



Cybersecurity

## 21.3 The Final Report

# Case Report Pure Gold Credit Union

Prepared by  
**Jury Against Breached Systems**

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## Executive Summary

On January 21, 2016, Jury Against Breached System(JABS). was called in to assist Pure Gold Credit Union (PGCU) case involving the conspiracy associated with the theft of funds.

- Peter is a suspect in the aforementioned conspiracy.
- As part of the investigation, Peter's iPhone was taken into custody.
- Digitech, Inc. was tasked with investigating evidence relevant to the aforementioned conspiracy.

As described fully in the report, Digitech, Inc. made the following findings.

Through comprehensive digital forensics analysis, JABS identified Peter Barnes and Rosie Lloyd as active co-conspirators in the misappropriation of funds from PGCU. A series of suspicious emails and iPhone text messages exchanged between the two revealed detailed plans outlining their coordinated efforts to embezzle money. These communications were pivotal in establishing both their involvement and the extent of their collaboration.

The investigation further uncovered compelling evidence implicating Oliver Bell, the District Manager at PGCU, as the mastermind behind the operation—referred to as “Mr. X.” A voicemail and a photo retrieved from Peter’s iPhone provided direct links to Mr. Bell, confirming his leadership role in the scheme.

The findings in this report underscore the power and precision of digital forensic methods in uncovering critical evidence and identifying the individuals responsible for this breach. Digitech, Inc. successfully delivered PGCU the insight needed to take informed action and restore integrity within the organization.

## Equipment and Tools

- Kali Linux
- Autopsy
- SQLite browser
- Online Exif Viewer

## Details of Peter's iPhone

Name	Findings	Location/File in iPhone image file
Model	iPhone 12.8	PeteriPhoneImage/activation_record.plist
Host Name	Peter's Phone	PeteriPhoneImage/activation_record.plist
OS Version	iOS 16.5	PeteriPhoneImage/activation_record.plist
User Email	peterbarnes12792@icloud.com	Mail files
Phone Number	+16155719608	Cellular Usage
Serial Number	FFNHHK2RPLJM	PeteriPhoneImage/activation_record.plist
ICCID	891480000094897197 91	PeteriPhoneImage/activation_record.plist
IMEI	311480010283519	PeteriPhoneImage/Files for identifiers/activation_record.plist
MD5 Hash	cbcc58b538466287895220d1a763d5 ed	N/A
SHA256 Hash	0c559080e112633baaf1b60a15b287 3534f2822b54ac1ba707421688323a 6b37	N/A

## Details of Rosie's iPhone

Name	Findings	Location/File in iPhone image file
Model	iPhone 12.8	RosieiPhoneImage/activation_record.plist
Host Name	Rosie's iPhone	RosieiPhoneImage/activation_record.plist
OS Version	iOS 16.5	RosieiPhoneImage/activation_record.plist
User Email	rosielloyd071292@icloud.com	Mail files
Phone Number	+16154278267	Cellular Usage
Serial Number	FFNHHK2RPLJM	RosieiPhoneImage/activation_record.plist
ICCID	89148000009489732844	RosieiPhoneImage/activation_record.plist
IMEI	359844405812767	RosieiPhoneImage/Files for identifiers/activation_record.plist
MD5 Hash	e666cd1232ead8f76c0a42910f54b7d5	n/a
SHA256 Hash	0aa14fa06a416fd59c1e6586c888dd3511b1a98c7a01915233181866bedd7671	n/a

## Evidence to Establish Personas

This section establishes aliases, phone numbers, emails addresses associated with each person, and relationships between each individual.

**Peter Barnes:**

Phone Number: +1 615-571-9608  
Email: peterbarnes12792@icloud.com  
Relationship: Accused. Primary suspect; reports directly to Evelyn Lane.

**Rosie Lloyd:**

Phone Number: +1 615-427-8267  
Email: rosielloyd071292@icloud.com  
Relationship: Co-conspirator with Peter Barnes; both share a close personal and professional relationship. Reports directly to Evelyn Lane.

**Oliver Bell**

Phone Number: +1 615-807-0242  
Email: hockeyfan4747@proton.me  
Alias: Mr. X  
Relationship: Suspected ringleader of the operation; work as District Manager.

**Evelyn Lane**

Phone Number: N/A  
Email: N/A  
Relationship: Branch Manager who discovered the missing funds and launched the internal investigation. Reports directly to Oliver Bell.

Data extracted from Peter Barnes' and Rosie Lloyd's phone confirms extensive email and sms communication between them , establishing a good personal and professional bond. The contents of their conversations indicate a coordinated effort to steal funds from PGCU.

During the investigation, there were SMS exchanges between Peter and an unknown contact which referenced checking their email. This email address for this unknown contact is hockeyfan4747@proton.me, which is believed to be associated with Oliver Bell, also known as Mr. X, who is suspected to be orchestrating the scheme. In their correspondence, Peter and Rosie express their trust in Mr. X and confirm his role as the mastermind behind the operation.

Both Peter and Rosie report to Evelyn Lane, who played a critical role in uncovering the irregularities and initiating the investigation.

## Evidence relating to theft of PGCU funds

This sub-section provides details regarding the evidence found as it relates to the theft of funds.

## **Artifact #10**

- **Date:** October 6, 2023
- **Source:** Peter's browser history
- **Details:** Search terms included "forensic accounting" and "how to not get detected." This indicates an awareness of the risks and a deliberate attempt to evade detection.

## **Artifact #1**

- **Date:** October 12, 2023
- **Source:** Email correspondence between Rosie and Peter
- **Details:** The emails reveal growing dissatisfaction over salary disparities. Both express frustration about executives enjoying lavish lifestyles while employees struggle financially.

## **Artifact #8**

- **Date:** October 18, 2023
- **Source:** Email from "Hockeyfan4747" (likely Oliver) to Peter Barnes
- **Details:** The email outlines plans for the operation and confirms Rosie's participation. The language used indicates secrecy and deliberate planning for the theft.

## **Artifact #9**

- **Date:** October 20, 2023
- **Source:** Email from Peter Barnes to Rosie Lloyd
- **Details:** Peter advises caution in written communication and references their co-conspirators, including "X," reinforcing intent and coordination.

## **Artifact #11**

- **Date:** October 20, 2023
- **Source:** SMS message analysis
- **Details:** SMS conversations suggest suspicious activity, including a transition to email and voice communication for further planning.

## **Artifact #5**

- **Date:** October 20, 2023
- **Source:** Photo sent via SMS
- **Details:** An image of cash near Nashville, Texas, sent by Peter, confirms a request from Oliver for a cash envelope—suggesting physical movement of stolen funds.

## **Artifact #12**

- **Date:** October 20, 2023

- **Source:** SMS message data from Peter's iPhone
- **Details:** Oliver's phone number is listed in Peter's SMS records, confirming his identity and linking him directly to Peter.

#### **Artifact #3**

- **Date:** October 22, 2023
- **Source:** Rosie's browser history
- **Details:** Rosie searched for information on buying cars with cash, potentially as a method for laundering the stolen money.

#### **Artifact #4**

- **Date:** October 22, 2023
- **Source:** Rosie's browser history
- **Details:** Searches included "Best places to store cash," showing intent to conceal the stolen funds and avoid detection.

#### **Artifact #6**

1. **Date:** October 25, 2023
2. **Source:** Voicemail
3. **Details:** A voicemail from Oliver to Peter confirms the success of the operation. Oliver admits to taking 20% of the funds. Oliver is identified as "Mr. X."

#### **Artifact #7**

1. **Date:** October 25, 2023 (Epoch 1698259010)
2. **Source:** Voicemail metadata
3. **Details:** The voicemail database logs the sender's number (+1 615-807-0242) and recipient's number (+1 615-571-9608), verifying the identities of those involved.

## Plot Timeline

Date	Information
<b>6 October, 2023</b>	<b>Browser Search History:</b> Peter searched for "forensic accounting" and "how to not get detected," indicating awareness of the risks and an attempt to avoid detection.

<b>12 October, 2023</b>	<b>Emails:</b> Peter and Rosie expressed frustration over income disparities, noting executives' luxurious lifestyles compared to their financial struggles.
<b>18 October, 2023</b>	<b>Emails:</b> A message from Peter to "Hockeyfan4747" (suspected to be Oliver) confirms the plan is in place for Friday, demonstrating secrecy and intent to proceed with the theft.
<b>20 October, 2023</b>	<b>Emails:</b> Peter advises Rosie to avoid leaving evidence in emails and references co-conspirators, including "X," further revealing the depth of the planning.
<b>20 October, 2023</b>	<b>SMS:</b> Analysis uncovered suspicious communications, including discussions about transitioning the operation to emails and phone calls.
<b>20 October, 2023</b>	<b>SMS:</b> An SMS from Oliver includes a request for an envelope of cash, with an attached photo suggesting movement of stolen funds.
<b>20 October, 2023</b>	<b>SMS:</b> Oliver's phone number appears in Peter's SMS database, directly linking the two and confirming Oliver's involvement.
<b>22 October, 2023</b>	<b>Browser Search History:</b> Rosie searched for ways to purchase vehicles with cash, possibly as part of laundering the stolen funds.
<b>22 October, 2023</b>	<b>Browser Search History:</b> Additional searches reveal efforts to find secure places to store cash, indicating plans to conceal stolen money.
<b>25 October, 2023</b>	<b>Voicemail:</b> A voicemail from Oliver to Peter confirms the success of the heist and Oliver's share of 20% of the stolen funds. Oliver is identified as "Mr. X."
<b>25 October, 2023</b>	<b>Voicemail:</b> Voicemail metadata confirms the call was made from Oliver's number (+1 615-807-0242) to Peter's number (+1 615-571-9608), verifying their identities.

## Conclusion

Evidence found on Peter's iPhone indicated the following:

The forensic examination of Peter Barnes's iPhone has uncovered substantial evidence confirming his central role in the embezzlement of funds from PGCU, in coordination with co-conspirators Rosie Lloyd and Oliver Bell, also known as "Mr. X." The collected digital artifacts—including SMS messages, emails, browser activity, voicemails, and media files—collectively reveal a calculated and premeditated effort to defraud the organization.

The investigation clearly demonstrates that financial dissatisfaction served as a primary motivator, with Peter and Rosie expressing frustration over executive compensation. Their communications show deliberate coordination with Oliver, who not only helped design the scheme but also directly benefited from the proceeds, as evidenced by a voicemail where he claims a share of the stolen funds.

The digital trail left behind paints a comprehensive picture of the conspiracy—from the planning phase through execution—highlighting efforts to conceal activities and evade detection. Rosie's online searches for discreet ways to store or spend cash, alongside photographic evidence of cash transfers, reinforce the conclusion that the group took active steps to manage and launder the stolen money.

Ultimately, the evidence positions Peter Barnes not only as a willing participant but as the architect of the fraud, with Rosie and Oliver playing pivotal supporting roles. The depth and clarity of the findings provide an unambiguous account of the conspiracy, delivering PGCU the necessary insights to take appropriate legal and organizational action.

## Bonus Conclusion

Did you determine who is Mr. X? If so, who is it, and how did you figure this out?

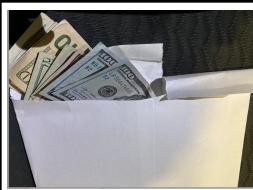
The identification of Oliver Bell as "Mr. X" is supported by multiple pieces of evidence extracted from Peter Barnes's iPhone. A voicemail from Oliver to Peter explicitly confirms his involvement in the theft, where he states he will take "20% off the top" of the stolen funds—mirroring the role attributed to "Mr. X" in Peter's emails.

Further strengthening this link, Oliver's phone number (+1 615-807-0242) appears in both the voicemail metadata and SMS database, directly tying him to communications with Peter. Combined with Peter's expressed trust in "X" as the orchestrator of the scheme, the evidence conclusively establishes that Oliver Bell and "Mr. X" are the same individual.

## Appendix A: Correspondence Evidence

Timestamp	Header	Description	Source	Destination	Evidence Location
2023-10-12 00:39:24 UTC	Email	Hey Rosie, great hanging out with you this weekend! Always good to hang out and talk about non work things.	<a href="#">peterbarnes12792@icloud.com</a>	rosielloyd0722 92@icloud.com	PeteriPhoneImage/Mail/MessageData/9/full.emlx
2023-10-12 22:36:08 UTC	Email	hey peter, likewise was so great to get a chance to hangout, outside of work. Sounds like we both feel that we aren't being paid enough, and on top of that all the Gold Credit Union executives are pulling up in sports cars, really frustrating :(	rosielloyd0722 92@icloud.com	rosielloyd0722 92@icloud.com	PeteriPhoneImage/Mail/MessageData/11/full.emlx
2023-10-12 22:59:41 UTC	Email	I hear you, I'm really frustrated as well. Lets get together after work tonight, wanted to run something by you.	<a href="#">peterbarnes12792@icloud.com</a>	<a href="#">rosielloyd072292@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/12/full.emlx
2023-10-18 15:39:05 UTC	iMessage	Dinner tonight?	16154278267	16155719608	RosieiPhoneImage/SMS/sms.db
2023-10-18 15:40:48 UTC	iMessage	Yup, see you then	16155719608	16154278267	PeteriPhoneImage/SMS/sms.db

2023-10-18 15:59:47 UTC	SMS	Check your email	16158070242	16155719608	PeteriPhoneImage/SMS/ms.db
2023-10-18 16:00:36 UTC	SMS	Ok, will do	16155719608	16158070242	RosieiPhoneImage/SMS/ms.db
2023-10-19 01:31:07 UTC	Email	so, is Rosie in?	hockeyfan4747@proton.me	<a href="#">peterbarnes12792@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/13/full.emlx
2023-10-20 02:02:43 UTC	Email	Great getting together again, what did you think of the 'idea' I ran by you?		<a href="#">peterbarnes12792@icloud.com</a> <a href="#">rosielloyd072292@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/14/full.emlx
2023-10-20 02:07:55 UTC	Email	honestly, I am intrigued. Was up all night thinking about it, and how we can pull it off. Are you sure "X" can help us out? Do you trust X? How about Michaela Rokas?		<a href="#">rosielloyd0722</a> <a href="#">peterbarnes1292@icloud.com</a> <a href="#">peterbarnes1292@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/15/full.emlx
2023-10-20 02:11:14 UTC	Email	I trust X, it was actually X that brought this idea to me a while back. I thought they were kidding, but X kept asking. Now after seeing the exec's getting rich while I have trouble paying my bills, I am ready to put this into action. But I Need your help to make this work. You know what to do next?		<a href="#">peterbarnes12792@icloud.com</a> <a href="#">rosielloyd072292@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/16/full.emlx

2023-10-20 02:19:59 UTC	Email	<p>Yup, you explained it well last night. Just get me the copies of the forged withdrawal receipts so I can get this going. Also, what about Catarina Mona and Laanzo, I think her last name is Agneza?</p>	<a href="#">rosielloyd072292@icloud.com</a>	<a href="#">peterbarnes12792@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/17/full.emlx
2023-10-20 02:22:57 UTC	Email	<p>OK, but please try to keep details about this plan off our email, you may also want to delete these emails to remove any traces of evidence. You are being a little reckless and going to get us caught. They are ok, I get along with them for the most part.</p>	<a href="#">peterbarnes12792@icloud.com</a>	<a href="#">rosielloyd072292@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/18/full.emlx
2023-10-20 02:38:10 UTC	Email	<p>Yes, we are good, should get this going this Friday.</p>	<a href="#">peterbarnes12792@icloud.com</a>	<a href="#">hockey747@proton.me</a>	PeteriPhoneImage/Mail/MessageData/20/full.emlx
2023-10-20 02:43:23 UTC	Email	Excellent!	<a href="#">hockeyfan4747@proton.me</a>	<a href="#">peterbarnes12792@icloud.com</a>	PeteriPhoneImage/Mail/MessageData/21/full.emlx
2023-10-20 06:53:39 UTC	SMS	 Picture of envelope with Money	16154278267	16155719608	RosiePhoneImage/SMS/Attachments/a8/08/B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt/IMG_0006.HEIC/IMG_0006.jpg

2023-10-20 06:53:39 UTC	SMS	 Picture of envelope with Money	16154278267	16155719608	PeteriPhoneImage/SMS/Attachments/33/03/00E33F22-7F93-41B1-80DB-D9CFAD02E410/00E33F22-7F93-41B1-80DB-D9CFAD02E410.pvt/IMG_0006.HEIC
2023-10-20 08:53:20 UTC	Web browser History	Forensic Accounting Advice - How to Minimize the Risk of Fraud in Your Business			PeteriPhoneImage/Safari History/History.db
2023-10-20 08:53:20 UTC	Web browser History	forensic account how to not get detected			PeteriPhoneImage/Safari History/History.db
2023-10-20 09:05:00 UTC	Web browser History	money laundering 101 - Google Search			PeteriPhoneImage/Safari History/History.db
2023-10-20 09:05:00 UTC	Web browser History	Money Laundering 101: Understanding The Basics   IPS			PeteriPhoneImage/Safari History/History.db
2023-10-21 00:56:57 UTC	iMessage	I did it today, can't beleive it. Going to the mall later, wanna join me ? Also, I sent you a picture.	16154278267	16155719608	RosieiPhoneImage/SMS/ms.db
2023-10-21 00:57:23 UTC	iMessage	I did it today, can't beleive it. Going to the mall later, wanna join me ? Also, I sent you a picture.	16155719608	16154278267	PeteriPhoneImage/SMS/ms.db
2023-10-21 00:58:50 UTC	iMessage	Let's get off texts please, just email me to that email address.	16155719608	16154278267	PeteriPhoneImage/SMS/ms.db

2023-10-24 03:33:49 UTC	Web browser History	paying cash for a car: consider the pros and cons - kelly blue book			RosieiPhoneImage/Safari History/History.db
2023-10-24 03:33:49 UTC	Web browser History	purchasing luxury cars with cash is that sage - Google Search			RosieiPhoneImage/Safari History/History.db
2023-10-24 03:35:29 UTC	Web browser History	best places to store large amounts of cash			RosieiPhoneImage/Safari History/History.db
2023-10-24 03:35:29 UTC	Web browser History	The 5 Best Places to Hide Emergency Cash at Home			RosieiPhoneImage/Safari History/History.db
2023-10-24 03:39:59 UTC	Web browser History	how to hide case in your home - Google Search			RosieiPhoneImage/Safari History/History.db
2023-10-24 03:39:59 UTC	Web browser History	50 Secret Hiding Places for Valuables in Your Home   Family Handyman			RosieiPhoneImage/Safari History/History.db
2023-10-25 18:37:50 UTC	SMS	Just left you a VM, listen to it and get back to me!	16155719608	16158070242	PeteriPhoneImage/SMS/ms.db
2023-10-25 18:37:50 UTC	Voicemail	1.amr "Hey, Peter. It's me, your buddy Oliver. From my map, you and Rosie have cleared over 125K. Remember, though, I get 20% and I'll keep clearing the audit records so Evelyn can never catch you. Give me my cash, though. Put it in an	16155719608		PeteriPhoneImage\Voicemail\A-D3E419E4-6BF5-5B09-AC57-67804CB8C6B4\1.amr

		envelope. Leave it at my back door. Pleasure doing business with you."			
2023-10-25 18:38:04 UTC	SMS	Ok	16158070242	16155719608	PeteriPhoneImage/SMS/ms.db > table messages > rowid 31

## Appendix B: GPS Location Information

Timestamp	Header Information	Evidence Location
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2023-10-20



Camera Make and Model	
Apple - iPhone SE (2nd generation)	
Camera Location Details	
Photo GPS Location: 35.97045,-86.80738888888888	
	
All Photo EXIF Data	
<a href="#">Save &amp; Share EXIF</a>	
<input checked="" type="checkbox"/> Hide Serial Numbers	
Make	Apple
Model	iPhone SE (2nd generation)
Orientation	bottom-right
XResolution	72
YResolution	72
ResolutionUnit	inches
Software	16.5
DateTime	2023:10:20 19:53:39
HostComputer	iPhone SE (2nd generation)
Exif IFD Pointer	250
GPS Info IFD Pointer	2124
ExposureTime	1/46
FNumber	f/1.8

A photo of the cash was taken near Nashville, Texas — the location of the branch. Oliver requested that the cash be placed in an envelope and delivered to him.

PeteriPhoneImage/SMS/Attachments/33/03/  
00E33F22-7F93-41B1-80DB  
-D9CFAD02E410/IMG\_0006.  
HEIC