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 2 PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)														_2	
PART I -	DESIGN	ОАТА (ТОВ	E PREPAR		ROJECT					-						
Feeder Main I		Number, or Sta	Area	Division/District							Job Number		Date Job Authorized			
L-105A Description of Job Include Reference Drawing Numbers, and					∠ eline Miler		East Bay				41474	U64	August 25, 2011			
TEST 4-	Hydrosta	tically test t	ie-in piec	es, hyd	rostatic	test pipi	ng and ex et 9 of 9)	isting : REVIS	30" L-105/ 3 <mark>0N 1 -</mark> F	A. Existing Revised pir	g pipelin be grade	e matei of item	ial listed; ie #1 to GR E	e. pipe, elbow 3.	s, sleeves,	
Hydrotest	L-105A fr	om MP 38.	00 to 41.	00 B	erkeley,	, Emeryv	ille & Oaki	land, C	CA (Fest Section	on 07)					
Location Class	s [[esign Factor (F) .5	MAC	P to be E	tabilished for this Piping by this Test Future Design Pressur					re		<u> </u>		275 PSIG		
STAT	TIC HEAD DU	ETO	Max. Elev	ation	38	_ Fi.	Static Head (Calculatio	ñ		2					
ELEVATION DIFFERENCE Min. Elevation					8	_ FI.	For Water	or Water		0.433 X Elev. Diff. =		-		13 _{PSI}	G	
(WHERE APPLICABLE) Elev. Diff.					30	Ft.	Other (Special	fy)			K Elev. Diff.			PSI	G	
Pipe Specification								4.		pec. and			% of SMYS		Pressure to	
Size O.D. W.T.		API or ASTM Long Seam (ERW, DSAV				Etc.)	Footag Be Te		Footage Verified In Field		MAC		At Min. Test Press.	At Max Test Press.	Give 90% SMYS	
30.00	.375	Pipe, API 5L X-65, DS				em#103	861	6"	96'-115'		12.	18	20.74	25.23	1463	
30.00	0.3125	Pipe, API 5L GR B, DS							MORNING		27.	15	46.22	56.23	656	
30.00	0.375	Elbow, L		90	***************************************	em#120)			7 36		13.3	and the second	22.47	27.33	1350	
30.00	0.375	Elbow, LR, GR B				(item#4)			MOR		22.0		38.51	46.86	788	
30.00	UNK	Elbow, LR, GR Unkno							MOK				**************************************	10.00	****	
6.625	.280	Pipe, API 5L GR B, SM							13 /-	· 53'L	6,6		11.39	13.86	2663	
6.625 6.625	.280 .280	Elbow, LR, 90 deg, GR Valve, Ball, ANSI 300			B (item#219) (item#217)			****	2	37"/~	6.6		11.39	13.86	2663	
0.023	.375		111, ANOI			45°				<u> </u>	13.2		22.4 7	27.22	1250	
10.UU	,319	TO A	<u> </u>			1.2	1 15	<u>.a.</u>	74.5		113.4		31.77	4T.33	1350	
3.41	3.7543 S5.53					A (4.0.8)		* 								
						007	PSIG		Fluid	MINIMUN						
Minimum Tes	st Pressure (@ Max. Eleva	tion			337	e Used ATER	- UNDER 31 - 30% SMYS			A. 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3		8 HOURS			
Maximum Test Pressure @ Min. Elevation						410 PSIG			11 LIX				Th. 15	T 'A', GAS STO. A	34)	
edacted				Date:	7/28/	/// For	Information o		es, Cell: 5 8 8-3 64 0			yed By:	BO	1.0. 1	Date:	
OADT II TOO	T DATA /T/\ 0	E PREPARED	DV DEDOAL		and the second second	TO BE SHOULD SEE STATE	0.000	((920)	000-0040	e decident and the second		nas		not to be changed	9-28-11	
	" to all more than to an	teo					Boxte	1 /	CCF		ithout writte			ioi io de citaligeo		
Time and Date	CON 120		04 15 A#		, c y	nr_				1		. 4 11			1.202	
Test Pressure Reached		9-29-11		Elevation at Test Point) 22 FI		Min. Required Test Press. At Test Point (343,43 (1) PSIG		rable Test est Point (4)	903.93 PSIG		
Time and Date		6100 PM		Max, Elevalion in			38		Min. Indicated		760.00		Press at Test Point (4) Max, Indicated			
fest Ended		THE RESERVE OF THE PERSON NAMED IN THE PERSON NAMED IN	9-29-11		Test Section		F	T	Test Pressure ((2)	2) PSIG		ure (5)	355, 00 PSIG 901.07	
Actual Duration 8 A 2 35 min			min	Min. Elev Test Sec		Ş	S FT		Min. Test Pressure at Max, Elevation (Max. Test Pressure at Min. Elevation (6)			
est Fluid Used					i not Ode	uviti			at Max, Elevation (3) PSIG at Min. Elevation (6) PSIG e Specification and Footage Verified (See Part I)							
Anha Dar		HE (Z	onedi-a O-			Dala La-La	Wheeled	1 84 6		LA635		Turk 100	on Mate 70		est Ordensia	
26P 1	1500	of Pressure Re アムエ	cording Gaug			Date Lest Co S - J			Range, and			: Tester (S アメエ	se Note 7) ノナに		ast Calibrated	
									edacted				Date: 11 - 7 - 11			
HOW LOCATI	ON OF FACIL		ALMUMINIK	D MAXIM										FIONAL SHEET IF O SHOW A DETAI		
OF EACH ASSE	MBLY TEST	ED		and the second s							-97.51		orac e u mistro			
		to elevation diff			int and mi	aximum elev	ation) to			<u>RIBUTION</u> FILE (AT SPO	NSORING (ORGANIZ	ATION)		l	
muminim*	lest pressure	at maximum ele	vation* from	PART I.			100						Agreement and the second and the sec	Т	OFFICE	
 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. 										GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT PROJECT MANAGER/PROJECT ENGINEER						
) Subtract st	atic head due	to elevation diff			oint and m	inimum elev	ation) from									
"maximum test pressure at minimum elevation" from PART I. TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS O Highest pressure on test gauge at any time during test.												ED JOBS ONLY				
) Add static I		evation differen			and minim	um elevation) to maximum	ř	CAPI	TAL ACCOUN	TING (FOR	EMAN'S (OPY OF JOB)		ľ	
) A dead wel	ght lester is o	nly required wh							RECO	ORDS SECTIO)N (WC), GI	VIS&TS				
	r greater, Hov lded above.	vever, if a dead	weight lesie	is used 0	n any test,	enter the Int	ormation in the		T AEPO	FAILURE	S UNDER T	EST TO C	SAS ENGINEER	NING & PLANNING		

EPO FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING



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of PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Feeder Main Number, Line Number, or Station Name Date Job Authorized Area L-105A East Bay 41474064 August 25, 2011 Description of Job -- Include Reference Drawing Numbers, and Pipeline Mileposts TEST 4 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 30" L-105A. Existing pipeline material listed; ie. pipe, elbows, sleeves, are from the "Material of Record" (refer to Dwg 41474064, sheet 9 of 9) REVISION 1 - Revised pipe grade of Item#1 to GR B Hydrotest L-105A from MP 38.00 to 41.00 Berkeley, Emeryville & Oakland, CA (Test Section 07) Location Class Design Factor (F) MAOP to be Established for this Piping by this Test Future Design Pressure .5 275 **PSIG** 3 38 Ft. Static Head Calculation STATIC HEAD DUE TO Max. Elevation 13 8 PSIG **ELEVATION DIFFERENCE** Min. Elevation Ft. For Water 0.433 X Elev. Diff. = 30 Elev. Diff. IWHERE APPLICABLES Other (Specify) X Flev. Diff. % of SMYS Pressure to Pipe Spec, and At Mio. Al Max. Give 90% API or ASTM Grade Footage to Footage Verified Test Press. OD WT Long Seam (ERW, DSAW, Seamless, Etc.) In Field MAOP Test Press SMYS Be Tested 4.50 .237 Pipe, API 5L GR B, SMLS (item#114) 5.37 9.14 11.12 3318 4.50 .237 Pipe, API 5L GR B, SMLS (item#14) 510 5.37 9.14 11.12 3318 77. 3.50 .216 Pipe, API 5L GR B, SMLS (item#115) 1 4,58 7.80 9.49 3888 32 42 3.50 .216 Pipe, API 5L GR B, SMLS (item#15) 4.58 7.80 9.49 3888 0 75' 4.36 7.42 9.03 4085 2.375 .154 Pipe, API 5L GR B, SMLS (item#16) MAR 1.05 Pipe, API 5L GR B, SMLS 104 2.63 4.47 5.44 6780 .113 (item#17) Test Fluid MINIMUM TEST DURATION 337 - UNDER 30% SMYS (1 HR. MINIMUM) 8 HOURS **PSIG** Minimum Test Pressure @ Max. Elevation To Be Used WATER - 30% SMYS & OVER (8 HRS. MINIMUM) 410 Maximum Test Pressure @ Min. Elevation PSIG - PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) For Information or Changes, Call: Approved By: Dale Redacted 9/28/11 Mark Cabral (925) 588-3640 9-28-11 nac PART II - TEST DATA (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. Boxtel CLI THOR VAN 1E5+ CONDUCTED Bu Time and Date 9:25 Am 22 343,43 403.93 Min. Required Test Max. Allowable Test Test Pressure Elevation at Test 9-29-11 FT Press. At Test Point (1)**PSIG** Press at Test Point (4) **PSIG** Reached Point 6:00 Pm 360.00 395.00 3.B Min. Indicated Max. Indicated Time and Date Max. Elevation in 9-29-11 **PSIG** Test Pressure **PSIG** Test Pressure Test Ended Test Section 401.07 Min. Test Pressure 353,07 Max. Test Pressure. **Actual Duration** Min. Elevation in 35 min **PSIG** at Max. Elevation PSIG (3) at Min. Elevation of Test Test Section Pipe Specification and Footage Verified (See Part I) Test Fluid Used WATER JL A639 Make, Range, and Serial No. of Pressure Recording Gauga Date Last Calibrated Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated CLP OF SOCKE 5-2-11 46-6301 6-7-11 Redacted Test Supervised Redacted Date: Date 11-19-11 9-29-1 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 OF EACH ASSEMBLY TESTED. DISTRIBUTION Add the stalic head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION) 'minimum test pressure at maximum elevation" from PART I. Use lowest pressure on test gauge at any time during test. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure. PROJECT MANAGER/PROJECT ENGINEER Subtract static head due to elevation difference (between lest point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I. TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY Highest pressure on test gauge at any time during lest. Add static head due to elevation difference (between lest point and minimum elevation) to maximum CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) indicated test pressure. RECORDS SECTION (WC), GMS&TS A dead weight tester is only required when testing to a pressure which produces a stress level of 90%

of SMYS or greater. However, if a dead weight tester is used on any test, enter the information in the

space provided above