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



PART I - I	DESIGN I	DATA (TO B	E PREPARED BY F	ROJECT ENGINEER	()										
Feeder Main N	lumber, Line	Number, or Stat	ion Name Area	Division/Di	istrict				Job	Number	Date Job Authorized				
Description of	SF	25 Deference Dre	utes Numbers, and Di	2 Diablo 9715461						May 2, 2011					
TEST 96A etc. are fro	a – Hydro a – Hydro om the "N	statically te laterial of R	st tie-in piping, i ecord" (refer to	iydrostatic test pi Dwg. 9715461, S	oing a heet i	ind existin 7)	g 24" SP-5	i. Existing	g pipel	line materia	al listed; i	ə. pipe, ell	oows, s	sleeves,	
Hydrotest	SP-5 fro	m MP 0.00	- 2.40 Antiocl	n, CA (Tes	t sect	ion 96A)	21 							ě	
Location Class Design Factor (F) MAOP to be 3.5				Established for this Piping by this Test Future Design Pressure 390 PSIG							600 PSIG			an a	
STATIC HEAD DUE TO Max. Elevation				57 Ft. Static Head Calculat			on					16			
ELEVATION DIFFERENCE Min. Elevation				Ft. For Water		0.433 X Elev. Diff. =			ff. =	10 PSIG				1	
(WHERE APPLICABLE) Elev. Diff. Pipe Specification				38 Ft. Other (Specify)		Pine Spec. and		X Elev. C	Elev. Diff. = % of SMVS		PSIG Pressur		Drocoura to		
Size United Specification Size United Specification Specif			API or ASTM G Seam (ERW, DSAW,	on PI or ASTM Grade ERW, DSAW, Seamless, Etc.)			Footage Verified In Field		At MAOP		At Min. Test Press.	At Max. s. Test Press.		Give 90% SMYS	nin a start a s
24.00	.00 .375 API 5L, GR X-60, D		GR X-60, DSAW	W (item#106)		59'	57.1		20.80		31.20 36.53		3	1688	
24.00	.3125	3125 API 5L, GrX-42, DSAW		(item #1)	(item #1) 12,717'		12,711.0		35.66		53.49	62.63	3	984	1. 1. 1.
24.00	.375 Ell, Forged, Gr.B		ed, Gr.B	(item #4)	(item #4) 13 ea.		M.O.R.		35.66 53.49		53.49	62.63		984	PAK.
24.00	.375	Sleeve, 1	уре В, Х-52	(item #9) 1 e		1 ea	M.O.R.		2	24.00 36.00		42.15		1463	
4.50	.156	API 5L, C	Gr X-42, ERW	(item #11&12)	<u> </u>	4'	M.O.R.		1	13.39 20.09		23.52	2	2621	
4.50	.237	API 5L, C	Gr.B, SMLS (it	tem #11 & # 12)	<u> </u>	2'	M.C).R.	1	0.58	15.87	18.58	}	3318	1
3.50	.156	API 5L, C	Sr X-42, ERW	(îtem #10)		2'	M.C).R.		0.42	15.63	18.30)	3370	1
3.50	.216	API 5L, C	Fr.B, SMLS	(item #10)		1' 1 Tee	M.C	ALK.	L E		13.54	15.80	<u> </u>	3888	
Minimum Te	st Pressure	@ Max. Eleva	ition	585	PSIG	3IG To Be Used - UNDER 3 WATER - 30% SMY			1 TEST DUKA HUN 3% SMYS (1 HR. MINIMUM) 3& OVER (8 HRS. MINIMUM)			8 HOURS			
Maximum Te	st Pressure	@ Min. Eleva	ition	685	- PREINSTALLATION TEST (SEE ATTACHME				ATTACHMEN	NT 'A', GAS STD. A-34)					
Prepare By:	<u> </u>	5	Date: 04/14	111 AN Re	Informa	tion or Change	es, Call:	·	A	Redacted		-	listi	Date: (4)	
	T DATA (TO)		BY DERGON SI DER		DE TES	n		Note: Mir	nimum to	et pressure and	duration are	pot to be cha	(* 1 naed		ł
Dan Daws	ion			VIDINO TEOT VIT TIME		<i></i>		14010. 141	without w	ritten approval.	s doi dovi di di d	10110-00-010	1869		
Time and Date	en e	10:45		Ì.		2				19. <u>17</u> . 1.					
Test Pressure 5-16-4 Reached		5-16-11		Elevation at Test Point		49 FT	Min. Required Test - Press. At Test Point		(1)	(1) 589 PSIG Press a		wable Test Test Point (4)		672 PSIG	
Time and Date 18:45 Test Ended 5-16-11		18:45 5-16-11		Max, Elevation in Test Section 57		57 FT	Min. Indicated Test Pressure		(2) 602 PSIG Max. Inc.		Max. India Test Pres	cated ssure (5)		605 PSIG	989 182
Actual Duration of Test	1	8 hrs		Min, Elevation in Test Section		19 FT	Min. Test Pr at Max. Elev	essure ation	(3)	599 PSIG	Max. Tes at Min. El	Pressure evation	(6)	618 PSIG	O.E.
Test Fluid Use	d					Pipe Sp	ecification and	Footage Veril	fied (See	Part I)					
Water Make Range	and Serial No	of Pressure Rr	ecording Gauge	Date Last Ga	librated	ADOVE	; a. Range, and	Serial No. of I	Dead We	iaht Tester (Se	e Note 71		Date Last	Calibrated	
CPL 703 (0-1000,PS	si//		5-2-11		AM	ETEK 0-3	500 PSI,	S/N2	845			11-29-	11	
Redacte	d d		(2)	Date: 7-14-11			ProRedacted				1 CLH7 []-[3-]]				
PUT SCHEMA SHOW LOCAT	TIC PIPING S	SKETCH ON BA	CK OF THIS SHEET MINIMUM AND MAXI	NUM ELEVATION IN FE	ET, MIL	E POINTS, V/	LVE NUMBER	S AND INCO	RPORA	TED AREAS.	USE AN ADD	ITIONAL SHE		CESSARY	
OF EACH ASS	EMBLY TES	BERS ON FACE TED.	OF ALL DRAWINGS	AND ATTACHMENTS).	FURS	AHONTHIN	IG, FABRICAT	ED UNITS AI		KI SECTIONS	OF PIPE, AL	SU SHOW A	DETAILE	DSKEIGH	
NOTES:	totic head du	a to playation dif	ference (holween lest	point and maximum elev	ation) to		DIST	RIBUTION	MSORI	NG ORGANIZA	TION				
"minimum	test pressure	e at maximum el	evation" from PART I.	pour and months of transf	usanjao				NOINER		CONTENDE	VIT.			
(2) Use lowes(3) Subtract s	st pressure or tatic head du	n test gauge at a e to elevation di	ny time during test. fference (between test	point and maximum elev	ation) fr	om	GoWi	AIS RESPO	NOIBLE I	JISTRICT SUP	ERINTENDE	81			
minimum (4) Subtract s	minimum Indicated test pressure. O Subtract static best due to elevation difference (between test point and minimum elevation) from														
*maximun	i test pressur	e at minimum el	evation" from PART I.	Andrew and a second			TECH	INICAL & CO)NSTRU(CTION SERVIC	ES - ASSIGN	IED JOBS ON	LY		
(6) Add static	head due to	elevation differe	nce (between test poin	t and minimum elevation) to may	dmum	CAPI	TAL ACCOU	nting (f	FOREMAN'S C	OPY OF JOB).			
indicated I (7) A dead we	lest pressure. Bight lester is	only required wi	hen testing to a pressu	re which produces a stre	ss level	of 90%	RECO	ORDS SECTI	ON (WC)), GMS&TS					
transmission is unit required when results to a pressure when produces a stress resk to 30% of SMYS or greater. However, if a dead weight tester is used on any fest, enter the information in the space provided above RECORD SECTION (WG), SWORTS												ł			
1 _ 10	ICINA	L C.E.	D. POCUM	DEDT SIE	NEI	son	6-21-								1
L-ocionnic piece ecconicity sidillo or in the state															
(2) - ORIGINAL DOCUMENT Signed 5/2/11															
30	3) ORIGINAL DOCIMUNT SIGDUS A-19-11														



Pacific Gas and Electric Company

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



	3						Nonuner Call	5	Sheet	_1(of_1	
PART I - I	DESIGN	ATA (TO B	E PREPARED BY	PROJECT ENGINEER	()						:]
Feeder Main I	Vumber, Line M	lumber, or Stat	ion Name Area	Division/Di	istrict	Job Number				norized		
	SP	5		2	Dia	blo 9715461 May 2, 2011)11	
TEST 1 -	Hydrostat	ically test t	emporary pups	and tie-in pieces.	Tie-in pieces	replace pipi	ing removed (downstream	of tap val	ves to facili	itate	
Hydrotest	SP-5 from	n MP 0.00 -	- 3.87 Antioc	h, CA (Test	t section 96)						+7444444	-
Location Class	s D	esign Factor (F)	MAOP to be	Established for this Piping	by this Test	Future D	lesian Pressure					-
3		.5			390 P	SIG				600 PSIG		
STAT	TIC HEAD DUI	ETO	Max. Elevation	<u>67</u> Ft.	Static Head Calcula	ition	and a first second			21		
ELEVA	TION DIFFER	ENCE	Min. Elevation	Ft.	For Water	1	0,433 X Elev.	Diff. =			PSIG	
(WHE	RE APPLICA	BLE)	Elev. Diff.	<u>48 Ft. </u>	Other (Specify)		X Elev	/. Diff. =	6/ -6010/0		PSIG	=
Siz	Size API or ASTM			Grade	- Footage to	Footage Verified		At At Min.		At Max.	Give 90%	
0,D,	O.D. W.T. Long Seam (ERW, DSA			, Seamless, Etc.)	Be Tested	ln Fi	ield	MAOP	Test Press.	ess. Test Press, SMYS		
24.00	.375	5 API 5L, GR X-60, DSA		V (item#106)	4'	0)	20.80	31.20	36.53	1688 ,	MAK.
8.625	.188	API 5L, G	3R X-52, ERW	(item#203)	3' 2"	0)	17.20	25.81 30.2		2040	
4.50	.237	API 5L, G	Gr.B SMLS	(item#202)	6' 6"	4	2	10.58	15.87	18.58	3318	
3.50	.216	API 5L, C	Sr.B SMLS	(item#201)	6'	8	9.03		13.54	15.86	3888	-
8.625	.322	API 5L, C	Fr.B SMLS (fie	Id substitution)	4'	4	2	22.96	22.39	26.21	2532	
												-
A 45-25			A.1.	585		est Fluid	MINIMUM TE	ST DURATIO	<u>DN</u>		9 UOUDO	-
ivinimum i e	st Pressure (@ Iviax. Eleva	laon .	600	1	NATER	- UNDER 30% S - 30% SMYS & O\	/ER (8 HRS, MIN	MUM)	L	0 HOURS	-
Maximum Te	est Pressure	@ Min. Eleva	tion	685	PSIG		- PREINSTALLA	TION TEST (SEI	EATTACHMEN	IT 'A', GAS ST	D. A-34)	-
Prepared By: Redacted	d		Date: 04/1	9/11 Re	dacted	ines Coll		Approved By:			Date:	
PART II - TES	T DATA (TO E	BE PREPARED	BY PERSON SUPE	RVISING TEST AT TIME	OF TEST)		Note: Minimun	n test pressure a	nd duration are	not to be chan	ged	
							withou	t written approve	L.			
Time and Date Test Pressure												
Time and Date Test Pressure	<u>E </u>	7:15 am 5-19-11	******	Elevation at Test	OFT	Min. Require	ed Test	505 DOIO	Max. Allow	vable Test	685	-
Time and Date Test Pressure Reached Time and Date	<u></u>	7:15 am 5-19-11 3:15 pm	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	Elevation at Test Point Max. Elevation in	0 FT	Min. Require Press. At Ter Min. Indicate	nd Test st Point (1) ad	585 PSIG	Max. Allov Press at T Max. Indic	vable Test est Point ated	(4) 685 PSIG 611	- 1,631
Time and Date Test Pressure Reached Time and Date Test Ended	· · · · · · · · · · · · · · · · · · ·	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs		Elevation at Test Point Max. Elevation in Test Section	0 FT 0 FT	Min, Require Press, At Te Min, Indicate Test Pressur	d Test st Point (1) ed re (2)	585 PSIG 605 PSIG	Max. Allov Press at T Max. Indic Test Press	vable Test 'est Point vated sure	(4) 685 PSIG 611 (5) PSIG	- 1,681 PS 10
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test).).	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs		Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section	0 FT 0 FT 0 FT	Min, Require Press, At Ter Min, Indicate Test Pressur Min, Test Pre at Max, Eleva	d Test st Point (1) ed (2) essure ation (3)	585 PSIG 605 PSIG 605 PSIG	Max. Allow Press at T Max. Indic Test Press Max. Test at Min. Ele	vable Test est Point sated sure Pressure evation	(4) 685 (4) PSIG 611 (5) PSIG 611 (6) PSIG	I,688 PSIC
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O	n d	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs		Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section	0 FT 0 FT 0 FT Pipe	Min, Require Press, At Ter Min, Indicate Test Pressur Min, Test Pre at Max, Elevi Specification and I	d Test st Point (1) re (2) essure ation (3) Footage Verified (S	585 PSIG 605 PSIG 605 PSIG 605 PSIG See Part I)	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele	vable Test iest Point sated sure Pressure evation	(4) 685 PSIG 611 (5) PSIG 611 (6) PSIG	- 1,681 - PS10 - - - - -
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O Make, Range, CPI 1703	n d and Serial No.	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re	cording Gauge	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section	0 FT 0 FT 0 FT Pipe alibrated Μ	Min. Require Press, At Ter Min. Indicate Test Pressur Min. Test Pre at Max. Elevi Specification and I ake, Range, and S	d Test st Point (1) id re (2) essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N	585 PSIG 605 PSIG 605 PSIG 605 PSIG Gee Part I) Weight Tester (S 2845	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7).	vable Test est Point vated sure Pressure avation	(4) 685 (4) PSIG 611 (5) PSIG (6) PSIG ale Last Callbrated 1/20/10	1,631 PS10 0K
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O Make, Range, CPL 1703 Test S Reda	and Serial No. 9-1000 Ps	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re SI	cording Gauge	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section Date Last Ca 5-2-11 Date:	0 FT 0 FT 0 FT Pipe alibrated M A	Min. Require Press, At Ter Min. Indicate Test Pressur Min. Test Pre at Max. Elev: Specification and I ake, Range, and S METEK, 0-3. edacted	d Test st Point (1) ed re (2) essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N	585 PSIG 605 PSIG 605 PSIG 605 PSIG See Part I) Weight Tester (S 2845	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7).	vable Test est Point ated sure Pressure evation D 1	(4) 685 (4) PSIG 611 (5) 611 (6) PSIG ate Last Calibrated 1/29/10 Date:	0 K
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O Make, Range, CPL 1703 Test S Reda	and Serial No. 9-1000 P: Incted	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re SI	cording Gauge	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section Date Last Ca 5-2-11 Date: 9-//6-///	0 FT 0 FT 0 FT Pipe alibrated M A (2.) R	Min. Require Press, At Te: Min. Indicate Test Pressur Min. Test Pre at Max. Elevi Specification and I ake, Range, and S METEK. 0-3. edacted	d Test st Point (1) ed essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N	585 PSIG 605 PSIG 605 PSIG Gee Part I) Weight Tester (S 2845	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7)	vable Test est Point rated Pressure evation D 1 9 –	685 (4) PSIG 611 PSIG (5) 611 (6) PSIG ale Last Callbrated 1/29/10 Date: 1 (5) 1	
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O Make, Range, CPL 1703 Test S Reda SHOW LOCAT	and Serial No. 9 -1000 P: 10 -1000 P: 	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re SI SI KETCH ON BAC ERS ON FACE	cording Gauge	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section Date Last Ca 5-2-11 Date: 9-16-11 SAND ATTACHMENTS).	0 FT 0 FT Pipe alibrated M (2) R FOR STATION PI	Min. Require Press, At Te: Min. Indicate Test Pressur Min. Test Pre at Max. Elevi Specification and I ake, Range, and S METEK_0-3. edacted	d Test st Point (1) ed ed essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N SAND INCORPO FD UNITS AND SH	585 PSIG 605 PSIG 605 PSIG 605 PSIG See Part I) Weight Tester (S 2845 2845 RATED AREAS.	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7) USE AN ADDI S OF PIPE AL	wable Test est Point vated Pressure evation D 1 9 - TIONAL SHEE SO SHOW A D	685 (4) PSIG 611 PSIG (5) 611 (6) 611 (6) PSIG ate Last Calibrated 1/29/10 Date: 2 IS-II 2	- 1,633 - DSTO - OK
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test H2O Make, Range, CPL 1703 Reda CPL 1703 Reda SHOW LOCAT (SHOW REFE OF EACH ASS	and Serial No. 9 -1000 Pl 1000 Pl 1000 FACII TIC PIPING S TON OF FACII RENCE NUME EMBLY TEST	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re SI KETCH ON BA LITY TESTED, DERS ON FACE ED.	cording Gauge CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section Date Last Ca 5-2-11 Date: 9-/6-// IMUM ELEVATION IN FE S AND ATTACHMENTS).	0 FT 0 FT Pipe alibrated C3 FOR STATION PI	Min. Require Press, At Ter Min. Indicate Test Pressur Min. Test Pre- at Max. Elevi Specification and I ake, Range, and S METEK, 0-3. edacted	d Test st Point (1) id re (2) essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N RS AND INCORPO ED UNITS AND SH	605 PSIG 605 PSIG 605 PSIG Gee Part I) Weight Tester (S 2845 2845 RATED AREAS. IORT SECTION:	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7). USE AN ADDI S OF PIPE, ALS	wable Test est Point vated Pressure avation D 1 2 - TIONAL SHEE SO SHOW A D	685 (4) PSIG 611 PSIG (5) 611 (6) 611 (6) PSIG ate Last Calibrated 1/29/10 Date: 2 IS-II 2 ET IF NECESSARY ETAILED SKETCH	
Time and Date Test Pressure Reached Time and Date Test Ended Actual Duration of Test Test Fluid Use H2O Make, Range, CPL 1703 Test S Reda A PUT SCHEMA SHOW LOCAT (SHOW REFEI OF EACH ASS NOTES: (1) Add the s	and Serial No. 9-1000 PS 0-1000 PS 0	7:15 am 5-19-11 3:15 pm 5-19-11 8 hrs of Pressure Re SI SI MUTY TESTEO, BERS ON FACE ED. to elevation diff	CK OF THIS SHEET MINIMUM AND MAX OF ALL DRAWING	Elevation at Test Point Max. Elevation in Test Section Min. Elevation in Test Section Date Last Ca 5-2-11 Date: 9-16-11 IMUM ELEVATION IN FE S AND ATTACHMENTS). t point and maximum elev	0 FT 0 FT 0 FT Pipe alibrated C2 R ET, MILE POINTS, FOR STATION PIL	Min. Require Press, At Ter Min. Indicate Test Pressur Min. Test Pre at Max. Elevi Specification and I ake, Range, and S METEK, 0-3 edacted VALVE NUMBER PING, FABRICATI DIST JOB F	d Test st Point (1) id re (2) essure ation (3) Footage Verified (S Serial No, of Dead 500 PSL S/N Sand INCORPO ED UNITS AND SH RIBUTION TILE (AT SPONSO	585 PSIG 605 PSIG 605 PSIG 605 PSIG See Part I) Weight Tester (S 2845 2845 RATED AREAS. IORT SECTION: RING ORGANIZ	Max. Allov Press at T Max. Indic Test Press Max. Test at Min. Ele ee Note 7) USE AN ADDI S OF PIPE, ALS	wable Test est Point sure Pressure evation D 1 2 - TIONAL SHEE SO SHOW A D	685 (4) PSIG 611 PSIG (5) 611 (6) PSIG ale Last Calibrated 1/29/10 Date: 2 IS - II 2 T IF NECESSARY ETAILED SKETCH	- 1,633 - PS 10
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