

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 1

SP5 2 Diablo 9715461 May 2, 2011 Internet filter of the field of a flag by the filter filter of the pressure 0		V DATA (TO BE PRI ne Number, or Station Na		vea		/District				Ĵ	ob Number		Date Job A	\ulhorized			
Control Control Design Prevent (*) MOCP is be Established for this Priprigs by this flast See Control			ŀ	2			Diat	olo			9715	461	May 2, 2011				
Biol Date Delay Factor (F) MOCP to be Equivalent for this Paylog by the Test 390 PEG Found Date Found 600 PC STATIC HEDDULE TO Max Elevation 57 FL Static HedDULE TO Max Elevation 16 PSIG Child HEDDULE TO Max Elevation 13 FL Child HedDULE TO Max Elevation 16 PSIG Child HERE APPLICABLY Even Ott - PRes Specification PSIG Pres Specification PSIG Pres Specification Pr	escription of Job Incl		umbers, a	A COLUMN TWO IS NOT THE OWNER.	osts								1				
3 5 390 960 600 pr STATCHEND DUE 10 Max Elevation 57 FL bits of table Cabulation 0.433 X Elev. Diff.= 16 PSIG INVERTEX PULCISUE Eve. DR. 38 FL Dave (Specify) Provide 9.63 SMD (FL PSIG <																	
ELEVATION OFFERENCE Mit. Elevation 19 FL For Water 0.423 X Elev. DL* 16 PSIG WHERE APPILOARE Eve. UM, 33 FL Over (Spoch) XElev. DL* PSIG Stage AT or ASIM Grade Bot Test Press. At the At Max. At Max. At Max. Over (Spoch) Stage AT or ASIM Grade Bot Test Press. Ever (Mit. Ever	cation Class 3	상황은 방법을 방법하는 것은 것을 가지 않는 것을															
Electronic Unit Deviation Other Application Other Application Page Specification Page	STATIC HEAD					culation			10.								
State Proc Specification Proc Specification </td <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td colspan="3"></td> <td colspan="2"></td> <td colspan="2"></td> <td></td> <td colspan="3">100</td>				· · · · · · · · · · · · · · · · · · ·									100				
DD WiT Long Seam (ERW, DSAW, Seambiss, Els.) Be Teited In Field MAOP Test Press. Test Press. SMMS Integen Test Pressure @ Max, Elevation 585 PSIG Test Fluid MINIMUM TEST DURATION 8 House integen Test Pressure @ Max, Elevation 685 PSIG Test Fluid MINIMUM TEST DURATION 8 House integen Test Pressure @ Max, Elevation 685 PSIG Test Fluid MINIMUM TEST DURATION 8 House integen Test Pressure @ Max, Elevation 685 PSIG Test Fluid					36 Ft. Othe			Pij							Pressure to		
Image Test Pressure @ Max. Elevation 585 Psice Test Fluid MINIMUM TEST DURATION 8 Hou adminut Test Pressure @ Max. Elevation 685 Psice	Size API or ASTM							Fo	Footage Verified			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Give 90% SMYS		
Image Test Pressure @ Max. Elevation 585 PSIG To be Lised UNDER 2005 SUM3(T HER.MINIMUM) 8 HOU and Last Pressure @ Min. Elevation 685 PSIG WATER -30% SM78 & OVER (8 HRS.MINIMUM) -30% SM78 SM78 TACUMENT 'W, GAS STD. A.34) ecdacted	dacted			×		1	<u></u>		-1010000		iii-	L		ł.			
Immun Tust Pressure @ Min, Elevation 685 PSIG PREINSTALLATION TEST (SEE_ATTACH/HENT 'N; GAS STD. A:4) eclacted TIL 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. arand Date 5-16-11 Elevation in 49 FT Min. Required Test Press. At Test Point (1) 589 PSIG Max. Allowable Test 67 Pressure 5-16-11 Max. Elevation in 57 FT Test Pressure (2) 602 PSIG Max. Indicated Max. Indicated 61 and Date 5-16-11 Max. Elevation in 19 FT Test Pressure (2) 602 PSIG Max. Test Pressure (5) 60 al Duration 8 hts Min. Elevation in 19 FT at Max. Elevation (3) 599 PSIG Max. Test Pressure (6) PSI Fild Used Press and Breini No. of Pressure Recording Gauge Date Last Calibrati Max. Test Pressure (6) PSI L 703 0-10000, PSI Date Last Calibrati AMAY Press An AD Incorego Varified (Sce Part I) Add test for break Max. Reque and Serial No. of Pressure and Serial No. of Dressure and Serial No. of Pressure Ana ADDITIONAL SHEET IF INCOSAN Max. Test Pressure 11-29-11	nimum Test Pressu	re @ Max. Elevation			585	PSIG	Tol	Be Used	- UND	ER 30% SI	MYS (1 HR. M	NIMUM)		8	HOURS		
edacted III_TESTIONTA (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. acted and Data 10:45 Pressure 5-16-11 Pressure 10:45 Pressure 5-16-11 Pressure 10:45 And Data Ended a Duration 8 hrs Mar. Elevation in Test Section 19 FT Ann. Indicated Mar. Test Pressure (2) 602 PSIG Test Section 19 FT Ann. Indicated Mar. Elevation in Test Section 19 FT And Serial No. of Pressure Recording Gauge Date Last Calibrated Ange, and Serial No. of Pressure Recording Gauge Cold Last Calibrated Marke, Range, and Serial No. of Pressure Recording Gauge Cal Last Calibrated Marke, Range, and Serial No. of Pressure Recording Gauge Settematic Piping Settematon di	Maximuni Test Pressure @ Min. Elevation				685 PSIG			ATER					IENT 'A', GAS	STD. A-3	4)		
acted without written approval. and Date 10:45 Pressure 5-16-11 Elevation at Test 49 FT Press. At Test Point (1) State 5-16-11 Ended 5-16-11 Date 5-16-11 Ended 5-16-11 Date 5-16-11 Test Section 57 FT Test Section 19 FT Min. Indicated Max. Indicated Min. Test Pressure (2) at Max. Elevation in Test Pressure Test Section 19 FT Min. Test Pressure (3) State Section 19 FT And Date Press at Test Point Press at Test Point (4) Pyee Specification and Foctage Verified (See Part) Above Amerge and Serial No. of Dead Weight Tester (See Nole 7) Date Last Calibrat Amerge and Serial No. of Dead Weight Tester (See Nole 7) Date Last Calibrat Amerge and Serial No. of Dead Weight Tester (See Nole 7) Date Last Calibrat Amerge and Serial No. of Dead Weight Tester (See Nole 7) Date Last Calibrat Amerge	Redacted						•		•			_#					
Pressure 5-16-11 Elevation at Test April Apr	ART II - TEST DATA (I edacted	TO BE PREPARED BY P	ERSON S	UPERVISING TE	ST AT TIM	IE OF TE	ST)		Note				are not to be cl	nanged			
and Date 5-16-11 Max. Elevation in test Section 57 FT Init. Initiaties (2) 602 PSIG Test Pressure (5) PSI al Duration 8 hrs Min. Elevation in test Section 19 FT Max. Test Pressure (6) PSI at Max. Elevation in test Section 19 FT Max. Test Pressure (6) PSI at Max. Elevation in test Section 19 FT Max. Test Pressure (6) PSI at Max. Elevation in test Section 19 FT Max. Elevation (3) 59 PSIG Max. Test Pressure 61 atter test Section Pipe Specification and Foolage Verified (See Part) Max. Elevation (6) PSI atter test Section 5-2-11 AMETEK 0-3500 PSI, S/N_2845 11-29-11 Iacted 5-2-11 AMETEK 0-3500 PSI, S/N_2845 11-29-11 Iacted Sectence Sectence 11-29-11 11-29-11 Iacted Sectence Sectence Sectence 11-29-11 Sectence Sectence Sectence Sectence 11-29-11 Iacted Sectence Sectence Sectence 11-29-13 Max Elevation	ime and Date est Pressure leached	5-16-11					49 FT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			589 PSI			(4)	672 PSIG		
Min. Elevation in Year. Hear Pressure (c) Max. Test Pressure (c) PSI Fluid Used Above Pipe Specification and Footage Verified (See Part I) Above Above 11-29-11 LT03 0-1000,PSI Date Last Calibrated Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated 11-29-11 Checked Total Component (C) Set East Calibrated Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Date Last Calibrated 11-29-11 Checked Total Component (C) Set East Calibrated Maxe, Range, and Serial No. of Dead Meight Tester (See Note 7) Date Last Calibrated 11-29-11 Checked Total Component (C) Set East Calibrated Maxe, Range, and Serial No. of Dead Meight Tester (See Note 7) Date Last Calibrated 11-29-11 Checked Component (C) Set East Calibrated <t< td=""><td>me and Date est Ended</td><td>5-16-11</td><td colspan="2">5-16-11</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td>602 PSI</td><td></td><td colspan="2">Colored And Propagate</td><td>605 PSIG</td></t<>	me and Date est Ended	5-16-11	5-16-11								602 PSI		Colored And Propagate		605 PSIG		
Fluid Used Pipe Specification and Footage Verified (See Part I) ter Above a, Range, and Serial No. of Pressure Recording Gauge Date Last Calibrated 1, 703 0-1000, PSI Schematic Piping Sketch on BACK OF THIS SHEET Make, Range, and Serial No. of Dead Weight Tester (See Note 7) Vice Composition OF FACILITY TESTED, MINUMA AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAI Schematic Piping Sketch on BACK OF THIS SHEET Points, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAI W COCATION OF FACILITY TESTED, MINUMA AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKET Act AssEMBLY TESTED. Distribution Test Distribution Add the static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure on test gauge at any time during test. GSM&ITS RESPONSIBLE DISTRICT SUPERINTENDENT Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum televation" from PART I. GSM&ITS RESPONSIBLE DISTRICT SUPERINTENDENT Highest pressure on test gauge at any time during test. Add attachead due to elevation difference (between test point and minimum elevation) from "maximum televation" from PART I. GSM&ITS RESPONSIBLE DISTRICT SUPERINTENDENT Yadistic head d	ctual Duration f Test	al Duration					19 FT			(3)	599 PSI				618 PSIG		
a, 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 Calibrat L 703 0-1000, PSI 5-2-11 AME TEK, 0-3500 PSI, S/N_2845	est Fluid Used Vater			1.000.00		L	Pipe S	pecification				<u> </u>		<u></u> <u></u>			
acted Date: SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET Image: Control of Facility TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAL W LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAL W LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAL WA REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKET Act ASSEMBLY TESTED. DISTRIBUTION Test: Distribution Add the static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure at minimum elevation from PART I. JOB FILE (AT SPONSORING ORGANIZATION). 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 minimum elevation) from "maximum test pressure at minimum elevation" from PART I. PROJECT MANAGER/PROJECT ENGINEER Highest pressure at minimum elevation inference (between test point and minimum elevation) from "maximum elevation difference (between test point and minimum elevation) from "maximum elevation difference (between test point and minimum elevation) to maximum indicated test pressure. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB	lake, Range, and Serial		ng Gauge				d Ma	ke, Range,				(See Note 7)					
SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET W LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINTS, VALVE NUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSAI W REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATHON-PIPING, FABRICATED UNITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKET ACH ASSEMBLY TESTED. TES: Add the static head due to elevation difference (between test point and maximum elevation) to "minimum indicated test 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 on test gauge at any time during test. Subtract static head due to elevation difference (between test point and maximum elevation) from "maximum televation" 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) from "maximum televation" 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) from "maximum televation" 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 indicated test pressure. A dead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater.	edacted		0-2-11 AMĘTE				1 0-1000 FOI, O/142040				Date						
ACH ASSEMBLY TESTED. IES: Distribution Add the static head due to elevation difference (between test point and maximum elevation) to "minimum test pressure on test gauge at any time during test. JOB FILE (AT SPONSORING ORGANIZATION) Subtract static head due to elevation difference (between test point and maximum elevation) from minimum indicated test pressure. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT Subtract static head due to elevation difference (between test point and minimum elevation) from "maximum test pressure at minimum elevation" from PART I. PROJECT MANAGER/PROJECT ENGINEER Highest pressure on test gauge at any time during test. TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY Highest pressure on test gauge at any time during test. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) A dead weight tester is used on any test, enter the information in the space provided above. RECORDS SECTION (WC), GMS&TS CAPITAL ACCOUNT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING	SHOW LOCATION OF F SHOW REFERENCE N	ACILITY TESTED, MININ UMBERS ON FACE OF /	UM AND	MAXIMUM ELEV	ATION IN	FEET, M S). FOR	ILE POINTS, V STATION PIP	ALVE NU	ABERS AND	INCORPO	RATED AREA	S. USE AN A	DDITIONAL SI	HEETIFN	ECESSARY		
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 GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT Subtract static head due to elevation difference (between test point and minimum elevation) from PROJECT MANAGER/PROJECT ENGINEER *maximum test pressure at minimum elevation* from PART I. PROJECT MANAGER/PROJECT ENGINEER Highest pressure on test gauge at any time during test. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) Add static head due to elevation difference (between test point and minimum elevation) to maximum CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) Adead weight tester is only required when testing to a pressure which produces a stress level of 90% of SMYS or greater. RECORDS SECTION (WC), GMS&TS * CORDE LOGAL CARED DOC UNDERCS SIGNES ON SOLDED OD G-21-11	OF EACH ASSEMBLY T IOTES:	ESTED.							DISTRIBU	ION							
Subtract static head due to elevation difference (between test point and maximum elevation) from PROJECT MANAGER/PROJECT ENGINEER Subtract static head due to elevation difference (between test point and minimum elevation) from PROJECT MANAGER/PROJECT ENGINEER Subtract static head due to elevation difference (between test point and minimum elevation) from PROJECT MANAGER/PROJECT ENGINEER Highest pressure on test gauge at any time during test. TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY 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. 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. REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING	"minimum test press	sure at maximum elevatio	n* from P/	ART I.	naximum e	nevation)	10						DENT				
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 indicated test pressure. 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. - CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) RECORDS SECTION (WC), GMS&TS REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING - CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)) Subtract static head	I due to elevation differen			maximum (elevation)	from										
Add static head due to elevation difference (between test point and minimum elevation) to maximum indicated test pressure. CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB) A dead weight test pressure. A dead weight test 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. RECORDS SECTION (WC), GMS&TS - ORAGIO NUMERATE DECIMINED DECIMINED SIGNED S	(4) Subtract static head due to elevation difference (between test point and minimum elevation) from maximum test pressure at minimum elevation from PART I.								TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY								
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.) Add static head due	to elevation difference (t			num eleva	ition) to m	aximum		CAPITAL AC	COUNTIN	G (FOREMAN'	S COPY OF	IOB)				
SPACE PROVIDED TO CHORE AND CONTRACT AND CON) A dead weight teste	r is only required when te							RECORDS SECTION (WC), GMS&TS								
- ORIGINAL DOCUMENT SIGNED 5-16-11 (4) Original document signed 5/2/11 DORIGINAL DOCUMENT SIGNED A-19-11	space provided abo	vê.					······································			ILURES UN	IDER TEST T	O GAS ENGI	NEERING & PL	ANNING			
DERIGINAL DOCUMENT SIGNED STOTICE (4) Original document signed 5/2/11 DERIGINAL DOCUMENT SIGNED A-19-11	1-021611	AL FIELD	000	UMEN	5-51	GNG	1000			an tata a							
JORIGINAL DOCUMENT JIEDOO A-19-11	D-ORIGIN	al Docume	N	DIGNED	> .5 <	10-1		(4) (Prigind	dou	mut Si	gned	5/2/11				
	3) MRIGH	Mr. UDOUR	1014	216000	1-19	derte.											