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	Redacte	
02	8/8/2013	Changed 22" Pipe Spec	Redacted	8/13/2013 Redacted



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-1	14			Divi	sion/Distric	t Diablo	Job	Nun	nber 30	943472
Purpos	e of Tes	t: Tes	t new installa	ition	***************************************	Anna ann an t-a-ann ann an t-a-ann ann an t-a-ann an t-a-ann an t-a-ann an t-a-ann an t-a-ann an t-a-ann an t-	MAC	OP to be Es	tablished b	y this Tes	it <u>72</u>	<u>20</u> PSIG	
10 To				nclude reference 14 from MP 1		The second of the second	7.7			g 309434	72,	sheets 4	-6.
) ☐ Existing es ☐ No (expla			If no	spike test	for existing	j facility, d	expl	ain:	
Static	Head C	alcula	tion										
	um Eleva		WANTED	1			For	Water 8 (El	ev. Diff.) x ().433 = <u>4</u> I	PSIG		
and advantage of the same	ım Eleva on Differ		86 F	T			3	Other Test	Total Control of the		overeita y de la calace		***************************************
	-	****	<u>8</u> F	1			Cont	act the respo	rsible engine	er for guida	nce c	in complet	ing this field.
	be Tes	ted		_			1					0/ 5044	
OD (in.)	ze WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Foot	armen 📲 medicina		ctive / gn MA	At IOP	% of SM At Min Test Press	
24.000	0.375	API-	5L 60000	SAWL	1.00	1855		3	0.	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		٨	-	3	0.	5 35	19	82.52	85.26
					white the second second								-
***************************************		***************************************		***************************************	***************************************		n essential de la company		***************************************		**********		***************************************
ΔII fittii	nas inclu	ıded in	the test leve	ept those list	ad abov	(e) are the	same	wall thickn	ess and or	ide as the	nin	e 🖂	
	maniferent international contraction of the contrac	o in management of the second		gnature of pe			*****					The state of the s	
Compo	nent(s) l	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)					*******	
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	ssure at Max. E	lev. <u>168</u> 1	3 PSIG	[18]	Max. Test F	ressure at N	lin. Elev. <u>1</u>	<u>744</u> F	SIG	
Spike T	est	[1C]	Spike Factor				[10]	Spike Pres	sure at Max.	Elev. Box [A] X	[1C] =	PSIG
(comple for spike	The second secon	[1E]	Spike Pressu	re at Min. Elev.		_ PSIG	(1F)		Spike Pressu 95 =	Charles 1	Elev.		
Test M	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dur	ation <u>8.</u>	<u>)</u> Hou	rs •3	nder 30% SN 0% SMYS an re-installation pike Test: 30	d over: 8 ho Test: Refe	ours r r to A	ninimum -34, Attac	
Signal	ures	and the second s		<u> </u>									
Prepar	ed by (si	gnatur	e) Redacted			rint Name dacted	and Pl	hone Numb	er	Date 8/8/20	13	- I-	LAN ID Redacte
Approv	red by (e Redac	ted		- innumenosités		edacted	4,74,00	<u> </u>		Date 8/12	./ h		LAN ID Redacted
Test Si	upervise	d by (s	ignature)			me and Da eached (fro		st Pressure 2)		d Date Te from Part 2)		Actual I Test (fro	Ouration of m 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)

						disconnection of science should	manuncida e finante relacida considerá a considerá con consideración de la consideración de la consideración d	compression representation and representation of the compression of th
Test Elevation			***************************************					
	Max	. Elevation	in Tesi	Section	FI	Min. E	levation in Test Secti	on FT
Elevation at Test Point FT	[2A]	Static Hea	ıd b/t T	est Point and M	lax. Elev. PSIG	[28]	Static Head b/t Test	Point and Min. Elev
No Spike Test: Ca	culatio	ons and Te	st Re	suits (complete f	or strength test with	out a sp	ike test)	
Min. Required Test Pre Box [1A] + Box [2A] =		Commence of the second	1	Allowable Test Pre B] – Box [2B] =		Pressu	re Range During Test	PSIG
[2C] Min. Test Pressu	re Indic	ated PSIG	[2D]	Max. Test Pressi	ure Indicated PSIG			
Calculated Min. Test Pi Box [2C] – Box [2A] =		at Max. Elev.	1	lated Max. Test Pr D] + Box [2B] =	ressure at Min. Elev. PSIG			
Spike Test: Calcul	ations	and Test F	Result	S (complete for s	trenoth test with a s	olke test		
Spike Pressure at Test Box [1E] – Box [2B] =	Point		Min. F		sure at Test Point	Max. P Point	ost-Spike Pressure at T	After Spike Test
[2E] Spike Pressure I		l PSIG	[2F]	Min. Test Pressu	re Indicated PSIG	er terretering and an interest con-	Max. Post-Spike Test	entransministrative entransministrative de la company
Calculated Spike Press Box [2E] + Box [2B] =		100000000000000000000000000000000000000	lated Min. Test Pro F] – Box [2A] =	essure at Max. Elev. PSIG	The state of the state of	ated Max. Post-Spike Pr	the first transfer for the first property of the second	
Test Acceptance								
Were Leaks Observe		***************************************		If yes, explain:				
Acceptable Strength Yes No Report strength test failu		egulatory Com	npliance		If no, explain:			
Test Medium Used	And the second s	denne energicismi inviterpative miargary estimate	man appropriate programme and	ssure Reached	Time and Date T	est End	ed Actual Duratio	n of Test
Test instruments	L	***************************************						
Make, Range, and S	erial No	. of Pressu	re Rec	ording Device			Date Last Cali	brated
Make, Range and Se A dead weight tester and or greater than 90% of S	i/or an e	of Dead W lectronic pres	eight 1 sure rec	Tester corder is required fo	or tests of any pipe se	gment ed	Date Last Cali	brated
Signatures								
Test Supervised by (signature) Print Name							Date	LANID
Testing Contractor	party)							
Approved by (signa	ure)			Print Name		annes a de la companya de la company	Date	LANID
Attachments					Distribution		A transferrence and the second	and the second
Test chart Schematic piping sketch Test log with pressure noted every 15 minutes						and the second second	Desk, 6121 Bollinger C A 94583	anyon Road, Building



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

Test D	escripti	on							**************************************				
Line No	ımber or	Statio	n Name L-	14			Divi	sion/	District	Diablo	Job Nu	mber 30	943472
Purpos	e of Tes	t: Tes	new instal	lation			MAC)P to	be Estab	olished by	this Test 7	<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	rexisting f	acility, exp	lain:	
Static	Head C	alcula	lion										
	ım Eleva		MODEL NO.	FT			For	Wate	r 10 (Elev	v. Diff.) x 0	433 = <u>5</u> PS	IIG	
	ım Eleva on Differ			FT					r Test Me e responsit	- International Contraction of the Contraction of t	for guidance	on comple	ting this field.
maring a substitution of the substitution of	be Tes	ted					,						
Si		API		Long Seam	JF /E\	Footage	Act	and the second	Location	こと 裏 しょうしゅい かんりょう		% of SM	
OD (in.)	WT (in.)	AST Spe		(ERW, DSAW, SMLS etc.)	(E)	to be Tested	Foot	age	Class	Restricti Design Factor	MAOP	At Min Test Press	Test
24.000	0.375	API-	5L 60000	SAWL	1.00	3617		(Mary) and Special Control of	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	***	and the second contraction of the second con			3	0.5	35.19	82.52	85.26
Pipe sp	ecs veri	fied in	field 🗌	cept those list	erson s	upervising	province programmy printers are	wall	thickness	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 P	essure at Max. I	Elev. <u>168</u>	8 PSIG	[18]	Max	. Test Pres	ssure at Min	. Elev. <u>1744</u>	PSIG	
Spike T		[10]	Spike Facto	ľ.			[10]	Spik	e Pressur	e at Max. El	ev. Box [1A] :	x [1C] =	PSIG
(comple for spike	and the second second	(HE)	Spike Press	ure at Min. Elev	* *************************************	PSIG	[15]		[1E] × 0.95	ke Pressure =	PSIG		
Test M	edium to	be Us	ed <u>WATE</u> F	Minimum	Test Du	ration <u>8.</u>	<u>0</u> Hou		* 30% * Pre-	er 30% SMY SMYS and installation T e Test: 30 m	over: 8 hours est: Refer to	minimum A-34, Attac	
Signal	ures												
Prepar	ed by (si	gnatur	e) Redact	ed	 	rint Name edacted	and P	hone	Number		Date 8/8/2013		LAN ID Redac
Approv	red by (s Reda		**************************************			Print Name Redacted					Date 8/12/4	013	LAN ID Redacted
Test Si	upervise	d by (s	/gnature)		1.5	ime and Da Reached (fro			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	eramine hancourse mission at		***************************************							
	Max.	Elevation	in Tesi	t Section		Min. E	levation in	Test Section _	FT	
Elevation at Test PointFT	[2A]	Static Hea	id b/t T	est Point and N	lax. Elev. PSIG	[28]	Static Hea	nd b/t Test Poi	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] =			1.	Allowable Test Pro B] – Box [2B] =	essure at Test Point PSIG	Pressu	re Range Du	uring Test	PSIG	
[2C] Min. Test Pressure		ited PSIG	[20]	Max. Test Press	ure IndicatedPSIG					
Calculated Min. Test Pres Box [2C] – Box [2A] =	·	and the second second second		lated Max. Test Pi D] + Box [2B] =	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] =		rsiG		Required Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	Max. Post-Spike Pressure at Test Pressure			
[2E] Spike Pressure Inc		·SIG	[2F]	Min. Test Pressu	ure Indicated PSIG	[2G] Max. Post-Spike Test Pressure Indicated PS				
and the property of the second	ox [2E] + Box [2B] = PSIG				essure at Max. Elev. PSIG		st-Spike Pressu =PSi			
Test Acceptance										
Were Leaks Observed □ Yes □ No		If yes, explain:								
Acceptable Strength 1 Yes No Report strength test failure		gulatory Com	pliance		If no, explain:					
Test Medium Used 1	***************************************				Time and Date To	est End	ed Actu	al Duration of	Test	
Test Instruments										
Make, Range, and Ser	ial No.	of Pressu	e Rec	ording Device			Date	Last Calibrate	!	
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	ester order is required fo	or tests of any pipe sec	gment eq	ual to Date	Last Calibrate	94	
Signatures										
Test Supervised by (signature) Print Nam				Print Name			Date	!	LANID	
Testing Contractor (if third party)									Particular de la companya de la comp	
Approved by (signatu	re)			Print Name			Date		tan ib	
Attachments • Test chart					Distribution • Gas Job Clo			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-1	14			Divis	ion/District	Diablo	Job Nu	mber 30	943472
Purpos	e of Test	: Tes	t new installa	ıtion			MAO	P to be Esta	blished by	this Test 7	<u>720</u> PSIG	
				nclude reference 14 from MP 1				* *). Drawing	30943472,	sheets 1	10 - 13
				Existing			If no	spike test fo	or existing f	acility, exp	lain:	Baller and the second of the s
Static	Head Ca	alcula	lion									
Minimu	ım Eleva m Eleva on Diffen	tion	<u>86</u> F				For C	Vater <u>7</u> (Elevented the Value of the response	ledium			ting this field
Pipe to	be Tes	ted										
Siz OD (in)	ve WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW, SMLS etc.)	JF (E)	Footage to be Tested	Actu Foota	and the second of the second		MAOP	% of SM At Min Test Press	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	*	Λ		3	0.5	35.19	82.52	85.26
oreignation and an and				- Landanian Company		The state of the s	-					
All fittir	nas inclu	ided in	the test (exc	ept those list	ed abov	/e) are the	same v	vall thickne	ss and grad	e as the pi	pe 🛛	
MARKET CONTRACTOR CONT		on a construction of the c		ignature of pe			en e					and the second s
Compo	nent(s) l	imiting	j test pressu	re/Control Poi	nt exce	ptions						
Test S	pecifica	tions	(include a spil	ce test when tes	ting exi	sting faciliti	es)					
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	ssure at Max. E	lev. <u>168</u>	g PSIG	[18]	Max. Test Pr	essure at Mir	. Elev. <u>1744</u>	PSIG	
Spike T	est	[10]	Spike Factor				[10]	Spike Pressu	ıre at Max. El	ev. Box [1A] :	x [1C] =	PSIG
(comple		(1E)	Spike Pressu	re at Min. Elev.		_ PSIG		Max. Post-Sp Box [1E] x 0 9	and the second second second	at Min. Elev PSIG		
Test Mo	edium to	be Us	ed <u>WATER</u>	Minimum T	est Dui	ration <u>8.</u>	Q Hours	* Un * 30°	der 30% SMY % SMYS and i-installation T ke Test: 30 m	over: 8 hours est: Refer to	minimum A-34, Attac	and the second of the factor
Signat	ures			1								
	ed by (si	gnatur	e) Redac	ted		rint Name edacted	and Ph	one Numbe		Date 8/8/2013	F	LAN ID Redacte
Approv	red by R	edacte	d			rint Name Redacted				Date 8/12//	בוע	LAN ID Redacted
Test Si	ıpervise:	d by (s	ignature)			ime and Da eached (fro		the committee of the property of	Time and Ended (fro	Date Test m Part 2)		Duration of om Part 2)



62-4921 (12/2012) Use in Accordance with

Numbered Document A-34, A-37, and GO 112-E

Sheet 2 of 2

Test Number 3 of 5 STPR Revision Number 02

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	2E] Spike Pressure Indicated [2F] Min. Test P PSIG						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 (signature) Print Name							Date	LANID			
Testing Contractor (if third party)											
Approved by (signature) Print Name							Pate	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



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

Sheet 1 of 2

Test Number <u>4</u> of <u>5</u> STPR Revision Number <u>02</u>

Test D	escripti	on											
Line No	ımber or	Statio	n Name L-11	4			Divi	sion/C	District	Diablo	Job Nu	ımber 3)943472
Purpos	e of Test	: Tes	t new installa	lion	**************************************		MAC	OP to	be Estab	lished by	this Test	720 PSIC	
		77.4	eing Tested (in stalled 24" L-				100			9. Drawin	g 3094347	72, shee	s 14-25.
			ke test required)				If no	spik	e test for	existing (acility, exp	lain:	
Static	Head Ca	lcula	tion										***************************************
1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	ım Eleva	Andread of	<u>153</u> F				For	Water	- <u>64</u> (Elev	/. Diff.) x 0	.433 = <u>28</u> F	'SIG	
Section of the Contract	m Eleval on Differ		89 F 64 F				-1-1	4.75	Test Me	100000000000000000000000000000000000000			
					***************************************		Cont	act the	responsit	le engineer	for guidance	on compl	eting this field.
***************************************	be Tes	ted		***************************************			1			-	***		
OD (in.)	ze 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 Design Factor	MAOF	% of St At Mi Tes Pres	n At Max t Test
24.000	0.375	API-	5L 60000	SAWL	1.00	10,989	1		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
					land and the language department of the land of the la				ONE PARTY AND ADDRESS OF THE PARTY AND ADDRESS				
	-	****	the test (exce field Sig	ppt those liste gnature of pe	aista sa chiann sa si si shi an an an an		*****	wall t	hickness	and grad	e as the pi	pe 🗵	
Compo	nent(s) l	imiting	ı test pressuri	e/Control Poi	nt exce	ptions							
Test S	pecifica	tions	(include a spike	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>	8 PSIG	[18]	Max.	Test Pres	sure at Min	. Elev. <u>1744</u>	PSIG	
Spike T	est	[10]	Spike Factor_	***************************************		***************************************	[10]	Spike	Pressur	e at Max. El	ev. Box [1A]	x [1C] = _	PSIG
(comple for spike		[1E]	Spike Pressur	e at Min. Elev.		PSIG	[1F]		Post-Spil		at Min. Ele	4	
Test Me	edium to	be Us	ed WATER	Minimum T	est Du	ration 8.0	① Hour		* Unde * 30% * Pre-i	or 30% SMY SMYS and on Installation T	S: 1 hour mi over: 8 hours est: Refer to inutes minim	minimum A-34, Atta	
Signat	ures			**************************************	<u>A_</u>							malestronia social containa iliministra pienticoccidi	
Prepare	ed by (sig	gnatur	Redact	ced		rint Name edacted	and Pl	none I	Number		Date 8/8/2013		Redact
Approv	ed Redac	ted	na na pagadalain kanadalain kanadalain kanadalain kanadalain kanadalain kanadalain kanadalain kanadalain kanada			rint Name Redacted	and the second s				Date 왕/ 1호/1	ഗ ദ്ര	LAN ID Redacted
							d Date Test Pressure Time and Date Test Actual Duration of d (from Part 2) Ended (from Part 2) Test (from Part 2)						the artists of the state of the



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 <u>02</u>

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

Claudian et	Max.	Elevation	in Tes	t Section		Min. E	levation in Test Section	FT
Elevation at Test Point FT		Static Hea	d b/t 1	Test Point and N	lax. Elev.		Static Head b/t Test Po	int and Min. Elev
(4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	[2A]				PSIG	[2B]		PSIG
No Spike Test: Calc	ulatio	ns and Te	st Re	suits (complete	for strength test with	out a sp	ike test)	
Min. Required Test Pres: Box [1A] + Box [2A] =			1	Allowable Test Pro B] – Box [28] =		Pressu	re Range During Test	_PSIG
[2C] Min. Test Pressure	r established The second	ted PSIG	[20]	Max. Test Press	ure Indicated PSIG			
Calculated Min. Test Pre Box [2C] - Box [2A] =		Carrier and Company of the Control o		lated Max. Test Pi D] + Box [2B] =	ressure at Min. Elev. PSIG			
Spike Test: Calcula	tions a	ind Test F	Result	S (complete for s	trength test with a s	pike test		
Spike Pressure at Test P Box [1E] – Box [2B] =		SIG		Required Test Pres A] + Box [2A] =	ssure at Test Point PSIG	Point	ost-Spike Pressure at Test	After Spike Tes
[2E] Spike Pressure Inc	1 115	sig	[2F]	Min. Test Pressu	re Indicated PSIG	[2G]	Annual management of the contract of the contr	
Calculated Spike Pressure at Min. Elev. Calculated Min. Tes Box [2E] + Box [2B] =PSIG Box [2F] - Box [2A]					essure at Max. Elev. PSIG		ited Max. Post-Spike Press [] + Box [28] =PS	
Test Acceptance								
Were Leaks Observed ☐ Yes ☐ No	?				If yes, explain:			
Acceptable Strength		julatory Com	pliance		If no, explain:			
	***************************************			ssure Reached	Time and Date To	est End	ed Actual Duration o	f Test
Test Instruments			***************************************			*******************		
Make, Range, and Ser	ial No.	of Pressur	e Rec	ording Device			Date Last Calibra	led
Make, Range and Seri A dead weight tester and/o or greater than 90% of SM	or an ele				or tests of any pipe seg	gment eq	Date Last Calibra	ted
Signatures								
Test Supervised by (s	ignatur	'e)		Print Name			Date	LAN ID
resting Contractor (if	third p	arty)		and the second s				

- 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 3

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

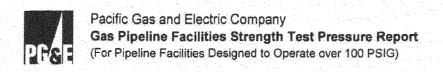
Test D)escripti	ion											
Line N	umber o	r Statio	n Name L-1	14		ent forter forter for the forter for	Divi	sion/l	District	Diablo	Job Nu	ımber 3	30943472
Purpos	se of Tes	t: Tes	t new installa	ıtion	www.comabinites.com.com		MAC	OP to	be Estat	olished by	this Test	720 PS I	maaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
a interessed to the second in the second			-	nclude reference	drawir	ias field static		inger det er	and a second				
Test no	ewly inst	talled N	/LV-13.05 o	n L-108 at Re d). See drawi	dacted	l and 23	31' of 1	new	8" line fr		13.05 to ex	disting L	-316
)			If no	spik	e test fo	r existing f	acility, exp	ılain:	
Static	Head C	alcula	tion						***************************************				P3000000000000000000000000000000000000
	um Eleva		'atamata	1			For	Wate	r <u>3</u> (Elev	. Diff.) x 0.	433 = <u>2</u> PS	IG	Name and Associated States of the Association of th
	ım Eleva on Differ		100000	•					Test Me	A CONTRACTOR OF THE PARTY OF TH	for guidance	on comp	leting this field
Pipe to	be Tes	sted											
Si		API		Long Seam	JF	Footage	Act		Location			% of S	
OD (in.)	WT (in.)	AST Spe		(ERW, DSAW, SMLS etc.)	(E)	to be Tested	Foot	age	Class	Restricti Desigr Factor	MAOP	At M Tes Pres	st Test
24.000	0.375	API-	5L 60000	SAWL	1.00	82			3	0.5	38.40	57.6	60.00
8.625	0.322	API-	5L 35000	SMLS	1.00	260			3	0.5	27.55	41.3	33 43.05
6.625	0.280	API-	5L 35000	SMLS	1.00	88			3	0.5	24.34	36.5	51 38.03
24.000	0.375	MSS-SF	²⁻⁷⁵ 60000	24x24x6 Tee	*	2 ea			3	0.5	38.40	57.6	60.00
6.625	0.280	MSS-SF	²⁻⁷⁵ 60000	24x24x6 Tee	-	^			3	0.5	14.20	21.2	29 22.18
24.000	0.375	MSS-SF	60000	24x24x8 Tee		2 ea			3	0.5	38.40	57.6	60.00
8.625	0.322	MSS-SF	²⁻⁷⁵ 60000	24x24x8 Tee		. ^			3	0.5	16.07	24.1	11 25.11
All fitti	ngs inclu	ıded in	the test (exc	ept those list	ed abo	ve) are the	same	wall t	hickness	and grad	e as the pi	ре 🛛	
Pipe sp	ecs veri	fied in	field 🗌 Si	gnature of pe	rsons	upervising	test						
Compo	nent(s) l	imiting	test pressur	e/Control Poi	nt exc	eptions	Valves	•					spingue, en
Test S	pecifica	tions	(include a spik	e test when tes	iting ex	isting faciliti	es)	***************************************				erisionalis (Alexies y anti-provinci y anni-pro	
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	ssure at Max. E	lev. <u>10</u>	80 PSIG	[18]	Max.	Test Pres	sure at Min	. Elev. <u>1125</u>	PSIG	- The state of the
Spike T	est	[10]	Spike Factor			management (specific transfer of the second	[dr]	Spike	e Pressun	e at Max. El	ev. Box [1A])	k [1C] = _	PSIG
(comple for spike		(1E)	Spike Pressu	re at Min. Elev.		FSIG	(1F)		the print are transferred	(e Pressure	at Min. Elev PSIG		and the second s
Test M	edium to	be Us	ed WATER	Minimum T	est Du	iration <u>8.</u> (∑ Hour	•	* 30% * Pre-i	SMYS and on the stallation T	S: 1 hour mir over: 8 hours est: Refer to inutes minim	minimum A-34, Atta	achment A
Signat	ures												
Prepare	ed by (si	gnatur	e) Redacted		1	Print Name : edacted	and Ph	ione l	Number		Date		LAN ID Redacte
Anne	ed by is	ionote					· <				8/8/2013		
whblo/	Reda	acted				Print Name Redacted			. <u></u>		Date 8/12/か	013	Redacted
Test St	pervise	d by (si	gnature)		1	Time and Date Test Pressure Reached (from Part 2) Reducted F 12 120 3 Reducted							



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

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

Test [)escripti	on											
Line N	umber o	Static	n Name L-1	14			Divi	sion/	District	Diablo	Job Nu	mber 309	43472
Purpo	se of Tes	t: Tes	t new installa	ation			MAC)P to	be Estab	lished by	this Test 7	'20 PSIG	Militari di Salara d
Test n	ewly inst	alled I	/ILV-13.05 o	nclude reference n L-108 a Rec d). See drawi	lacted	and 23	31' of r	new	8" line fro		13.05 to ex	isting L-3	16
)			If no	spik	e test for	existing	facility, exp	lain:	
Static	Head C	alcula	tion										
and the second	um Eleva		**********	T			For	Wate	r <u>3</u> (Elev.	Diff.) \times 0.	433 = <u>2</u> PSI	G	
Elevati	um Eleva on Differ	ence	Annual Control of the						r Test Me e responsib		for guidance	on completion	ng this field
Pipe t	o be Tes	ted				ang transition of the second or the second of the second o							
OD (in.)	ze WT (in.)	API AST Spe	M (psi)	Long Seam (ERW, DSAW,	JF (E)	Footage to be Tested	Act Foot		Location Class	Most Restrict Desig	ive At n MAOP	% of SMY At Min Test	At Max. Test
			220002000000000000000000000000000000000	SMLS etc.)						Facto		Press.	Press
16.000 16.000	0.375	API-	CONTRACTOR OF THE PROPERTY OF	SMLS	1.00	10 51	-		3	0.5	43.89	65,83	68.57
1.050	0.312	API-		HFW SMLS	1.00	60	-	majorina di kalendari di kalenda	3	0.5	35.50 7.01	53.25 10.52	55.47 10.96
	0.104	And the second s	,	VIVIEV	***********	1	+			0.0	· · · · · · · · · · · · · · · · · · ·	10.02	10.30
manuscription and the second											***************************************		***************************************
Antinantian (Laboratoria Antinantian)									***************************************				
All fitti	ngs inclu	ıded in	the test (exc	ept those list	ed abo	ve) are the	same	wall 1	thickness	and grad	le as the pl	oe ⊠	
Pipe s	pecs veri	fied in	field □ S	gnature of pe	rson s	upervising	test						
		* **		100 100 1				***************************************					eljokalana kirkettyristytopakastary tystyty
Compo	menus) i	ımıtınç	rest pressu	e/Control Poi	nt exce	epuons va	ives			en taju ili ili ili Lan See			
Test S	pecifica	tions	(include a spil	e test when tes	ting ex	isting faciliti	es)						
Test Fac	tor <u>1.5</u>	[1A]	Min. Test Pre	ssure at Max. E	lev. <u>108</u>	<u>10</u> PSIG	[18]	Max.	Test Pres	sure at Mi	n. Elev. <u>1125</u>	PSIG	
Spike 1	est	[10]	Spike Factor		Platence Second Consumeration	tion (Company of the Arthur Mariana and Arthur Mariana and Arthur Mariana and Arthur Mariana and Arthur Mariana	[1D]	Spik	e Pressure	at Max. E	lev. Box [1A] >	([1C] =	PSIG
(comple for spike		[1E]	Spike Pressu	re at Min. Elev.		PSIG	(1F)		Post-Spik		at Min. Elev	Antonomina de la composiçõe de la compos	(COO) (Province of the Association of the Associati
Test M	edium to	be Us	ed <u>WATER</u>	Minimum T	est Du	ration <u>8</u> () Hour	Marie Contraction of the State	* Unde * 30% * Pre-ii	r 30% SM) SMYS and istallation	'S: 1 hour min over: 8 hours Fest: Refer to a ninutes minima	minimum A-34, Attach	
Signal	ures		<u> </u>	<u> </u>	***************************************				~~~				
	ed by (si	gnatur	Redac	ted		rint Name	and Ph	none	Number		Date	1-	AN ID
A											8/8/2013	L	Redact
Approv	red by (s	Red	lacted			Redacted					Date \$/12/01	[<u>-</u>	AN ID edacted
Test S	upervise	d b, ,,		governichmen		ime and Da				Time and Ended (fro	Date Test		uration of
						leached (fro	nii Fall	~)	*		nn rait 2)	rear (IIOII	: - a:: 4)



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 <u>02</u>

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

Test Elevation								100 mm on 100 mm of 100 mm on 100 mm			
Elevation at	Max	. Elevation	in Tes	t Section	FT	Min. E	levation in Test Section	nFT			
Test Point FT	[2A]	Static Hea	nd b/t 1	est Point and N	lax. Elev. PSIG	[28]	Static Head b/t Test I	Point and Min. ElevPSIG			
No Spike Test: Cald	ulatio	ins and Te	st Re	SultS (complete	for strength test with	out a sp	ilke test)				
Min. Required Test Pres Box [1A] + Box [2A] =			1	Allowable Test Pro B] – Box [2B] =		Pressu	re Range During Test _	PSIG			
[2C] Min. Test Pressur	e Indic	ated PSIG	[20]	Max. Test Press	ure Indicated PSIG						
Calculated Min. Test Pre		T. 10 (11)	100	lated Max. Test Pi D] + Box [28] =	ressure at Min. Elev. PSIG						
Spike Test: Calcula	tions	and Test I	Result	S (complete for s	trength test with a s	i olke test					
Spike Pressure at Test F Box [1E] – Box [2B] =		PSIG	1.	Required Test Pres A] + Box (2A) =	ssure at Test Point PSIG	Point	ost-Spike Pressure at Te -] – Box [2B] =P	After Spike Test			
[2E] Spike Pressure In		PSIG	[2F]	Min. Test Pressu	re Indicated PSIG	[2G] Max. Post-Spike Test Pressure Indicated PSI					
Box [2E] + Box [2B] =PSIG				lated Min. Test Pr F] – Box [2A] =	essure at Max. Elev. PSIG		ated Max. Post-Spike Pre				
Test Acceptance					The second secon						
Were Leaks Observed ☐ Yes ☐ No	Were Leaks Observed?					If yes, explain:					
Acceptable Strength Yes No Report strength test failure		gulatory Con	ıpliance	If no, explain:							
Test Medium Used	Time a	nd Date Te	st Pre	ssure Reached	Time and Date To	est End	ed Actual Duration	i of Test			
Test Instruments					A TORRANGO CONTRACTOR CONTRACTOR CONTRACTOR AND A STATE OF THE PROPERTY OF THE						
Make, Range, and Se	ial No	. of Pressu	re Rec	ording Device	And Conference of the Conferen		Date Last Calib	rated			
Make, Range and Serial No. of Dead Weight Tester A dead weight tester and/or an electronic pressure recorder is req or greater than 90% of SMYS.					or tests of any pipe seg	ıment eq	ual to Date Last Calib	rated			
Signatures		***************************************									
Test Supervised by (signature) Print Name				Print Name			Date	LANID			
Testing Contractor (if third party)											
Approved by (signatu	pproved by (signature) Print Name						Date	LANID			
	OHEODANIAN SISSEMAN SANDONOMI		-			****************					

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