

Tannen (Final)

Forensic Report

Case Information

- **Case Title:** Tannen Cold Case Investigation
- **Case Number:** 081524
- **Investigator:** Ramon Lopez Jr
- **Date of Report:** August 22nd, 2024
- **Date of Evidence Acquisition:** August 15th, 2024

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1. Introduction

This forensic report documents the investigation of a cold case involving suspect Biff Tannen, based on evidence found in a 2.5-inch hard disk drive contained in a device reported in 1985. The investigation was reopened in 2015 using modern forensic tools to uncover evidence related to alleged crimes including drug trafficking, sexual exploitation of a minor, and homicide.

2. Executive Summary

The investigation identified key pieces of evidence that support the allegations of sexual exploitation of a minor and homicide. Despite extensive analysis, no conclusive evidence was found to support the drug trafficking charge. The findings are based on a thorough forensic examination of the disk image, with a detailed analysis of the file systems, user accounts, and significant files discovered.

3. Objectives

The primary objectives of this forensic investigation were:

- To determine if evidence exists to support the allegations against Biff Tannen.
- To uncover and document all relevant files, user accounts, and system information.
- To establish a clear timeline of events based on the data recovered from the disk image.

4. Methodology

The investigation was conducted using FTK Imager for evidence acquisition and Autopsy 4.21.0 for detailed forensic analysis. The steps included:

- Verifying the integrity of the disk image using hash verification.
- Mounting the disk image to explore and extract data.
- Analyzing user directories, system files, and metadata to identify relevant evidence.

5. Evidence Acquired

NAME	DATE	TIME	LOCATION	HASH	NOTES
60A2F850CA253180399BD7C55C7104E4.PNG	11/06/2015	16:38:37 MST	/img_2015-1021-TANNEN.E01/vol_vol2/Users/Biff Tannen/.thumbnails/normal/	2f48a2a7436d0c26e79937c61d442ef2	An image of a little girl in a yellow skirt with flowers on it.
7511E7B3459E4CF635F723065B4E2793.PNG	11/06/2015	16:37:19 MST	/img_2015-1021-TANNEN.E01/vol_vol2/Users/Biff Tannen/.thumbnails/normal/	2ab4ff188645d85b0e086c32af9774de	An image of a little girl, the image has a pink background with a black silhouette of a little girl.

B0E971484AA918F2C54BCC31DAC0DE59.PNG	11/06/2015	16:38:35 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/.thumbnails/normal/	ac827451c0efa3276aec3472a1881de9	An image of a little girl, the image has a pink background with a black silhouette of a little girl.
18A024D74C0307D8B763EDBC7B4DA462.PNG	11/06/2015	16:35:26 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/.thumbnails/normal/	bafa150a2b5bd6ce13c64275004f0566	An image of a little girl, the image has a pink background with a black silhouette of a little girl. Appears to be something else in the picture, however, I cannot tell what it is.
26C46FE4C5785AFB72689A9B54E762D1.PNG	11/06/2015	16:33:30 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/.thumbnails/normal/	b23ac38fa76f75703da837bb6d7b1196	An image of a little girl, the image has a pink background with a black silhouette of a little girl.
26 MAR 1958.TXT	10/29/2015	11:43:15 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/Desktop/My Journal Entries/	a789798bd6e586de28e6eaf478d60cd2	Biff talks how Lorraine was naked out to him at the age of 10, "He didn't bother to tell them she was only ten". Older Biff walks up to younger Biff to call him a butthead and tell him that she was only 10.
5 NOV 1945.TXT	11/22/2015	07:35:06 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/Desktop/My Journal Entries/	1d78004d9805ec430e6632d54e0cdad9	In this portion of the diary, Biff writes that he saw a 10-year-old Lorraine take off all her clothes for "him". Which is already a red flag that older Biff is seeing this. On top of that, Biff also explains that he was "too busy getting his phone out to take pictures" which is another red flag. He also explains that he could take 3 or 4 pictures of her.
15 MAR 1968.TXT	11/26/2015	12:45:15 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/Desktop/My Journal Entries/	a35c04bb8c4bce2d98c7e54f2ba8a23c	In this journal entree, Biff talks about how McFly and Lorraine had a child, "I should have figured out a way to kill that baby before it was ever born." However, he does claim that it's heartless for him. But I think this is still good evidence against him since he decided to write this into his diary.
15 MAR 1973.TXT	11/26/2015	05:47:00 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/BiffTannen/Desktop/My Journal Entries/	2c7aea1f22bf1a2a5f97d61eb2c6b343	Biff explain how Lorraine is still with

			vol2/Users/Biff Tannen/Desktop/My Journal Entries/		McFly, "That bitch Lorraine is still with McFly..." indicating that Biff is unhappy. However further down the diary, Biff explains how he took McFly behind the coffee shot and put a bullet in his head and took his body back to 2015 to dump the body.
8 NOV 1955.TXT	10/25/2015	03:37:16 MST	/img_2015-1021-TANNEN.E01/vol_2/vol2/Users/Biff Tannen/Desktop/My Journal Entries/	0c3e50b9dbe552b5a2f2f6920a84e851	Biff explains in this portion of the diary that he went 1955 for some reason when saw McFly's son, Marty, in the same year. Biff states, "If I can kill him here in 1955, I think I will." Which shows he had intentions on killing McFly's son in this year.

6. Analysis

Detail the analysis performed on the acquired evidence, divided into the following sections:

6.1 Data Extraction

The disk image was mounted, revealing four volumes, two of which were unallocated. The primary analysis focused on the NTFS and FAT32 partitions. The primary digital evidence acquired includes:

- **Forensic Image:** TANNEN.E01 |
- **MD5 Hash:** e7ff10b378b4cfc60b707fb31efbadb7
- **Partitions:**
 - **Volume 1:** Unallocated
 - **Volume 2:** NTFS/exFAT (0x07)
 - **Volume 3:** Win95 FAT32 (0x0c)
 - **Volume 4:** Unallocated
- **Notable Files:**
 - Images and diary entries from the "My Pictures" and "My Documents" folders.
 - A large Business.vhd file.
 - System files like pagefile.sys.

Upon looking at the disk image, a lot more information was revealed about the image:

- **Physical Sector:** Looking through the physical sector 6293504 or 6291456. I was able to find \$OrphanFiles, \$Extend, \$Recycle.Bin, \$Unalloc, Boot, Documents

and Settings, PerfLogs, Program Files, ProgramData, Recovery, System Volume Information, Users, and Windows.

- **Notable Files:** The system that has been seized has notable files that are located within directories. More notably the directories, My Pictures and My Documents are folders that should be investigated, which are all located within Biff Tannen's account. These are notable because they could contain files that are important to the investigation on hand.
- **Compound File:** This system does contain compound files, 20 to be exact. I was able to locate these by going to File Views > File Types > By Extension > Archives. Based on what I was able to observe, the location of these files is either going to be found under program files, users, recycle bin, or Windows.
- **Files Over 1GB:** Upon looking through the system, I was able to locate 3 files that were larger than 1GB. These files are as follows: Business.vhd, which looks like it is located under Biff Tannen's account, not much information I could grab from this since it is .vhd file. The next file, \$BadClus:\$Bad, looks like it a file system based on the type of Autopsy displays. Finally, the final file, pagefile.sys, based on the name of the file, is considered a file system, which is not surprising.
- **\$MFT Bytes:** The only \$MFT file I was able to find was in Volume 2: NTFS / exFAT (0x07), which the size of that files as 75497472 Bytes.

Number of Users (6): All users were located within Volume 2: NTFS / exFAT (0x07). The total amount of users was around 6 listed as: All Users, Biff Tannen, Default, Default User, Lorraine 1985B, and Public. My point of interest is going to be in the user Biff Tannen.

6.2 Communication Analysis

Emails, chat logs, and any potential communication tools were examined, but no evidence was found to indicate direct communication related to drug trafficking or other crimes.

6.3 Behavioral Analysis

Review internet browsing history, documents, and files to understand the suspect's research and planning.

Review of documents and images in Biff Tannen's directories suggested behaviors consistent with sexual exploitation of minors and planning for violent crimes as shown in files. Below was the evidence of this behavior:

Sexual Exploitation of Minors (7 Files): 3:26 PM on August 20th, 2024

- **Image 1:** 60a2f850ca253180399bd7c55c7104e4.png
 - Contains an image of a girl in a yellow skirt.
- **Image 2:** 7511e7b3459e4cf635f723065b4e2793.png

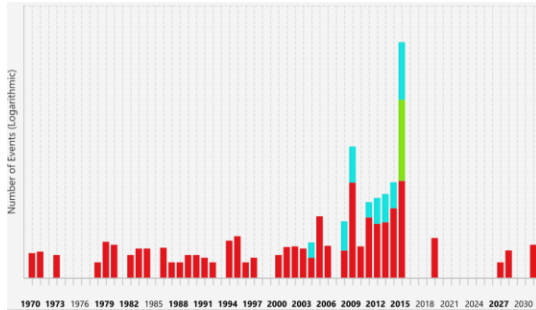
- Contains an image of a little girl, the image has a pink background with a black silhouette of a little girl.
- **Image 3:** b0e971484aa918f2c54bcc31dac0de59.png
 - Another image of an image of a little girl, the image has a pink background with a black silhouette of a little girl.
- **Image 4:** 18a024d74c0307d8b763edbc7b4da462.png
 - Another image of an image of a little girl, the image has a pink background with a black silhouette of a little girl. Appears to be something else in the picture, however, I cannot tell what it is.
- **Image 5:** 26c46fe4c5785afb72689a9b54e762d1.png
 - The final image of an image of a little girl, the image has a pink background with a black silhouette of a little girl.
- **1958 Diary Entry:** 26 MAR 1958.txt
 - Biff talks how Lorraine was naked out to him at the age of 10, “He didn’t bother to tell them she was only ten”. Older Biff walks up to younger Biff to call him a butthead and tell him that she was only 10.
- **1945 Diary Entry:** 5 NOV 1945.txt
 - In this portion of the diary, Biff writes that he saw a 10-year-old Lorraine take off all her clothes for “him”. Which is already a red flag that older Biff is seeing this. On top of that, Biff also explains that he was “too busy getting his phone out to take pictures” which is another red flag. He also explains that he could take 3 or 4 pictures of her.

Planning of Violent Crimes (3 Files): 1:25 PM on August 22nd, 2024

- **1968 Diary Entry:** 5 MAR 1968.txt
 - In this journal entree, Biff talks about how McFly and Lorraine had a child, “I should have figured out a way to kill that baby before it was ever born.” However, he does claim that it's heartless for him. But I think this is still good evidence against him since he decided to write this into his diary.
- **1973 Diary Entry:** 15 MAR 1973.txt
 - Biff explain how Lorraine is still with McFly, “That bitch Lorraine is still with McFly...” indicating that Biff is unhappy. However further down the diary, Biff explains how he took McFly behind the coffee shot and put a bullet in his head and took his body back to 2015 to dump the body.
- **1955 Diary Entry:** 8 NOV 1955.txt
 - Biff explains in this portion of the diary that he went 1955 for some reason when saw McFly’s son, Marty, in the same year. Biff states, “If I can kill him here in 1955, I think I will.” Which shows he had intentions on killing McFly’s son in this year.

6.4 Timeline Construction

The timeline was constructed based on the timestamps of relevant files, particularly the diary entries that suggest planned criminal activities, including potential homicides.



6.5 Social Media Analysis

No social media data was recovered from the disk image.

6.6 Malware and Software Analysis

No malware or suspicious software was identified on the disk image.

6.7 Artifact Correlation

Key artifacts, including \$MFT entries, sector locations, and file metadata, were correlated to construct a comprehensive picture of Tannen's activities, look under 6.1 Data Extraction.

7. Findings

- Sexual Exploitation: Multiple images and diary entries strongly suggest involvement in the sexual exploitation of minors.
- Homicide: Diary entries indicate homicidal intent and references to disposing of victims.
- Drug Trafficking: No substantial evidence was found to support the drug trafficking charge.

8. Conclusion

The forensic analysis supports the allegations of sexual exploitation and homicide. The evidence suggests that Biff Tannen engaged in criminal activities involving minors and had plans for or committed homicides. The lack of evidence for drug trafficking suggests that this charge may not be substantiated based on the current data.

9. Recommendations

Further investigation is recommended to explore the connections between the suspect's documented behaviors and any unsolved crimes during the timeline in question. Additionally, monitoring of any known associates of Biff Tannen for related activities could be warranted.

10. Appendices

1. Tannen (Final) Screenshots.zip
2. Tannen (Final) Autopsy Report.html