

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



Sheet 1 of 2																		
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																		
Feeder Main N	lumber, Line I	Division/District								Job Number		Date Job Authorized		ľ				
L-300B					4			Fresno					41497328			6/10/11		
TEST 1 -	TEST 1 – Hydrostatically test cut caps.																	
Hydrotest	Hydrotest L-300B from MP 384.0630 – 384.8437 Three Rocks, CA (Test section 85)																	
Location Class         Design Factor (F)         MAOP to be Established for this Piping by this Test         Future Design Pressure           1         0.72         890         PSIG         890														90 psig				
STAT		F TO	Max Flev	ation	N/A	Ft.	Static	Head C	alculatio	- I								
FIEVA		0.433 X Fley, Diff = N/A PSIG																
(WHE			N/A	Ft	Other	r ISnonify	a:											
(init.								Pipe Spec. and			% of SMYS							
Size API or ASTM					I Grade			Footage to		Footage Verified		At At		At Min.	I. At Max.		Give 90%	
24.00	O.D. W.I. Long Seam (ERW, DSAW,					Seamless, Etc.)			De l'ested		IN FIEld		MAOP 10.02	CO AE	rest i	ness.	3M13	
34.00	0.505	API JL, C	N A-00,	DOAW	- (uu	(item#101)			<u>  8</u> .		<u>.</u>		19.90	02.40 09.		29	1004	
										- 								
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												1:			<u> </u>			
															1			
										1					1			
Test Fluid MINIMUM TEST DURATION												ċ						
Minimum Te	st Pressure	@ Max. Eleva	tion			1113	PSIC		IO B	D BE USED     ONDER 30% SMYS (1 HR. MINIMUM)     O HOURS     AVATER     - 30% SMYS & OVER (8 HRS. MINIMUM)								
Maximum Te	est Pressure	@ Min. Eleva	tion			1235	PSIG	3			- PREINST	ALLATI	ON TEST (SEE	ATTACHMEN	IT 'A', GA	S STD. A-:	34)	
Prepared By:	vok			Date: 6/10/*	11	F	or Inforr Nark (	mation or Cabral	Change 1025	is, Call: 5) 588-364	0	A	pproved By:				Date:	
PART IL. TES	T DATA (TO)		BY PERSO	U SLIPER	/ISING TI	ST AT TIM	EOET	ESTI	1020	// 000 004	Note: Mi	1 mumit	aet proceura an	d duration are	not to be o	honned		
190010-160	1 PAIA(IO			1001-011	nomo n	orni um		2017			1000. 144	without v	written approval		not to ou t	aaayoa		
Time and Date	•	<u> </u>			1		Ì				<u> </u>		ľ					
Test Pressure Beached					Elevati Point		FT		Min. Required Test Press. At Test Point		(1)	(1) PSIG P		ax. Allowable Test ress at Test Point		PSIG		
Time and Date			Max. Elevation in			ET		Min. Indicated		(0)	2) PSIG Tout		dicated					
Actual Duration					Min. Elevation in			F	1	Min. Test Pr	ressure	(2)	Max. T		est Pressure		Fold	
of Test						ection		F	T	at Max. Elevation (3)				PSIG at Min. Elevation (6) PSIG				
Pipe Specification and Foolage Verified (See Part I)																		
Make, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated								ted	Make	Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last							est Calibrated	
Test Supervised By:						Date:				Approved By:				Date				
I 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 CHOW BEFERENCE OF ALL DRAWINGS AND ATTACHMENTED. FOR STATION DIGNO FARDICATED MUTCHING AND SHOP OF THE ALL OR OLD ALL DRAWINGS AND ATTACHMENTED. FOR STATION DIGNO FARDICATED MUTCHING AND SHOP OF THE ALL OR OLD ALL DRAWINGS AND ATTACHMENTED. FOR STATION DIGNO FARDICATED MUTCHING AND SHOP OF THE ALL OR OLD ALL DRAWINGS AND ATTACHMENTED. FOR STATION DIGNO FARDICATED MUTCHING AND ADDITIONAL SHEET IF NECESSARY																		
OF EACH ASS	SEMBLY TES	TED.	. VI TILLUR	60011100		nu mieni c	4. EVP	.orAilt	2013-31530		LUUNIIOA		and aconome	or nre, Ab	00 0000	AUCIAI	LO ONCION	
NOTES: (1) Add the s	tatic head do	e to elevation dif	ference (het	veen test	point and	maximum el	evation	) to		DIS JOB	FILE (AT SP	ONSOR	ING ORGANIZ	TION				
minimun	n test pressure	e at maximum el	evation* from	PART I.						nou	INTO DECOD			CONTENDE	NT			
(3) Subtract	static head du	e to elevation di	fference (bel	ween test	point and	maximum e	levation	n) from		GoM	ALO NEOPU	NJIDLC	USTRIUT OU	CNATENDE	19.4.			
minimum (4) Subtract	indicated test static head du	pressure. e to elevation di	fference (bel	ween test	point and	minimum el	evation	) from		PRO	JECT MANAG	SER/PR	OJECT ENGIN	EER				
*maximur (5) Highest o	m test pressur pressure on te	e at minimum el st gauge at acy	evation <sup>*</sup> from	n PART I.						TEC	HNICAL & CC	NSTRU	JCTION SERVI	CES - ASSIGN	IED JOBS	ONLY		
(6) Add static	c head due to	elevation differe	nce (betwee	n test poin	t and min	imum elevati	ion) to n	maximum	ï	CAP	ITAL ACCOU	NTING	(FOREMAN'S C	OPY OF JOB	)			
(7) A dead w	reight tester is	only required w	hen testing t	o a pressu	re which j	produces a s	tress le	vel of 90	%	REC	ORDS SECTI	ON (W	C), GMS&TS					
of SMYS space pro	or greater. H ovided above.	owever, if a dea	i weight test	er is used	on any te	st, enter the	informa	ation in th	IÐ	REP	ORT FAILUR	ES UND	ER TEST TO C	AS ENGINEE	RING & P	LANNING		



## Pacific Gas and Electric Company

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



Sheet \_\_\_\_\_\_\_ of \_\_\_2\_

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																
Feeder Main Number, Line Number, or Station Name Area Division/District										Job N	lumber 111072	Date Job Authorized				
L-3UUB 4 Fresno Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts									41497328 0/10/11							
TEST 2 – Hydrostatically test tie-in piping, hydrostatic test piping and existing 34" L-300B. Existing pipeline material listed are from the "Material of Record" (refer to Dwg, 41497328, Sheet 4)																
Hydrotest L-300B from MP 384.0630 – 384.8437 Three Rocks, CA (Test section 85)																
Location Class         Design Factor (F)         MAOP to be Established for this Piping by this Test         Future Design Pressure           1         0.72         890         PSIG         890         P													890 psig			
STAT	IC HEAD DUI	e to	Max. Elevation	459	. Ft.	Static I	Head Calculatio	สา					C 40E			
ELEVA	TION DIFFER	ENCE	Min. Elevation	444	444 Ft. For Wa			0.433)				401-40	0.493 PSIG			
(WHE	RE APPLICA	BLE) Pine Sn	Elev. Diff.	10 Ft.   OU			Specify)	Pine !	X her part	Elev. Diff. = % of SMYS			PSIG Pressure to			
Siz	API or ASTM	Grade			Footage to	Footag	Footage Verified		At		At Max. Give 90%					
0.D.	W.T.		Seam (ERW, DSAV	/, Seamless, El	lc.)		Be Tested			MAUP 40.03		CO AE	CO 20	SMYS		
34.00	0.505	API SL, C	R X-48 DSA	N (ite N (i	in#101) item#1)		4422'	4399.2' MOR M		72.05		90.10	99.98	1112		
34.00	0.375	API 5L, C	R X65/70, DS	AW (FIGL)			0	14.61' A		62.07		77.62	-86.05	1,290		
											C	@ 86.13				
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						-										
			·		<u> </u>									· · · · · ·		
	Test Fluid MINIMUM TEST DURATION															
Minimum Test Pressure @ Max. Elevation 1113 PSIG To Be Used - UNDER 30% SMYS (1 HR. MINIMUM) WATER - 30% SMYS & OVER (8 HRS. MINIMUM)											8 HOURS					
Maximum Te	est Pressure	@ Min. Eleva	tion	: : :	1235	PSIG			- PREINST/	LLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)						
Prepared By: Lauren Kwok																
PART II - TES	T DATA (TO	BE PREPARED	BY PERSON SUPE	RVISING TES	T AT TIME	OF TE	ST)		Note: Mir	nimum test	pressure and	duration are	not to be changed			
	without written approval.															
Time and Date Test Pressure		Elevation at Test				Min. Requ	equired Test		Max. Allo		rable Test	1235				
Reached 6:10 pm				Point			444.0 FT	Press. At	Press. At Test Point (		(1) 1120 PSIG Press		est Point (4)	) PSIG		
Time and Date 6-28-11				Max. Elevation in Test Section			459.0 FT	Test Pres	sure	(2) 1142 PSIG Test Pre-			ssure (5) PSIG			
Actual Duration 8 hrs, 40 min				Min. Elevation In Test Section			444.0 FT a		An. Test Pressure at Max. Elevation		(3) 1136 PSIG at Min		ist Pressure 123 Elevation (6) PSI			
Test Fluid Use Water	d						Pipe Sp TM	ecification ar	d Footage Verif	fied (See F	Part I)	TRE	SPANOA			
Water         Make, Range, and Serial No. of Pressure Recording Gauge         Date Last Calibrated         Make, Range, and Serial No. of Dead Weight Tester (See Note 7)         Date Last Calibrated																
Barton 0-3000 S/N 624086         I. 6-17-11         Chandler 50-3000 S/N 7850         6-17-11           Test Supervised By:         Date:         Approved By:         1         Date:													-11 »			
STEVEN DUARD TO JACK OF THIS SHEET 7-13-11 (CARLO CLUB T-13-11)																
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																
OF EACH ASSEMBLY TESTED.  NOTES: DISTRIBUTION																
(1) Add the static head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION)																
(2) Use lowest pressure on test gauge at any time during test.     (2) Use lowest pressure on test gauge at any time during test.     (3) Subtract static head due to elevation difference (helywen test point and maximum elevation) from																
(d) Subtract	contract state news due to elevation difference (between test point and maximum elevation) from     minimum indicated test pressure.     PROJECT MANAGER/PROJECT ENGINEER     PROJECT MANAGER/PROJECT ENGINEER															
*maximu	m test pressur	e at minimum e	evation" from PART	l.	TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY											
<ul> <li>(c) Ingress pressure on test gauge at any time during test.</li> <li>(d) Add static head due to elevation difference (between test point and minimum elevation) to maximum</li> <li>CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)</li> </ul>																
(7) A dead w	eight lester is	only required w	hen testing to a pres	sure which pro	RE	RECORDS SECTION (WC), GMS&TS										
space provided above. REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING												3				
T. ORIGINAL DOCUMENT STOTICT & SUCH																
Q-OKIGINAL DOCUMENT SIGNED LE 20-11																
3-01 4-01	iginal	do cumos	MENT.	6-10-	ne	1 - 14	1-11									