

62-4921 (Rev. 2/04) California Gas Transmission (Use in Accordance with Gas Standard A34 and GO 112-D)

Sheet 1 of 2															
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)															
Feeder Main N	lumber, Line N	lumber, or Stat	ion Name	Area	Division/	mainten	. 1994 19		Job Number	10.00	Date Job Authonized				
Description of	L-1.	3Z Reference Dra	wing Numbers	T and Ploëlir	ne Mileposts	Penins	sula	<u>детт</u>	41491	(355	August 9, 2011				
Test 2 - Hydrostatically test tie-in pieces, hydrostatic test piping and existing 30" and 36" L-132. Existing pipeline material listed; ie. pipe, elbows,															
sleeves ar	sleeves are from the "Material of Record" (refer to Dwg 41497355, sheet 7 of 7)														
Hydrotest	L-132 fro	m MP 31.9	)5 - 34.68	Hillsb	orough, CA	(Tes	l seclio	n 34)							
Location Class	; D	esign Factor (F)	MAOF	o be Estal	blished for this Pipin	g by this Test	0 00	Future C	lesign Pressure	9			400 0010		
3		. <u>.</u>			600 ei	40	<u>y psp</u>	6					400 PSIG		
STAT	TIC HEAD DUE	то	Max, Eleval	bon	099 FI.	Ca'culatio	n	an an anna a		57 000					
ELEVA	TION DIFFER	ENCE	Min. Elevati	ion —	007 Ft.	For Water	For Water		<u>0.433 X I</u>	=lev, Diff. =		Polo			
(WHE	RE APPLICA	BLE)	Elev. Diff.		132 Ft.   Other (Spec			Dina Si	X	Elev. Diff. =	% of SMVS	PSIG			
Siz	6	Liha ol	API or /	ASTM Grad	9	Footage to		Footage Verified		Al	At Min.	Al Max.	Give 90%		
0,0.	0.D. W.T.		Seam (ERW,	DSAW, Sea	amless, Elc.)	Be Tested		In Field		MAOP	Test Press.	Test Press.	SMYS		
36.00	0.500	Pipe, API 5L X-65, DSA		DSAW	(ltem#100	) 1	<u>I</u>		Haz.	22.15	33.23	45.03	1625		
30.00	0.375	Pipe, AP	15L X-65,	DSAW	(Item#103	) 5	.54*		OBB	24.62	36.92	50.03	1463		
36.00	0.3125	Pipe, AF	15L X-52,	DSAW	(item#1	) 46	4676'		-000	44.31	66.46	90.06	813		
30.00	0.375	Pipe, API 5L X-52, DSAV		DSAW	(Item#2	)	-9439		SDRR	30.77	46.15	62.54	11/0		
30.00	0.3125	Pipe, API 5L X-52, DSA		DSAW	(Item#3	) 1	10			30.92	00.44	10.00	910		
12.10	0.373	Pipe, AP	I DL GK E	O OMLO	(Item#10)		0 11	Ann O	D'GO	19.45	42.02	39.49	1000		
2.313	0.154	A PIDE, API OL GK D, SWLS		(Itom#13)		r 71	MANA		8.84 13.22		17.01	4005			
2.010	0.104	104   PIDE, API OL OK D, ONIL		, omico	(Itellin Io		1	PVIUE				1.21			
					<u></u>						<u> </u>				
		:							· · · · · ·				· · · · · ·		
		ter en		1		1	Tes	t Fluid	MINIMUN	TEST DURA	TION	1			
Minimum Te	st Pressure	@ Max. Elev	ation		600	PSIG	ToE	le Used	- UNDER 30	% SMYS (1 HR. M	INIMUM)		8 HOURS		
Maximum Te	est Pressure	@ Min Flev	ation		813	PSIG	447	AIER	- PREINSTA	LLATION TEST (S	EE ATTACHMEN	IT 'A', GAS STO. A	-34)		
Prenared By:		<u>e</u> m <u>e</u>		Date:	F	or Information	or Chang	es, Ca¥:	<u></u>	Approved By	ANA	à à :	Dale:		
Redacte	d			- 8/9	<u>/10   N</u>	Aark Cabr	al (925)	) 588-3640	) 	mar	RIDO	not 1	9-10-11		
PART II - TES	T DATA (TO	BE PREPAREI	BY PERSON	I SUPERVIS	SING TEST AT TIM	E OF TEST)			Note: Min	imum test pressure ithout written aport	end duration are aval.	not to be changed			
				······································			****	· · · · · · · · · · · · · · · · · · ·	<u>.</u>	-122					
Time and Date 105 Pm					Elevation at Test	50	58	Min. Requir	ed Tesl	65	( Max. Allo	lowable Test 83			
Reached		10-20-11			Point		FT FT		Press. At Test Point		Press at 1	ATTest Point (4) PSI			
Time and Date Test Ended	8	10	10-20-11 Max. Eler 10-20-11 Test Sec			GC	FT	Min. Indical Test Press	ed Jre	(2) PSIG	r Max. India Test Pres	idicated (5) PSIG			
Actual Duration 8 - Rours					Min. Elevation in	56	57	Min. Test P	ressure	69	GV2 Max. Test Pressure				
of Test 10 - Mubble Test Section FT al Max Elevation (3) PSIG at Min. Elevation (6) PSIG											) PSIG				
Test till Ga	sate	6					DA	BA6	01, (55	DJESZ,					
Make, Range,	and Serial No	o, of Pressure F	tecording Gau	ge	Date Last	Calibrated	Mak	ke, Range, and	Serial No. of C	Dead Weight Testér	(See Nole 7)	Dale	Last Calibrated		
CUTH	NCCK	0-100	10 MLF	G422	<u>555 70-</u> Date:	10-11		MELE rover	\$ 25	-3000	1-1-4	<u>321 (0</u> -	- <u>()</u> -( (		
Redacte	d				10-20	2-11		Redac	cted			1-2-1	~.		
PUT SCHERU	ATIC PIPING	SKETCH ON B	ACK OF THIS	SHEET	MELEVATION	FEET, MILEP	OINTS V	ALVE MAUBE	RS AND INCO	RPORATED ARE/	S. USE AN ADD	TIONAL SHEET I	ENECESSARY		
(SHOW REFE	RENCE NUM	BERS ON FAC	E OF ALL DR	AWINGS AI	ND ATTACHMENT	s), FOR STA	FION PIPI	NG, FABRICA	TED UNITS AN	ID SHORT SECTION	ONS OF PIPE, AL	SO SHOW A DET	AILED SKETCH		
NOTES:	JE 1021 150	1 to b/s	2. <sup>2</sup>				antin management	DIS	TRIBUTION						
(1) Add the : *minimum	static head du	e to elevation d	ilference (betw elevation* from	veen test po PART L	int and maximum e	levation) to		JOB	FILE (AT SPC	INSORING ORGAI	NIZATION)		1		
(2) Use lowe	est pressure o	n test gauge al	any time durin	ig lest.	Val and made	Jourgland Ca-		GSI	ATS RESPON	SIBLE DISTRICT	SUPERINTENDE	NT	1		
(ə) Subtract minimun	n indicated tes	e to elevation ( pressure,	nnaiguce (Det	ween test pi	ant and maximum (	actanon'i nou	k	PRO	DIECT MANAG	ER/PROJECT EN	GINEER				
(4) Subtract *maximu	slatic head du	e to elevation	difference (bet elevation* from	ween test pr 1 PART I.	oint and minimum e	evation) from		TEC	HNICAL & CO	NSTRUCTION SE	RVICES - ASSIGI	VED JOBS ONLY			
(5) Highest	pressure on te	st gauge at an	y time during to	est.	and minimum atous	inn) (n mavim	aim	CAC	TAL ACCOUNT	UTING (FOREMAN		n. N			
indicated	l test pressure	CICYCUUN UNIE	vinco (veimeei	n ioar point i	and mention CCVS	any to maxim	0042	UNF	anna a	munter entremente		x			
(7) A dead v of SMYS	veignt tester is 6 or greater. H	only required lowever, if a de	when testing to ad weight test	o a pressur <b>e</b> er is used or	which produces a to any lest, enter the	irress level of Information in	su‰ 1 the	REC	AURUS SECTI	UN (NIC), GMS&T	<b>e</b> 1911 - National Maria				
soace of	ovided above.			-				REF	PORT FAILURE	S UNDER TEST 1	O GAS ENGINE	<b>RING &amp; PLANNIN</b>	G		



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



Sheet _2 _ of _2																	
PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																	
Feeder Main Number, Une Number, or Station Name Area Division/District													Job Number Date Job Authorized				
L-132 1 Peninsula												41497355 August 9, 2011					
Description of Job Include Reference Drawing Numbers, and Pipeline Mileposts Test 2 Hydrostatically test lie-in pieces, hydrostatic test piping and existing 30" and 36" L-132. Existing pipeline material listed: ie. pipe. elbows.																	
sleeves are from the "Material of Record" (refer to Dwg 41497365, sheet 7 of 7)																	
Hydrotest	L-132 fro	m MP 31.9	5-34.6	3 Hills	borough,	CA	(Te	est sectio	n 34)								
Location Class Design Factor (F) MAOP to be Established for this Plaing by this Test Future Design Pressure																	
3 .5 400 PSIG 400 PSIG																	
STAT	IC HEAD DUE	то	Max. Eleva	ation	699	Ft.	Static He	ad Calculatio	10		*						
<b>FI EVA</b>	TION DIFFER	ENCE	Min Eleva	lion	567	FL.	For Water 0.433 X			X Elev. D	)iff. =		57 PSIG				
	RE APPLICA	1151	Fley, Diff.		132 FL (			Decify)	x		X Elev.	 Diff. =		PSIG			
Trinc		Pipe Sp	ecification					<u></u>	Pipe Sp	pec, and	% of SMYS				Pressure to		
Siz	8 14/T	ASTM GR	A Grade			olage lo Tecled	Foolage Verified		AL MAOP T		At Min. Test Press	Al Max. Test Press	Give 90%				
4.60	0.404	Dino AD	ISI CDI	Q CMI	MIS (Hamt111			2/11	AL SAR		A 07		7 15	40.00	72/0		
1.00	0112	Pine AP	ISLOR	D, SWIL	s lite	m#19)	115'		MOL			5 34	7 96	10.00	6780		
36.00	0.115	Flhow I	R X-52	$\gamma_{-} c$	<u> </u>	em#4)	17 Ea.		mol		+	36.92	55.38	75.05	975		
30.00	0.500	Elbow. S	R. Grad	e Unkn	own (II	em#5)		3 Ea.	MDR		1		- 74 E W M				
36.00	0.500	Sleeve.	50000 SN	IYS	(it	em#6)		4 Ea.	MOR			28.80	43.20	58.54	1250		
30.00	0.500	Sleeve, S	0000 SN	(11	em#7)		4 Ea.	MOR			24.00	36.00	48.78	1500			
		500					1										
								-									
						****	1		<u> </u>	F				1	l		
Minimum To	el Droceuro i	May Flow	ition			600	PSIG	Tes	st Fluid Re Used	UNDER	UM TES 30% SM	SIDURAI VS(1HR.M	<u>ION</u> INIMUMD		8 HOURS		
NEIDINAH IC	311 1033010 1	W MOX. LICH					WATER - 30% SMYS				IYS & OVE	S & OVER (8 HRS. MINIMUM)					
Maximum Te	est Pressure	@ Min, Eleva	ation			813	PSIG	IG - PREINSTA				ALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34)					
Description     Date:     For Information or Changes, Call:     Approved By:     Date       Redacted     3/1/1     Mark Cabral (925) 588-3640												5-10-11					
PART II - TES	T DATA (TO I	DE PREPAREL	BY PERSO	N SUPER	VISING TEST	ATTIME	OF TEST	r)		Nole:	Minimum	lest pressure	and duration are	not to be changed			
								•			without	written appro	val.				
Time and Dale	2	1:04	5 PM		Company of the constant of			110	The product To			165			CIR		
Test Pressure Reached	- 	10:20	0-11		Elevation Point	et lest	FT		Press. At Test Point		(1)	PSIG	Press at	Test Point (4	) PSIG		
Time and Dale	3	a: 1	5 per	a m Max. Elevi			6	699	Min. Indicated			669 1		Max. Indicaled			
Test Ended			Test Secti	on		FT Test Pressure			(2) PSIG Test f			essure (5) PSIG					
Actual Duratio	n	بورز پین	Min, Eleva	ition in	13	567 FT	Min. Test Pressure at Max. Elevation 19			PSIG al Min		A Pressure	PSIG				
Test Fluid Use	d	110		. 65	1 reationed	<u>511</u>		Pipe S	toe Specification and Footage Verified (See Part I)								
water Brild Children Brild Children Brild Children Brild Children Brild Children Brild Children Brildren Brildr																	
Make, Kange, and Senal No. of Pressure Recording Gauge Uate Last Calibrated Make, Kange, and Senal No. of Dead Weight Tester (See Note 7) Date Last Calibrated Calibrated Make, Kange, and Senal No. of Dead Weight Tester (See Note 7) Date Last Calibrated Last Calibrated Make, Kange, and Senal No. of Dead Weight Tester (See Note 7) Date Last Calibrated Last Calibrated Make, Kange, and Senal No. of Dead Weight Tester (See Note 7) Date Last Calibrated Last Calibrated Make, Kange, and Senal No. of Dead Weight Tester (See Note 7) Date Last Calibrated Last Cal														-10-11			
Test Supervisi	ed 8v:			5-4/4		Date:	<u> </u>	Approv/Redacted									
													<u>.</u>				
PUTSCHEMATIC PIPING SAETCH UN BACK OF THIS SHEET SHOET SHOET IN FEET, MILE POINTS, VALVE MUMBERS AND INCORPORATED AREAS. USE AN ADDITIONAL SHEET IF NECESSARY																	
(SHOW REFE OF EACH AS	RENCE NUM	BERS ON FAC	EOFALLD	KAWINGS	ANU ATTAC	HMENTS)	. FOR S	TATION PIPI	ING, FABRICA	IEU UNITS	AND SH	UKI SECII(	INS OF PIPE, A	LOU SHOW A DET/	NLEU SKETCH		
NOTES: DISTRIBUTION																	
(1) Add Ine "minimu	sialic nead du n lest pressuri	e to elevation d e at maximum (	merence (pe elevation* fro	m PART I.	hour suo uis	Kaliniti ele	vauonj to	<i>x</i>	30E	onic (ALS	n 014501	UNO UNUAI	NOTION				
(2) Use lowe (3) Subleart	est pressure or static head du	n test gauge at e to elevation r	any time dur lifference (br	ing lest. Stween test	l point and m	aximum ele	avation) fr	rom	GSN	AGTS RESP	ONSIBU	E DISTRICT	SUPERINTENDI	INT			
10) Soudiact state indu due to elevation ometence (penyeen test point and maximum elevation) nom minimum indicated test pressure. PROJECT MANAGER/PROJECT ENGINEER																	
(1) Subuact maximu	in lest pressu	e at minimum t	elevation* fro	m PART I.	rhoint ann tu	mannan eis	about th	with	TEC	HNICAL &	CONSTR	UCTION SEI	RVICES - ASSIG	NED JOBS ONLY			
(5) Highest (6) Add stat	pressure on le ic head due lo	si gauge at any elevation differ	ume during ence (betwe	test. en lest poi	nt and minim	ım elevəlio	in) to max	ximum	CAF	PITAL ACCO	DUNTING	FOREMAN	'S COPY OF JO	B)			
indicated	i test pressure velobi tester is	only required y	vhen lestino	to a pressi	ire which pro	duces a str	ress level	l of 90%	REC	CORDS SE	CTION (M	(C). GMS&TS	8				
of SMYS	or greater. H	owever, if a de	ad weight les	ster is used	I on any test,	enter the fr	nformatio	in in the	DE	ORTEAN	IRECTIM	DER TERT T	O GAS ENCINE	FRING & DI AMMAN	<u>a</u>		
share hi	VINCU BOUYE.	an An ann an Anna an Anna Anna Anna Anna							1361	were krutt	er the series of a state	mania a funda f	- MENTER PROPERTY		547 S.S.S.		