

1.101

Location Class

0.D.

36.00

10.75

3.500

2.375

36.00

36.00

Prepared By:

Redacted

Time and Date

Test Pressure

Time and Date

Actual Duration

Test Fluid Used Water

Test Sur Redacted

OF EACH ASSEMBLY TESTED.

Test Ended

of Test

Reached

3

Feeder Main Number, Line Number, or Station Name

Design Factor (F)

Fley, Diff.

Pipe Specification

.5

STATIC HEAD DUE TO

ELEVATION DIFFERENCE

(WHERE APPLICABLE)

W.T.

0.500

0.365

0.216

0.154

0.350

0.469

Minimum Test Pressure @ Max. Elevation

Maximum Test Pressure @ Min. Elevation

1045 hrs

2000 hrs

9 hrs. 15 min

6-5-11

6-5/11

Size

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



62-4921 (Rev. 2/04) California Gas Transmission (Use in Accordance with Gas Standard A-34 and GO 112-D)

Sheet 1 of 3 PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Division/District Job Number Date Job Authorized Area 41474062-T2/3 5/27/11 Peninsula Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts STPR 41474062T2 - Hydrostatically test 36" tie-in piping, hydrostatic test piping and existing 34" and 36" L-101. Existing material listed; i.e. pipe, elbows, sleeves, are from the "Material of Record". (refer to DWG 414740062-T2/3, Sheet 7) T-2 - Hydrotest L-101 from MP 0.62 to MP 3.08, in San Jose and Santa Clara. Test 2 (Location B to C on Dwg. 414740062-T2/T3)) MAOP to be Established for this Piping by this Test Future Design Pressure PSIG 400 400 PSIG 17 Ft. Static Head Calculation Max, Elevation 8 0 Ft. For Water Min. Elevation 0.433 X Elev. Diff. = PSIG 17 Ft. Other (Specify) X Elev, Diff, = PSIG Pipe Spec, and % of SMYS Pressure to API or ASTM Grade Footage to Footage Verified At At Min. At Max. Give 90% Long Seam (ERW, DSAW, Seamless, Etc.) Be Tested In Field MAOP Test Press. Test Press SMYS 37.66 135' - 2" 22.15 43.20 API 5L, X-65, DSAW (Item#50) 75 1625 API 5L, GrB, SMLS 82 Tested with T-3 16.83 32.82 2139 (Item #53) 28.61 81 9.26 Tested with T-3 15.74 18.06 3888 API 5L, GrB, SMLS (Item #54) 42 Tested with T-3 8.81 14.98 17.18 4085 API 5L, GrB, SMLS (Item #55) API 5L, X-52, DSAW 11,065 M.O.R. 39.56 67.25 77.14 910 MAX. (Item#1) 310' M.O.R. 50.19 1219 29.52 57.57 API 5L, X-52, DSAW (Item#3) Test Fluid MINIMUM TEST DURATION 680 8 HOURS PSIG To Be Used - UNDER 30% SMYS (1 HR, MINIMUM) - 30% SMYS & OVER (8 HRS, MINIMUM) WATER 780 PSIG - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) Approved By Redacted Date For Information or Channes, Call Da 9/1 Redacted 11 05/27/11 TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST) Note: Minimum test pressure and duration are not to be changed without written approval. 777 Min. Required Test Max. Allowable Test Elevation at Test 8.0 FT Press, At Test Point (1)**684 PSIG** Press at Test Point (4) PSIG Point Min. Indicated 752 Max. Indicated Max. Elevation in 910 17 FT (2)**710 PSIG** Test Pressure (5)PSIG Test Pressure Test Section PSIG Min. Test Pressure 756 Min. Elevation in Max, Test Pressure 706 PSIG PSIG 0 FT at Max. Elevation (3)at Min, Elevation Test Section Pipe Specification and Footage Verified (See Part I) Above Make, Range, and Serial No. of Pressure Recording Gauge CPL 17030-1000 PSI Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated Date Last Calibrated 5-2-11 Ametek s/n 2845 0.3500 PSI 11-29-10 Approved By: Date: Date: Redacted . (1-1) PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH

NOTES:

Add the static head due to elevation difference (between test point and maximum elevation) to (1) "minimum test pressure at maximum elevation" from PART I.

Use lowest pressure on test gauge at any time during test.

Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure.

(4) Subtract static head due to elevation difference (between test point and minimum elevation) from

"maximum test pressure at minimum elevation" from PART I. Highest pressure on test gauge at any time during test.

Add static head due to elevation difference (between test point and minimum elevation) to maximum (6) indicated test pressure.

A dead weight tester is only required when testing to a pressure which produces a stress level of 90% (7) of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the space provided above

DISTRIBUTION JOB FILE (AT SPONSORING ORGANIZATION)

GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT

PROJECT MANAGER/PROJECT ENGINEER

TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY

CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)

RECORDS SECTION (WC), GMS&TS

REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

inally sugged an 6-8-11 (2) ORIGNAL SIGNED 6-5-11

SB GT&S 0482594

OK



Gas Pipeline Facilities Strength Test Pressure Report

	(Use

Feeder Main Number, Line Number, or Station Name Area Division/District										Date Job Authorized			
101	F F R 3 (1) 4	0.0		1	Penins	sula			41474062-T	2/3	5/27/11		
PR 41	474062T2 1eeves, ar	- Hydrosta - from the	tically test Material of	and Pipeline M 36" tie-in p <u>f Record". (</u>	iping, hydro <u>refer to DV</u>	ostatic test pij VG 41474006	ping and exist 32-T2/3,Sheet	ing 34" and 3 7).	36" L-101. E	xisting mate	erial listed; i.e.	. pipe,	
-2 - Hy	drotest L-1	01 from MF	9 0.62 to M	IP 3.08, in	San Jose a	nd Santa Cla	ira, Test 2 (Lo	ocation B to	C on Dwg. 4	14740062-	T2/T3))		
cation Clas	is C	Vesign Factor (F) 5	MAOP	to be Establish	ed for this Pipin	g by this Test 400	PSIG Future D	lesign Pressure				400 psig	
STA ELEV	TIC HEAD DU	E TO RENCE	Max. Elevatio	on <u>1</u> on (7 Ft.) Ft.	Static Head Calci For Water	ulation	0,433 X Ele	v. Diff. =	8	PSI	G	
(WH	ERE APPLICA	BLE)	Elev. Diff.	1	7 Ft.	Other (Specify)		XE	ev. Diff. =		PSI	G	
		Pipe Sp	ecification				Pipe Sp	ec, and		% of SMYS	-	Pressure to	
0.D.	zə I W.T.	Long	API or A Seam (ERW, 1	STM Grade DSAW, Seamle	ss, Etc.)	Footage to Be Tested	Footage	Verified	At MAOP	At Min. Test Press.	At Max. Test Press.	Give 90% SMYS	
14 00	0.500	API51	(-52 DSA)	N	(Item #6)	2'	M.C).R.	26.15	44.46	51.00	1377	
34.00	0.375	API 5L.)	(-46. DSA)	N	(Item#10)	225'	M.C).R.	39.42	67.01	76.87	913	
6.00	0.422	API 5L, >	(-52, DSA)	N	(Item #4)	520'	M.C).R.	32.81	55.78	63,98	1097	
4.00	0.344	API 5L, >	(-52, DSA)	N	(Item #7)	324'	M.C	D.R.	38.01	64.62	74.13	947	
4.00	0.437	API 5L, >	(-52, DSA)	N	(Item #8)	19'	M.C).R.	29.89	50.81	58.29	1205	
6.00	0.375	Elbow, Y	-52		(Item #14)	7 Ea.	M.C).R.	36.92	62.77	72.00	975	
36.00	UNK	Elbow, U	Inknown G	Grade	(ltem#15)	3 Ea.	M.C).R.	n	ar .	i ii	*	
36.00	0.625	Elbow, Y	-52		(Item#20)	4 Ea.	M.C	D.R.	22.15	37.66	43.20	1625	
36.00	UNK	ELECTIC SLEEPE	Inknown C	Grade	(ltem#30)	1 Ea.	M.C	D.R.					
		34											
nimum Te	est Pressure	@ Max. Eleva	ition		680	PSIG	Test Fluid To Be Used	MINIMUM T - UNDER 30%	EST DURAT SMYS (1 HR. MI	<u>ION</u> NIMUM)		8 HOURS	
avimum T	est Pressure	@ Min_Eleva	tion		780	PSIG	WATER	- 30% SMYS & C	OVER (8 HRS. MIN ATION TEST (SE	NIMUM) EE ATTACHMEN	IT 'A', GAS STD. A	-34)	
epared By:	Gott Toobdite	Within LINI		Date:	E	r Information or Cl	hanges, Call:		Approved By:	1811		pale: (3)	
ark A. (Cabral			05/27/11	R	edacted			- 10	I UN		11/11	
RT II - TE	ST DATA (TO	BE PREPARED	BY PERSON	SUPERVISING	TEST AT TIME	OF TEST)		Note: Minimu witho	im test pressure a put written approv	and duration are al.	not to be changed		
ne and Dal	0	1045 hrs	<u>.</u>	Elev	ation at Test		Min. Require	ed Test	<u> </u>	Max. Allo	wable Test	777	
ached		2000 hrs		Poin	<u>t</u>	8 FT	Press. At Te	est Point (1)	684 PSK	3 Press at	at Test Point (4) PSIG		
ne and Dal st Ended	6	6-5-11		Max Test	. Elevation in Section	17 FT	Min. Indicat Test Pressu	ed re (2)	710 PSI	3 Max. Indi Test Pres	caled sure (5) 752 () PSIG	
ual Duratio	on :	9 hrs. 15	i min	Min.	Elevation in	0.57	Min. Test Pi	essure	700 000	Max. Tes	Pressure	756	
est at Fluid Us	ed		<u></u>	1051	Section	Pip	e Specification and	Foolage Verified	(See Part I)	⊐ at Min. Ei	evation (b) Pold	
ater					Louis 17	Al	ove	0.1111-10	3141-1-11-7-11-7	m	1 5 4	CA.R. L.I	
ke, Range PL 1703	, and Serial No 9-1000 F	SV	eoording Gauge	3	5-2-11	Salibrated	Ametek s/n 2	Serial No. of Deal	D Weight Tester (PSI	See Note /)	Date 11-2	29-10	
t SuperVie	ed By	(UL	-12		8-11	-11	Approved By: C	Joil 1	anni	· 8-	4-11 Dat	a	
OW LOCA	ATIC PIPING TION OF FAC ERENCE NUM	SKETCH ON BA ILITY TESTED, BERS ON FAC	ACK OF THIS S MINIMUM ANI E OF ALL DRA	<u>Sheet</u> D Maximum Ei Wings and A	LEVATION IN F	EET, MILE POINT). FOR STATION	S, VALVE NUMBE	RS AND INCORP	ORATED AREAS SHORT SECTION	3. USE AN ADD NS OF PIPE, AL	ITIONAL SHEET IF SO SHOW A DET/	NECESSARY AILED SKETCH	
EACH AS	SEMBLY TES	TED.		· · · · · · · · · · · · · · · · · · ·			DIS			TATION	<u> </u>		
Add the "minimu	static nead du m test pressur	e to elevation of e at maximum e	nerence (betwe levation* from F	en test point al PART I.	io maximum ele	valion) to	JOB	FILE (AI SPUNS	URING URGANI	ZATION			
Use low Subtract	est pressure or static head du) test gauge at a e to elevation d	any time during ifference (betwi	test. een test point a	nd maximum el	evation) from	GSM	I&TS RESPONSI	BLE DISTRICT S	UPERINTENDE	NT		
ารก็เกิดอาก	n indicated test	pressure.	Harappa fatur	pan foot notes	nd minimum els	wation) from	PRO	JECT MANAGER	/PROJECT ENG	INEER			
C. Line	static nead du im test pressui	e io elevation d e at minimum e	levation" from F	sen test point a PART I.	ANT TOTAL BUDGET GIE	wanon/ non	TEC	HNICAL & CONS	TRUCTION SER	VICES - ASSIGN	NED JOBS ONLY		
Subtract	pressure on te ic head due to	st gauge at any elevation differe	time during tes ince (between f	t. lest point and m	nimum elevatio	on) to maximum	CAP	TAL ACCOUNTI	NG (FOREMAN'S	COPY OF JOB)		
Subtract "maximu Highest Add stat	I fact proceura		han Insting to		h produces a -1	race loval aconer	DEC	OPDS SECTION	MIC) Chicoto		•,		
Subtract "maximu Highest Add stat Indicated	unlaht tootoo !-	only required W	nen resund to s	a pressure will Te used on any	n produces a St fect enter the l	nformation in the	NEU	SUDO OCOTION	MUCH ONIORIO	a national and county in the spectrum	TRUNCTION PRESENTATION	0	
Subtract "maximu Highest Add stat Indicated A dead v of SMYS	veight tester is i or greater. H avided above	owever, if a dea	ia weight tester	io doos on onj			M-14	ORT FAILURES I	INDER TEST TO) GAS ENLANEE	LUNG W LI MINIMUM	6	
Subtract "maximu Highest Add stat indicated A dead v of SMYS space pr	veight tester is or greater. H ovided above.	owever, if a dea	a weight tester	,	1	5-8-1.	12.	ORT FAILURES L	JNDER TEST TO	GAS ENGINE	C.II	<u>G</u> .	
Subtract "maximu Highest Add stat indicated A dead v of SMYS space pr	veight tester is i or greater. H ovided above.	owever, if a dea	a weight tester	peil	ion C	6-8-1.	1 OOR	iginn	INDERTEST TO	ved G	5-5-11	<u>G</u> :	



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

$\langle \rangle$
(COPY)

California Gas Transmission (Use In Accordance with Gas Standard A-34 and GO 112-D)

											S	heet	30f	3
PART I - I	DESIGNE	ATA (TO B	E PREPARED BY	PROJECTE	NGINEEF	{ }								
Feeder Main N	Number, Line N	lumber, or Stati	ion Name Area		Division/Di	istrict				Job Num	ber		Date Job Authoriz	ed
L-101	Job Jooluda	Pafaranao Dra	wing Numbers and P	neline Milenos	Penins	ula				414/4	062-12/3		5/27/11	
STPR 414	174062T2	- Hydrosta	tically test 36" t	e-in piping	g, hydro	static test	piping	and existi	ing 34" an	d 36" L-1	01. Existi	ng mate	rial listed; i.e	. pipe,
elbows, sl	eeves, are	e from the *	Material of Rec	ord". (refe	er to DW	/G 41474()062-T	2/3,Sheet	7).		·····		s. 	No. 1997
T-2 - Hyd	irotest L-1	01 from MF	^o 0.62 to MP 3.	08, in San	Jose a	nd Santa (Clara.	Test 2 (Lo	ocation B t	o C on D	wg. 4147	40062-1	⁻ 2/T3))	
Location Class	s D	esign Factor (F)	MAOP to be I	stablished for	this Piping	by this Test		Future D	esign Pressur	8				
3		5	L	<u></u>		400	PSK	S				<u></u>		400 PSIG
STAT	FIC HEAD DUI	ЕТО	Max. Elevation	17	Ft.	Static Head C	Calculation	'n				i Sec.		
ĘLEVA	TION DIFFER	RENCE	Min. Elevation	0	Ft.	For Water	ę		0.433 X	Elev. Diff. =		8	PS	IG
(WHE	ERE APPLICA	BLE)	Elev. Diff.	17	Ft.	Olher (Specif	y)		<u> </u>	Elev. Diff. =	i		PS	IG
Qiz	0	Pipe Sp I	APLor ASTM (irada		Foofac	e to	Pipe Sp Footage	ec, and Verified	At	%(of SMYS	At Max	- Pressure to Cive 90%
0.D,	W.T.	Long	Seam (ERW, DSAW	Seamless, Et	ic.)	Be Te	sted	In F	ield	MAOI	> Te	st Press.	Test Press.	SMYS
36.00	0.375	Sleeve,Y	-60,GrE	(lte	em#29)	1E:	a.	M.C).R.	32.0	0 8	54.40	62.40	1125
34.00	0.406	Elbow, U	Inknown Grad	e (lte	m#17)	1E:	a	M.C).R.	Ħ		.	*	1
34.00	0.06905	^{PR} Elbow, U	Inknown Grad	e (lte	m#19)	2E	a. 🛛	M.C).R.			*	æ.	
34.00	0.500	Elbow, U	Inknown Grad	ə (lte	m#18)	1Ei	a.	M.C).R.		-	- 18 .)		
34.00	0.375	Elbow, Y	-52	(Ite	m#16)		a.	M.C).R.	34.8	7 {	59.28	68.00	1032
34.00	0,375	EIDOW, U	Jaknown Grad	ਡ (µe ਹਾਟ	patti ZAY	1 26	9.	Me	18.1			1		1-
	[**************************************	and the second	<u></u>				<u>.</u>			<u> </u>	
			١.									<u> </u>	and a state of the second s	
				·····		an the state of					1		and the second	<u>.</u>
	- +- -									<u></u>			and the second second	<u>.</u>
									to start					
													1	
		2		<i>.</i>		1		-				4 	<u> </u>	1
Minimum Te	st Pressure	@ Max. Eleva	ation		680	PSIG	To B	FIUICI e Used	- UNDER 30	/ <u> ES D </u>)% SMYS (1	<u>URATION</u> HR. MINIMU	M)		8 HOURS
		the latest and			700	2010	WA	TER	- 30% SMYS	& OVER (8)	IRS, MINIMUN	4)		O
Maximum Te Prepared Bv:	est Pressure	@ Min. Eleva	ation Date:		100 Ea	PSIG	r Channe	s Call	- PREINSTA	ALLATION TH Approv	ed By,		T 'A', GAS STD. J	A-34) Date:
Mark A. C	abral		05/2	7/11	Re	edacted					<u>Mu</u>	10h,	1	9/7/11
PART II - TES	T DATA (TO	BE PREPARED	BY PERSON SUPER	VISING TES	T AT TIME	OF TEST)			Note: Min	imum test pr	essure and d	uration are	not to be changed	
											r approvar.			
Time and Date Test Pressure	2	1045 hrs	k.	Elevation	at Test			Min. Require	ed Test			Max. Alloy	vable Test	777
Reached		2000 bro	· · · · · · · · · · · · · · · · · · ·	Point			FT	Press. At Te	At Test Point (1)		684 PSIG Press at		Test Point (4) PS	
ime and Date	3	6-5-11	»	Max. Elevation in Text Section		17 FT		Min. Indicated Test Pressure		(2) 74	2) 710 PSIG T		ated sure //	5) 752 PSIG
Actual Duration	<u></u>	9 hrs. 15	šmin.	Min Elaw	ation in			Min, Test Pr	essure	<u>ver ((</u>)		May Tool	Proceilito	756
of Test	<u>ц.</u>	<u>l</u> :		Test Secti	on	<u> </u>	FT	at Max. Elev	ation	(3) 70	6 PSIG	at Min. Ele	valion ((S) PSIG
lest Fluid Use Mater	ed.						Hipe Spe Above	ecitication and	⊢ootage Verif	ed (See Par	EI)			
Make, Range,	and Serial No	of Pressure R	scording Gauge		ate Last C	alibrated	Make	, Range, and	Serial No. of C	ead Weight	Tester (See I	Vote 7)	Date	Last Calibrated
CPL 0-10	WYPSI/	$ \downarrow \downarrow \downarrow$	- 2	5)-2-11 Data		Am	etek s/n 2	845 0-35	UD PSI	<u>ः</u> जन्म	in a star star star Anna a star star star star star star star s	11-	29-10
	IS	UL.		Ð		. 11		en ver helfen:	Gel	ATA	MMI	8-	9-1KV)	χ
UT SCHEMA	TIC PIPING S	KEACH ON BA	ACK OF THIS SHEET	MIM ELEVA			INTS VA			REORATED	AREAS LIG		TIONAL SHEET I	ENECESSARY
SHOW REFE	RENCE NUM	BERS ON FACI	E OF ALL DRAWING	SAND ATTAC	HMENTS)	FOR STATI	ON PIPIN	G, FABRICAT	ED UNITS AN	ID SHORT S	ECTIONS O	F PIPE, ALS	SO SHOW A DET	AILED SKETCH
IOTES:	DEMBLY TEST	IED.		<u> </u>				DIST	RIBUTION		<u></u>	12		
() Add the s	tatic head due	e to elevation di	fference (between tes	point and ma	ximum elev	vation) to		JOB	FILE (AT SPC	NSORING C	RGANIZATI	ON) (S	Original	Signed
) Use lowe	st pressure on	, acconaximum el 1 test gauge at a	any time during test.	i a Anati a	41.44	مريد مر		GSM	&TS RESPON	ISIBLE DIST	RICT SUPER	RINTENDEN	r on t	5128/11
Subtract : minimum	static head du Indicated test	e to elevation di pressure.	itterence (between tes	t point and ma	eximum ele	vation) from		PRÔ.	JECT MANAG	ER/PROJEC	T ENGINEE	R		
 Subtract : "maximum 	static head du	e to elevation di	ifference (between fes levation" from PART I	t point and mi	inimum elev	vation) from		PAT	INICAL & CO	NSTRUCTIO	N SERVICE	- ASSIGN	FD JOBS ONLY	
5) Highest p	ressure on tes	st gauge at any	time during lest.	al mark and a		at the marit	M .	272	TAL ADDOL	en and de la	-1.9-11119999 F1111-007	werten		
 Add static indicated 	c nead due to test pressure.	elevation differe	ence (between test po	ni an o m inimu	n elevatió	ny to maximur	11	UAPI	TAL AUCOUN	annig (FURI	EMAN'S COF	i Ur JOB)		
7) A dead w of SMYS	eight tester is or greater. Ho	only required w	hen testing to a press d weight tester is use	ure which proi I on any test.	duces a str enter the in	ess level of 90 formation in th)% he	REC	URDS SECTIO	on (WC), GN	MS&TS			
space pro	wided above.		- A		01			REPO	ORT FAILURE	SUNDERT	EST TO GAS	ENGINEE	RING & PLANNIN	G
(1),	ralde h	mel I	GNED &	20-	8-11	1	2) A	Deland	MAL.	SIC.	Nen	6-4	5-11	



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 Con Transville

California Gas Transmissio
(Use In Accordance with Gas Standard A-34 and GO 112-D

			Ų		,					-	Sheet_	1of_	2
PART I -	DESIGN	DATA (TO BI	PREPARED	BY PROJECT ENGINEE	R)					and the second	<u>-</u>	4, 7:	
Feeder Main I	Number, Line	Number, or Stati	on Name Ar	ea Division/I	District				Job	Number		Date Job Authoriz	ed
L-101			1	Penin	sula		54 F -		41	474062-T	2/3	5/27/11	
STPR #4	1474062T 1473062T ws. sleeve	3 - Hydrosta s. are from	tically test at the "Materi	d Pipeline Mileposts 36" tie-in piping, hyd al of Record". (refer	rostatic to DWG	test pipir 414740	ng and exis 1062-T2/3,9	sting 30" , Sheet 7).	, 34" ai	nd 36" L-1	01. Existir	ng material lis	ted; ie.
T-3 - Hyc	frotest L-1	01 from MF	3.08 to MP	4.66, in Santa Clara	a. (Loca	tion B to	A on Dwg	ı. 414740	062-T	2/T3)			ž. st
Location Clas	s F	Design Factor (F) 5	MAOP to	be Established for this Pipin	g by this Te 4	st 00 PSI	G Füture D	esign Pressu	ITË		ala an a taon instantia and		400 PSIG
STA	TIC HEAD DU	e to	Max. Elevation	8 Ft.	Static Hea	d Calculatio	m	nah, stala in s		*	,i	40	in l
ELEVA	ATION DIFFER	RENCE	Min. Elevation	FL	For Water		<u>المنظمة</u>	0.433 X	(Elev. Di	l. =		PS	IG
(WHI	ERE APPLICA	BLE)	Elev, Diff.	8 Ft.	Other (Spi	ecify)		13	X Elev. D	iff. =	N. YOTAIA	PS	IG
		Pipe Sp	ADL or AST	M Crodo	-	tono to	Pipe Sp Footsoo	ec. and Vorified		Ał	% of SMYS	1 At Mov	Pressure to
0.D,	W.T.	Long	Seam (ERW, DS	W Grade AW, Seamless, Etc.)	Be	Tested	In F	ield	N	AOP	Test Press.	Test Press.	SMYS
36.00	0 500	ADI SI Y	65 DSAM	(Itom#50)	70	4 1/."	20-1	160	2	2 1 5	37.66	/3 20	1625
30.00	0.500	ADISL X	-60 STR-	(item#13)	15	04.51	15ml	-1	2		34.00	30.00	1800
36.00	0.000	ADISI V	-00, 000	(itom #4)	6	1221	6101	5	2	9.56	67.00	77 4 /	010
00.00	0.000	API JL, A	52 DOAW	(item#1)		107'	0106	<u>/s</u>	0	1.65	52 00	64.70	1420
30.00	0.43/3	API JL, X	OL DOAW	(item#2)	1 2	au ai	217	 	1 3	0.47	24.00	01./0	1100
34.00	0.002	API JL, X	AC DOAW	(item#11)		101	110			0.11	04.20	70 07	042
34.00	0.375	API SL, X	-40, USAW	(Item#10)	4	19	414			7.70	17.00	10.01	813
36.00	0.432	API 5L, X	-60, DSAW	(item#5)		(.5)	7.5		4	1.18	41.22	54.17	1296
34.00	0.4375	API 5L, X	-52, DSAW	(Item#8)		54'	64.		2	9.89	50.81	58.29	1205
10.75	0.365	API 5L, G	rB, SMLS	(Item #53)		10'	10		1	5.83	28.61	32.82	2139
3.500	0.216	API 5L, G	rB, SMLS	(ltem #54)	'	10'	10'		5	.26	15.74	18.06	3888
2.4.375	0.154	API 5L, G	rB, SMLS	(ltem #55)	JE .	18'10	10'		3	.81	14.98	17.18	4085
Minimum Te	st Pressure	@ Max. Eleva	lon	680	PSIG	Tes To B W/	t Fluid le Used ATER	- UNDER 3	<u>M TES</u> 0% SMY S & OVER	<u>F DURATIO</u> S (1 HR. MINI . (8 HRS. MINI	<u>NC</u> MUM) MUM		8 HOURS
Maximum Te	est Pressure	@ Min. Eleva	ion	780	PSIG	357	The A.	- PREINST	ALLATIC	N TEST (SEE	AFTACHME	IT 'A', GAS STD. A	-34)
Prepared By: Mark Cab	ral		Da Ot	te: Fo 5/27/11 Re	r Informatio dacted	n or Change	es, Call:		Ap	proved By:	1 May 1	9	Date: 3
PART II - TES	T DATA (TO I	BE PREPARED	BY PERSON SU	PERVISING TEST AT TIME	OF TEST)		n	Note: Mir	nimum te without w	st pressure ar ritten approva	d duration are l.	not to be changed	
Time and Date Test Pressure Reached	€.	6-7-11 1245 am	751 PSI	Elevation at Test Point		8-FT	Min. Require Press. At Te	d Test st Point	(1)	680 PSIG	Max. Allo Press at	wable Test Fest Point (4	777) PSIG
Time and Date)	6-7-11 900 am	702 PSI	Max. Elevation in		8 FT	Min. Indicate	d	(2)	702 PSIG	Max. Indi Test Pres	cated	751 <
Actual Duratio	n	8 hrs. 15	min	Min. Elevation in	011	Min. Test Pressure			702 1010	Max. Tes	t Pressure	754	
Of Lest Test Fluid Liee	d		-	test Section		UPI Pine So	at Max, Elevi actification and l	auon Footade Verii	(3) fied (See	Part ()	at Min, El	evation (6) 1516
Water					N ₁	Above) IS		وتنما مرا	and the second			
Make, Range, CPL 1703	and Serial No. 0-1090, F	of Pressure Re	cording Gauge	Date Last C 5-2-11	alibrated	Make Am	e, Range, and S etek 0-350	Serial No. of I 00 PSI 28	Dead We 345	ight Tester (S	ee Note 7)	Date 11-2	Last Calibrated 29-10
Test Supervise	LA L)	20	Date: 8 -	11-11	Appr	oved By:	In	1a	nio.	8-4		91
PUT SCHEMA SHOW LOCAT (SHOW REFE	TIC PIPINGS	KETCH ON BA LITY TESTED, I BERS ON FACE	CK OF THIS SHI MINIMUM AND M OF ALL DRAWII	ET AXIMUM ELEVATION IN FI NGS AND ATTACHMENTS)	EET, MILE I FOR STA	POINTS, V/ TION PIPIN	ALVE NUMBER	IS AND INCO	ORPORA ND SHOP	TED AREAS.	USE AN ADD S OF PIPE, AL	ITIONAL SHEET IF SO SHOW A DETA	NECESSARY
NOTES: (1) Add the s	tatic head due	to elevation diff	erence (between	test point and maximum ele	vation) to		DIST JOB F	RIBUTION	ONSORIN	IG ORGANIZ	ATION)		
"minimum (2) Use lowe	n test pressure st pressure on	at maximum ele test gauge at a	vation" from PAF iv time during tes	RT La della del La della d			GSM	ATS RESPON	NSIBLE [DISTRICT SUI	PERINTENDE	NT	
(3) Subtract i minimum	static head due indicated test	e to elevation dif pressure.	erence (between	test point and maximum ele	ivation) from	n	PROJ	IECT MANAG	GER/PRC	JECT ENGIN	EER		
(4) Subtract s "maximur	static nead due n test pressure	a to elevation dif at minimum ele	vation" from PAF	test point and minimum ele IT 1.	valion) from	i	TECH	INICAL & CO	NSTRUC	TION SERVI	CES - ASSIGN	NED JOBS ONLY	
(6) Add static	head due to t test presource	, gauge at any t elevation differen	ce (between test	point and minimum elevatio	n) to maxim	ักม	CAPIT	FAL ACCOU	nting (F	OREMAN'S (OPY OF JOB)	
(7) A dead w of SMYS	eight tester is or greater. Ho	only required wh wever, if a deac	en testing to a pr weight tester is i	essure which produces a str ised on any test, enter the ir	ess level of formation i	90% n the	RECO	RDS SECTI	ON (WC)	, GMS&TS			νψ [*] ·
space pro	ivided above.	<u>n</u>			<u>.</u>		REPC	ORT FAILURE	ES UNDE	R TEST TO (GAS ENGINEE	RING & PLANNING	<u>3</u>
W or	NGA	al sig	N. M.	6-8-11 (YOR	licyin	m s	ign	е٥	6-7-	11		



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



62-4921 (Rev. 2/04) California Gas Transmission (Use in Accordance with Gas Standard A-34 and GO 112-D)

PART I - D Feeder Main No								- Notana	Potenting of the second second		the second se	the second	6
Feeder Main Ni	DESIGNL	DATA (TO BI	E PREPARED BY	PROJEC	TENGINEER	9							
1.404	umber, Line I	Number, or Stati	on Name Area		Division/Di Romine	strict				Job Number	70/2	Date Job Authorize	ed
L-101 Description of J	Job Include	Reference Drav	wing Numbers, and	Pipeline Mil	eposts	uia		<u></u>	4 10 E	414/4002	12/3	9/2/111	<u>nime i di la </u>
STPR 414	74062T3	- Hydrosta	tically test 36"	' tie-in pi	ping, hydro	static test p	biping and	existin	g 30" , 34	" and 36" L	101. Existin	g material liste	ed; ie. pipe,
elbows, sle	eves, are	e trom the "	Material of Re	cord". (r	eter to DW	<u>G 414/400</u>	62-12/3,8	sheet /)	<u> </u>	han shinain ili			
T-3- Hyd	Irotest L-1	101 from Mi	P 3.08 to MP 4	4.66, in §	Santa Clara	a. Test 3 (L	ocation B	to A on	1 Dwg. 41	4740062-T2	2/T3)	<u></u>	
Location Class		esign Factor (F) 5	MAOP to be	Establisher	d for this Piping	by this Test 400	PSIG	uture Desi	gn Pressure				400 PSIG
STATI		- 10	Max Elevation	8	Ft.	Static Head Calr	rulation				1.15,1		100 1010
FFFVAT	TION DIFFER	ENCE	Min. Flevation	0	Ft.	For Water	Juilloon		0 433 X Fk	ev⊳Diff.≕	14	4.0 _{PSI}	IG
WHE		BIF)	Elev. Diff.	8	Ft.	Other (Specify)				lev. Diff. =		PSI	IG
		Pipe Sp	ecification				T	Pipe Spec.	and		% of SMYS		Pressure to
O.D.	W.T.	Long	API or ASTM Seam (ERW, DSAV	Grade V. Seamless	s, Etc.)	Footage t Be Tester	o F d	ootage Ve In Field	rified	At MAOP	At Min. Test Press.	At Max. Test Press.	Give 90% SMYS
36.00	0.375	Elbow, Y	-52	1	(Item#14)	6 Ea.				36.92	62.77	72.00	975
30.00	0.500	Elbow, Y	-60	(Item#22)	14 Ea.		-,		20.00	34.00	39.00	1800
34.00	UNK	Sleeve, U	Inknown Grad	de (ltem#31)	1 Ea.				8	*	III -	-
36000	0.375	Elbow, U	nknown Grac	le (Item#24)	4 Ea.					<u> </u>	<u>.</u>	
36.00	UNK 0.500	Sleeve, L	Inknown Grad	ae (Io	(Itom#30)	<u>ZEa.</u>				*	· · ·	•	
34.00	0.000	LIDUW, U	akirown Gidu	10	(115111723			0.00(.4)1		10	<u> </u>		1
						<u>.</u>	<u> </u>	<u></u>					1
										nya			
						[
Minimum Tes'	t Pressure /	@ Max Eleva	fion		680	PSIG	Test Fluid		MNIMUM 7 UNDER 30%	FEST DURAT SMYS (1 HR. M	<u>10N</u> INIMUM		8 HOURS
11011010101111000	critocouro (MW()		700		WATER		30% SMYS &	OVER (8 HRS. M	NIMUM)		
Maximum Tes Prepared By:	st Pressure	@ Min. Eleva	tion Date:		180 For	PSIG Information or C	hanges Call		PREINSTALL	ATION TEST (S	EE ATTACHMEN	IT 'A', GAS STD. A	34) Date:
Mark Cabra	al		05/2	27/11	Re	dacted				. Thi	1 Cless	G	17/11
PART II - TEST	DATA (TO E	E PREPARED	BY PERSON SUPE	RVISING T	EST AT TIME (OF TEST)			Note: Minimi with	um test pressure	and duration are	not to be changed	
		10344	764 001										
Time and Date		0-1-11	701 851	Elevat	ion at Test		Min.	Required T	est	000.00	Max. Allo	wable Test	777
Time and Date Test Pressure		1245 am			an se ar de la contra a	0.07	and the second se	AL LEST P) DOU POI	G Press at 1	est Point 14	4 6 123167
Time and Date Test Pressure Reached		1245 am 6-7-11	702 PSI	Point	Harran I. A.	8 FT	Pres	ndiastad			Mox India		751
Time and Date Test Pressure Reached Time and Date Test Ended		1245 am 6-7-11 900 am	702 PSI	Point Max, E Test S	levation in ection	8 FT 8 FT	Presi Min. Test	ndicated Pressure	(2) 702 PSI	Max. Indic G Test Pres	caled sure (5)	, 751 ≪) PSIG ≪
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration	-	1245 am 6-7-11 900 am 8 hrs. 15	702 PSI min	Point Max, E Test S Min, El	levation in ection	8 FT	Min. Test	ndicated Pressure Test Press	(2 ure) 702 PSI	G Max. Indic G Test Pres Max. Test	cated sure (5) Pressure) 751 PSIG < 754 PSIC
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used	7	1245 am 6-7-11 900 am 8 hrs. 15	702 PSI min	Point Max, E Test S Min, El Test S	levation in ection levation in ection	8 FT 8 FT 0 FT	Min. Test Min. at Ma De Specificatio	ndicated Pressure Test Pressi x. Elevatio in and Foo	(2 ure n (3) tage Verified) 702 PSI 702 PSI (See Part I)	G Max. Indic Test Press Max. Test G at Min. Ele	sated sure (5) Pressure evalion (6)	751 751 9 754 9 8 9 8 9 8 9 8 9
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water	nd Qadal Na	1245 am 6-7-11 900 am 8 hrs. 15	702 PSI	Point Max. E Test S Min. E Test S	Elevation in ection levation in ection	8 FT 8 FT 0 FT Pip At	Min. Test Min. at Ma be Specificatio	ndicated Pressure Test Pressi X. Elevatio In and Foo	(2 ure n (3) tage Verified) 702 PSI 702 PSI (See Part I)	G Max. Indic Test Press Max. Test G at Min. Ele	sated sure (5) Pressure evation (6)) 751 < PSIG < 754 PSIG →
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703	nd Serial No.	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Re	702 PSI min gording Gauge	Point Max, E Test S Min, El Test S	Elevation in ection levation in ection Date Last Ca 5-2-11	8 FT 8 FT 0 FT Pip At	Min. Test Min. at Ma be Specification DOVE Make, Rang Ametek	ndicated Pressure Test Pressu X. Elevatio In and Foo 9, and Seri 0-3500	(2 n (3) tage Verified al No. of Dea PSI 2845) 702 PSI 702 PSI (See Part I) d Weight Tester	G Max. Indic Test Press Max. Test G at Min. Ele (See Note 7)	vated sure (5 Pressure evation (6) Date L 11-2	751 PSIG < 754 PSIG .ast Calibrated 9-10
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised	nd Serial No. 9 1009 P By:	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Re	702 PSI min pording Gauge	Point Max, E Test S Min, E Test S	levation in ection levation in ection Date Last Ca 5-2-11 Date;	8 FT 8 FT 0 FT Pip At	Min. Test Min. at Ma be Specificatio DOVE Make, Rangu Ametek Approved By	ndicated Pressure Sest Pressure Evation on and Foo an and Serio 0-3500	(2 n (3) tage Verified at No. of Dea PSI 2845) 702 PSI 1 702 PSI (See Part I) d Weight Tester 5)	G Max. Indic Test Press Max. Test at Min. Ele (See Note 7)	Pressure evation (6) Date L 11-2	751 PSIG 754 PSIG
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised PUT SCHEMAT	nd Serial No. 9 1009 P By: C PIPING S	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Ro S	702 PSI min pording Gauge	Point Max. E Test S Min. El Test S	Elevation in ection levation in ection Date Last Ca 5-2-11 Bate; Bate; -//-	8 FT 0 FT Pip At Ibrated	Min. Test Min. at Ma De Specificatio DOVE Make, Rang Ametek Approved By	ndicated Pressure Test Pressure X. Elevatio In and Foo D, and Serio 0-3500	(2 n (3) tage Verified at No. of Dea PSI 2845) 702 PSI 702 PSI (See Part I) d Weight Tester 5)	G Max. Indic Test Pres: Max. Test at Min. Ele (See Note 7) S-4-1	vated sure (5) Pressure evation (6) Date L 11-2 U Date	751 751 PSIG < 754 PSIG 254 PSIG 2510 10 11 12 12 13 13 13 13 13 13 13 13 13 13
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised PUT SCHEMATI SHOW LOCATIC (SHOW REFERE	nd Serial No. 91009 By: C PIPING S ON OF FACIL ENCE NUMB	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Re SV KETCH ON BAC ITY TESTED, N ERS ON FACE	702 PSI min gording Gauge CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING	Point Max. E Test S Min. EL Test S	levation in levation in ection Date Last Ca 5-2-11 Bate: -//- VATION IN FEE ACHMENTS).	8 FT 8 FT 0 FT Pip At librated	Min. Test Min. at Ma De Specificatio DOVE Make, Rang Armetek Approved By S, VALVE NJ PIPING, FAB	ndicated Pressure Test Press X, Elevatio an and Foo an and Serio 0-3500	(2 ure n (3) tage Verified al No. of Dea PSI 2845 MICORP UNITS AND) 702 PSI 702 PSI (See Part I) d Weight Tester) 0 0 0 0 0 0 0 0 0 0 0 0 0	G Max. Indic Test Press Max. Test at Min. Ele (See Note 7) S. USE AN ADDI NS OF PIPE, ALS	rated sure (5) Pressure evation (6) Date L 11-2 Date U Date So SHOW A DETAI	751 PSIG 754 PSIG .ast Calibrated '9-10 NECESSARY ILED SKETCH
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised PUT SCHEMATI SHOW LOCATIO (SHOW REFERE OF EACH ASSE NOTFS:	nd Serial No. 971009 By: C PIPING S ON OF FACIL ENCE NUMB MBLY TEST	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Ro SV KETCH ON BAU JITY TESTED, N ERS ON FACE ED.	702 PSI min pording Gauge CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING	Point Max. E Test S Min. El Test S	Elevation in ection levation in ection Date Last Ca 5-2-11 Date: 3-2-11 VATION IN FEE ACHMENTS).	8 FT 0 FT Pip At librated T, MILE POINT FOR STATION	Min. Test Min. at Ma De Specificatio DOVE Make, Rang Ametek Approved By S, VALVE NJ PIPING, FAB	ndicated Pressure Test Pressure A Elevatio and Seri 0-3500 MBERS A RICATED	(2 ure n (3) tage Verified at No. of Dea PSI 2845 PSI 2845 MUNICORP UNITS AND BUILTION) 702 PSI (See Part I) d Weight Tester 5) MARE ORATED AREA SHORT SECTIO	G Max. Indic Test Press Max. Test at Min. Ele (See Note 7) S. USE AN ADDI NS OF PIPE, ALS	eated sure (5) Pressure evation (6) Date L 11-2 Date U Date TIONAL SHEET IF SO SHOW A DETAI	751 PSIG 754 PSIG .ast Calibrated '9-10 ''. NECESSARY ILED SKETCH
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised PUT SCHEMATI SHOW LOCATIC (SHOW REFERE OF EACH ASSE NOTES: (1) Add the sta	nd Serial No. 9 1009 By: C PIPING S ON OF FACIL ENCE NUME ENCE NUME MBLY TEST attc head due	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Re SV KETCH ON BAA ITY TESTED, N ERS ON FACE ED. to elevation diff	702 PSI min aording Gauge CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING erence (between tes	Point Max. E Test S Min. EL Test S	levation in ection levation in ection Date Last Ca 5-2-11 Bate: ///- VATION IN FEE ACHMENTS). maximum eleva	8 FT 0 FT Pip At librated FT, MILE POINT FOR STATION ation) to	Min. Test Min. at Ma De Specificatio DOVE Make, Rang Arnetek Approved By S, VALVE NJ PIPING, FAB	ndicated Pressure Test Pressure A and Serio O-3500 A and Serio O-3500 A and Serio O-3500 A and Serio D-3500 A and Serio D-35000 A and Serio D-3500 A and Serio D-3500 A and Serio D-3500	(2 ure n (3) tage Verified at No. of Dea PSI 2845 MIL ND INCORP UNITS AND 1 BUTION E (AT SPONS) 702 PSI 702 PSI (See Part I) d Weight Tester) d Weight Tester) 0 MATED AREA SHORT SECTIO	G Max. Indic Test Press Max. Test at Min. Ele (See Note 7) S. USE AN ADDI NS OF PIPE, ALS	rated sure (5) Pressure evation (6) Date L 11-2 U Date Intonal SHEET IF	751 PSIG 754 PSIG .ast Calibrated '9-10 '' NECESSARY ILED SKETCH
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Used Water Make, Range, ar CPL 1703 Test Supervised PUT SCHEMATI SHOW LOCATIC (SHOW REFERE OF EACH ASSE NOTES: (1) Add the sta "minimum tr (2) Use lowest	nd Serial No. 971000/P By: C PIPING S ON OF FACIL ENCE NUME EMBLY TEST attc head due lest pressure pressure on	1245 am 6-7-11 900 am 8 hrs. 15 of Pressure Re SI KETCH ON BAH ITY TESTED, N ERS ON FACE ED. to elevation diff at maximum ele test gauge at ar	702 PSI min pording Gauge CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING erence (between tes evation' from PART by time during test.	Point Max. E Test S Min. El Test S S MID TEST S MUM ELE S AND ATT st point and L	Ievation in ection levation in ection Date Last Ca 5-2-11 Date: -//- VATION IN FEE ACHMENTS). maximum eleva	8 FT 0 FT Pip All librated FT, MILE POINT FOR STATION ation) to	Min. Test Min. at Ma De Specificatio DOVE Make, Rang Ametek Approved By S, VALVE NJ PIPING, FAB	ndicated Pressure Fest Pressure A clevatio on and Foo on and Serie O-3500 O-3500 O-3500 O-3500 District JOB FILE GSM&TS	(2 ure n (3) tage Verified PSI 2845 MDINCORP UNITS AND UNITS AND BUTION E (AT SPONS RESPONSIO) 702 PSI (See Part I) d Weight Tester) ORATED AREA SHORT SECTIO	G Max. Indic Test Press Max. Test at Min. Ele (See Note 7) S. USE AN ADDI NS OF PIPE, ALS IZATION)	vated sure (5) Pressure evation (6) Date L 11-2 Date 11-2 Date TIONAL SHEET IF SO SHOW A DETAI	751 PSIG 754 SIG 251 251 251 251 251 251 251 251 251 251
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