PIPELINE SAFETY ENHANCEMENT PLAN PIPELINE REPLACEMENT AND ILI RETROFIT PROGRAM



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



Project No. 1581

PRSRS 27979; GM 30943472

Rev. No.	Date	Revision	GIE Approval	Client Approval
01	11/08/2012	Initial Submittal	Redacted	
02	8/8/2013	Changed 22" Pipe Spec		8/13/2013 Redacte
				d



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet <u>1</u> of <u>2</u>

Test Number 1 of 5 STPR Revision Number 02

Test D	escripti	on											
Line N	umber or	Static	n Name L-11	4			Divi	sion/C	District [Diablo	Job Nu	mber 30	943472
Purpos	e of Tes	t: Tes	t new installa	tion	***************************************	And the second s	MAC	OP to	be Estab	ished by I	his Test	7 <u>20</u> PSIG	
10 To			ing Tested (ir alled 24" L-1			The second of the second of the second	7.0			Drawing (30943472	, sheets 4	1-6.
			ike test required ormed? Te				If no	spik	e test for	existing f	acility, exp	lain:	
Static	Head C	alcula	tion										
	um Eleva		94 F				For	Water	8 (Elev.	Diff.) x 0.4	33 = <u>4</u> PSI	G	
in the second section of	ım Eleva on Differ		86 F 8 F				1		Test Med	TO THE PARTY OF TH			
	-	****					Cont	act the	responsibl	e engineer i	or guidance	on comple	ting this field.
	o be Tes ze						T	. T		T		% of SM	ve
OD (in.)	WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Foot	ual tage	Location Class	Most Restrictiv Design Factor		At Min	. At Max Test
24.000	0.375	API-	5L 60000	SAWL	1.00	1855	· ·		3	0.5	38.40	90.03	93.01
22.000	0,375	API-	5L 65000	HFW	1.00	5			3	0.5	32.49	76.18	78.70
24.000	0.375	MSS-SI	P-75 60000	24x22 Reducer		1 ea	-		3	0.5	38.40	90.03	93.01
22.000	0.375	MSS-SI	P-75 60000	24x22 Reducer	***************************************	^	re Constantina mentera de		3	0.5	35.19	82.52	85.26
					ministratio discount access								
, and the second second		***************************************					y a pody interior common la compré	a de la composição de la c	***************************************				
All fitti	nas inclu	ided in	the test (exc	ept those list	ed abov	(e) are the	same	wall t	hickness	and grade	as the bi	pe ⊠	
	maniferent international contraction of the contrac	o in management of the second		gnature of pe				Managed in the Control	obs choosis (energy co ndition in relevan de		•		
Compo	nent(s) I	imiting	test pressur	e/Control Poi	nt exce	ptions							
Test S	pecifica	tions	(include a spik	e test when tes	ting exi	sting faciliti	es)	ge inninnen i siden		niciani arc anicalismo antico	***		
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	sure at Max. E	lev. <u>168</u> 1	B PSIG	[18]	Max.	Test Pres	sure at Min	Elev. <u>1744</u>	PSIG	
Spike T	est	[1C]	Spike Factor				[40]	Spike	Pressure	at Max. Ele	rv. Box [1A]	x [1C] =	PSIG
(comple for spike	The second secon	[1E]	Spike Pressu	re at Min. Elev.		_ PSIG	[1F]			e Pressure	at Min. Elev PSIG	4	
Test M	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dur	ation <u>8.</u> (<u>0</u> Houi	ıs	* 30% : * Pre-in	SMYS and o	3: 1 hour mit ver: 8 hours est: Refer to nutes minim	minimum A-34, Attac	
Signal	ures	de maiories de résidence de l'Albéra											
Prepar	ed by (si	gnatur	e) Redacted		1	rint Name edacted	and Pl	hone l	Number		Date 8/8/2013		Reda
Approv	red by (s Redac	ionatu ted				rint Name Redacted			The second secon		Date 8/12/	6013	LAN ID Redacte
Test Si	ıpervise:	d by (s	ignature)	0.0000000000000000000000000000000000000		me and Da eached (fro			11 mg - 1	Fime and I Ended (from			Ouration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 2

Test Number <u>1</u> of <u>5</u> STPR Revision Number <u>02</u>

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

Test Elevation									SERVICE CONTROL CONTROL	
	Max.	Elevation l	n Tes	Section		Min. E	levatic	n in Test Secti	on _	FT
Elevation at Test Point FT	[2A]	Static Hea	d b/t 1	est Point and M	lax. Elev. PSIG	[28]	Static	: Head b/t Test	Poir	nt and Min. Elev. PSIG
No Spike Test: Calc	ulatio	ns and Te	st Re	Suits (complete l	for strength test with	out a sp	ike test)		
Min. Required Test Press Box [1A] + Box [2A] =				Allowable Test Pre B] – Box [2B] =	essure at Test Point PSIG	Pressu	re Ran	ge During Test		PSIG
[2C] Min. Test Pressure		ited PSIG	[2D]	Max. Test Press	ure Indicated PSIG					
Calculated Min. Test Pre Box [2C] – Box [2A] =	-7.5		1	lated Max. Test Pr	ressure at Min. Elev. PSIG					
Spike Test: Calcula	tions	and Test F	lesuli	S (complete for s	trength test with a s	olke test)			
Spike Pressure at Test F Box [1E] – Box [2B] =	oint		Min. F		ssure at Test Point	Max. Point	ost-Spi	ke Pressure at To		Pressure Range After Spike Test PSIG
[2E] Spike Pressure In		PSIG	[2F]	Min. Test Pressu	ure Indicated PSIG	[2G]	Max. I	Post-Spike Test f	^{>} ress	ure Indicated PSIG
Calculated Spike Pressu Box [2E] + Box [2B] =			1 1 1 1 1 1 1 1 1	lated Min. Test Pro	essure at Max. Elev. PSIG	Transferred		x. Post-Spike Pro [28] =		
Test Acceptance										
Were Leaks Observed ☐ Yes ☐ No	1?				If yes, explain:	Producer (1900) (Produce Andrews (1900)				
Acceptable Strength Yes No Report strength test failure			ipliance		If no, explain:		***************************************			
Test Medium Used	Gentlete agente et material processor	end enterprise language and experience of the second	ani-apprecapping management		Time and Date To	est End	ed	Actual Duratio	n of	Test
Test Instruments	<u> </u>									
Make, Range, and Sei	rial No	of Pressu	re Rec	ording Device				Date Last Calil	orate	d
Make, Range and Ser A dead weight tester and/ or greater than 90% of SM	or an el	of Dead Weetronic press	eight 1 sure rec	Cester corder is required fo	or tests of any pipe se	gment eq	ual to	Date Last Calil	brate	d
Signatures										
Test Supervised by (s	signatu	ıre)		Print Name				Date		LAN ID
Testing Contractor (if	third	party)		ing beneficial in the property of the second		neura d'imigranadi in melliologica del de				
Approved by (signatu	ire)	and the second s		Print Name				Date		LANID
Attachments Test chart Schematic piping sk Test log with pressu		ed every 15	minute	· · · · · · · · · · · · · · · · · · ·	Distribution Gas Job Cle Z1, San Ra	and the second second		5 The second	anyo	n Road, Building
 Test log with pressult 	ure note	ed every 15	minute	8						



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 1 of 2

Test Number <u>2</u> of <u>5</u> STPR Revision Number <u>02</u>

Test D	escripti	on							***************************************				
Line No	ımber or	Statio	n Name L-1	14	***************************************		Divi	sion/	District	Diablo	Job Nu	mber 30	943472
Purpos	e of Tes	t: Tes	t new instal	ation			MAC	P to	be Estat	olished by t	this Test 2	<u>'20</u> PSIG	
Test 36	317' new	ly inst		include reference 114 from MP						3, EB-59.			
				d)			If no	spik	e test for	existing f	acility, exp	lain:	
Static	Head C	alcula	tion										
	ım Eleva		SCOTTON .	F. 1			For	Wate	r 10 (Ele	/. Diff.) x 0.	433 = <u>5</u> PS	IG	
	ım Eleva on Differ			FT					r Test Me e responsit	dium de engineer	for guidance	on comple	ling this field.
Pipe to	be Tes	ited											
Si		API		Long Seam	JF	Footage	Act	and the second	Location	and the second of the second o		% of SM	
OD (in.)	WT (in.)	AST Spe		(ERW, DSAW, SMLS etc.)	(E)	to be Tested	Foot	age	Class	Restrictiv Design Factor		At Min Test Press	Test
24.000	0.375	API-	5L 60000	SAWL	1.00	3617		(Max) en ignicantes;	3	0.5	38.40	90.03	93.01
22.000	0.375	API-	5L 65000	HFW	1.00	5			3	0.5	32.49	76.18	78.70
24.000	0.375	MSS-SI	²⁻⁷⁵ 60000	24x22 Reducer	*	1 ea			3	0.5	38.40	90.03	93.01
22.000	0.375	MSS-SI	2-75 60000	24x22 Reducer	*				3	0.5	35.19	82.52	85.26
Pipe sp	ecs veri	fied in	field []	cept those list Signature of pe	irson s	upervising	majespojonjonijojenojone	wall	thicknes	s and grad	e as the pi	pe ⊠	
Test S	pecifica	itions	(include a sp	ike test when te	sting ex	isting faciliti	es)						
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pr	essure at Max. E	lev. <u>168</u>	8 PSIG	[18]	Max	. Test Pre	ssure at Min	. Elev. <u>1744</u>	PSIG	
Spike T	est	[10]	Spike Facto	/			[10]	Spik	e Pressur	e at Max. El	ev. Box [1A] :	k [1C] =	PSIG
(comple for spike	and the second second	[HE]	Spike Press	ure at Min. Elev.		PSIG	[fF]		[1E] x 0.95		PSIG		
Test M	edium to	be Us	ed <u>WATE</u> F	Minimum 1	est Du	ration <u>8.</u>	0 Hou	S	* 30% * Pre-	er 30% SMY: SMYS and (installation To e Test: 30 m	over: 8 hours est: Refer to	minimum A-34, Attac	
Signal	ures												
Prepar	ed by (si	gnatur	e) Redacte	ed		Print Name edacted	and P	hone	Number		Date 8/8/2013		LAN ID Redact
Amman	red_bv_fs	lanst:	201			rint Name					0/0/2013 Date		LANID
Approv	Redac	ted				edacted					8/12/4	013	Redacted
Test Si	upervise	d by (s	/gnature)		1 1 1 1	ime and Da Reached (fro	de la ser en en la company		essure	Time and Ended (fro			Duration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 2

Test Number 2 of 5 STPR Revision Number 02

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

Test Elevation	***************************************					nangadapud sebilas militain mingadapu			
	Max.	Elevation	in Test	Section	FT	Min. E	levation in Test Sec	tion _	FT FT
Elevation at Test Point FT	[2A]	Static Hea	id b/t 1	est Point and W	lax. Elev. PSIG	[28]	Static Head b/t Tes	t Poir	nt and Min. Elev PSIG
No Spike Test: Calc	ulatio	ns and Te	st Re	SU it S (complete l	or strength test with	out a sp	ike test)		
Min. Required Test Press Box [1A] + Box [2A] =				Allowable Test Pre 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] =		a constitues activities	1	 ated Max. Test Pr D] + Box [28] =	ressure at Min. Elev. PSIG				
Spike Test: Calculat	lons	and Test F	Result	S (complete for s	trength test with a s	olke test			
Spike Pressure at Test P Box [1E] – Box [2B] =		≥SIG	1	lequired Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	ost-Spike Pressure at 7		Pressure Range After Spike Test PSIG
[2E] Spike Pressure Inc	Control State of Control	PSIG	[2F]	Min. Test Pressu	ure Indicated PSIG	[2G]	Max. Post-Spike Test	emmerchischer der der der der der der der der der d	The second secon
Calculated Spike Pressu Box [2E] + Box [2B] =			100000000000000000000000000000000000000	lated Min. Test Pr F] - Box [2A] =	essure at Max. Elev. PSIG	The second second	ited Max. Post-Spike P 3) + Box [2B] =		
Test Acceptance									
Were Leaks Observed ☐ Yes ☐ No	?				If yes, explain:			novinación in inicia indicadora	
Acceptable Strength T Yes No Report strength test failure		gulatory Com	noliance		If no, explain:				
		-		sure Reached	Time and Date To	est End	ed Actual Duration	on of	Test
Test Instruments									
Make, Range, and Ser	ial No.	of Pressur	re Rec	ording Device			Date Last Cal	ibrate	
Make, Range and Seri A dead weight tester and/o or greater than 90% of SM	r an ele				r tests of any pipe sec	yment eq	ual to Date Last Cal	ibrate	d
Signatures	***************************************							1	
Test Supervised by (s	ignatu	re)		Print Name			Date		LAN ID
Testing Contractor (if	third p	party)				illuscommon delimente internet			
Approved by (signatu	re)			Print Name			- Date		LANID
Attachments Test chart Schematic piping sk	atah				Distribution Gas Job Clo Z1, San Rai		Desk, 6121 Bollinger (Canyo	n Road, Building

- Test log with pressure noted every 15 minutes



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet <u>1</u> of <u>2</u> Test Number <u>3</u> of <u>5</u> STPR Revision Number <u>02</u>

Test D	escripti	on										
Line Nu	ımber or	Statio	n Name L-11	4			Divis	ion/Distric	t Diablo	Job Nu	mber 30	943472
Purpos	e of Tes	: Tes	t new installa	tion			MAO	P to be Es	ablished by	this Test 2	<u>'20</u> PSIG	
				clude reference 14 from MP 1						30943472	sheets	10 – 13
				☐ Existing s ☐ No (expla			If no	spike test	for existing	facility, exp	lain:	
Static	Head C	ilcula	lion									
Minimu	ım Eleva ım Eleva on Differ	tion	93 F 86 F 7 F	r			For 0	Other Test	ev. Diff.) x 0. Medium nsible enginee		***************************************	iting this field.
Pipe to	be Tes	ted										
Si: OD (in.)	****	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Actu Foots			ive At n MAOP	% of SM At Mir Test Press	n. At Max. Test
24 000	0.375	API-	5L 60000	SAWL	1.00	3377		3	0.5	38.40	90.03	93.01
24.000	0.500	API-	5L 60000	SAWL	1.00	29		3	0.5	28.80	67.52	69 76
22.000	0.375	API-	5L 65000	HFW	1.00	5		3	0.5	32.49	76.18	78.70
24.000	0.375	MSS-SF	60000	24x22 Reducer		1 ea		3	0.5	38.40	90.03	93.01
22.000	0.375	MSS-SI	2-75 60000	24x22 Reducer	*	Α		3	0.5	35,19	82.52	85.26

All fitti	ngs inclu	ded in	the test (exc	ept those list	ed abov	re) are the	same \	wall thickn	ess and grad	de as the pi	pe 🏻	
Pipe sp	ecs veri	fied in	field □ Si	gnature of pe	rson sı	upervising	test					annual del programme del progr
Compo	nent(s) l	imiting	j test pressur	e/Control Poi	nt exce	ptions						
Test S	pecifica	tions	(include a spik	e test when tes	ting exi	sting facilitie	98)					***************************************
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	sure at Max. E	lev. <u>168</u>	g PSIG	[18]	Max. Test P	ressure at Mi	n. Elev. <u>1744</u>	PSIG	
Spike T	est	[10]	Spike Factor				[10]	Spike Press	ure at Max. E	lev. Box [1A]	<[1C] =	PSIG
(completer for spike		[1E]	Spike Pressu	e at Min. Elev.		_ PSIG	[1F]	Max. Post-S Box [1E] x 0	ipike Pressur 95 =	e at Min. Elev PSIG		
Test M	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dui	ration <u>8.</u> () Hour	* U * 3 \$ P	nder 30% SM 0% SMYS and re-installation pike Test: 30 r	over: 8 hours Test: Refer to	minimum A-34, Atta	
Signat	ures			L								
	ed by (si	gnatur	e) Redacte	ed		rint Name : dacted	and Ph	one Numb	27	Date 8/8/2013	R	LAN ID edacte
Approv	red by R	edacte	d			rint Name Redacted				Date 8/12/1/	D13 F	LAN ID Redacted
Test Si	ıpervise	d by (s	ignature)	Transitional and Agency	- 1	ime and Da eached (fro		t Pressure 2)	Time and Ended (fr	Date Test om Part 2)		Duration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 2 Test Number <u>3</u> of <u>5</u> STPR Revision Number <u>02</u>

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

Test Elevation			y kanaga kan					
Elevation at	Max.	Elevation i	in Tesi	t Section		Min. E	levation in Test Section	
Test Point FT	[2A]	Static Hea	id b/t 1	est Point and M	lax. Elev. PSIG	[2B]	Static Head b/t Test Po	oint and Min. Elev PSIG
No Spike Test: Calc	ulatio	ns and Te	st Re	Sults (complete t	for strength test with	out a sp	lke 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		ted PSIG	[2D]	Max. Test Pressi	ure IndicatedPSIG			
Calculated Min. Test Pres Box [2C] – Box [2A] =				lated Max. Test Pr D] + Box [2B] =	ressure at Min. Elev. PSIG			
Spike Test: Calculat	ions	and Test F	Result	S (complete for s	trength test with a s	pike test)	
Spike Pressure at Test P Box [1E] – Box [2B] =		SIG	1	Required Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	ost-Spike Pressure at Test -] - Box [2B] =PSI	After Spike Tes
[2E] Spike Pressure Inc		×SIG	[2F]	Min. Test Pressu	ure Indicated PSIG	[2G]	Max. Post-Spike Test Pre	ssure Indicated PSIG
Calculated Spike Pressu Box [2E] + Box [2B] =			lated Min. Test Pr F] – Box [2A] =	essure at Max. Elev. PSIG	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ated Max. Post-Spike Press G] + Box [28] = PS	and the profit of the profit o	
Test Acceptance	***************************************							
Were Leaks Observed ☐ Yes ☐ No	?				If yes, explain:			
Acceptable Strength 1 Yes No Report strength test failure		gulatory Com	npliance		If no, explain:			
Test Medium Used	ime a	nd Date Te	st Pre:	ssure Reached	Time and Date To	est End	ed Actual Duration o	of Test
Test Instruments								
Make, Range, and Ser	ial No.	of Pressui	re Rec	ording Device			Date Last Calibra	ted
Make, Range and Seri A dead weight tester and/o or greater than 90% of SM	or an ele	of Dead We ectronic press	e ight T sure rec	Fester corder is required fo	or tests of any pipe se	gment eq	Date Last Calibra	ted
Signatures								
Test Supervised by (s	ignatu	re)		Print Name			Date	LANID
Testing Contractor (if	third p	party)						
Approved by (signatu	re)			Print Name			Pate	LANID
Attachments	March and Street Street				Distribution			

- 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



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 1 of 2

Test Number 4 of 5 STPR Revision Number 02

Test C	escripti	on											
Line N	umber or	Static	on Name L-11	4			Divi	sion/D	istrict	Diablo	Job Ni	ımber 3	0943472
Purpos	se of Tesi	t: Tes	t new installa	tion			MAC	OP to I	oe Estab	lished by	this Test	720 PSI	3
		75	eing Tested (ir stalled 24" L			the state of the s			The Control of the Control	9. Drawin	g 309434	72, shee	ts 14-25.
			ike test required ormed? Ye				If no	spike	test for	existing I	acility, exp	olain:	
Static	Head Ca	alcula	tion		***************************************		4	****					
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	um Eleva	earearding.	<u>153</u> F				For	Water	<u>64</u> (Elev	. Diff.) x 0	.433 = <u>28</u> F	'SIG	
	ım Eleval on Differ	garage and	89 F 64 F					4.77	Test Me	- Section Contraction Contract	engelenier		
***		nieno-Nonienano		•			Cont	act the	responsib	le engineer	for guidance	on compl	eting this field.
n/n/n/n/n/n/n/n/n/n/n/n/n/n/n/n/n/n/n/	o be Tes ze			_	-		T				TO A CONTRACTOR OF THE PARTY OF		L 15 / 20
OD (in.)	WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Act Foot		Location Class	Most Restricti Desigr Factor	MAOF	% of S At M Tes Pres	n At Max t Test
24.000	0.375	API-	5L 60000	SAWL	1.00	10,989			3	0.5	38 40	90.0	3 93.01
24,000	0.500	API-	5L 60000	SAWL	1.00	55			3	0.5	28.80	67.5	2 69.76
													
					manamatan manamatan da kanamatan								

(***************************************					-		***************************************				
All fitti	nas inclu	ded in	the test (exc	ent those list	ad ahov	(e) are the	same	wall th	nicknoss	and arad	e as the ni	ne IXI	
			***************************************	gnature of pe	nicae estama esta esta esta esta esta esta esta est		************						
			ı test pressur										
Test S	pecifica	tions	(include a spik	e test when tes	ting exi	sting faciliti	es)						
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pres	sure at Max. E	lev. <u>168</u> 1	3 PSIG	[18]	Max.	Test Pres	sure at Min	. Elev. <u>1744</u>	PSIG	
Spike T	est	[10]	Spike Factor				[1D]	Spike	Pressure	at Max. El	ev. Box [1A]	x [1C] = _	PSIG
(comple for spike		(1E)	Spike Pressur	e at Min. Elev.		_ PSIG	[1F]		Post-Spik E] x 0.95 :		at Min. Ele	.	
Test M	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dur	ation <u>8.(</u>) Hour	•	* 30% : * Pre-ir	SMYS and on stallation T	S: 1 hour min over: 8 hours est: Refer to inutes minim	minimum A-34, Atta	ichment A
Signat	ures				A				ar pro-		75177715	ACCORDING TO SERVICE AND ADDRESS OF THE PARTY OF T	
Prepar	ed by (sig	gnatur	e) Reda	cted	1.33	rint Name i	and Ph	none N	lumber		Date 8/8/2013		LAN ID Redact
Approv	red by /si Redac	cted		orizonia in proportiona de la compania de la compa	P	riot Name edacted	Mily distributed the second				Date 8/12/1	د ا در	LAN ID Redacted
Test Su	upervised	l by (s	ignature)			me and Da eached (fro			- Section	Time and Ended (fro	Date Test	Actual	Duration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 2 Test Number <u>4</u> of <u>5</u>

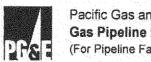
STPR Revision Number 02

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		Min. E	levation in Test Section	la de
Test Point FT	[2A] Static Hea	id b/t 1	est Point and N	Max. Elev. PSIG	[28]	Static Head b/t Test Poin	nt and Min. Elev PSIG
No Spike Test: Calc	ulations and Te	st Re	Suits (complete	for strength test with	out a sp	ilke 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	Indicated PSIG	[20]	Max. Test Press	ure Indicated PSIG			
Calculated Min. Test Pres Box [2C] - Box [2A] =			lated Max. Test Pi D] + Box [28] =	ressure at Min. Elev. PSIG			
Spike Test: Calculat	ions and Test I	Result	S (complete for s	trength test with a s	i pike test	1	
Spike Pressure at Test Po Box [1E] - Box [2B] =		1	Required Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	ost-Spike Pressure at Test - Box [2B] = PSIG	Pressure Range After Spike Test PSIG
[2E] Spike Pressure Inc	licated PSIG	[2F]	Min. Test Pressu	ure Indicated PSIG	[2G]	Max. Post-Spike Test Press	sure Indicated PSIG
Calculated Spike Pressul Box [2E] + Box [2B] =		lated Min. Test Pr F] – Box [2A] =	essure at Max. Elev. PSIG	A comment of the comment	ated Max. Post-Spike Pressu G] + Box [28] = PSIC	The state of the s	
Test Acceptance							
Were Leaks Observed ☐ Yes ☐ No				If yes, explain:			
Acceptable Strength T Yes No Report strength test failure		ipliance		If no, explain:	***************************************		
Test Medium Used T	ime and Date Te	st Pres	ssure Reached	Time and Date To	est End	ed Actual Duration of	Test
Test Instruments		THE RESIDENCE OF THE PERSON AS			***************************************		
Make, Range, and Seri	al No. of Pressu	re Rec	ording Device			Date Last Calibrate	d
Make, Range and Seria A dead weight tester and/o or greater than 90% of SM	r an electronic press			or tests of any pipe seg	jment eq	ual to Date Last Calibrate	
Signatures							
Test Supervised by (si	gnature)	***************************************	Print Name			Date	LAN ID
Testing Contractor (if	third party)	months of the section	den i iza se di seriman proprimento proprimento de la composito de la composit				
Approved by (signatur	•		Print Name			Date	LANID
Attachments				Distribution	-		

- 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



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

62-4921 (12/2012)

Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet <u>1</u> of <u>3</u>

Test Number <u>5</u> of <u>5</u> STPR Revision Number <u>02</u>

Test D	escripti	on								****				
Line No	ımber or	Static	n Name	114				Div	ision/	District I	Diablo	Job N	umber 3	0943472
Purpos	e of Tes	t: Tes	t new ins	tallat	ion			MA	OP to	be Estab	lished by	this Test	720 PSI	3
Test no	ewly inst	alled I	VLV-13.0	5 on	clude refere <u>nce</u> L-108 at Red). See drawi	dacted	and 23	31' of	new	8" line fro		3.05 to e	xisting L	-316
Will sp	ke test b	e perf	ormed?		☐ Existing			lf n	o spik	e test for	existing f	acility, ex _l	plain:	
Static	Head C	alcula	tion			Andrew Control								
and a second second second se	ım Eleva	at retained Theory Court Co.	<u>95</u>	FT				For	Wate	r <u>3</u> (Elev.	Diff.) \times 0.	433 = <u>2</u> PS	BIG	
200	m Eleva on Differ	700000000000000000000000000000000000000	<u>92</u> 3	FT FT						r Test Me		for guidance	on comp	eting this field.
Pipe to	be Tes	ted												
Si		API	or SM	rs	Long Seam	JF	Footage	Aci	tual	Location	Most		% of S	MYS
OD (in.)	(in.)	AST Spe		i)	(ERW, DSAW, SMLS etc.)	(E)	to be Tested	Foo	tage	Class	Restricti Desigr Factor	MAO	At M Tes Pres	t Test
24.000	0.375	API-	5L 600	00	SAWL	1.00	82			3	0.5	38.40	57.6	0 60.00
8.625	0.322	API-	5L 350	00	SMLS	1.00	260		-	3	0.5	27.55	41.3	3 43.05
6.625	0.280	API-	5L 350	00	SMLS	1.00	88	1		3	0.5	24.34	36.5	1 38.03
24.000	0.375	MSS-SI	P-75 600	00	24x24x6 Tee	Prophysical and Company of the Compa	2 ea			3	0.5	38.40	57.6	0 60.00
6.625	0.280	MSS-SI	²⁻⁷⁵ 600	00	24x24x6 Tee	**********	٨	1		3	0.5	14.20	21.2	9 22.18
24.000	0.375	MSS-SI	P-75 600	00	24x24x8 Tee	*	2 ea		on the second second	3	0.5	38.40		
8.625	0.322	MSS-SI	*******		24x24x8 Tee	, you you have been been a second	T		**CC**********************************	3	0.5	16.07		
	aini in manimum mening pinang	entrandentia destructura de	the test (******	pt those listenature of pe		***	· · · · · · · · · · · · · · · · · · ·	wall	thickness	and grad	e as the p	ipe 🛛	
									nga kalanda ka tan					
					/Control Poi			Valve	\$				esserialistica de la constantina de la	
Test S	pecifica	tions	(include a	spike	test when tes	ting ex	sting faciliti	es)						
Test Fac	tor <u>1.5</u>	[A1]	Min. Test	Press	sure at Max. E	lev. <u>108</u>	<u>0</u> PSIG	[18]	Max.	Test Pres	sure at Min	. Elev. <u>1125</u>	PSIG	
Spike T	est	[10]	Spike Fac	tor_				[10]	Spik	e Pressure	at Max. El	v. Box [1A]	x [1C] = _	PSIG
(comple		[1E]	Spike Pre	ssure	at Min. Elev.		PSIG	[1F]		Post-Spik 1EI x 0 95 =	the section of the section of the section of	at Min. Ele	v.	
Test Me	edium to	be Us	ed WATE	R	Minimum T	est Du	ration <u>8.(</u>) Hou		* Unde * 30% : * Pre-ir	r 30% SMY SMYS and distallation T	8: 1 hour mi over: 8 hours est: Refer to nutes minim	s minimum A-34, Atta	ichment A
Signat	ures											2, 12, 12, 12, 1		
CALL STREET, S		gnatur	e) Redact	ed		1	rint Name	and Pi	hone	Number		Date 8/8/2013		LAN ID Redact
Approv	ed by (si		re)	\\			rint Name Redacted		<u> </u>	80000		Date お/レルル	013	LAN ID Redacted
Test Su	pervised	a) yd t	ignature)				ime and Da eached (fro	4.7			Time and Ended (fro	Date Test	Actual	Duration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 3 Test Number 5 of 5 STPR Revision Number 02

Test D	escripti	on										***************************************	
Line No	ımber or	Statio	n Name L-1	14			Divis	ion/Distric	t Diablo		Job Nui	mber 3	0943472
Purpos	e of Test	t: Tes	t new installa	ition		***************************************	MAO	P to be Est	ablished l	y this	Test 7	<u>20</u> PSI	3
Test ne (Contr	ewly inst a Costa	alled I Count	MLV-13.05 o ty, Brentwoo	nclude refere <u>nce</u> n L-108 at ^{Re} d). See draw	dacted ng #30	and 23 943472, s	31' of n heets 6	ew 8" line 3A and 32-	from ML\ 38.	tania di mandani di ma	orientalismi en estado esta		-316
) Existing			If no	spike test	for existin	g facili	ity, expl	lain:	
Static	Head Ca	ilcula	tion										
	ım Eleva		<u>95</u> F	, T			For V	Vater 3 (Ele	v. Diff.) x	0.433 =	= <u>2</u> PSI(3	
	m Elevai on Differ		92 F 3 F	*			1	Other Test I act the respon		er for g	uidance	on compl	eting this field
Pipe to	be Tes	ted				**************************************							
OD (in.)	te WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Actu Foota			ictive ign	At MAOP	% of SI At Mi Tes Pres	n At Max t Test
16.000	0.375	API-	5L 35000	SMLS	1.00	10		3	0.	5	43.89	65.8	3 68.57
16.000	0.312	API	5L 52000	HFW	1.00	51	***************************************	3	0.	5	35.50	53.2	5 55.47
1.050	0.154	API-	5L 35000	SMLS	1.00	60			0.	5	7.01	10.5	2 10.96
Pipe sp	ecs veril	fied in	field [Si	ept those list gnature of pe	rson si	upervising	test	wall thickne	ess and gr	ade as	the pip	De 🗵	
Test S	oecifica	tions	(include a spik	e test when tes	tina exi	sting faciliti	es)			Action by the second second second			
Test Fac		[1A]		ssure at Max. E	****		T	Max. Test P	ressure at I	Ain. Ele	v. <u>1125</u> I	PSIG	
Spike T	est	[10]	Spike Factor				[1D]	Spike Press	ure at Max.	Elev. B	ox [1A] x	[1C] = _	PSIG
(completer for spike		[1E]	Spike Pressu	re at Min. Elev.		PSIG		Max. Post-S Box [1E] x 0.	95 =	PS	IG		
Test Me	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dui	ration <u>8.</u> () Hours	* 30 * Pr	nder 30% SM)% SMYS ar e-installation pike Test: 30	id over: i Test: f	8 hours Refer to /	minimum A-34, Atta	ichment A
Signat	ures				<u> </u>								
Prepare	d by (sig	gnatur	Redacte	ed		rint Name a dacted	and Ph	one Numbe		Dat 8/8	e /2013		Redact
Approv	ed by (si	gnatu Reda	acted			rint Name edacted				Dat	e (2/20)173	LAN ID Redacted
Test Su	pervised	l by (s	ignature)			ime and Da eached (fro	grame comme	and the second second second	Time ar Ended (1	The section of the section of	Duration of om Part 2)



Use in Accordance with Numbered Document A-34, A-37, and GO 112-E

Sheet <u>3</u> of <u>3</u> Test Number <u>5</u> of <u>5</u>

STPR Revision Number 02

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

Test Elevation									
Elevation at	Max. Eleva	tion in Tes	t Section	FT	Min. E	levation in Test Secti	on FT		
Test Point FT	[2A] Static	: Head b/t	Test Point and N	lax. Elev. PSIG	[28]	Static Head b/t Test	Point and Min. Elev. PSIG		
No Spike Test: Calc	ulations an	d Test Re	SUITS (complete	for strength test with	out a sp	ike test)			
Min. Required Test Press Box [1A] + Box [2A] =			Allowable Test Pro		Pressu	re Range During Test	PSIG		
[2C] Min. Test Pressure	Indicated PSIG	[2D]	Max. Test Press	ure Indicated PSIG					
Calculated Min. Test Pres Box [2C] – Box [2A] =	management and an arrangement of the second		ulated Max. Test Pi 2D] + Box [28] =	ressure at Min. Elev. PSIG					
Spike Test: Calculat	ions and T	est Resul	ts (complete for s	trength test with a sp	pike test				
Spike Pressure at Test P Box [1E] – Box [2B] =		1.00	Required Test Pres 1A] + Box (2A) =	ssure at Test Point PSIG	Point	ost-Spike Pressure at To] – Box [2B] = I	After Spike Test		
[2E] Spike Pressure Inc	licated PSIG	Min. Test Pressu	re Indicated PSIG	[2G]	Max. Post-Spike Test I	Pressure Indicated PSIG			
Calculated Spike Pressu Box [2E] + Box [2B] =	ulated Min. Test Pr 2F] – Box [2A] =	essure at Max. Elev. PSIG		ited Max. Post-Spike Pr					
Test Acceptance									
Were Leaks Observed ☐ Yes ☐ No			AND CONTROL CO	If yes, explain:					
Acceptable Strength T Yes No Report strength test failure		/ Compliance	If no, explain:						
Test Medium Used	Time and Dat	e Test Pre	ssure Reached	Time and Date To	est End	ed Actual Duratio	π of Test		
Test Instruments									
Make, Range, and Ser	ial No. of Pre	essure Rec	ording Device			Date Last Calil	orated		
Make, Range and Seri A dead weight tester and/o or greater than 90% of SM	r an electronic			or tests of any pipe seg	jment eq	Date Last Calil	prated		
Signatures	***************************************								
Test Supervised by (s	ignature)		Print Name			Date	LANID		
Testing Contractor (if third party)									
Approved by (signature) Print Name						Date	LANID		

Attachments

- Test chart
- Schematic piping sketch
- Test log with pressure noted every 15 minutes

Distribution

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