



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

					ROJECT ENGINE				· · ·						***************************************]
	fain Number, Line Number, or Station Name Area Division/District 32A @ Redacted De Anza									1	Job Number	Date Job Authorized				
Line 132	A @ Reda	Reference Dray	uina Number	e and Pir		Anza					41474079	<u> </u>	·			-
Addition	of new 24"	valve on L-	132A at	Rengst	orff.			25								
				-			-i								 	1
1 7 0		esign Factor (F)	13346	Di / F	C.		economic a	T es.		Kitti				lakin i dan mening lighten kapung		
Location Clas		0.5	MAO	r to de Es	stablished for this Pi	thuô nà ai		SIG	iure Desig	n Pressure		- Attitude of the second of the second		4	00 PSIG	
	TIC HEAD DU		Max, Eleva		Ft.		Head Calcula	tion								
	ATION DIFFER		Min. Eleval	ion	Ft.			F		0,433 X Elev		***************************************		PSIG		
(WH	ERE APPLICA	BLE) Pipe Spe	Elev. Diff.		0 Ft.	Other	(Specify)	Pir	pe Spec. a		v. Diff. =	% of SMYS		PSIG	Pressure to	-
Siz			API or	ASTM Gr			Footage to		otage Veri	· ·	At	At Min.	At Ma		Give 90%	
O.D.	W.T. 0.375"	Long (Seamless, Etc.)	. -	Be Tested	102	In Field	4/11	MAOP	Test Press.	Test Pre		SMYS	
24.000"	0.373		APPOL,	700, c	AWL (NSPER)	1	<i>3</i> 40	10	24	78	21.33	32.00	42.6	-	1,688	MAX.
								10	<u> </u>						<u></u>	1
					in make the the methods accepted to the make the second of					,				$\neg \uparrow$		1
1.050"	.1540	Seff	80 A	106 0	1 <i>R.B</i>			18:	113	8"]
							· ·	de	511.	5			3			
				*-				1	***************************************	-		**************************************				
· · · · · · · · · · · · · · · · · · ·		- Company of the Comp				L	Te	 st Fluid	I M	NIMUM TE	ST DURATIO	N	<u> </u>			
Minimum Te	st Pressure () Max. Elevati	on		600	PSIG	To	Be Used	-U	NDER 30% S	MYS (1 HR. MINI	MUM)		1	HOURS	
	est Pressure	@ Min. Elevati	on		800	PSIG	j 12	ATER			/ER (8 HRS. MINII TION TEST (SEE		IT 'A', GAS S	TD, A-34	¥)	
Prepared By: Redacted		1		Date:		For Inform Redact	nation or Chan ed	nes Call			A Redacted	d ,	5	Ag/ii	Date:	
PART II - TES	T DATA (TO B	E PREPARED B	Y PERSON		ISING TEST AT TIM	VE OF TE	ST)		1	ote: Minimum	test pressure an twritten approval	d duration are	not to be cha	nged		
		T				······································		· · · · · · · · · · · · · · · · · · ·		WILLIAM	t written approva	·				
Time and Date Test Pressure Reached		10:30 5/14/		.7 ₀₅ ;	Elevation at Test		\mathcal{O}_{FT}		quired Te At Test Po		600 PSIG	Max. Allov Press at T	vable Test	(4)	800 PSIG	
Time and Date		11:30	- integran		Max. Elevation in			Min. Ind		iii (1)	627	Max. Indic		(4)	632	1,68
Test Ended	***************************************	5-14-	(1	J.	Test Section		O _{FT}	Test Pre	essure	(2)	PSIG	Test Press		(5)	PSIG	P5 I
Actual Duration of Test	i ^s .,	1 hr.	是多人	1.10	Min. Elevation in Test Section		O FT	1	st Pressur Elevation	e (3)	27 PSIG	Max. Test at Min. Ele		(6)	G32 PSIG	Q.K.
Test Fluid Used	HER		:		***************************************	in ann an Aire	Pipe S		and Foots	ge Verified (S				7-7-		
Make, Range, a		of Pressure Reco	ording Gauge)	Date Lest	t Calibrate	d Mal	e, Range, a	and Serial	No. of Dead V	Neight Tester (Se	e Note 7)		Date Last	: Calibrated	
CLP Test Superside	1703	<u>0-/00</u>) ps]	L	<u> 5/2</u>	111		METE roved By:			DOST	5/22		//-Z Date:	9-10	
Rec	dacted				5-14	1-/1	·	точец Бу.	Re	edacted			ius ė		4-2011	İ
PUT SCHEMAT	TIC PIPING SK ON OF FACIL	ETCH ON BAC	OF THIS S	HEET MAXIMI	JM ELEVATION IN I	FEET M	LE POINTS V	ALVE NUM	BERSAN	TIMEORPOE	PATEMERS'	ISBLAN ADDE	1	a de la constante de la consta	CESSARY	
(SHOW REFER OF EACH ASSE	ENCE NUMBE	RS ON FACE C	FALL DRAI	MINGS A	ND ATTACHMENTS	s). FOR	STATION PIPI	VG, FABRI	CATEDU	NITS AND SH	ORT SECTIONS	OF PIPE, ALS	O SHOW A	DETAILE	D SKETCH	Ė
NOTES:	nicorie	. ·	all all a	a 2					ISTRIB		- 1990					:
"minimum t	test pressure a	t maximum elevi	ation" from P	ART I.	int and maximum el	ievation) t	0				RING ORGANIZA	ener saar – senaan er				i L
		est gauge at any o elevation diffe			oint and maximum e	alevation)	from	G	SSM&TS F	RESPONSIBLI	E DISTRICT SUP	ERINTENDEN	Т			
minimum ir	ndicated test pr	essure.			oint and minimum el			Р	ROJECT	MANAGER/PI	ROJECT ENGINE	ER				
"maximum	test pressure a	at minimum eleva	ition" from P	ART I.	o o o o o o o o o o o o o o o o o o o		eregie.	T	ECHNICA	L & CONSTR	UCTION SERVIC	ES-ASSIGNE	ED JOBS ON	LY		
6) Add static f	read due to ele				and minimum elevati	ion) to ma	ximum	Ċ.	APITAL A	CCOUNTING	(FOREMAN'S C	OPY OF JOB)				
A dead weight					which produces a s			R	ECORDS	SECTION (W	C), GMS&TS					
of Siving of space provi		over, ii a dead W	eignt tester i	a used of	rany test, enter the	monnalic	ATTE LIE	R	EPORT F	AILURES UNI	DER TEST TO G	AS ENGINEER	ING & PLAN	NING		



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187, 731,												Sneet	_1	_ 0î	1		
			E PREPAREC					25.70		·]	
Feeder Main Number, Line Number, or Station Name Area Division/District Job Number L-132A Southern Peninsula 41474079											I	Date Job A					
				Southern			Penin	sula			4147407	79	Ap	oril 19,	2011		
Description of J Test 3 — Ti Record" (re Hydrotest	ie-in piec efer to Du	es Location	n A & B, hyd 79, sheet 5	drostatic te: of 5)	st piping a			132A. E	kisting pip	eline r	material list	ed is from	the "Ma	aterial c	đ		
Trydromac	LIVEIN	nom mi v.	.000	o iviounita	ii vion, s	0,1 1	10000	1000011 41/						1 - 1 - 1 - 1			
Location Class		Design Factor (F) .5	MAOP	o be Establishe	d for this Pipir	ng by this Test 400			Design Pressu	ге			œ ·	4	00 PSIG		
STATIO	C HEAD DU	E TO	Max. Elevatio		Ft.	Static Head (Calculati	on					**				
ELEVATION DIFFERENCE Min. Elevation				5 28	Ft.	For Water		i	0.433 X	Elev, Di	ff. =	12 PSIG					
(WHER	(WHERE APPLICABLE) Elev. Diff.				Ft.	Other (Speci	fy)			CElev. E	lev. Diff. = PSIG						
Size	: 	Pipe Specification API or ASTM G				Footag	re to		ec. and Verified		At I	% of SMYS At Min. At Ma			Pressure to Give 90%		
0.D.	W.T.	Long	Seam (ERW, D		, Etc.)	Be Te			Field	N		Test Press.	Test Pr		SMYS		
24.00	.375	Pipe, AP	I 5L, X-60,	DSAW (tem #29)	43'	3"	42	2.2	2	1.33	32.00	37.3	33	1688		
16.00	.3125	Pipe, AP	I 5L, X-52,	ERW (item #30)	45	j'	4	4'	1	9.69	29.54	34.4	16	1828	1	
16.00	.250	Pipe, Gr	B, SMLS	(1	tem #11)	290'	3""	28	8.5	3	6.57	54.86	64.0	00	985	MAX	
													-	-			
									i								
Minimum Test	Pressure	@ Max. Eleva	tion		600	PSIG	To F	st Fluid Be Used ATER	- UNDER 3	0% SMY	T DURATIO S (1 HR. MININ R (8 HRS. MINIM	NUM)		8	HOURS		
Maximum Tes	t Pressure	@ Min. Eleva	tion		700	PSIG	VV.	AIEK	100		N TEST (SEE)		r 'A', GAS	STD. A-3	4)		
Redacted		<u> </u>		7-1		edacted	e Chapa	on Cally			edacted			4)	Date:		
-com ema				ord/fit					- 10 (10 m)				_/_		5/11/11		
PARTIL-TEST Dan Dawso		BE PREPARED	BY PERSON S	UPERVISING T	EST AT TIME	OF TEST)					st pressure and ritten approval.	duration are r	ot to be ch	anged			
Time and Date Test Pressure Reached		5-12-11 1145 620	PSI	Elevati Point	on at Test	30	FT	Min. Require		(1)	600 PSIG	Max, Allowable Test Press at Test Point		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Time and Date Test Ended		5-12-11 1945 67	7 PSI		levation in		30 FT		Press, At Test Point Min. Indicated Test Pressure		620 PSIG Test Pre		icated		695 PSIG	985	
Actual Duration		8 hrs.			evation in			Min. Test Pr		(2)			Test Pressure		695	O.K	
of Test		8:		Test S			FT	at Max. Elev		(3)	620 PSIG	SIG at Min. Elevation (6) PSIG					
Test Fluid Used Water						ŀ	Libe 2b	ecification and	rootage verif	ea (5ee	гапт)						
Make, Range, an CPL 1703/0)-1000 P		cording Gauge		Date Last C 5-2-11	Calibrated		e, Range, and IETEK, S/N		ight Tester (See PSI	Note 7)	Date Last Calibrated 11-29-10					
Test Supported Bold Date: Redacted 7-14-						7	Appı	roved By: Rec	dacted			Date: 7-/3-//					
PUT SCHEMATA SHOW LOCATIO (SHOW REFERE	N OF FACIL	JTY TESTED, N ERS ON FACE	UNIMUM AND	MAXIMUM ELE													
OF EACH ASSEN NOTES:	AIDT 1 FOI	EU.						DIST	RIBUTION								
(1) Add the stati			erence (betweer evation° from PA		maximum ele	vation) to				NSORIN	IG ORGANIZAT	LION)					
(2) Use lowest p	pressure on	test gauge at ar	ny time during te	st.				GSM	&TS RESPON	ISIBLE D	STRICT SUPE	ERINTENDEN	r.				
 Subtract statements minimum ind 			ference (betwee	n test point and	maximum ele	evation) from		PRO.	ECT MANAG	ER/PRO	JECT ENGINE	ER .					
4) Subtract stat	tic head due	to elevation diff	ference (betwee vation* from PA		minimum ele	vation) from			yan eser ana ar		TION SERVICE		D IOBOV	MIV	1	ŀ	
 Highest pres Add static he 	sure on test ead due to e	gauge at any ti			mum elevatio	n) to maximun	ń	***			OREMAN'S CO		.U 0000 U	: %L_1			
of SMYS or g	ht tester is o greater. Ho	nly required wh wever, if a dead	en testing to a p weight tester is	ressure which p used on any te	roduces a str st, enter the in	ess level of 90 nformation in th	1% 10	*	ORDS SECTION				ndami's S	Walter Commen			
space provid	led above.			7	,,	and the second		REPO	REFAILURE	SUNDE	R TEST TO GA	IS ENGINEER	ING & PLA	NNING		1	





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Sheet 1 of 3

PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER)																	
		Number, or Stati		Area		Division/		A			Jo	b Number 🌃	207.±	Date Job Author	ized		
	L-1			South				Penin	sula	79	April 19,2011						
Description o	f Job Includ	e Reference Drav	ving Numbers	s, and Pipel	line Milepo	ists	I 422A	Colatia	, ninalina i	matarial lia	الممارا	الم مام ما	awa alaa	ves, are fron	- 4l- c		
		es, rryurosu " (refer to D					L-10ZP	. Existing	3 hihaima i	Haterial lis	steu, i	ie. pipe, eit	iows, siee	res, are non	1 1116		
		from MP 0.0	0057 - 1.4				CA	(Test	sections 4	0 & 41)		· · · · · · · · · · · · · · · · · · ·					
		ı Q	015														
Location Clas	s	Design Factor (F) .5	MAOF	P to be Esta	ablished fo	or this Pipir	.0	rest 400 PSI		Design Pressu	re				40	0 PSIG	
		2020-00-00-0	44 = 1	rica de la companya della companya della companya della companya de la companya della companya d	33	r.									-70	o rolo	
	TIC HEAD DU		Max. Elevat	Series	5	- Ft.		ead Calculation	n.	12 _{PSIG}							
The Control of the Co							For Wat			0.433 X		· · · · · · · · · · · · · · · · · · ·	1010				
(WHERE APPLICABLE) Elev. Diff. 28 Ft. Oil Pipe Specification								pecify)		pec, and	CElev.	ev, Diff. = I % of SMYS				SIG Pressure to	
Siz	re	Tipe opi		ASTM Grad	fe .		\dashv $_{F}$	ootage to	1 min	e Verified		At	At Min.	At Max.	1	Give 90%	
O.D.	W.T.	Long Seam (ERW, DSAW, Seamless, Etc.)						e Tested	ln l	Field		MAOP	Test Press.	Test Press.		SMYS	
16.00	.3125	Pipe, API			Spiriture and the second			40'	0		1	19.69	29.54	34.46		1828	
24.00	.375	Pipe, API		<u> </u>				86'	118	<u>3' RK</u>		21.33	32.00	37.33	\bot	1688	
16.00	.250	Pipe, SMI				#11)		335'	0		-	28.44	42.67	49.78	_	1266	
24.00	.3125	Ell, Forge				***************************************		7 ea.	7	RS(29.54	44.31	51.69	1	1219	
24.00	.375	Ell, Forge			<u> </u>			11 ea.	11	PS(·	36.57	54.86	64.00	+	985	
24.00	.375	Ell, Forge				1		2 ea.	7.	R(30.48 24.62	45.71	53.33	+	1182	
24.00	.375	Ell, Forge	a, 1-52 (item#1	<u> </u>			7 ea.	L / t Fluid	2SC	1	T DURATIO	36.92	43.08		1463	
Minimum Te	st Pressure	@ Max. Elevat	tion			600	PSIG	To E	le Used	- UNDER 3	0% SM	YS (1 HR. MINI	MUM)		8	HOURS	
Maximum Ti	WATER - 30% SMYS & OVER (8 HRS. MINIMUM) Maximum Test Pressure @ Min. Elevation 700 PSIG - PREINSTALLATION TEST (SEE ATTACHMENT *A', GAS STD. A-34)																
Redacted				Date:		I E	edacte	ion or Chanai d	or Calls	<u> </u>		Redacted				ate:	
				05/08/2)		<u> </u>				[8]	(/	
PART IL- TES Reda		BE PREPARED)	SUPERVIS	SING TES	T AT TIME	OF TES)		Note: Min	ilmum ti vithout v	est pressure an written approval	d duration are	not to be change	i 	697	
Time and Date Test Pressure Reached		Poc	6" A		Elevation Point	at Test	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$7_{\rm FI}$	Min. Requir Press. At To		61Z PSIG	est Point (4)		760 PSIG			
Time and Date Test Ended)	180	9511		Max. Elev Test Sect		2	$\mathcal{S}_{FT}^{(l)}$	Min. Indicated Test Pressure			620 PSIG	rated sure (5)		623 ₆ PSIG		
Actual Duratio	n	8 h	15		Min. Elevi Test Sect			/ FT	Min. Test Pi	And the second second) O (3)	FSIG	Max. Test	1.1000010		620 PSIG	
Test Fluid Use				L_	1631.0601	IUII		Pipe Sp	ecification and	Footage Verif			et with Ele	(VABO11 /	0)	1010	
Rep Policy	WAT	ER_			1.6	30 K ob - 100	N 100 Sept. 35	/	430V	6	N 20 N 1 1 N F	* 1.000 - 1.000	* - 6 Y - 1	151	er Ligaret Serge	0 12 2721	
CF		of Pressure Red	ording Gauge 0 - / 07			Date Last 0	Saliorateo ///	A	METE	sK	283	eight Tester (Se 45 C	19018 /) 1-350	1 2	. 25	Calibrated	
Test Super R	edacted			•		Dale:	9-11	Appr	Redact	æd				/ Da	te: 6	9/n	
PUT SCHEMA			CK OF THIS S	SHEET	MELEVA	TIONINE	EET MI	DOINTO W	II VE NITIVES	De ANITINA	יפעםם	TENADERO	HEE AN ADDI	TIONAL SHEET	ENE	PEGGVDA	
(SHOW REFE	RENCE NUM	BERS ON FACE	OF ALL DRA	WINGS AN	ND ATTAC	HMENTS)). FOR ST	ATION PIPIN	IG, FABRICAT	ED UNITS AN	ID SHO	RT SECTIONS	OF PIPE, ALS	SO SHOW A DET	AILE	SKETCH	
NOTES: (1) Add the s	tatic head due	to elevation diffe			int and ma	ximum ele	vation) to			TRIBUTION FILE (AT SPC	NSORI	NG ORGANIZA	TION)				
(2) Use lower	st pressure or	i at maximum ele i test gauge at an	y time during	test.					GSM	&TS RESPON	ISIBLE	DISTRICT SUF	ERINTENDEN	IT-			
minimum	indicated test						25		PRO	JECT MANAG	ER/PR	OJECT ENGINI	EER				
"maximun	n test pressur	e to elevation diff e at minimum ele	vation" from F	PART I.	int and mi	nimum ele	vation) fro	m	TEC	INICAL & CO	NSTRU	CTION SERVICE	ES - ASSIGNI	ED JOBS ONLY			
(6) Add static	head due to	it gauge at any ti elevation differen	me during tes ce (between t	it. test point ar	nd minimu	ım elevatic	on) fo max	imum	CAPI	TAL ACCOUN	ITING (FOREMAN'S C	OPY OF JOB)				
(7) A dead we		only required wh							REO	ORDS SECTIO	OW) NC), GMS&TS		•			
	or greater. Ho vided above.	wever, if a dead	weignt tester	IS USEC ON	any test,	enter the li	normation	iii the	REP	ORT FAILURE	SUND	ER TEST TO G	AS ENGINEER	RING & PLANNIN	IG		
/2 -1	43.00			1	6 6	tol!	11.	*	P	1002	775	Č.				à	

Red in Considered by & Scot Class





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

Sheet

		DATA (TO B		RED BY P	ROJECT							1					
Feeder Main N	lumber, Line L-1 :	Division/District uthern Peninsula							Job Number Rev. 1 41474079			Date Job Authorized April 19, 2011					
Description of	Job Include	Reference Dra	wing Numbe	ers, and Pip	eline Miler	osts	1 4081	4004	-	4.41	a Barra a santa	es no	and earlies	an anti-the of the	*		
		es, nyarost " (refer to D					દ્રાઇ !	L-132A	ł, Ex	disting pip	eline mater	iai iist	ea; ie, pipe	elbows	, sleeves, are	from the	
		from MP 0.					CA	(7	est s	sections 4	0 & 41)				*		
Location Class		Design Factor (F)	MA	OP to be Es	stablished	for this Piping	g by this	Test 400	PSIC	1	esign Pressure	!	***************************************		4	400 PSIG	
STAT	IC HEAD DU	ЕТО	Max, Elev	ration	33	Ft.	Static F	lead Calc	culation	1							
ELEVATION DIFFERENCE Min. Elevation 5 Ft. F								iter			0,433 X E	lev. Diff.	=		12 _{PSI}	3	
(WHERE APPLICABLE) Elev. Diff. 28 Ft.							Other (Specify)					Elev, Dif	f. =		PSIG		
Pipe Specification											pec, and			of SMYS		Pressure to	
O.D.	Size API or ASTM O.D. W.T. Long Seam (ERW, DSAI					Ffc.)		Footage to Be Testeo			Verified Field		At IOP	At Min. Fest Press.	At Max. Test Press.	Give 90% SMYS	
24.00	.250	Pipe, X-42 DSAW (item					+-	2062'			62'			68.57	80.00	788	
24.00	.3125	Pipe, X-5				tem #13)	1	612'		61			.54	44.31	5181.69	1219	
24.00	.250	Pipe, X-5				tem #14)		40'		40			.92	55.38	64.62	975	
24.00	.281	Pipe, X-4	2 SMLS		(it	em #15)		16'		16		40	.67	61.01	71,17	886	
24.00	.281	Pipe, 40,	000 SM	/S, SML	S (it	em #16)		4403'		440	0'	42	.70	64.06	74.73	843 /	
24.00	.286	Pipe, X-4	2, DSAV	V	(ii	tem #17)		46'		46		39	.96	59.94	69.93	901	
24.00	.3125	Pipe, X-5	2, DSAV	N .	(it	tem #18)		253'		253				44.2431	51. 61 69	1221-12	
Minimum Te:	st Pressure	@ Max. Eleva	tion			600	PSIG			9 Used	d - UNDER 30%			ŪM)		B HOURS	
Maximum Te	Maximum Test Pressure @ Min. Elevation 700 P									TER					IT 'A', GAS STD. A-	34)	
Redacted				Date: 5/8/20)11	Re	edacte	ed				Re	dacted			Date:	
PART II - TES	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																
					•			•					tien approval.			1,60	
Time and Date Test Pressure		15-9	1-11		Elevatio	n at Test	Min. Required Test					-	612	Max. Alloy	vable Test	760	
Reached	<u></u>	(0	AM		Point / FT					Press. At Test Point (1			PSIG 620	Press at T	est Point (4)		
Time and Date Test Ended		978	00 01	2	Max, Ele Test Se	evation in ction	2	CEFT	20	Min, Indicate Test Pressu	Pressure (2) PSI			Max. Indic	ζ23 _€ PSIG		
Actual Duration of Test	Í	1	Tres		Min, Ele Test Se	vation in	1/15			Min. Test Pr at Max. Elev		(3) PSIG at Min. El				FSIG	
Test Fluid Use	VATE	2						Pip	pe Spe	cification and	Footage Verifie	d (See P	art I)		3.		
		of Pressure Re	cording Ga	uge	AT E	Date Last C	alibrated		Make,		Serial No. of De			Note 7)	Date L	ast Calibrated	
Test S Reda	cted	70//		- V V V V V		Date:	(2)	1	Appro	Redacte	A COURT OF THE PERSON NAMED IN	/ \		1000	Date		
SHOW LOCAT	ION OF FAC	KETCH ON BA	MINIMUM A	ND MAXIN	IUM ELEV	ATION IN FE	ΞΕΤ, MIL	E POINT	rs, va	VE NUMBER	RS AND INCO	PORATI	ED AREAS. U	SE AN ADDI	TIONAL SHEET IF	NECESSARY	
OF EACH ASS			OF ALL DI	RAWINGS	AND ATTA	(CHMENTS)	. FOR S	STATION	PIPING			SHORT	r Sections (OF PIPE, ALS	SO SHOW A DETAI	LED SKETCH	
NOTES: (1) Add the st	alic head due	to elevation dif	ference (bet	ween test r	oint and n	naximum elev	vation) to	0			<u>FRIBUTION</u> FILE (AT SPON	ISORING	ORGANIZAT	1ON)			
"minimum	test pressure	e at maximum ele r test gauge at a	evation" from	n PART I.			•,				&TS RESPONS				ir		
(3) Subtract s	tatic head du	e to elevation di			point and r	naximum ele	vation) f	from			4				3 3.		
(4) Subtract s		e to elevation dif			point and r	ninimum elev	vation) fr	rom		PRO.	JECT MANAGE	KVPKOJ	eu enginei	EK			
"maximum (5) Highest pr		e at minimum ele st gauge at any t								TECH	HNICAL & CON	STRUCT	TION SERVICE	ES - ASSIGN	ED JOBS ONLY		
(6) Add static		elevation differer			and minin	num elevatio	n) to ma	ximum		CAPI	TAL ACCOUNT	ING (FC	REMAN'S CC	PY OF JOB)		-à	
(7) A dead we	eight tester is	only required wh								REC	ORDS SECTIO	۱ (WC),	GMS&TS			5	
	or greater. Hi vided above.	owever, if a dead	ı weight tesi	ter is used (on any tes	t, enter the in	normatic	on in the		REP(ORT FAILURES	UNDER	R TEST TO GA	S ENGINEE	RING & PLANNING		
Red In	ic (A)	rikkjar <u>y</u>	by	9 6	[4.4]	Cla	8 }	×.	PE	10	27756						
7		W.C.F	M	10	III.	Ç	123/	14									
			10	-/ (~41								₩.				

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

Sheet ___3___ of ___3_

		DATA (TO B		ED BY PR	ROJECT E	NGINEER	(١)			· · · · · · · · · · · · · · · · · · ·							
Feeder Main	Number, Line	Number, or Stat	on Name	Area	Ì	Division/Di	strict				Job	Number 🚄	ev.1	Date Job Authorize	d		
		32A		South				Penins	sula		414740	74079 April 19, 2011					
Description of	Job Includ	e Reference Dra	wing Numbe	rs, and Pipe	line Milepo	sts			12.2			21.2					
							. 16" L-	132A. E	xisting pipe	eline mate	erial lis	ted; ie. pi	pe, elbows	, sleeves, are	from the		
		" (refer to D					3.4	75		0.0.44)			* 11-4	***************************************			
Hydrotest	L-132A	from MP 0.	00571	.489 IV	'iountain	view, (JA	(Test	sections 40	J & 41)							
Location Clas	s T	Design Factor (F)	I MAC	P to be Est	ablished for	this Pinina	by this Te	st	Future D	esign Pressu	re				***************************************		
3		.5				Carrent decorati		00 PSI	1	englis i resea	,			:	400 PSIG		
OTAT	TIC HEAD DU	IC TO	Max. Elev		33	Ft.	Cinila Haa	d Calculatio									
			Min. Eleva	_		-			11	C 5 (1) C 10				12 ps/			
ELEVA	ITION DIFFE	RENCE	5	. Ft.	For Water		r	0,433 X	Elev. Diff	[.=		12 PSI	3				
(WHE	RE APPLICA		Elev, Diff,		28	Ft.	Other (Spi	ecify)			(Elev. Di			PSIC)		
		Pipe Sp	ecification				1		Pipe Sp				% of SMYS		Pressure to		
Siz O.D.	e W.T.	Tong	API or Seam (ERW	ASTM Grad		e i		tage to Tested	Footage In F			At AOP	At Min. Test Press.	At Max. Test Press.	Give 90% SMYS		
						-		The state of the s									
24.00	.375	Pipe, Gr.				m #19)		54'	5			5.57	54.86	64.00	985		
24.00	.250	Sleeve, T	-			n #21)		ea.	1	RSC		5.71	68.57	80.00	788		
24.00	.312	Sleeve, T				n #22)		ea.	2	. Rsc		6.63	54.95	64.10	983		
24.00	.375	Sleeve, T	ype B, A	TSM 24	100		2	ea.	2	TSC	25	5.60	38.40	44.80	1406		
						m #24)			1.74		Ŀ						
4.50	.237	Pipe, API				n #25)	1	3'	43).85	16.27	18.99	3318		
24,00	.500	PIPE, A	P.I. 5L,	X-60,	DSAV	J		4'	4	" RSC	16	.00	24.00	28.00	2250		
	*								A. C. C. C.								
		i.															
			_					Tes	Fluid			DURATIC					
Minimum Te	st Pressure	@ Max. Eleva	tion			600	PSIG		e Used			(1 HR. MINII			3 HOURS		
Maulmum To	of Decour	@ Min Eleve	llan	- 1		700 i	PSIG	VVA	TER			(8 HRS, MININ		T 'A', GAS STD. A-	0.40		
0 10		@ Min. Eleval	UOTI	Date:				n or Change	s. Call:	- FIXLING IA		noved Av.	ATTACHMEN				
Redacted			1	25/8/201	11	1 —	edacte]		edacted		5	Date: 72(11		
PART II - TES	T DATA (TO	BE PREPARED	BY PERSON	I SUPERVIS	SING TEST					Note: Min	imum fes	t pressure and	duration are	not to be changed			
	•			e so se seditatio			or of the					tten approval.			,		
Time and Date	,,	1-1	2-11				1			1	15 1-190						
Test Pressure		3 7	9-11 0 AM	.	Elevation a	at Test	7	FT	Min. Require	a rest				rable Test 🧼 📜	700 PSIG		
Reached			7-11		Point		- 1	F1.	Press. At Tes	(1)	PSIG	1					
Time and Date Test Ended		1990	800 0	200	Max. Eleva		28		Min. Indicate Test Pressur		(2)	620 PSIG	* ** *** *** *** *** *** *** *** *** *	Max. Indicated Test Pressure (5)			
		-	/		Test Section	***************************************	1	F 1 6			70			PSIG CZO			
Actual Duration of Test	ř.	8	nes]	Min. Elevation in Test Section			FT ²	Min. Test Pre at Max. Eleva	essure 🤣 ation	(3)	623 PSIG	2 F 21 F 24				
Test Fluid Useg	j .				. see south				cification and f				4 Crivini, EIB	- (U)	PSIG		
<i>\</i> \/,	ATER	·. •				المساكم والمشاور الممراة الماسان			HB0	NE							
Make, Range,	and Secial No	of Pressure Re	9		D	ate Last Ca		Make	, Range, and S	erial No. of D	ead Weig	war and the same	and the same of th	Date La	ist Calibrated		
Test Supervise	11/16 By 1	791 - Y1	HODE	psz		ライン Date:	- //	Apple	X8151	< 2	2	<u> </u>	15 <u>00</u> 1	05x // Date:	7-19		
Reda	cted				4	5.9	7-11	^V F	edacted	-			Lan	17-//	314/n		
PUT SC		481-78-48-78-78-78-78-78-78-78-78-78-78-78-78-78	en er 1110e	J.JEET						W 100 00 00 00 W	55 C.	1		<i>v //</i>			
SHOW LOCAT	ION OF FAC	LITY TESTED, N	AINIMUM AI	ID MAXIMU	IM ELEVAT	ION IN FEE	ET, MILE F	POINTS, VA	LVE NUMBER	S AND INCO	RPORAT	ED AREAS, I	JSE AN ADDI	TIONAL SHEET IF I O SHOW A DETAIL	NECESSARY		
OF EACH ASS	EMBLY TEST	ED.	OF OFFICE	MINOSAL	SOUTH WOL	HREETS EQU	ronom	HOM FIFTH	U, I ADNIUM I E	רואים ביי	אטחט ע	, OLUMB	OF FIFE, ALS	O OFFICE A DETAIL	LUSACION		
NOTES:	ana essa a	42 (142) 126 (nee	CLARE W.Y			£	362.353		************	RIBUTION	LICONO.	2001	TIONE				
		to elevation diffe at maximum ele			int and max	amum eleva	mon) to		J08 F	ILE (AT SPO	NSURIN(G ORGANIZA	HON)				
(2) Use lowes	t pressure or	test gauge at an	y time durin	g test.	dada la la l		- 42 N +	- "	GSM8	TS RESPON	SIBLE DI	STRICT SUP	ERINTENDEN	T.			
	tatic head du ndicated test	e to elevation diff pressure.	erence (beti	veen test po	unt and ma	ximum elev	auon) tron	1	PROJ	ECT MANAG	ER/PROJ	ECT ENGINE	ER				
(4) Subtract s	fatic head du	e to elevation diff			oint and min	imum eleva	ition) from							magnic (18 Salignations Casal In 1911 or 1914)			
		e at minimum ele t gauge at any ti							IECH	NICAL & CO	vstruc"	HON SERVIC	ES - ASSIGNE	ED JOBS ONLY			
(6) Add static	head due to	elevation differen			nd minimur	n elevation)	to maxim	um	CAPIT	AL ACCOUN	TING (FC	DREMAN'S CO	OPY OF JOB)				
	est pressure. Ight tester is	only required wh	en testina to	a pressure	which prod	uces a stres	s level of	90%	RECO	RDS SECTIO	N (WC).	GMS&TS			I		
of SMYS o	r greater. Ho	wever, if a dead									Security for the first			عائشت والعالم المعاش			
space prov	ided above.		7						REPO	KI FAILURE	SUNDEF	K LEST TO G	AS ENGINEER	RING & PLANNING			

PS 24



(3)

"maximum test pressure at minimum elevation" from PART I.

Add static head due to elevation difference (between test point and minimum elevation) to maximum

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

Highest pressure on test gauge at any time during test.

indicated test pressure.

Pacific Gas and Electric Company



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Gas Pipeline Facilities Strength Test Pressure Report (Use in Accordance with Gas Slandard A-34 and GO 112-D) (For Pipeline Facilities Designed to Operate over 100 PSIG) Sheet of PART I - DESIGN DATA (TO BE PREPARED BY PROJECT ENGINEER) Feeder Main Number, Line Number, or Station Name Job Number Date Job Authorized Peninsula 41474079 April 19, 2011 Southern Description of Job - Include Reference Drawing Numbers, and Pipeline Mileposts Test 1 - Temporary pup and cap pieces to seal off tied ends of existing piping to facilitate hydrostatic test (refer to sheet 4, details 1, 2, & 3) Hydrotest L-132A from MP 0.0057 - 1.489 Mountain View, CA (Test sections 40 & 41) Location Class Design Factor (F) MAOP to be Established for this Piping by this Test Future Design Pressure 400 400 **PSIG** 3 PSIG .5 STATIC HEAD DUE TO Ft. Static Head Calculation Max. Elevation Ft. For Water **PSIG ELEVATION DIFFERENCE** 0.433 X Elev. Diff. = Min. Elevation (WHERE APPLICABLE) Ft. Other (Specify) X Elev. Diff. = **PSIG** Fley, Diff. Pipe Spec, and % of SMYS Pressure to Pipe Specification Give 90% API or ASTM Grade Footage to Footage Verified At Min. At Max. Be Tested In Field Test Press. SMYS O.D. W.T. Long Seam (ERW, DSAW, Seamless, Etc.) MAOP Test Press. 21.33 .375 API 5L. GR X-60, DSAW 32.00 37.33 1688 24.00 OD 1829 .3125 API 5L, GR X-52, ERW 4 19.69 29.54 34.46 16.00 ひり MINIMUM TEST DURATION Test Fluid 600 **PSIG HOURS** To Be Used - UNDER 30% SMYS (1 HR, MINIMUM) Minimum Test Pressure @ Max. Elevation WATER - 30% SMYS & OVER (8 HRS, MINIMUM) 700 PSIG -PREINSTALLATION TEST (SEE ATTACHMENT 'A', GAS STD. A-34) Maximum Test Pressure @ Min. Elevation For Information or Changes, Call: Date: Date: Redacted Redacted 4/20/19 Redacted 4/18/11 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. Time and Date 8:40 A.M 0 600 200 Min. Required Test Max. Allowable Test Elevation at Test Test Pressure FT Press. At Test Point (4)**PSIG** 4-28-2011 (1) **PSIG** Press at Test Point Point Reached 639 624 16 0 Min. Indicated Max. Indicated 💪 Time and Date Max, Elevation in FT (2) PSIG Test Pressure PSIG PSI Test Pressure Test Ended Test Section 639 624 0 Min. Test Pressure **Actual Duration** Min, Elevation in Max. Test Pressure PSIG PSIG of Test **Test Section** at Max. Elevation at Min. Elevation Test Fluid Used Pipe Specification and Footage Verified (See art I) X·SI X-60 UJATER 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 62119 0-1000 TOURCE AMIEK Redacted Redacted -28-11 PUT SCHEMATIC PIPING SKETCH ON BACK OF THIS SHEET TONA SHEELID NEWS SARY SHOW LOCATION OF FACILITY TESTED, MINIMUM AND MAXIMUM ELEVATION IN FEET, MILE POINT TONAL SHEET LAND SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS). FOR STATION PIPING, FABRICATED LAITS AND SHORT SECTIONS OF PIPE, ALSO SHOW A DETAILED SKETCH OF EACH ASSEMBLY TESTED, DISTRIBUTION NOTES: Add the static head due to elevation difference (between test point and maximum elevation) to JOB FILE (AT SPONSORING ORGANIZATION) (1) "minimum test pressure at maximum elevation" from PART I. GSM&TS RESPONSIBLE DISTRICT SUPERINTENDENT 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 PROJECT MANAGER/PROJECT ENGINEER minimum indicated test pressure. Subtract static head due to elevation difference (between test point and minimum elevation) from

TECHNICAL & CONSTRUCTION SERVICES - ASSIGNED JOBS ONLY

REPORT FAILURES UNDER TEST TO GAS ENGINEERING & PLANNING

CAPITAL ACCOUNTING (FOREMAN'S COPY OF JOB)

RECORDS SECTION (WC), GMS&TS

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