	35.50	72.83	74,46		
			second a second s	and the second	and the second second						and the second second				
			ويستحدث ويستعلقهم والمستعلقات				4						1		
				ept those list			*****	wall	thickness	and grade	as the pip	e 🛛			
				ept those list			*****	wall	thickness	and grade	as the pip	e 🛛			
Pipe sp	ecs veri	fied in	field 🗌 S	gnature of pe	erson si	pervising	*****	wall	thickness	and grade	as the pip	e 🛛			
Pipe sp Compo	nent(s) l	fied in imiting	field 🔲 S J test pressu	gnature of pe e/Control Poi	nt exce	ipervising ptions	test	wall	thickness	and grade	as the pip	e 🛛			
Pipe sp Compo Test S	nent(s) l pecifica	fied in imiting tions	field 🔲 S a test pressur (include a spil	gnature of pe e/Control Poi e test when tes	nt exce	upervising ptions sting faciliti	test es)								
Pipe sp Compo Test S 'est Fac	nent(s) pecifica tor <u>1.5</u>	fied in imiting tions [1A]	field 🗌 S test pressu (include a spil Min. Test Pre	gnature of pe re/Control Poi te test when tes ssure at Max. E	nt exce	upervising ptions sting faciliti	test es) [18]	Max	. Test Press	ure at Min. I	Elev. <u>1510</u> I				
Pipe sp Compo Test S ^{rest Fac} Spike T	nent(s) pecifica tor <u>1.5</u>	fied in imiting tions [1A] [1C]	field 🗌 S test pressur (include a spil Min. Test Pre Spike Factor	gnature of pe re/Control Poi te test when tes ssure at Max. E	nt exce sting exis	upervising ptions sting faciliti	test (18) (10)	Max Spik	. Test Press e Pressure	ure at Min. I at Max. Elev	Elev. <u>1510</u> I . Box [1A] x		PSI		
Pipe sp Compo Test S Fest Fac Spike T (comple	nent(s) pecifica tor <u>1.5</u> est te only	fied in imiting tions [1A]	field 🗌 S test pressur (include a spil Min. Test Pre Spike Factor	gnature of pe re/Control Poi te test when tes ssure at Max. E	nt exce sting exis	upervising ptions sting faciliti	test es) [18]	Max Spik Max	. Test Press e Pressure . Post-Spike	ure at Min. I at Max. Elev Pressure a	Elev. <u>1510</u> I . Box [1A] x t Min. Elev.		PSI		
Pipe sp Compo Test S Fest Fac Spike T (comple	nent(s) pecifica tor <u>1.5</u> est te only	fied in imiting tions [1A] [1C]	field 🗌 S test pressur (include a spil Min. Test Pre Spike Factor	gnature of pe re/Control Poi te test when tes ssure at Max. E	nt exce sting exis	upervising ptions sting faciliti	test (18) (10)	Max Spik Max	. Test Press e Pressure . Post-Spike [1E] x 0.95 =	ure at Min. I at Max. Elev Pressure a	Elev. <u>1510</u> I . Box [1A] x t Min. Elev. PSIG	•SIG [1C] =	PSI		
Pipe sp Compo Test S Fest Fac Spike T (comple for spike	nent(s) pecifica tor <u>1.5</u> est te only a test)	fied in imiting tions [1A] [1C] [1E]	field 🗌 S test pressur (include a spil Min. Test Pre Spike Factor	gnature of pe re/Control Poi te test when tes ssure at Max. E	rson su nt exce sting exis	upervising ptions sting facilité 7_PSIG PSIG	test (18) (10)	Max Spik Max Box	. Test Press e Pressure . Post-Spike [1E] x 0.95 = • Under • 30% S • Pre-ins	ure at Min. I at Max. Elev Pressure a 30% SMYS: MYS and ov stallation Tes	Elev. <u>1510</u> I . Box [1A] X t Min. Elev. PSIG 1 hour mini er: 8 hours i t. Refer to A	2SIG (1C) = mum ninimum 1-34, Attachi	ment A		
Pipe sp Compo Test S Fest Fac Spike T (comple for spike Test Me	nent(s) pecifica tor <u>1.5</u> est te only a test) edium to	fied in imiting tions [1A] [1C] [1E]	field 🗌 S test pressur (include a spil Min. Test Pre Spike Factor Spike Pressu	gnature of pe re/Control Poi te test when tee ssure at Max. E re at Min. Elev.	rson su nt exce sting exis	upervising ptions sting facilité 7_PSIG PSIG	test (18) (18) (10) (17)	Max Spik Max Box	. Test Press e Pressure . Post-Spike [1E] x 0.95 = • Under • 30% S • Pre-ins	ure at Min. I at Max. Elev Pressure a 30% SMYS: MYS and ov	Elev. <u>1510</u> I . Box [1A] X t Min. Elev. PSIG 1 hour mini er: 8 hours i t. Refer to A	2SIG (1C) = mum ninimum 1-34, Attachi	ment A		
Pipe sp Compo Test S Fest Fac Spike T (comple for spike Test Ma Signat	nent(s) pecifica tor <u>1.5</u> est te only a test) edium to	fied in imiting tions [1A] [1C] [1E] be Us	field S test pressur (include a spil Min. Test Pre Spike Factor Spike Pressu ed <u>WATER</u>	gnature of per re/Control Poi te test when test ssure at Max. E re at Min. Elev.	erson su nt exce sting exis liev. <u>147</u> est Dur	upervising ptions sting facilité 7_PSIG PSIG	test [18] [10] [17] [17] U Hou	Max Spik Max Box rs	. Test Press e Pressure . Post-Spike [1E] X 0.95 = . Under . 30% S . Pre-ins . Spike	ure at Min. I at Max. Elev Pressure a 30% SMYS: MYS and ov stallation Tes Test: 30 min	Elev. <u>1510</u> I . Box [1A] X t Min. Elev. PSIG 1 hour mini er: 8 hours i t. Refer to A	PSIG [1C] = mum ninimum I-34, Attachi m (included	ment A		
Pipe sp Compo Test S Fest Fac Spike T (comple for spike Test Ma Signat	nent(s) pecifica tor <u>1.5</u> est te only test) edium to ures	fied in imiting tions [1A] [1C] [1E] be Us	field S test pressur (include a spil Min. Test Pre Spike Factor Spike Pressur ed <u>WATER</u>	gnature of per re/Control Poi te test when test ssure at Max. E re at Min. Elev.	rrson sı nt exce ting exit ilev. <u>147</u> est Dur	upervising ptions sting faciliti 7_PSIG PSIG ation <u>8.</u> (test [18] [10] [17] [17] U Hou	Max Spik Max Box rs	. Test Press e Pressure . Post-Spike [1E] X 0.95 = . Under . 30% S . Pre-ins . Spike	ure at Min. I at Max. Elev Pressure a 30% SMYS: MYS and ov stallation Tes Test: 30 min	Elev. <u>1510</u> I . Box [1A] x t Min. Elev. PSIG 1 hour mini er: 8 hours i t: Refer to <i>i</i> utes minimu	PSIG (1C) = ninimum A-34, Attachi m (included	ment A in test)		
Pipe sp Compo Test S Fest Fac Spike T (comple for spike Test Me Signat Prepare	nent(s) nent(s) pecifica tor <u>1.5</u> est te only etest) edium to ures ed by (sig	fied in imiting tions [1A] [1C] [1E] be Us	field S test pressur (include a spil) Min. Test Pre Spike Factor Spike Pressur ed WATER e) Redact	gnature of per re/Control Poi te test when test ssure at Max. E re at Min. Elev.	erson su nt exce sting exis liev. <u>147</u> est Dur est Dur	upervising ptions sting faciliti 7_PSIG PSIG ration <u>8.(</u>	test [18] [10] [17] [17] U Hou	Max Spik Max Box rs	. Test Press e Pressure . Post-Spike [1E] X 0.95 = . Under . 30% S . Pre-ins . Spike	ure at Min. I at Max. Elev Pressure a 30% SMYS MYS and ov stallation Tes Test: 30 min	Elev. <u>1510</u> I . Box [1A] x t Min. Elev. PSIG 1 hour mini er: 8 hours I t: Refer to A utes minimu vate	*SIG [1C] = mum ninimum A-34, Attachi m (included	ment A in test) AN ID		



PART 2 - TEST DATA (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST)

Test Elevation										
Elawatian at	Max.	Elevation	in Tes	t Section	FT	Min. E	levation in Test Section	FT		
Elevation at Test Point FT	[2A]	Static Hea	nd b/t 1	fest Point and M	lax. Elev. PSIG	[28]	Static Head b/t Test Pol	nt and Min. Elev. PSIG		
No Spike Test: Calc	ulatio	ns and Te	st Re	sults (complete f	ior strength test with	iout a sp	ike test)			
Min. Required Test Press Box [1A] + Box [2A] =			103033-03	Allowable Test Pre B] – Box [2B] =		Pressu	re Range During Test	PSIG		
[2C] Min. Test Pressure Indicated PSIG			[2D]	Max. Test Press	ure Indicated PSIG					
				lated Max. Test Pr D] + Box [2B] =	essure at Min. Elev. PSIG					
Spike Test: Calcula	tions a	and Test I	Result	S (complete for s	trength test with a s	pike test)			
Spike Pressure at Test Point Box [1E] – Box [2B] = PSIG			Min. Required Test Pressure at Test Point Box [1A] + Box [2A] = PSIG				ost-Spike Pressure at Test ⁻] – Box [2B] = PSIG	Pressure Range After Spike Test PSIG		
[2E] Spike Pressure In		PSIG	[2F]	Min. Test Pressu	re Indicated PSIG	[2G]	Max. Post-Spike Test Pres	sure Indicated PSIG		
	Calculated Spike Pressure at Min. Elev. Calculated Min. Tes Box [2E] + Box [2B] = PSIG Box [2F] - Box [2A] =					essure at Max. Elev. Calculated Max. Post-Spike Pressure at Min. Elev. PSIG Box [2G] + Box [2B] =PSIG				
Test Acceptance			1							
Were Leaks Observed	1?				lf yes, explain:					
Acceptable Strength		gulatory Con	npliance	•	lf no, explain:					
Test Medium Used	Гіте a	nd Date Te	st Pre	ssure Reached	Time and Date To	est End	ed Actual Duration of	Actual Duration of Test		
Test Instruments										
Make, Range, and Ser	'ial No.	of Pressu	re Rec	ording Device			Date Last Calibrate	əd		
Make, Range and Ser A dead weight tester and/ or greater than 90% of SM	or an ele	of Dead W ectronic pres	e ight 1 sure rec	fester corder is required fo	r tests of any pipe seg	gment eq	ual to Date Last Calibrate	əd		
Signatures										
Test Supervised by (s	ignatu	re)		Print Name			Date	LAN ID		
Testing Contractor (if	third p	oarty)		1						
Approved by (signatu	re)			Print Name			Date	LAN ID		
Attachments				I	Distribution		I			

Test chart

Schematic piping sketch

• Test log with pressure noted every 15 minutes

 Gas Job Closeout Desk, 6121 Bollinger Canyon Road, Building Z1, San Ramon, CA 94583