

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

3 - ORIGINAL DOCUMENT SIGNED 6-14-11

4. original document surped 6-14-11 @

FINAL

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

Sheet 1 of 2

FAMIL'	<u>DESIGN</u> D	ATA (TO BE	PREPARED B	PROJECT E	ENGINEER)									
Feeder Main N	Division/District						1	Number		Date Job Authorize	and the second s				
	entral							41497306-T63 6-14-11							
			ng Numbers, and ydrostatic te			34" pipe fro	om the	"Material	of Reco	rd" (rel	er to DWG	4149730	6-T63, sheet	5)	
			.56 – 353.85				t section	,	WANG CONTRACT OF THE CONTRACT				· ·		
Location Class	5 D	esign Factor (F) .72	MAOP to b	Established for this Piping by this Test Future Design Pressure 688 PSIG 6							688 PSIG				
STAT	IC HEAD DUE	то	Max. Elevation	544	_ Ft.	Static Head Ca						and a sector			
ELEVA	TION DIFFER	ENCE	520	_ Ft.	For Water 0			0.433 >	KElev. Dif	f, =		10.40 PSIG			
(WHERE APPLICABLE) Elev.			Elev. Diff.	24	Ft.	Other (Specify)		X Elev. D				PSI	PSIG		
Pipe Specification			cification API or ASTM	Condo				Pipe Spe			%			Pressure to	
O.D.	e W.T.	Long S	APTOLASTIV eam (ERW, DSA)		tc.)	Footage to Be Tested		Footage Verified In Field			At AOP	At Min. At Max. Test Press. Test Press.		Give 90% SMYS	
34.00	.505	API 5L, GI	54' 74.7'					3.60	48.25	53.30	1604				
34.00	.500	API 5L, GI	12'	-).R.		0.85	63.57	70.22	1218				
34.00	.4375	***************************************	R X48, DSA\		-	285'		287'			5.70	69.62	76.90	1112	
34.00	.375		R X-60, DSA			14'		13.7			1.98	64.98	71.78	1192	
34.00	.375		R X-52, DSA			7'		7'			9.98	74.97	82.82	1032	
34.00	.344	API 5L, GI	R X-52, DSA	W (item#2	679'		649	1 1	6	5.38	81.73	90.28	947		
34.00	.3125	API 5L, GF	R X-52, DSA	W (item#1)	957'		953	r λ	7	1.98	89.97	99.38	861	
Minimum Te	st Pressure (@ Max. Elevati	PSIG To Be Used - UNDER 30					EST DURATION SMYS (1 HR. MINIMUM) 8 HOURS							
Maximum Te	et Proceuro	@ Min. Elevati	nn		950	PSIG	TAW				(8 HRS. MINIMI N TEST (SEE)		T 'A', GAS STD. A	-3/6	
Prepared By:	2011 103301B	V A	/(_3) Date		For	Information or	Changes		-111011101		proved By:	II IAOI IIICH	7 A, OAO O ID. A	Date:	
Richard A	verly 🎉		/	14/117//9	9/11 Ma	rk Cabral	(925) 5	588-3640			mark.	18 CAL	rel 7	-14-11	
PART II - TEST DATÁ (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST) Note: Minimum test pressure and duration a without written approval.											duration are	not to be changed			
Time and Date Test Pressure		10:25 am, 949	Elevation	in water			Min. Required Test Press. At Test Point (1)			Max. Allowate Press at Tes		vable Test	949		
Reached		0.10		Point	atrest	5221	FT	,		(1)	009 P31G	Press at T		1 1	
Reached Time and Date Test Ended	į	7:00 pm, 6 889	-24-11		vation in	522 I		,	Point	(1)	885 PSIG	Press at T Max. Indic Test Press	est Point (4) ated	949	
Time and Date Test Ended Actual Duration of Test)°	7:00 pm, 6		Point Max. Elev	vation in tion ation in	544	FT FT	Press. At Test Min. Indicated Test Pressure Min. Test Pre- at Max. Eleva	Point ssure	(2)	885 PSIG 875.5 PSIG	Max. Indic	est Point (4) ated sure (5) Pressure	949 PSIG PSIG 950	
Time and Date Test Ended Actual Duration of Test Test Fluid Use)°	7:00 pm, 6 889		Point Max. Elev Test Sect Min. Eleve	vation in tion ation in	544 I	FT Pipe Spec	Press. At Test Min. Indicated Test Pressure Min. Test Pres	Point ssure	(2)	885 PSIG 875.5 PSIG Part I)	Max. Indic Test Press Max. Test at Min. Ele	est Point (4) ated sure (5) Pressure evation (6)	949 PSIG PSIG 950	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water	n d	7:00 pm, 6 889	5 min	Point Max. Elev Test Sect Min. Elev Test Sect	vation in tion ation in	544 I	FT FT Pipe Spec	Press. At Test Min. Indicated Test Pressure Min. Test Pres at Max. Eleva iffication and F	Point ssure tion ootage Veri	(2) (3) ified (See	885 PSIG 875.5 PSIG Part I)	Max. Indic Test Press Max. Test at Min. Ele	est Point (4) ated sure (5) Pressure evation (6)	949 PSIG PSIG 950	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3	n d and Serial No. 3000 6240	7:00 pm, 6 889 8 hours, 3:	5 min	Point Max. Elev Test Sect Min. Elev Test Sect	vation in ation ation in tion Date Last Ca 6-17-11	544 I	FT Pipe Spec FM Make, Char	Press. At Test Min. Indicated Test Pressure Min. Test Pres at Max. Eleva diffication and F Range, and S ndler 50/3	Point ssure tion ootage Veri	(2) (3) ified (See	885 PSIG 875.5 PSIG Part I)	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7)	est Point (4) ated sure (5) Pressure avation (6) Date L 6-17	949 PSIG 950 PSIG 950 PSIG	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range,	n d and Serial No. 3000 6240	7:00 pm, 6 889 8 hours, 3:	5 min	Point Max. Elev Test Sect Min. Elev Test Sect	vation in tion altion in tion Date Last Ca 6-17-11 Date:	544 520 F	FT Pipe Spec	Press. At Test Min. Indicated Test Pressure Min. Test Pres at Max. Eleva diffication and F Range, and S ndler 50/3	Point ssure tion ootage Veri	(2) (3) ified (See	885 PSIG 875.5 PSIG Part I) ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7)	est Point (4) ated sure (5) Pressure avation (6) Date L 6-17 Date	949 PSIG 950 PSIG 950 PSIG	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3 Test Supervise	d and Serial No. 3000 6240 dd By:	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86	5 min	Point Max. Eleva Test Sect Min. Eleva Test Sect	vation in ation ation in tion Date Last Ca 6-17-11	544 I	FT Pipe Spec FM Make, Char	Press. At Test Min. Indicated Test Pressure Min. Test Pres at Max. Eleva diffication and F Range, and S ndler 50/3	Point ssure tion ootage Veri	(2) (3) ified (See	885 PSIG 875.5 PSIG Part I) ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7)	est Point (4) ated sure (5) Pressure avation (6) Date L 6-17 Date	949 PSIG 950 PSIG 950 PSIG	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3 Test Supervise PUT SCHEMA SHOW LOCAT	and Serial No. 3000 6240 d By: TIC PIPING S	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86	5 min ording Gauge K OF THIS SHEE	Point Max. Elev Test Sect Min. Eleva Test Sect	vation in ation in ation in ation in ation in bion. Date Last Ca 6-17-11 Date:	544 I 520 I F I I I I I I I I I I I I I I I I I	FT Pipe Spec FM Make, Char Appro	Press. Al Tesi Min. Indicated Test Pressure at Max. Eleva	ssure tion ootage Veri	(2) (3) (3) (3) (3) (3) (3) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Part I) ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7)	est Point (4) aled sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7-1	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid Use Water Make, Range, Barton 0- Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS	and Serial No. 3000 6240 d By: TIC PIPING S TON OF FACIO	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86 KETCH ON BAC LITY TESTED, M PERS ON FACE 6	5 min ording Gauge K OF THIS SHEE	Point Max. Elev Test Sect Min. Eleva Test Sect	vation in ation in ation in ation in ation in bion. Date Last Ca 6-17-11 Date:	544 I 520 I F I I I I I I I I I I I I I I I I I	FT Pipe Spec FM Make, Char Appro	Press. Al Test Min. Indicated Test Pressure Min. Test Pressure at Max. Eleva aification and F Range, and Si ndler 50/3 led By: VE NUMBERS S, FABRICATE	ssure tion cotage Veri erial No. of 6000 78 6 AND INCC D UNITS A	(2) (3) (3) (3) (3) (3) (3) (3) (4) (5) (5) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Part I) ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7)	est Point (4) ated sure (5) Pressure avation (6) P ANDO Date I 6-17 Date 7	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0- Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFE! OF EACH ASS NOTES:	and Serial No. 3000 6240 d By TIC PIPING S TION OF FACIL RENCE NUMB EMBLY TEST	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86 KETCH ON BAC LITY TESTED, M ERS ON FACE 6	5 min ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING	Point Max. Eleva Test Sect Min. Eleva Test Sect L XIMUM ELEVA SS AND ATTAC	vation in alion in alion in in ion Date Last Ca 6-17-11 Date: CHMENTS).	520 520 Final State 7-13-11/C	FT Pipe Spec FM Make, Char Appro	Press. Al Test Min. Indicated Test Pressure Min. Test Pressure at Max. Eleva cification and F Range, and Si ndler 50/3 led By: VE NUMBERS S, FABRICATE DISTI	ssure tion cotage Veri erial No. of 0000 78 AND INCO D UNITS A	(2) (3) (50) (50) (50) (50) (50) (50) (50) (50	885 PSIG 875.5 PSIG Pert I) Ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele Note 7)	est Point (4) aled sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7-1	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3 Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFE! OF EACH ASS NOTES: (1) Add the s "minimum"	and Serial No. 3000 6240 d By TIC PIPING S TION OF FACIL RENCE NUMB EMBLY TEST Latic head due	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86 KETCH ON BAC LITY TESTED, M ERS ON FACE 6 ED: to elevation diffe at maximum elevation meters	ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING rence (between te	Point Max. Eleva Test Sect Min. Eleva Test Sect I Eleva XIMUM ELEVA SS AND ATTAC	vation in alion in alion in in ion Date Last Ca 6-17-11 Date: CHMENTS).	520 520 Final State 7-13-11/C	FT Pipe Spec FM Make, Char Appro	Press. Al Tesi Min. Indicated Test Pressure Min. Test Pres at Max. Eleva iffication and F Range, and S ndler 50/3 led By: VE NUMBERS 6, FABRICATE DISTI JOB FI	ssure tion ootage Veri erial No. of 0000 78 0 AND INCO D UNITS A RIBUTION ILE (AT SPI	(2) (3) (3) Dead Well 50 CORPORA' ND SHOP	885 PSIG 875.5 PSIG Part I) Ight Tester (See TED AREAS. URT SECTIONS (Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS	est Point (4) ated sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7 - 1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid Use Water Make, Range, Barton 0- Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lower (3) Subtracts	and Serial No. 3000 6240 d By: TIC PIPING S. TICN OF FACILI RENCE NUMBIEMBLY TEST tatic head due at test pressure st pressure on static head due	7:00 pm, 6 889 8 hours, 3: of Pressure Rec. 86 KETCH ON BAC. ITY TESTED, M. ERS ON FACE of ED. to elevation different maximum elevation different standard and the standard standard in the standard standard standard in the standard stan	5 min ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING	Point Max. Elev Test Sect Min. Eleva Test Sect II XIMUM ELEVA GS AND ATTAC est point and max I.	vation in ition ation in ition Date Last Ca 6-17-11 Date: CTION IN FE CHMENTS).	520 I 520 I F Mibrated 7-13-1\(ET, MILE POIN FOR STATION ation) to	FT Pipe Spec FM Make, Char Appro	Press. Al Tesi Min. Indicated Test Pressure Min. Test Pres at Max. Eleva iffication and F Range, and S ndler 50/3 led By: VE NUMBERS 6, FABRICATE DISTI JOB FI	ssure tion ootage Veri erial No. of 0000 78 0 AND INCO D UNITS A RIBUTION ILE (AT SPI	(2) (3) (3) Dead Well 50 CORPORA' ND SHOP	885 PSIG 875.5 PSIG Pert I) Ight Tester (See	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS	est Point (4) ated sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7 - 1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0- Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lower (3) Subtract s minimum	and Serial No. 3000 6240 d By TIC PIPING S TON OF FACI RENCE NUMB EMBLY TEST tatic head due test pressure on static head due indicated test	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86 KETCH ON BAC ITY TESTED, M ERS ON FACE of ED. to elevation different at maximum etest gauge at entest gauge at entertest gauge gauge at entertest gauge gau	Tording Gauge K OF THIS SHEET INIMUM AND MA DE ALL DRAWING rence (between to time during test arrence (between to the control of the cont	Point Max. Eleva Test Sect Min. Eleva Test Sect L XIMUM ELEVA GS AND ATTAC est point and maxil.	vation in alion in al	520 I 520 I Final State of the	FT Pipe Spec FM Make, Char Appro	Press. Al Test Min. Indicated Test Pressure at Max. Eleva	ssure tion ootage Veri erial No. of 1000 78 S AND INCC D UNITS A RIBUTION ILE (AT SPO	(2) (3) (3) (3) (5) (6) (6) (7) (7) (7) (8) (8) (8) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	885 PSIG 875.5 PSIG Part I) Ight Tester (See TED AREAS. URT SECTIONS (Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS	est Point (4) ated sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7 - 1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3 Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum (2) Use lower (3) Subtracts minimum (4) Subtracts "maximum	and Serial No. 3000 6240 d By TIC PIPING S TION OF FACIL RENCE NUMB EMBLY TEST Latic head due at test pressure on static head due indicated test static head due in test pressure on	7:00 pm, 6 889 8 hours, 3: of Pressure Rec. 86 KETCH ON BAC. ITY TESTED, M. ERS ON FACE of the elevation different test gauge at any to elevation differences are to elevation differences to elevation differences at minimum elevati	ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING rence (between to ration' from PART of time during test, arence (between to retice (between to retice) (betw	Point Max. Eleva Test Sect Min. Eleva Test Sect I XIMUM ELEVA 3S AND ATTAC est point and ma est point and ma est point and ma	vation in alion in al	520 I 520 I Final State of the	FT Pipe Spec FM Make, Char Appro	Press. At Test Min. Indicated Test Pressure Min. Test Pres at Max. Eleva iffication and F Range, and S ndler 50/3 led By: VE NUMBERS S, FABRICATE DISTI JOB FI GSM& PROJE	ssure tion ootage Veri erial No. of 0000 78 000 78	(2) (3) ified (See Dead We 50 ORPORA' ND SHOF ONSORIM NSIBLE C	885 PSIG 875.5 PSIG Part I) Ight Tester (See IED AREAS. U RT SECTIONS (IG ORGANIZAT DISTRICT SUPE NECT ENGINE	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN	est Point (4) ated sure (5) Pressure evation (6) P ANDO Date I 6-17 Date 7 - 1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton O-C Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lower (3) Subtract s minimum (4) Subtract s "maximum" (5) Highest p	and Serial No. 3000 6240 d By: TIC PIPING S TICN PIPING S	7:00 pm, 6 889 8 hours, 3: of Pressure Rec 86 KETCH ON BAC LITY TESTED, MERS ON FACE of ED. to elevation differencesure, to elevation differencesure, to elevation differencesure, at minimum elevating gauge at any time.	ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING rence (between to ration' from PART of time during test, arence (between to retice (between to retice) (betw	Point Max. Elever Test Sect Min. Elever Test Sect I Common Test	vation in ation in ation in ation in ation in ation in ation. Date Last Ca 6-17-11 Date: CTION IN FE CHMENTS).	520 520 Final point of the state of the	FT FT Fipe Spec FM Make, Char Approl	Press. Al Test Min. Indicated Test Pressure at Max. Eleva	ssure tion cootage Veri erial No. of tion OUNITS A RIBUTION LE (AT SPI TS RESPO	(2) (3) (3) (50) (50) (50) (50) (50) (50) (50) (50	885 PSIG 875.5 PSIG Part I) Ight Tester (See IED AREAS. U RT SECTIONS (IG ORGANIZAT DISTRICT SUPE NECT ENGINE	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN ER ES - ASSIGN	est Point (4) aled sure (5) Pressure evation (6) Pale I 6-17 Date 7-1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid Use Water Make, Range, Barton 0- Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFE! OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lowes minimum (3) Subtract s "maximum (4) Subtract s "maximum (5) Highest p (6) Add static indicated	and Serial No. 3000 6240 d By: TIC PIPING S ION OF FACIL RENCE NUMB EMBLY TEST latic head due test pressure on test pressure on test thead due to etest pressure.	7:00 pm, 6 889 8 hours, 3: of Pressure Rec. 86 KETCH ON BAC. ITY TESTED, M. ERS ON FACE of ED. to elevation different at maximum elevation difference at minimum elevation difference at mini	K OF THIS SHEET INIMUM AND MA DE ALL DRAWING rence (between teration' from PART or time during test, erence (between teration' from PART and during test, erence (between test or	Point Max. Eleva Test Sect Min. Eleva Test Sect I E XIMUM ELEVA SS AND ATTAC est point and max I. est point and minimum and	vation in ion ation in ion Date Last Ca 6-17-11 Date: XTION IN FE CHMENTS). aximum elev inimum elev um elevation	544 I 520 I F Silibrated 7-13-1\(ET, MILE POINT FOR STATION ation) to vation) from ation) from	FT Pipe Spec FM Make, Chai Appro	Press. Al Tesi Min. Indicated Test Pressure Min. Test Pres at Max. Eleva iffication and F Range, and S ndler 50/3 led By: VE NUMBERS S, FABRICATE DISTI JOB FI GSM& PROJE TECHI CAPIT.	ssure tion ootage Veri serial No. of 0000 78 000 78	(2) (3) (3) (3) (3) (3) (4) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Part I) Ight Tester (See IED AREAS. U. IT SECTIONS (I) IG ORGANIZAT DISTRICT SUPE NECT ENGINE CTION SERVICE OREMAN'S CO	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN ER ES - ASSIGN	est Point (4) aled sure (5) Pressure evation (6) Pale I 6-17 Date 7-1 TIONAL SHEET IF SO SHOW A DETA	949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-3 Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lower (3) Subtract s minimum (4) Subtract s "maximum" (5) Highest p (6) Add static indicated (7) A dead w of SMYS	and Serial No. 3000 6240 d By TIC PIPING S TION OF FACIL RENCE NUMB EMBLY TEST tatic head due at test pressure on static head due indicated test indicated test static head due n test pressure. The sure of test the sure on test the sure of th	7:00 pm, 6 889 8 hours, 3: of Pressure Rec. 86 KETCH ON BAC. ITY TESTED, M. ERS ON FACE of the elevation difference at minimum elevation difference and pressure.	ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING rence (between to retion' from PARI time during test, brence (between to retion' from PARI ne during test, and ording test, and ording test.	Point Max. Eleva Test Sect Min. Eleva Test Sect IT XIMUM ELEVA 3S AND ATTAC est point and ma I. point and minimum assure which pro	vation in bion ation in bion Date Last Ca 6-17-11 Date: ATION IN FE CHMENTS), aximum elevation in the control of the cont	520 I 520 I Finalibrated 7-13-1\(ET, MILE POIN FOR STATION ation) to vation) from ation) from i) to maximum iss level of 90%	FT FT Pipe Spec FM Make, Char Approv	Press. Al Tesi Min. Indicated Test Pressure at Max. Eleva	SSURE SECTION AND INCOME SECTION	(2) (3) (3) (3) (3) (3) (3) (4) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Pert I) Ight Tester (See IG ORGANIZAT DISTRICT SUPE NECT ENGINE CTION SERVICE OREMAN'S CO., GMS&TS	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN ER ES - ASSIGN DPY OF JOB)	est Point (4) aled sure (5) Pressure evation (6) Pale I 6-17 Date 7-1 TIONAL SHEET IF SO SHOW A DETA	949 949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY ILED SKETCH	
Time and Date Test Ended Actual Duration of Test Test Fluid User Water Make, Range, Barton 0-4 Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFER OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lower (3) Subtract s minimum (4) Subtract s "maximum" (5) Highest p (6) Add static indicated (7) A dead wo of SMYS s space pro	and Serial No. 3000 6240 d By: TIC PIPING S	7:00 pm, 6 889 8 hours, 3: of Pressure Rec. 86 KETCH ON BAC. LITY TESTED, MERS ON FACE of ED. to elevation differences at minimum elevation differences and properties at a dead of the control of th	ording Gauge K OF THIS SHEE INIMUM AND MA DF ALL DRAWING rence (between teration' from PART of time during test, erence (between teration' from PART ne during test, erence (between test part or testing to a pre- weight tester is us	Point Max. Eleva Test Sect Min. Eleva Test Sect I I I I I I I I I I I I I I I I I I I	vation in bion ation in bion Date Last Ca 6-17-11 Date: CHMENTS), aximum elevation aximum elevation um elevatior xduces a streenter the intermetation	544 I 520 I Finalibrated 7-13-1\(ET, MILE POIN FOR STATION ation) to ration) from ation) from i) to maximum ass level of 90% formation in the	FT Pipe Spec FM Make, Char Approv	Press. Al Tesi Min. Indicated Test Pressure at Max. Eleva	SSURE SECTION AND INCOME SECTION	(2) (3) (3) (3) (3) (3) (3) (4) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Pert I) Ight Tester (See IG ORGANIZAT DISTRICT SUPE NECT ENGINE CTION SERVICE OREMAN'S CO., GMS&TS	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN ER ES - ASSIGN DPY OF JOB)	est Point (4) aled sure (5) Pressure evation (6) Pale I 6-17 Date 7-1 TIONAL SHEET IF SO SHOW A DETA	949 949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY ILED SKETCH	
Time and Date Test Ended Actual Duration of Test Test Fluid Use Water Make, Range, Barton O-C Test Supervise PUT SCHEMA SHOW LOCAT (SHOW REFE! OF EACH ASS NOTES: (1) Add the s "minimum" (2) Use lowe: (3) Subtracts minimum (4) Subtracts "maximum (5) Highest p (6) Add static indicated (7) A dead wo of SMYS space pro	and Serial No. 3000 6240 d By: TIC PIPING S TION OF FACIL RENCE NUMB EMBLY TEST tatic head due the static head due indicated test indicated test indicated test interessure on test thead due to e test pressure eight tester is o or greater. Ho vided above.	7:00 pm, 6 889 8 hours, 3: of Pressure Records 86 KETCH ON BACK LITY TESTED, MERS ON FACE of the elevation different at maximum elevation different at minimum elevation different at min	K OF THIS SHEET INIMUM AND MADE ALL DRAWING rence (between teration' from PART of time during test perence (between teration' from PART and during test perence (between test of the test	Point Max. Eleva Test Sect Min. Eleva Test Sect IT XIMUM ELEVA SS AND ATTAC est point and ma It. est point and mi It. point and minimum assure which pro ed on any test,	vation in bion ation in bion Date Last Ca 6-17-11 Date: CHMENTS), aximum elevation aximum elevation um elevatior xduces a streenter the intermetation	520 I 520 I Finalibrated 7-13-1\(ET, MILE POIN FOR STATION ation) to ation) from ation) from (a) to maximum ass level of 90% formation in the	FT Pipe Spec FM Make, Char Approv	Press. Al Tesi Min. Indicated Test Pressure at Max. Eleva	SSURE SECTION AND INCOME SECTION	(2) (3) (3) (3) (3) (3) (3) (4) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	885 PSIG 875.5 PSIG Pert I) Ight Tester (See IG ORGANIZAT DISTRICT SUPE NECT ENGINE CTION SERVICE OREMAN'S CO., GMS&TS	Max. Indic Test Press Max. Test at Min. Ele ATRES Note 7) SE AN ADDI OF PIPE, ALS TION) ERINTENDEN ER ES - ASSIGN DPY OF JOB)	est Point (4) aled sure (5) Pressure evation (6) Pale I 6-17 Date 7-1 TIONAL SHEET IF SO SHOW A DETA	949 949 PSIG 950 PSIG 950 PSIG ast Calibrated -11 NECESSARY ILED SKETCH	

SB GT&S 0502563



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

3- ORIGINAL DOCUMENT SIGNED 6-19-11 4- original document signed 6-14-11@



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

Sheet ___2___ of ___2___

		DATA (TO B			PROJECT														
Feeder Main Number, Line Number, or Station Name Area Division/Dis						District					b Number		Date Job Authorized						
L-300A Central Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts							Fresno					41497306-T63 6-14-11							
		s to facilitate					T63, S	HT4 of 5)											
Hydrotest	L-300A	from MP 35						(Test sect											
Location Class Design Factor (F) MAOP to be Established for this 1 .72						or this Pipir	ng by this	Test 688 PSI		Future Design Pressure 688 Ps									
STATIC HEAD DUE TO Max. Elevation					544	_ Ft.	Static H	lead Calculatio	n										
ELEVATION DIFFERENCE Min. Elevation					520	_ Ft.	For Wa	ter	1	0,433 X Elev. Diff. =				10.40 PSIG					
(WHERE APPLICABLE) Elev. Diff.					24	Ft.	Other (Specify)		X Elev. Diff. =			PSIG						
Size	(Pipe Sp	ecificatio AF	on Plor ASTM (Grade		┦,	cotage to	1	Pipe Spec, and Footage Verified		At	of SMYS At Min.			essure to Sive 90%			
O.D.	W.T.	W.T. Long Seam (ERW, DSAW, Seamless, Etc.)					Be Tested		In	In Field			Fest Press.	Test Press.		SMYS			
34.00	.505		API 5L, GR X60, DSAW							0		38.60	48.25			1604			
34.00	.375		API 5L, GR X60, DSAW							0			64.98			1192			
34.00 34.00	.505		CAPS, GR Y60 API 5L, GR X65/70, DSAW (FIELD SAGSTITE						2 ea 0 2.9		38.60 35.63		48.25 44.54	53.50 49.20		1604 1,738			
34.00	.000	ArioL, C	IV VO	JII 0, DO	HAA (S	<u>1857170</u>	(1)	<u> </u>	<u> </u>	2.9		33.03	44.04	49,20		1,730			
						Career	-								+				
			····	<u></u>															
Minimum Test Pressure @ Max. Elevation 860							PSIG	To B	t Fluid e Used	- UNDEF	30% SN	ST DURATION BYS (1 HR. MINIM	NIMUM) 8 HOURS						
Maximum To	of Drocery	e @ Min. Eleva	tion	Ì		950	PSIG	WAT		1			IINIMUM) SEE ATTACHMENT 'A', GAS STD. A-34)						
Prepared By:		C W WHILL LIEVE	((())	(3) Date:		/ F	or Informa	ation or Change		-!		Approved By:	0.0	1 , (4	Da				
Richard Av		Kalana.	$ \mathcal{L} $				ALC: U	abral (925)	588-364	0		MAUR	(BCa	lral	7//	4111			
PART II - TESJ	ATÀGA) BE PREPARED	BY PER	ISON SUPE	rvising te	ST AT TIME	E OF TES	ST)		Note:		test pressure and written approval.	duration are	not to be change	ed .				
Time and Date 10:25 am, 6-24-11 Elevation a				n at Test	522 ET			Min. Required Test Press. At Test Point		869 PSIG	Max. Allowable Test		/A\	949 PSIG					
Reached Time and Date					evation in	522 FT 544 FT		Min. Indica	Min. Indicated		885 PSIG	Press at Test Point Max. Indicated Test Pressure		(4) (5)	949 PSIG				
	Actual Duration 8 hours, 35 min Min. Elevation in				vation in		520 FT	Min. Test F	st Pressure (2) 885 P: in. Test Pressure Max. Elevation (3) 875.5 F			Max. Test Pressure 950							
Test Fluid Used	j -			······································	1 103100	DOM			ecification an				1 Ot man, La	0100011	<u> </u>				
Make Range	A Ichael ha	lo. of Pressure Re	cordina	Gauge		Date Last	Calibrate	t Mak	e Ranne and	Serial No.	of Dead V	Veloht Tester ISea	Note 71	Da	e Last C	alibrated			
Barton 0-3			oor only	Ossgo		6-17-11		1,000		tange, and Serial No. of Dead Weight Tester (See Note 7) dler 50-3000 7850					Date Last Calibrated 6-17-11				
Test Supervised By: Date:							11	App	dyed By:	411	0		1		ate:				
		SKETCH ON BA						1	y >-1			- 1	14 7						
(SHOW REFER	RENCE NU	MBERS ON FACE	MINIMUI OF ALL	M AND MAX L DRAWING	IMUM ELEV S AND ATTA	ATION IN F ACHMENTS	EET, MI 6). FOR 8	LE POINTS, V STATION PIPI	ALVE NUMBE NG, FABRICA	RS AND IN TED UNITS	CORPOR AND SH	ATED AREAS. U ORT SECTIONS	ISE AN ADD OF PIPE, AL	ITIONAL SHEET SO SHOW A DE	IF NEC TAILED	ESSARY SKETCH			
OF EACH ASSEMBLY TESTED. NOTES:										DISTRIBUTION LOB EU E LAT SPONSODING ODGANIZATIONS									
(1) Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure at maximum elevation" from PART I.										JOB FILE (AT SPONSORING ORGANIZATION)									
		on test gauge at a lue to elevation d			st point and	maximum e	levation)	from	GS	GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT									
minimum		st pressure. Jue to elevation d	fference	(between te	st point and	minimum el	evation) f	rom	PR	PROJECT MANAGER/PROJECT ENGINEER									
maximum	test press	ure at minimum el	evation	from PART			··· compared to the "	· · · · · · · · · · · · · · · · · · ·	TEC	TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY									
 (5) Highest pressure on test gauge at any time during test. (6) Add static head due to elevation difference (between test point and minimum elevation) to maximum 										CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)									
indicated test pressure. (7) A dead weight tester is only required when testing to a pressure which produces a stress level of 90%										RECORDS SECTION (WC), GMS&TS									
of SMYS or greater. However, if a dead weight tester is used on any test, enter the in space provided above.								RE	ORT FAILU	IRES UN	JNDER TEST TO GAS ENGINEERING & PLANNING								
1-00	GIN	AL DOG	UN	ノモのて	2161	2001	6 -	30-11											
2.000	9,775	Document	vince v	4	21.31	6P	5-2	11-11											
regular to the second	114	100 1 100		t was easy from	GRAP STA														

SB_GT&S 0502564