

Pure Gold Credit Union- Case Report



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Executive Summary

On January 21, 2024, BryanSec was called in to assist Pure Gold Credit Union (PGCU) in investigating a conspiracy involving the theft of funds. The investigation focused on Peter Barnes, a primary suspect in this conspiracy. As part of the inquiry, Peter's iPhone was seized for forensic analysis. BryanSec was tasked with examining the evidence tied to the theft.

The following summarizes the key findings from BryanSec's investigation:

Conspiracy Involvement: Through the forensic analysis of Peter's iPhone, Peter Barnes and Rosie Lloyd were identified as co-conspirators in the theft of funds from PGCU. The evidence gathered played a crucial role in linking both individuals to the crime.

Suspicious Communications: A series of incriminating emails between Peter and Rosie were found, outlining their plan to embezzle money from PGCU. These emails were key to establishing their collaborative efforts in the conspiracy.

Digital Evidence: Using advanced forensic tools, such as Autopsy, BryanSec extracted and analyzed a wide range of data from Peter's iPhone, including emails, SMS messages, and other digital communications, which provided further insight into their illicit activities.

Cross-Device Analysis: The investigation involved cross-referencing evidence from other devices, such as Rosie's iPhone, which helped corroborate the findings and establish the connection between the suspects.

Video Evidence: A video was recovered from Rosie's phone, showing an envelope containing cash, which further corroborated the theft and provided additional proof of the illegal activities.

The compiled evidence was presented in a detailed report, which was submitted to PGCU, outlining the conspiracy and the involvement of Peter Barnes and Rosie Lloyd in the theft of funds.

Equipment and Tools

In the investigation of the Pure Gold Credit Union case, BryanSec utilized several advanced forensic tools to thoroughly analyze the evidence. Autopsy, a digital forensics tool, played a key role in examining emails, SMS messages, GPS data, and WiFi location information. We also exported files for offline viewing to facilitate a more in-depth analysis, particularly using SQLBrowser to view the extracted data. During the investigation, we encountered an HEIC file on one of the devices, which was converted into a playable MOV video file for review. Additionally, a voicemail left on Peter's phone was exported and converted into a playable audio recording, allowing us to further assess the contents. Worksheets were also used throughout the process to document and organize the evidence, ensuring a clear and methodical approach to the investigation.

Details of Peter's iPhone

Name	Findings	Location/File in iPhone image file
Model	iPhone 12	activation_record.plist
Host Name	Peters iPhone	data_ark.plist
OS Version	16.5.1	data-ark.plist
User Email	peterbarnes12792@icloud.com	accounts3.sqlite
Phone Number	+1 (615) 551-9608	CellularUsage.db
Serial Number	FFNHHK2RPLJM	activation_record.plist
ICCID	89148000009489719791	activation_record.plist
IMEI	352853889135063	activation_record.plist
MD5 Hash	34c4888f095dc3241330462923f6fea5	Provided
SHA256 Hash	71aed05a86a753dec4ef4033ed7f52d657 7ccb534ca0d1e83ffd27683e621607	Provided

Screenshots of Peter's Phone:

Model, Serial Number, ICCID, IMEI

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Timeline Close Case Generate Report Keyword Lists Keyword

Directory Tree

Listing Keyword search 1 - activation_rec... Keyword search 2 - data_ark.plist Keyword search 3 - accounts3.sql...

activation_record.plist

Name	Location	Modified Time	Change T
activation_record.plist	/LogicalFileSet2/PeterPhoneImage/Files for identifiers/acti...	2023-12-11 02:42:30 EST	0000-00-00 00:00:00
activation_record.plist	/LogicalFileSet3/RosiePhoneImage.zip/Files for Identifiers/...	2023-12-11 02:42:30 EST	0000-00-00 00:00:00
activation_record.plist	/LogicalFileSet4/RosiePhoneImage/Files for Identifiers/acti...	2023-12-11 02:42:30 EST	0000-00-00 00:00:00

Data Content

Hex Strings Indexed Text Message File Metadata Results Annotations Other Occurrences

Matches on page: 1 of 1 Match Page: 1 of 1 Page Text Source: Search Results

```

Uy1VQIJULVNVOQNBMFkEWYHKoZ1zj0CAuY1KoZ1zj0DAuQcDUgAe0c20/MFu7VP
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DykG03uJ2aN7MhkW/YDVROOBYEFLSqOk0tG+V+zgoMOBq10hn1lTWzA8GA1Ud
EwEB/wOFMAMBAf8wHwYDVROjBbgwFoALMO/WsWCsFTNGKaEral2e3s6f88wDgYD
VR0PAQH/BA0DAgEGMBYGCgSGIb3Y20GLAEB/w0GFgrLY3jOMAoGCCgSM49BAMC
A2kAMGYCMODf5zNiKN/Jqmslw+3CDYKE5OpieJMpEkLe9a0UjWKEBDL0VEsg/Cd
E3aKXkc6R10CMQDS4Mi1wY+RxkvY/hicDDqI/BL+N3LHqzJZUuw2Sx0afDX7B
GLYk-k+lqurkHY
-----END CERTIFICATE-----
"InternationalMobileEquipmentIdentity" = "352853889946501";
"ActivationTicket" = "MIC1hgIBATAkBgghkjOP00D4zGCAZOfPwxNpbDvD3oHgAAAAACFQRoAAAAn0sUTM37dLkoapb/Bg8b8Rw2
sHNShtTilGU1+hb0c1KF0ImU20n4gAbzUoI4LRNQaf1z2B8EEAA3gAxXD07u7u71AA3gAxAkD07u7u71AA3gAxAkD07u7u70AA3gAx
AATQAxAmDu7u7u70AAwAxAmDu7u7u71AAUwAxAmDu7u7u71AA3gAxXD07u7u70AA3gAxAkD07u7u71AA3gAxAkD07u7u70AA3gAx
AA3gAxBBDu7u7u70AA3gAxWDu7u7u71AA3gAxBXDu7u7u70AA3gAxExYDu7u7u71AA3gAxExYDu7u7u7zAAAKExFIDu7u7u75+Xp0gB
EAAAFCf1AEAOAAA+XQ0QBAAn5dGBAYAAACf0ceEA0AAA+XSAQAAAAAn5dJBAEAAACf0ceAAA0AAJ+XTQAAAABGYwZAIvdERUADLSRpady+9Ag3M
LuUzbLSMhILSK7ccImGqLcK02hCJIBqneAj ALKHSPOC1L0m/03/7H7QpFDhbXkjyMvohSJ70bA0GBLG0Ls1jRwyXSh0zB1Ko+j dj A0BgjcghkjOP0IBE
NiAAQ0JlFoEv01Zq9sEn1dEvDm0Gq0Gie6juy85L9gbgYfWByJckaoWRbfMrcNo0cEdiYxf+7KK3zI6cvnIrpK0XpwXmomijU0RMoYfDrIRLVb5PGAxh
xKSIU=";
```

"PhoneNumberNotificationURL" = "https://albert.apple.com/deviceservices/phoneHome";
"InternationalMobileSubscriberIdentity" = "311480010289519";
"ProductType" = "iPhone12_8";
"ActivationRandomness" = "352853889946501";
"SerialNumber" = "FENHHKJ2RPLJM";
"MobileEquipmentIdentifier" = "352853889946501";
"InternationalMobileEquipmentIdentity2" = "352853889135063";
"PostponementInfo" = {};
"ActivationRandomness" = "1546A5F7-3530-4D65-9C51-A22F23F9756D";
"ActivityURL" = "https://albert.apple.com/deviceservices/activity";
"IntegratedCircuitCardIdentity" = "89148000009489719791";

Host Name, iOS Version

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Timeline Close Case Generate Report Keyword Lists Keyword

Directory Tree

- Data Sources
 - LogicalFileSet1 (1)
 - LogicalFileSet2 (1)
 - PeteriPhoneImage (7)
 - AddressBook (1)
 - Call History (1)
 - Files for identifiers (5)
 - Mail (16)
 - Safari History (1)
 - SMS (2)
 - Voicemail (3)
 - LogicalFileSet3 (1)
 - LogicalFileSet4 (1)
- Views
- Results
 - Extracted Content
 - Keyword Hits
 - Single Literal Keyword Search (79)
 - Single Regular Expression Search (0)
 - URLs (558)
 - IP Addresses (102)
 - Email Addresses (312)
 - Phone Numbers (24)
 - Hashset Hits
 - E-Mail Messages
 - Interesting Items
 - Accounts
 - Credit Card
- Tags
- Reports

User Email

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

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 - Reports

Listing Keyword search 1 - activation_rec... Keyword search 2 - data_ark.plist Keyword search 3 - accounts3.sql... Keyword search

Table Keyword search

Name	Location	Modified Time	Change Time
Accounts3.sqlite	/LogicalFileSet4/RosiePhoneImage/Files for Identifiers/Accounts3.sqlite	0000-00-00 00:00:00	0000-00-00 00:00:00
Accounts3.sqlite	/LogicalFileSet2/PeterPhoneImage/Files for Identifiers/Accounts3.sqlite	0000-00-00 00:00:00	0000-00-00 00:00:00
Accounts3.sqlite	/LogicalFileSet3/RosiePhoneImage.zip/Files for Identifiers/Accounts3.sqlite	2023-12-11 02:42:24 EST	0000-00-00 00:00:00

Data Content

Hex Strings Indexed Text Message File Metadata Results Annotations Other Occurrences

Matches on page: 1 of 1 Match Page: 1 of 1 Page Text Source: Search Results

```

    7 28 1 1 1 0 1 7.17433988308E8 iCloud A03F4501-0255-44BA-B1EA-F25E449E4640 3AD20059-BE77-49BA-8ED3
C249 com.apple.purplebuddy peterbarnes12792@icloud.com
    8 2 5 1 1 1 20 7 7.17434012866467E8 parent 3E1C0981-218C-48BE-8D81-AF6D1615CDFA 9A1E7B98-2DFA-414C-AA
A75CAE com.apple.accounts.accounts
    9 2 3 1 1 1 39 7 7.17434012873861E8 parent 08B25420-E2AA-4A07-A62A-E60E419EAD9 F7880FCE-0185-4D47-BA
C64395 com.apple.accounts.accounts
    10 2 1 1 1 1 17 7 7.17434012879232E8 parent 3D3E84AC-FAF8-4057-8619-056BD808C497 com.apple.accounts.:
    11 2 4 1 1 1 1 43 7 7.17434012810899E8 parent 4E6A2774-1647-484D-8321-E837907AAE70 56A8DEC2-DAFB-4651-8
E6480E2 com.apple.accounts.accountsd peterbarnes12792@icloud.com
    12 2 23 1 1 0 1 0 52 7 7.17434013300984E8 iCloud - Device Locator 417F4DAE-6D18-43E1-B8B1-C45D1F428133 9:
29F-410C-86DD-700BF3263FFC com.apple.accounts.accountsd peterbarnes12792@icloud.com
    13 2 8 1 1 0 1 0 15 7 7.17434013356249E8 iCloud - Find My Friends D9711586-E2F0-4765-A11E-14C84202BF80 0:
2B4-40D8-B452-9C5FBC3EAD87 com.apple.accounts.accountsd peterbarnes12792@icloud.com
    14 2 2 1 1 1 0 35 7.17434014194354E8 peterbarnes12792@icloud.com E85B8AD6-08F0-459E-A30F-C328556468DC
-C97E-4C58-ADE9-EB280337A3F9 gamed peterbarnes12792@icloud.com
    15 2 7 1 1 1 0 47 522E825F-52B6-410F-BE61-92A67105CC27 026A88AB-5019-4EB9-BD40-B0E5C8A3A46E com.apple.
buddy peterbarnes12792@icloud.com
    16 2 4 1 1 0 0 10 7.17434087383143E8 US Holidays none 63C4B7E9-030E-4000-858B-BEF035E9C9C2 EA53E9C8-E0
937-D5505683140B dataaccesssd
Z_2ENABLEDACCOUNTS Z_7ENABLEDCLASSSES
    7 18
    7 7
    7 31
    11 15
    7 15
    7 19

```

Phone Number

The screenshot shows the DB Browser for SQLite interface with the database 'CellularUsagePeter.db' open. The 'subscriber_info' table is selected, displaying one row with the following data:

ROWID	subscriber_id	subscriber_mdr	tag	last_upd
1	891480000...	+16155719...	1	721056

The 'subscriber_mdr' field contains the phone number '+16155719608', which is highlighted with a green box. The 'Edit Database Cell' panel on the right shows the current value and options for Import, Export, and Set as NULL. The status bar at the bottom indicates the encoding is UTF-8.

Details of Rosie's iPhone

Name	Findings	Location/File in iPhone image file
Model	iPhone 12	activation_record.plist
Host Name	Rosies iPhone	data_ark.plist
OS Version	16.5	data-ark.plist
User Email	rosielloyd07129@icloud.com	accounts3.sqlite
Phone Number	+1 (615) 427-8267	CellularUsage.db
Serial Number	FFPHG1LYPLJM	activation_record.plist
ICCID	89148000009489732844	activation_record.plist
IMEI	359844406101632	activation_record.plist

Screenshots of Rosie's Phone:

Model, Serial Number, ICCID, IMEI

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LogicalFileSet2 (1)

PeteriPhoneImage (7)

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- SMS (2)
- Voicemail (3)

LogicalFileSet3 (1)

LogicalFileSet4 (1)

Views

Results

Extracted Content

Keyword Hits

- Single Literal Keyword Search (82)
- Single Regular Expression Search (0)
- URLs (558)
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Hashset Hits

E-Mail Messages

Interesting Items

Accounts

Credit Card

Tags

Reports

Listing Keyword search 1 - activation_rec... Keyword search 2 - data_ark.plist Keyword search 3 - accounts3.sql...

Name	Location	Modified Time	Change T
activation_record.plist	/LogicalFileSet2/PeteriPhoneImage/Files for identifiers/acti...	0000-00-00 00:00:00	0000-00-00 00:00
activation_record.plist	/LogicalFileSet3/RosiePhoneImage.zip/Files for Identifiers/...	2023-12-11 02:42:30 EST	0000-00-00 00:00
activation_record.plist	/LogicalFileSet4/RosiePhoneImage/Files for Identifiers/acti...	0000-00-00 00:00:00	0000-00-00 00:00

Data Content

Hex Strings Indexed Text Message File Metadata Results Annotations Other Occurrences

Matches on page: 1 of 1 Match Page: 1 of 1 Page Text Source: Search Results

```

0y1VQ1JULVNVOKNBFKwEWTHKGz1zj0CAUQ1kOz1zj0DAAQUCQgAEa0c207MFuYvP
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DykGQ3uM2aN7MHkWHQYDVR0BBYELFsQkOtG+v+zgoMOBq10hnLLTwMA8GA1Ud
EwEB/wQFMAMBAFwHwYDVR0BBgwFaAUw0/WwsfCsFTNGkaFrsl2e3s6f88wDgYD
VR0PAOH/BAQDaGeGBMYGCSqGS1b3Y20GLAEB/wGFGfR1Y3JOMAoGCCqGSM49BAMC
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6LyKk-sLq4urkMy=
-----END CERTIFICATE-----
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"ActivationTicket" = "MIIChwIBATAKBgghkjOPQ0DAzGCAz0FpwxU/HXZBuNj50AAAACfQARoAAAAAn0sUtzQ5lQF9qye3gqqf0FF
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AAATOAxAmDu7u7u70AAUwAxAmDu7u7u71AAUwAxAmDu7u7u70AA3gAxAmDu7u7u71AA3gAxAmDu7u7u70AA3gAxAdu7u7u71AA3gAx
AA3gAxBBDu7u7u70AA3gAxBBDu7u7u71AA3gAxBBDu7u7u70AA3gAxYD0u7u7u71AA3gAxYD0u7u7u7yAAKExFIDu7u7u75+Pg0BA
EAACf0EAQAAAJ+XQQQAAAAn5dGBAYAACFL0cEAQAAAJ+XSAQAAAAn5dJBAAEAAcFL0sAAAAAJ+XTAQAAAABgzwZQ1wZk17WiXZotoAfG90Cwke
KsTwPCutvQyAFj2NSxSo+ths9wMpkrhjEA+e90vvvTDEXds+4mfmdyfqlmEf10UnJ1LwL+cH3gr09WIQa5di895PxpcTxnhhBo3YwEAYHkoZ1zj0CA
IDYgAE01ZRaBLzomavb3tXRLw5k0qhuou7mPOZYAYGH1gc1XJGq1kW8HzK3DaeHBHYmMX/uyit8yOnMjyKGSkF6cF5qJovVNETKmtHw64kS10eTxmQM
B8Skif";
"PhoneNumberNotificationURL" = "https://albert.apple.com/deviceservices/phoneHome";
"InternationalMobileSubscriberIdentity" = "311480010308141";
"ProductType" = "iPhone12_8";
"UniqueDeviceID" = "00000000-0001-C1D4-C0C0-33402E";
"SerialNumber" = "FPFHG1LYPLJM";
"MobileEquipmentIdentifier" = "35984440581276";
"InternationalMobileEquipmentIdentity2" = "359844406101632";
"PostponementInfo" = {};
"ActivationRandomness" = "5C4FDA3D-CE1F-4F83-8668-D64DA875DFFF";
"ActivationURL" = "https://albert.apple.com/deviceservices/activity";
"IntegratedCircuitCardIdentity" = "8914800000948973284";

```

#7F\t

Host Name, iOS Version

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

Keyword search

Name	Location	Modified Time	Change Time
data_ark.plist	/LogicalFileSet1/PeteriPhoneImageFiles for Identifiers/data...	0000-00-00 00:00:00	0000-00-00 00:00:00
data_ark.plist	/LogicalFileSet2/PeteriPhoneImageFiles for Identifiers/data...	0000-00-00 00:00:00	0000-00-00 00:00:00
data_ark.plist	/LogicalFileSet3/RosieiPhoneImage.zip/Files for Identifiers...	2023-11-11 02:44:12 EST	0000-00-00 00:00:00

Data Content

```

data_ark.plist bplist00
$!`...
/com.apple.mobile.restriction-ProhibitAppInstall...
-UseRaptorCerts_
-ActivationStateAcknowledged_
-DarkProductionVersion_
com.apple.mobile.data_sync-Notes_
#com.apple.mobile.data_sync-ContactsX-HasSiDP_
-PairRecordProtectionClass_
6com.apple.mobile.wireless_lockdown-EnableWifiDebugging_
.com.apple.mobile.restriction-ProhibitAppDelete_
$com.apple.mobile.data_sync-BogusSkills-DeviceName_
$com.apple.mobile.data_sync-Calendars_
$60A319AE-BB65-4569-AB43-B0B06111BC9C
02 T16.5
\AccountNames@Sources
ViCloud
VAccountNames
&VAccountNames
nRosie
s iPhone
*,VAccountNames
}8j |

```

User Email

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

Keyword search

Name	Location	Modified Time	Change Time
Accounts3.sqlite	/LogicalFileSet4/RosieiPhoneImageFiles for Identifiers/Acc...	0000-00-00 00:00:00	0000-00-00 00:00:00
Accounts3.sqlite	/LogicalFileSet2/PeteriPhoneImageFiles for Identifiers/Acc...	0000-00-00 00:00:00	0000-00-00 00:00:00
Accounts3.sqlite	/LogicalFileSet3/RosieiPhoneImage.zip/Files for Identifiers...	2023-11-11 02:42:24 EST	0000-00-00 00:00:00

Data Content

```

ZACCOUNT
Z_PK Z_ENT Z_OPT ZACTIVE ZAUTENTICATED ZSUPPORTSAUTHENTICATION ZVISIBLE ZWARNINGUP ZACCOUNTTYPE ZPARENTACC
E ZLASTCREATED ZREMOVED ZREJECTZONATE ZACCOUNTDESCRIPTION ZAUTENTIFICATIONTYPE ZIDENTIFIER ZMODIFICATIONZ
GROUTED ZNAME ZDATACLASS ZPROPERTIES
1 2 0 0 1 0 10 7.175360934772707EB 0B13CD65-4F10-4E13-BE90-FF861F565204 D6BA3390-F3B2-467A-ABBB-A9E8
promotedtoaccount
2 2 2 0 1 1 0 1 7 7.175360934772707EB 53EBCFD5-E32-4159-9645-9865C2B8B7F9 D81070CD-064D-4825-AA0C-335F
storekitId.local
3 2 54 1 1 0 26 7.175360934772707EB 1CE1E86F-14F0-4AF7-B0DE-EF27695A8051 9832A620-9912-4F6E-868C-551
8 com.apple.AuthKit rosieloyd@t1292@icloud.com
4 2 9 1 1 1 0 3 7.175360934772707EB B07A3A94-F986-48FC-AFF2-D0E2F36C89CC 194637E7-516D-4974-9864-5494
com.apple.accounts accountd@t1292@icloud.com
5 2 10 1 1 1 0 44 7.17536093244484E8 7D047580-5C00-4F49-98EB-318510EC24E8 78AB43F0-FB85-4C85-A06A-3BF
2 com.apple.purpleabuddy rosieloyd@t1292@icloud.com
6 2 1 1 0 1 11 7.17536093244484E8 78AD05D6-7101-411A-A46-99445F13300 com.apple.accounts.accounts
loyd@t1292@icloud.com
7 2 24 1 1 1 0 18 7.17536093262173E8 iCloud 8D98C617-C917-449F-996A-41DCFD961728 4CEC9A3C-8A36-4598-94
84ED46D com.apple.accounts accountd@t1292@icloud.com
8 2 5 1 1 1 1 2 7.17536093262173E8 parent F1EBE6F9-BE8E-4228-BD90-9C496864475 85053AE1-2986-44F9-96E1-1200 com.apple.accounts.accounts
9 2 1 1 1 1 1 28 7.17536093262173E8 parent ABAD0FD6-223E-4936-8FA0-8749B5295F66 com.apple.accounts.ad
10 2 9 1 1 1 25 7 7.17536093262173E8 parent DWF787E-24C2-437A-931E-B0E05A26DE46 14B500E3-C35A-46C5-BD
D45A980 com.apple.accounts accountd
11 2 5 1 1 1 48 7 7.17536093262173E8 parent 493008F0-D925-4F98-A992-7DAB60A24186 DF15940E8-E574-4A86-83C
7E8266 com.apple.accounts accountd rosieloyd@t1292@icloud.com
12 2 20 1 1 0 32 7 7.17536093262173E8 iCloud - Device Locator AA9CEA39-424C-4A03-913C-071FF15A4049 2C
E9C-47FF-B112-92B983885542B com.apple.accounts accountd rosieloyd@t1292@icloud.com

```

Phone Number

DB Browser for SQLite - CellularUsage.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

Table: subscriber_info New Record Delete Record

VID	subscriber_id	subscriber_mdr	tag	last_update_time
1	891480000...	+16154278267...	1	721059267....

Edit Database Cell

Mode: Text Import Export Set as Normal

+16154278267

Type of data currently in cell: Text / Numeric
12 char(s) Apply

Remote

Identity

Name	Commit	Last modified	Size

SQL Log Plot DB Schema Remote

UTF-8

1-1 of 1 Go to: 1

Evidence To Establish Personas

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

Peter:

Phone Number: +1 (615) 571-9608
Email: peterbarnes12792@icloud.com

Relationship: Co-Worker Accused

Rosie:

Phone Number: +1 (615) 427-8267
Email: rosielloyd071292@icloud.com
Relationship: Co-Worker Accused

List any other contacts here:

Remington Stelle - (529) 654-123 --Missing 1 number for validity
Douglas J. Weinstein - (234) 987-6523
John Keen (615) 555-6543
Tameka Brady (324) 555-2345
Paul Thacker (629) 555-1298
John Grant (425) 987-5625
Mark Fletch (529) 555-4523
John Raymond (555) 957-8696
Marissa Fox (555) 364-5897
Billy Pack (555) 147-8639
Remington Akers (555) 212-5636
John (555) 896-5359

Screenshots of Autopsy AddressBook of Peter and Rosie iPhones

The screenshot shows the Autopsy interface with two main panes. On the left is the file tree for the PeteriPhoneImage (7) evidence file. The tree includes sections for AddressBook (1), Call History (1), Files for identifiers (5), Mail (16), Safari History (1), SMS (2), and Voicemail (3). Below these are LogicalFileSet3 (1) and LogicalFileSet4 (1), each containing sub-folders for AddressBook, Call History, Files for Identifiers, Mail, Safari History, and SMS. On the right is the Data Content pane, which has tabs for Hex, Strings, Indexed Text, Message, File Metadata, Results, and Annotations. The Indexed Text tab is selected, showing search results for the term "Rosie". The results list various contacts with their names, phone numbers, and email addresses.

Match	Name	Phone Number	Email
1	Rosie Lloyd	(529) 654-123	
2	Remington Stelle	(529) 654-	
3	Douglas J. Weinstein	old high school friend	
4	John Keen	(615) 555-6543	+16155556543 011
7	Tameka Brady	(324) 555-2345	+13245552345
9	Paul Thacker	(629) 555-1298	+16295551298
10	John Grant	(452) 987-5625	+14529875625 0
11	Mark Fletch	(529) 555-4523	+15295554523
	mark.fletch@yahoo.com		

The screenshot shows the Autopsy interface with two main panes. On the left is the file tree for the RosiPhoneImage (6) evidence file. The tree includes sections for AddressBook (1), Call History (1), Files for Identifiers (4), Mail (16), Safari History (1), and SMS (2). Below these are LogicalFileSet3 (1) and LogicalFileSet4 (1), each containing sub-folders for AddressBook, Call History, Files for Identifiers, Mail, Safari History, and SMS. On the right is the Data Content pane, which has tabs for Hex, Strings, Indexed Text, Message, File Metadata, Results, and Annotations. The Indexed Text tab is selected, showing search results for the term "Peter". The results list various contacts with their names, phone numbers, and email addresses.

Match	Name	Phone Number	Email
1	Peter Barnes	(555) 123-4685	+15551234685 01115551
2	John Raymond	(555) 123-4685	+15551234685 01115551
3	Ralph Smith	(564) 957-8696	+15649578696 01115649
4	Marissa Fox	(555) 364-5897	+15553645897 011155536
5	Billy Pack	(555) 147-8639	+15551478639 011155514
6	Remington Akers	(555) 212-5636	+15552125636 0111
7	John	(555) 896-5359	+15558965359 01115558965359

Evidence Relating to Theft of PGCU Funds

This section outlines the critical findings from the investigation into the theft of funds at Pure Gold Credit Union (PGCU). The evidence was thoroughly collected and analyzed, shedding light on the conspiracy and the roles of those involved.

Video Evidence: A video was also retrieved, capturing footage of money contained in an envelope. This served as supplementary proof of the illicit activities tied to the theft.

Voicemail: On Peter's iPhone, a crucial voicemail from Oliver, also known as "Mr. X," was uncovered. In this message, Oliver demanded that Peter ensure he received his share of the stolen funds so they could continue their fraudulent activities. This voicemail provided direct evidence of a larger scheme involving a third conspirator.

Emails: Investigators uncovered a series of incriminating emails exchanged between Peter Barnes and Rosie Lloyd. These communications explicitly detailed their scheme to steal funds from PGCU, offering clear evidence of their intent and collaboration.

Databases: Files and databases extracted from Peter's and Rosie's phones, such as address.db and Safari/History.db, provided key insights. These resources were instrumental in tracing their communications and activities, further linking them to the conspiracy.

Cross-Referencing Data: Additional data from devices like Rosie's iPhone were cross-referenced with the primary evidence, enabling investigators to construct a detailed account of the conspiracy and clarify the involvement of each individual.

Together, these findings formed a compelling case against Peter Barnes and Rosie Lloyd, conclusively demonstrating their roles in the theft of PGCU funds. The evidence played a pivotal role in the final conclusions and was included in the official report submitted to PGCU.

Plot Timeline

Time Unknown - October 11, 2023 - Peter emails Rosie and agrees he's frustrated as well, and that they should get together after work on this day.

7:47pm - October 11, 2023: Peter emailed Rosie following their meeting over the prior weekend, and how good it was to speak about non work related topics.

5:36pm - October 12, 2023: Rosie responds to Peter's initial email. Rosie goes on to say how likewise, it was good to hang out, outside of work. She also mentions how they both feel similarly that they are not being paid enough, and that the Gold Credit Union executives are all driving sports cars. This frustrates her.

8:31pm - October 19, 2023: Peter receives an email from hockeyfan4747@proton.me saying, "So, is Rosie in?" Due to further investigative work, this email user also goes by the alias of, "X" whose real identity is named Oliver.

9:02pm - October 19, 2023: Peter sends an email to Rosie, saying that it was great to get together again the night before (October 18, 2023), and was inquiring on what Rosie thought of the plan that Peter ran by her.

9:07pm - October 19, 2023: Rosie responds to the email saying how she is intrigued by the plan, and was up all night thinking about the plan and how it can be executed. She questioned Peter on the validity of "X," and if he can be trusted and what to do about Michaela Rokas.

9:38pm - October 19, 2023: Peter responds to "X" on how the scheme will be commencing the upcoming Friday.

9:11pm - October 20, 2023: Peter responds to Rosies email, saying how "X" was the one who brought this plan to Peter a while back. At first Peter thought it was a joke, but "X" kept asking about it. Peter says that he trusts "X" and now Peter is having troubles with money and is ready to enact the plan. He then reaffirms through a question if Rosie remembers what the next steps are on the plan.

9:20pm - October 20, 2023: Rosie responds by saying how she knows what the next step in the plan is, and is requesting Peter to get the copies of forged withdrawal receipts so the scheme can get moving. She then questions Catarina Mona and Lanzo, saying the last name may be Agneza.

9:23pm - October 20, 2023: Peter responds by saying to keep the details of the plan off email, and to delete the emails to remove traces of evidence. He accuses Rosie of being a little reckless and how that will get them caught. He also mentions how Catarina Mona and Lanzo are okay and how He (Peter) gets along with them for the most part.

9:33pm - October 20, 2023: Rosie responds saying how she will do that, and tells Peter to not worry so much.

Conclusion

The investigation into the theft of funds from Pure Gold Credit Union (PGCU) uncovered critical evidence implicating Peter Barnes and Rosie Lloyd in a coordinated effort to steal from the institution. Forensic analysis of Peter's iPhone revealed a series of emails between him and Rosie, which clearly outlined their plan to embezzle funds. These emails were instrumental in establishing their conspiracy. Additionally, a voicemail from Oliver, known as Mr. X, was found on Peter's phone. In the message, Oliver urged Peter to ensure he received his share of the stolen money, signaling his role in the broader scheme.

Further evidence was recovered from Rosie's phone, including a HEIC .MOV video showing an envelope filled with cash. This video provided visual confirmation of the stolen funds, linking Rosie directly to the crime. Together, the emails, voicemail, and video footage painted a clear picture of the conspiracy between Peter, Rosie, and Oliver, shedding light on their methodical approach to executing the theft. This evidence was crucial in understanding the depth of their involvement and the steps they took to carry out the fraudulent activities against PGCU.

Bonus Conclusion

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

Mr. X is Oliver. After further examining Peters phone, I found my way to his voicemail. Through there, I extracted the file 1.amr (.amr is the file type of voicemails.). I was able to play the audio, and it said verbatim, "Hey Peter, it's me, your buddy Oliver. From my math you and Rosie have cleared over \$125k, remember though, I get 20% and i'll keep clearing the audit records so Evelyn can ever catch you. Give me my cash though, put it in an envelope, leave it at my back door. Pleasure doing business with you!"

Pure-Gold-Credit-Union-2024 - Autopsy 4.10.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Timeline Close Case Generate Report Keyword Lists Keyword

Directory Tree

- ta Sources
 - LogicalFileSet1 (1)
 - LogicalFileSet2 (1)
 - PeteriPhoneImage (7)**
 - AddressBook (1)
 - Call History (1)
 - Files for Identifiers (5)
 - Mail (16)
 - Safari History (1)
 - SMS (2)
 - VoiceMail (3)
 - A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4
 - OfflineCache (1)
 - LogicalFileSet3 (1)
 - LogicalFileSet4 (1)
 - RosieiPhoneImage (6)
 - AddressBook (1)
 - Call History (1)
 - Files for Identifiers (4)
 - Mail (16)
 - Safari History (1)
 - SMS (2)
 - ws
 - sults
 - Extracted Content
 - Keyword Hits
 - Single Literal Keyword Search (242)
 - Single Regular Expression Search (0)
 - URLs (558)
 - IP Addresses (102)
 - Email Addresses (312)
 - Phone Numbers (24)
 - Hashset Hits
 - E-Mail Messages
 - Interesting Items
 - Accounts

Listing

Name	S	C	O	Location	M
1.amr	3			/LogicalFileSet2/PeteriPhoneImage/VoiceMail/A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4	0000-0
Checkpoint.plist	3			/LogicalFileSet2/PeteriPhoneImage/VoiceMail/A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4	0000-0
OfflineCache				/LogicalFileSet2/PeteriPhoneImage/VoiceMail/A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4	0000-0
com.apple.voicemail imap.parameters.plist	3			/LogicalFileSet2/PeteriPhoneImage/VoiceMail/A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4	0000-0
com.apple.voicemail imap.plist	3			/LogicalFileSet2/PeteriPhoneImage/VoiceMail/A-D3E419E4-6BF5-5B09-AC57-67804CBB8C6B4	0000-0

Data Content

Hex Strings Indexed Text Message File Metadata Results Annotations Other Occurrences

Text Source: File Text

Information

File(s) extracted.

OK

#!AMR
!y`B4<S2x9
@<c
0fw-@
R]0ff
92@1G
<@c0m
Wg0LDU S, Z
@<c10f
Wg0fq
Wg0r T
<c10r0
sg<@R
ml.pv
fx
<, P/(*)
@<r
@<SVSofd
<GSk0f
m <rb
8ff0
@<GVZ0f |x
<rcf0g
P<GW
,><rb
<GVZ0fl
@<rcf0lm
<GSk0fr
<rb
8fnY
@<GVZ0r
<rcf0f
asic
:h_p

Status: Running

Hyper-V Manager

Appendix A: Correspondence Evidence

```
root@kali: ~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt - □ x
File Edit View Search Terminal Tabs Help
root@kali: ~/autopsy-files/autopsy-4.10.0/bin x root@kali: ~/casedata/Pure-Gold-Credit-Union-202... x + □
bash: c: command not found
root@kali:~/casedata/Pure-Gold-Credit-Union-2024# cdorts
bash: cdorts: command not found
root@kali:~/casedata/Pure-Gold-Credit-Union-2024# cd Exports
bash: cd: Exports: No such file or directory
root@kali:~/casedata/Pure-Gold-Credit-Union-2024# ls
autopsy.db Co < IMG_0006.MOV □ ↻ ⌂ × Properties
Cache Ex
root@kali:~/ca
root@kali:~/ca
1192-B35F722B-
40-Mail
47-4E6A2774-16
root@kali:~/ca
20.pvt
bash: 1192-B35
root@kali:~/ca
53F20.pvt
root@kali:~/ca
0.pvt# ls
IMG_0006.HEIC
root@kali:~/ca
0.pvt# xdg-ope
0.pvt# xdg-ope
gio: file:///r
5753F20.pvt/IM
t-Union-2024/E
directory
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F2
0.pvt# xdg-open IMG_0006.MOV
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F2
0.pvt# xdg-open IMG_0006.MOV
gio: file:///root/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC
5753F20.pvt/IMG_006.MOV: Error when getting information for file "/root/casedata/Pure-Gold-Cred
it-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt/IMG_006.MOV": No such file or
directory
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F2
0.pvt# xdg-open IMG_0006.MOV
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F2
0.pvt#
```

A screenshot of a Linux terminal window titled 'root@kali: ~/casedata/Pure-Gold-Credit-Union-2024/Export/1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt'. The terminal shows a series of commands being run, primarily dealing with file operations like 'cd' and 'ls'. In the background, there is a file browser window showing a stack of US dollar bills. The terminal window has two tabs: one for 'root@kali: ~/autopsy-files/autopsy-4.10.0/bin' and another for 'root@kali: ~/casedata/Pure-Gold-Credit-Union-202...'. The file browser window is titled 'Properties' and shows a thumbnail of a video file named 'IMG_0006.MOV'.

DB Browser for SQLite - sms.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute S...

Table: message New Record Delete Record

ROWID	guid	text	replace	service
1	6	AEFD4110...	0	NULL
2	7	64CE5E08-5...	0	NULL
3	8	5066759A-F...	0	NULL
4	9	2A50AOCA-...	0	NULL
5	10	7D932C75...	Dinner toni...	0
6	11	7BDB1394...	Yup, see yo...	0
7	12	812E2E21-E...	I did it toda...	0
8	13	3708197B-E...	NULL	0
9	14	BBE17784...	Let's get off...	0

1 - 9 of 9 Go to: 1

Edit Database Cell Mode: Text Import Export Set as NULL

I did it today, can't believe it, Going to the mall later, wanna join me ?
Also, I sent you a picture.

Type of data currently in cell: Text / Numeric
102 char(s) Apply

Remote Identity

Name Commit Last modified Size

SQL Log Plot DB Schema Remote UTF-8

1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt AddressBook.sqlite3-shm History.db-wal
40-Mail AddressBook.sqlite3-wal sms.db
47-4E6A2774-1647-484D-8321-E8379D7AAE70 History.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export# cd 1185-SMS
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# ls
Attachments sms.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# sqlitebrowser sms.db

DB Browser for SQLite - sms.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute S...

Table: message New Record Delete Record

ROWID	guid	text	replace	service
1	6	AEFD4110...	0	NULL
2	7	64CE5E08-5...	0	NULL
3	8	5066759A-F...	0	NULL
4	9	2A50AOCA-...	0	NULL
5	10	7D932C75...	Dinner toni...	0
6	11	7BDB1394...	Yup, see yo...	0
7	12	812E2E21-E...	I did it toda...	0
8	13	3708197B-E...	NULL	0
9	14	BBE17784...	Let's get off...	0

1 - 9 of 9 Go to: 1

Edit Database Cell Mode: Text Import Export Set as NULL

Let's get off texts please, just email me to that email address.

Type of data currently in cell: Text / Numeric
67 char(s) Apply

Remote Identity

Name Commit Last modified Size

SQL Log Plot DB Schema Remote UTF-8

1192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt AddressBook.sqlite3-shm History.db-wal
40-Mail AddressBook.sqlite3-wal sms.db
47-4E6A2774-1647-484D-8321-E8379D7AAE70 History.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export# cd 1185-SMS
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# ls
Attachments sms.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# sqlitebrowser sms.db

DB Browser for SQLite - sms.db

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

Table: message New Record Delete Record

record_change_id	destination_caller_id	is_corrupt	reply_id
1	+16154278267	0	NULL
2	NULL	+16154278267	0
3	+16154278267	0	64CE5
4	NULL	+16154278267	0
5	NULL	+16154278267	0
6	+16154278267	0	50667
7	+16154278267	0	2A50A
8	+16154278267	0	7D932
9	+16154278267	0	7BDB1
	+16154278267	0	812E2
	+16154278267	0	37081

Peter's #

1 - 9 of 9 Goto: 1

Edit Database Cell

Mode: Text Import Export Set as NULL

Type of data currently in cell: NULL
0 byte(s) Apply

Remote

Identity Name Commit Last modified Size

SQL Log Plot DB Schema Remote

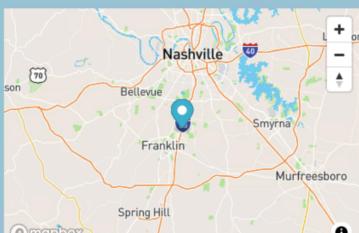
UTF-8

```
l192-B35F722B-8B47-4AF6-BA7D-6A5DC5753F20.pvt AddressBook.sqliteb-shm History.db-wal
40-Mail AddressBook.sqliteb-wal sms.db
47-4E6A2774-1647-484D-8321-E8379D7AAE70 History.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export# cd 1185-SMS
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# ls
Attachments sms.db
root@kali:~/casedata/Pure-Gold-Credit-Union-2024/Export/1185-SMS# sqlitebrowser sms.db
```

Appendix B: GPS Location Information

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

3.99 mm at ISO 320 and 1/46sec at f/1.8

Camera Make and Model	All Photo EXIF Data
Apple - iPhone SE (2nd generation)	Save & Share EXIF
Camera Location Details	<input checked="" type="checkbox"/> Hide Serial Numbers
Photo GPS Location: 35.97045,-86.80738888888888	Make: Apple
	Model: iPhone SE (2nd generation)
Image Preview	Orientation: bottom-right
Preview not available	XResolution: 72
	YResolution: 72
	ResolutionUnit: inches
	Software: 16.5
	Date Time: 2023:10:20 19:53:39
	Host Computer: iPhone SE (2nd generation)
	Exif IFD Pointer: 250
	GPS Info IFD Pointer: 2124
	Exposure Time: 1/46
	FNumber: f/1.8
	Exposure Program: Normal program
	ISOSpeed Ratings: 320

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

Image Preview	Exposure Program: Normal program
Preview not available	ISO Speed Ratings: 320
	Exif Version: 0232
	Date Time Original: 2023:10:20 19:53:39
	Date Time Digitized: 2023:10:20 19:53:39
	Offset Time: -05:00
	Offset Time Original: -05:00
	Offset Time Digitized: -05:00
	Shutter Speed Value: 1/46
	Aperture Value: 1.80
	Brightness Value: 0.9893365990620986
	Exposure Bias Value: 0
	Metering Mode: Pattern
	Flash: Flash did not fire, compulsory flash mode
	Focal Length: 3.99 mm
	Subject Area: Rectangle; X: 2013, Y: 1511, width: 2217, height: 1330
	Marker Note: [Raw marker note data]
	Sub Sec Time Original: 123
	Sub Sec Time Digitized: 123

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

https://onlineexifviewer.com

SubSecTimeOriginal	123
SubSecTimeDigitized	123
ColorSpace	Uncalibrated
PixelXDimension	4032
PixelYDimension	3024
SensingMethod	One-chip color area sensor
SceneType	A directly photographed image
ExposureMode	Auto exposure
WhiteBalance	Auto white balance
FocalLengthIn35mmFilm	28
LensSpecification	3.99-3.99 mm f/1.7999999999999998
LensMake	Apple
LensModel	iPhone SE (2nd generation) back camera 3.99mm f/1.8
CompositeImage	General Composite Image
GPSLatitudeRef	North latitude
GPSLatitude	35.97045
GPSLongitudeRef	West longitude
GPSLongitude	86.80738888888888
GPSAltitudeRef	Sea level

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

Online EXIF Viewer - View EXIF Data Online - Mozilla Firefox

https://onlineexifviewer.com

LensModel	iPhone SE (2nd generation) back camera 3.99mm f/1.8
CompositeImage	General Composite Image
GPSLatitudeRef	North latitude
GPSLatitude	35.97045
GPSLongitudeRef	West longitude
GPSLongitude	86.80738888888888
GPSAltitudeRef	Sea level
GPSAltitude	228.60344182566405 m
GPSSpeedRef	Kilometers per hour
GPSSpeed	0.08035098762101729
GPSImgDirectionRef	True direction
GPSImgDirection	122.15736381977135
GPSDestBearingRef	True direction
GPSDestBearing	122.15736381977135
GPSDateStamp	2023:10:21
GPSHPositioningError	10.979075861700137