Subject:	Redacted]
Surveyor:	Redacted	

Redacted

This is a summary of experience at on the 25th of May 2012. I was called out to the address at approximately 5:45-6PM, for an odor complaint, by the on call supervisor, Redacted Redacte informed that the customer was reporting a gas leak around the area of her house, and that we had apparently been out to this particular address several times before, with apparently no success of finding a leak. I was on the backside ofRedacted finishing up a separate odor complaint, and I left as soon as I could. I arrived at the address at approximately 7PM, and met up with Redacted out of the Redacted and we proceeded to the address. Redact had informed me that we had been out to this address multiple times, with GSR's, and Redacted was on site the previous day, for almost 4 hours, and had no success in finding a leak. We made customer contact, and the customer informed us that she had been smelling gas, and that it was coming into her house through her vents at night, and that it was coming up the street at or through the water lines. She informed me that Redacted had been out to her residence the previous day, and that he had found 50 PPM at the service tee, and 15 PPM up by the house. She informed me that her hedge in her front yard was dying because of it as well. I asked her some basic questions about when she was smelling it, and where. She said that Redacted had found a small leak on one of her water heater lines, and that a plumber had come out to fix it. She was adamant about what she was smelling and where. I tried to describe what could create such small readings, such as natural methane pockets in the ground, that are not PG&E gas. She immediately proceeded to tell me that this entire area had been built on the site of an old ranch. I told her that was a perfect scenario to have small pockets of methane releasing a small amount of natural gas. I have experienced this same situation in Dublin, when I was doing

survey out of Redacted It was explained to me by crew foreman in the area, that parts of it were built using landfill, and the naturally occurring methane created by this was setting our machines of just the same as gas leaking from one of our lines would. Several grade 2, 2+, and grade 1 leaks were dug up, and entire stretches of main exposed and checked, and no leaks were ever found. If my memory serves me, they took samples of the gas and made the determination that it was naturally occurring methane. I explained to the customer that this same situation could be happening up here, with as minor as the gas readings were that Redacted had found. Not long after she then changed her story, and said that as far as she knew, the ranch started down by the Redacted and went part of the way up the hill, but she didn't know if it extended up as far as her house. I explained to her that I would walk the area with my machine, a DPIR(Calibrated 5/25), and I would check the entire area and report anything that I found. $\mathbb{A}^{\text{Redacte}}$ had a laptop with him, and was able to pull up the gas plat map, so I could look at it and get an accurate idea of where the gas main and services were. Her service was a ¹/₂ plastic line, coming off of a 2 inch main, 6 feet out from property line, short side service. Her service, along with every other house in this area, is joint trench. The electric, gas, and telecommunications lines, are all run in the same trench, which is backfilled with sand. As a surveyor, this tells me that any potential gas leak, will move much more easily through the sand, than it would through a heavier clay soil. As far as findings leaks goes, in my experience, the gas will migrate through the trench, in every direction possible, through every duct that it can, in every direction that it can, because there is so little resistance from the sand itself. This makes it much easier as a surveyor to find a potential leak in an area like this. I walked the houses Redacted Redacted Redacted I checked every water box,

every disk in the street for sewer or water, every PG&E electric box, every telecom box, and every sewer cover in the driveways of the addresses, and I found nothing anywhere. The only possible leak that I thought I may have had, was at Redacted

made a sweep on the meter set, cupping every single fitting, and my machine went off. The machine takes a few seconds from the initial intake of air, to the initial read by the machine, so I thought it was in the area of the bypass tee on the outlet side of the meter. I told this to Redact as I was talking to her, and he went and got a soap bottle, and proceeded to spray down the entire meter set to be on the safe side. He did not find any leak anywhere, and asked if I would go back and sweep the set again. I did, and the most I could get was a small rise in the readings when I held the wand up to the regulator vent, and nothing else. I attributed the alarm on the machine going off, due to a small amount of purge coming off of the regulator, which is normal as it was explained to me. I explained to her, that the regulator is designed to turn down the pressure coming in from the service line, to house pressure, and the lines are constantly changing in pressure, and the entire purpose of the vent is to bleed off the high side of the line to prevent and overpressure. I explained that a very small amount is normal, and that I was unable to find any other read, or attribute it to anything else. She seemed to accept my answer, but asked me if I was going to report it, I told her I wasn't. She then told me that the alarm on my machine went off, and that there MUST be a leak there. I told her that there was no leak there, and that I can only attribute it to the regulator purging in a very minor way. She asked me why I wasn't going to report it, and I told her that I believed in the amounts that it happened, it was normal, and there was no need to report it. She told me that I should report it, so that they know, and that we should all, "be on the same playing field", which confused me slightly. I told her that I had no need to report something that I considered to be normal in my experience, and she did not want to accept that, and that I should report it, and that there WAS a leak there. I did not want to argue with her, so I let it go and moved on with the investigation. I proceeded to get my sub-surface probe, and my punch bar, and Redacted went over to the approximate

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location of the service tee, by her mailbox, also where she said that Redacted had probed holes, and we proceeded to punch holes there. We asked her how deep Chris had gone, and she said that he had punched down almost 3 feet at least. Redacted looked at each other and thought that was a little odd, because a full U.S.A was not done at the site, only the gas and electric were marked out, but no telecom lines were marked. We told her that the standard depth for punching holes is twelve inches, so that we don't drive a probe through an underground line and cause any damage to the lines or bodily harm to ourselves. I thought it was odd that Redacte would go so deep, as he knows this rule as well. My curiosity turned out to be right, because when I asked him about it on the following Tuesday after Memorial day, he said that he had only gone down 12", and that was it. Redacted punched holes in various places around the mailbox, the electric box, and a small telecom box set back into her hedge. I found no readings, and had no indications of a gas leak. She had said that her hedge was dying in a certain place, which is actually a good pre-cursor to a gas leak, as gas will dry out the soil and cause the vegetation to die out. This was my first and only positive sign of a potential gas leak, but I was wrong. I punched 3 different holes around the area that the hedge was dying, and couldn't get a single read anywhere. I proceeded to punch two more holes up by the gas meter, and could find nothing as well. I saw that there was a tree growing fairly close to the meter, and took a guess that the roots could possibly be growing into a line, but could find nothing on the surface, or sub-surface. I told her and her husband, he had come home by this point, that I had found nothing, at any of the areas that I investigated. She immediately went right back to (Redacted and that he got readings over the service tee, and up by the house, so there must be something there. I told her that from my findings, I didn't believe there was a gas leak present in the area, either in the trench, or in the street around the water main. I told her that readings were interesting in themselves, and that I would request a gas sample to be taken from the ground in the area, and send it off

to be tested, to make the determination whether it was out gas that was leaking out of the ground, or a natural methane pocket, or pocket of swamp gas. She wanted to know if a crew was coming out that night to take investigate it, and I told her that that would be up to the supervisors discretion. She seemed happy that I was going to request a sample, and that progress was going to be made. $\frac{\text{Redacted}}{\text{Waited on site for } \frac{\text{Redacted}}{\text{to speak to} \frac{\text{Redacc}}{\text{ted}}}$ Redacted and that it would be handled from there. .

SB_GT&S_0468083

Pacific Gas Electric Con	npany	Le	ak Repair, In	-	nd Gas Quar orm "A")	terly incident	Report	62-4060 TD-4110P-11-F01
Form Type 🔀 L Compliance Due			Ass	igned to Cons	truction			
Assigned to W		source]		9999-0		
	D	istrict - Year	- Series - Suffix	INITIAL	LEAK DAT	ra 🗧	Month - Da	sy - Year
Leal	«Number [*****	· · · · · · · · · · · · · · · · · · ·	SA Ticket #]		Valid Date	
	Location:	· ········	Above Ground I		· ···		PCC Number	01665
	Reported	11 - 21	······································	Time Repor Response T		(24 hr Time)	Paved Wall To Wa	
Gas Flow Stop	L	11 - 21	- 2003	Stopped T		(24 hr Time) (24 hr Time)	SAP Repair Order	# (
	dress: Rec	lacted		Cir	J	(= · ··· · ·····)	City: Re	dacted
Description of I	Reading Lo	cation: d	ig-in at svc 15' fr	om riser				3
Reported By: ●	Call In Foot Survey	-	obile Survey ther Employee	Surface at Rea	ond Location: O) Concrete) Asphalt Unsurfaced	Water/Marsh/Tidal Aboveground In Substructure	O Exposed Facility O Other
READINGS %GAS Instr (a) Grad	Grading Reason e (b) Code (c)	Down Grade Via Vent (Yes/No)	DATE	TIME (24 hr Time)	OPERATOR LAN ID	UNIT SERIAL NUMBER (Last 4 Digits)	LOCATION F	1
100 V 1		1	11 - 21 - 2003	13:15	REST		SVC	
		I I					l	·
		1						
	-*************************************	<u> </u>					<u> </u>	
		<u> </u>	 Modelski hardenski stračje posobila soljega u jezi stradnostaljega posobila soljega poso No soljega posobila soljega posobila soljega posobila soljega posobila soljega posobila soljega posobila soljega 			nemel Mercel	Annal (), Mara and Marin And () and () () () () () () () () () () () () ()	
					· · · · · · · · · · · · · · · · · · ·		1	
a Instrument Type Use b Enter Grade (1, 2+, 2 c Grading reason code A - Wall to wall and/o	d to Grade: E , or 3). Enter 0 is required if k r Continuously ible, E - Or	nter, <u>C</u> for ((zero) if no eak is grade Paved, n facility in e	leak is found. d as 1, 2+, or 2 and/ B - Near to, at, insid	licator, ⊻ for Visu for Is less than 2% de or under buildin tion, G - At lea Grade 3 downgrad	ual gas: g, ⊈ - Odorana st second custome	d next to public gathe r call out, H - Lea S - Leak Is suspec	epair required within 90 ring location, D - In forek k is reported as 0% Gas Visi ted to be on a copper servic	jn structure, jal,
Locat	ion Map W	all Map:	58	Plat: A05	Federa	al Land () Yes	No SYSTEM PR	ESSURE
Recorded Location Map Wall Map: 58 Plat: A05 Block: 014 O LP (<=10.5"WC)								
Normally Cathodically Protected Yes INO CPA: D58-10 MAOP (all) Image: HP (<=60psig)								
Year Inst: 198		Line # [1	Mile Poir			b # (TP only)	
For Leaks On Ser	vices: I	Viain Con	nected to Servi	ce 🔿 Cast Iron	Plastic	Steel Ins	stallation Year of Main	
(1997)			HIC	GH CONSI	EQUENCE	AREA 🛥		
High Consequenc Is leak source res Is leak source a m	ponsible fo	r HCA?		lo (Yes If dia	& press produc	e impact circle cr	L	d response applies)

		PE DATA		
SOURCE:				
	Compression Cou	upling Steel	O Girth Weld	
Body of Pipe	O Compression Cou	upling Stainless Steel	O Longitudina	l Weld
🔿 Drip	○ Fitting		O Other Weld	s
C Encapsulation	O Plastic Tee Cap		O Regulator/F	Pilot
○ Fusion Joint	O Pressure Control	Fittings	O Riser Valve	Threads
Other Mechanical Joint	○ Stab Type Fittings	\$	○ Threads	
○ Curb Valve	Tap Connection	1	O Unknown (F	Replaced Facility)
○ Line Valve	Non-corrodible pre	efab riser	○ Other	
🔿 Clamp	○ Riser			
Compression Coupling Plastic CAUSE:	Riser Inset Kit			
Atmospheric Corrosion	O Previously Damag	jed	O Weld Failur	e
External Corrosion	○ Vehicle		⊖ Equipment	Malfunction
Internal Corrosion	O Damage by Electric	ical Facility	O Incorrect O	peration
Stress Corrosion Cracking	O Deliberate Acts/Va	andalism	○ Rodent	
O Damage by Earth Movement	Fire or Explosion of Control	on Customer Facilities	O Root Dama	ge
O Damage by Heavy Rains/Floor	6		🔿 Unknown (F	Replaced facility)
O Earthquake	○ Compression Cou	pling	O Inspection of	only, no leak, no damage
O Lightning	O Construction Defe	ct	○ Fire or Expl	osion on Company Facilities
Other Natural Forces	O No/Deteriorated Pi		O Plastic Emb	prittlement
O Damage by Third Party	O Plastic Crack Failu	Ire	Other	
Digin/Excavation	Material Failure			
LINE MATERIAL:		LINE USE	*	
O Cast Iron	O PE 2406 (Orange)	🔿 Distrib	ution Main (<=60	PSIG)
O Ductile Iron	O PE 2406/2708 (Yellow)	○ Distrib	ution Main (>60	PSIG and <20% SMYS)
	O PE 3408 (Black)	O Gather	-	
⊖ Wrought Iron	O PE 4710 (Black)	~ ~ ~	Service	
⊖ Copper	O Other Plastic		Service	
Aldyl A			nission (>=20%	
Line Size 0.5 Line Abov Existing EFV Yes No	re Ground () Yes No Interna EFV Operated () Yes () No	al Liner 🔿 Yes 🌒 No	Line Inserted	V Yes W NO
Incident Report # 0318500	· · · · · · · · · · · · · · · · · · ·	<i>11.</i>		
•	Material Problem Report	*·····································	-to a do a co a nO	
was the damageneak discovere	d the result of current constructior	activity occurring this c	alendar year?	○ Yes○ No
		DATA (1)		
Repair Location on svc15' away	Art as an			م ۱۹۹۰ - ۲۰۰۹ در ۲۰۰۹ میلید از ۲۰۰۹ میلید
Repair Remarks replaced 1' of 1/	2" PL			
Repaired By LAN ID: Redacted	Repair Date 11 - 21 - 20	003 Repair Time 13:30		
Senior/Pipeline Engineer Consult	ed O Yes No New EFV ins	stalled () Yes () No		
Repair Code:				
CAPITAL	MAINTENANCE (EXPENSE)	MAINTENANCE (EXF	PENSE)	MAINTENANCE (EXPENS
O Deactivate #TP Main	O Bell Joint Clamp - Cast Iron	O Mechanical Repair Fitting	- Fitting	O Direct Deposition Weld - Weld
O Deactivate Dist Main (1 foot or more)	O Bell Joint Permabond - Cast Iron	O Remove/Replace Comple	tion Plug - Fitting	O Fill Weld - Weld
O Deactivated Entire Service	O Bell Joint Seal - Cast Iron	O Tighten Cap/Bolt - Fitting		O Patch Weld - Weld
O Replace Entire Service	🔿 Cast Iron Repair Sleeve - Cast Iron	Aldyl A Overcap - Plastic		O Type A Sleeve - Weld
O Replace TP Main Replace Dist Main >=100ft	Full Circle Clamp - Cast Iron	Replace Plastic Tee Cap Tag Furged Quest Defect		Type B Sleeve - Weld Welded Sav-A-Valve - Weld
Replace Valve >= 2 Inch	🔿 Skinner Clamp - Clamp	Tee Fused Over Defect - I Replace Dist Main <100ft		Welded Sleeve/Can - Weld
Replace Service Valve >= 2 Inch	O Skinner Pipe Joint Clamp - Clamp	Replace Dist Main < 100ft O Replace Main Valve <2-in		Aquawrap - Other
O Replace #TP Main >= 50 ft	SS Clamp w/Anode - Clamp	Replace Partial Service - I		O Clockspring - Other
O Replace #TP Main <50 ft - Replace	O Deactivated Partial Service	Replace Riser - Replace		Grinding - Other
O Replace Main Valve >= 2 inch	⊖ Greased	Replace Valve < 2 inch		O Soap and/or Tape - Other
		Replace Service Valve <2	Inch - Replace	 Trident Seal - Other Other
SIZE INSTALLED: REF	PLACED WITH: O STEEL O PE4710 (Black)	O PE2406/2708 (Yellow)	Copper Entire	aly Replaced () Yes () No

C		GENERAL I	NSPECTION DATA 🚥	
Reason for Inspection	-			
	Capacit		- O Landslide	Reconstruction
O WRO O New Business			O Plugged Copper	
○ Facilities Exposed by Third Party ○ Exposed Facility / Pipe Span			Other	
Date: 11 - 21 - 2003	Ins	pected by LAN ID:	lacted	
LINE MATERIAL		For TP Only SOIL RESIST (ohm-cm	SURFACE OVER PIPE	FEET EXPOSED 4
Wrought Iron	Clay		Concrete	
Cast Iron	O Rock Sand	0 - 1,000	Exposed Facility	COVER ON PIPE (inches) 42
O Ductile Iron	C Loam	0 1,000 - 2,000	O Substructure	
O Copper	O Wet	0 2,000 - 5,000	Soil (Previously Unsurfaced)	INTERNAL LINER 🔿 Yes 🌑 No
Aldyl-A	Exposed Facility	○ 5,000 - 10,000	O Water/Marsh/Tidal	
O PE 2406 (Orange)	Gravel	○ > 10,000	Other	PAVED WALL TO WALL 🔘 Yes 🌑 No
O PE 2406/2708 (Yellow)	O Other			NEAR PUBLIC ASSEMBLY 🔿 Yes 🌑 No
O PE 3408/4710 (Black)	O Olio			
O Casing O Other Plastic				Line Size 0.50
O Other				Lummere and
	C.A	THODIC PROTEC	TION SYSTEM CONDIT	TION CONTRACTOR OF THE TIME T
Pipe to Soil (mV)		ection System Damag		ssued () Yes () No
		METALLIC F		
COATING TYPE Bare/N	one () Paint	○ Single Wrate	-) Hot Applied Asphalt
О Ероху	O Tape	O Double Wr		Other
) Yes () No	
ASBESTOS Ves	O No O Unkr			ssible Lack of - Consult Pipeline Engineer
CIRCUMFERENTIAL WEL CONDITION (Visual)	D Acceptable	· · ·	ow Observed sions not in tolerance (See Nun	nbered Documen <u>t D-20</u> or D-22)
LONG SEAM (TP only)) DSAW () ERW	() AO Smith () S	Spiral () SSAW () SM	$\square S \cap LAP \cap Flash$
Pipe Grade/Spec (TP only				100°
ripe Gladeropec (IF Only	$\bigcirc Grade B \bigcirc X_{4}$	42 () X52 () X60 () X65 () X	70
RUST None Li PITTING None Li GOUGING None Li	ight () Heavy MAX.	ALL THICKNESS (Req MAX. PIT DEPTH (Req	. for TP) (Inches) 0	WALL THICKNESS MEASURED (Yes) No GRAPHITIZED (Cast Iron) Yes) No MAX. GOUGE Length (Req. for) TP) (Inches) DEPTH OF DENTS (Inches)
RUST None U		<i>INTERN.</i> #AX. PIT DEPTH (Req	AL INSPECTION . for TP) (inches) 0	
		DI ACTIC D		
	Yes 🔿 No	MANUFACTURE DAT	100470	IG WIRE CONDITION Good Bad None
	DER STRESS/BENT	We do not have a second particle. How have a strength of the second s		
		-	-	
ESTIMATE GOUGE DEP ○ <10% ○ 10-50% ○		~	SEE <u>NUMBERED DOCUMENT</u>	<u>D-21)TEE CAP CRACKING</u> () Yes () No
•		GAS QUARTERI	Y INCIDENT REPORT	
Damaging Party Type	⊖ First Party (PG&E)	O Third Party (Ever	yone else)
	O Second Party (Co	ntractor working on PG		_
Damaging Party Name	Redacted	Addres	s Redacted	
CityRedac	Phone Reda		Zip Code	
۲ (····· ····· ·····		•	
Zero Customers Out (e of Restoration (or CGI) 00	A CONTRACTOR OF A CONTRACTOR O
# injured: Employees 0	Olhers 0 Damag	······	water and the second	FIRE Yes INO EXPLOSION Yes INO
# Fatal:Employees 0	Others o Media	🔿 Yes 🔿 No 🛛 Media Tyr	pe TV Radio Nev	Nspaper Name/Channel:
DOT REPORTABLE (Fatality, In-p	atient Hospitalization, >= \$50	K Property Damage) 🔿 Yes	O No CPUC REPORTABLE (M	ajor News Media) 🔿 Yes 🔿 No

main and/or service: On-Site Test Pre-Test Soap Test STED AT 100 PSIG for 10 Hours Minutes TEST in accordance with A-34 Redacted DATE 11/21/2003 ST QUALIFIES PIPE FOR - PSIG MAOP REQUIRED for new or returned to service segments of main and/or service: On-Site Test Pre-Test Soap Test STED AT PSIG for Hours Minutes	Size SDR TYPE OF PLASTIC MATERIAL INSTALLED	07/20/2003 See Numbered Document A-93 MFG. DATE (mm/dd/yy)	Date:
TEST in accordance with A-34 Redacted DATE 11/21/2003 SST QUALIFIES PIPE FOR - PSIG MAOP REQUIRED for new or returned to service segments of main and/or service: On-Site Test Pre-Test Soap Test STED AT PSIG for Hours Minutes	Size SDR TYPE OF PLASTIC MATERIAL INSTALLED	<u>A-93</u>	BY:()
ST QUALIFIES PIPE FORPSIG MAOP REQUIRED for new or returned to service segments of main and/or service: On-Site Test Pre-Test Soap Test STED ATPSIG forO Hours Minutes	SDR	MEG DATE (mm/ddba)	
REQUIRED for new or returned to service segments of main and/or service: On-Site Test Pre-Test Soap Test STED AT PSIG for OHours OMinutes	INSTALLED	MEG DATE (mm/ddbad	·····
STED AT PSIG for () Hours () Minutes		(an O. DATE (mingovyy)	
	Manufacturer Name	See Numbered	
TEST in accordance with A-34	Size	Document A-93	
Z DATE ST QUALIFIES PIPE FOR - PSIG MAOP	SDR		
N DATA Socket Fusion Stab Coupling	Co	mpression Fitting Butt F	Fusion () Transition Fittin
DMMENTS:		. 11	
placed 1' of 1/2" pl			
Crew Leader Signature:			Crew Leader LAN ID:
^			
N ase Note: EMS Markers are to be installed for Unlocatable	Facilities and where plastic is found with	out wire. All EMS markers shal	Il be clearly dimensioned.

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From: Sent: To: Subject:	<u>必 명 む 讶</u> Wednesday, May 30, 2012 9:43 AM <u>ズ ゅ ヮ ゅ ぃ + ゅ</u> RE: CPUC Data Request: <u> </u>	
<u>~ छ</u> । last surveye	d on 6-3-10 no leaks found	
From: 교 원 원 원 Sent: Wednesda To: 교 관 권 원 Subject: FW: CF Importance: Hi	, May 30, 2012 8:54 AM JC Data Request: ਡੁੱ ਰੂ ਨੂ	
d d d d		
Can you he ਭੂ ਰੂ ਡ	lp gather the information requested below regarding the leak survey for ਡੂੱ ਰੂ ਹੋ Let me know if you have any questions.	
Redacted		
From: প্রতান Sent: Tuesday, I	ata Request: 같은 방법	
ਸi ਉ ਬੁ ਬੁ ਮ		,
Could you please	help respond to the CPUC data request below?	
Cc: ਦੂ ਦੂ Subject: CPUC I Hi ਦੂ ਦੁ ਦੁ ਦੁ Could you please Thanks,	JAN (D/1.6

SB_GT&S_0468088

Redacted	
From: SB Responder Group Sent: Friday, May 25, 2012 3:32 PM To:	, Stephen
Category: Distribution	,
Priority: 1	
Assignee: ି ନୁନ୍ଦ ନୁ	
Request: This is a priority 1 request from the CPSD. Please address the following:	•
Answer Information Source:	
Question(s):	
2938.01 Provide last leak survey records for the residential area in which the property at located.	is
2938.02 Please specify locations, grading, and percentage of LEL or ppm of all leaks that were discovered as a result of the las survey and a list of all repaired and pending leaks in the area.	st leak
2938.03 Provide any records or findings for any leak survey or leak investigation conducted recently, i.e. 2012, from the mainlin customer meter at 요유요공	ne to the
2	

SB_GT&S_0468089