



Louisville Metro Police Department

Digital Forensics Unit



Defendant: Brooks Houck

Google Account Analyzed

brookswhouck1@gmail.com

Detective Timothy O'Daniel

LMPD DFU

Peer Reviewed by Detective Ethan Guetig

PLAINTIFF'S
EXHIBIT

47



Investigative Information



INVESTIGATIVE INFORMATION:

In 2022, I was requested by Kentucky State Police to assist with the investigation into the disappearance of Crystal Rogers. The investigation identified a possible suspect as being Brooks Houck, who was determined to be using Google account, **brookwshouck1@gmail.com**, at the time of the crime.

PURPOSE OF ANALYSIS:

I was requested to conduct analysis of the location records provided by Google for the aforementioned Google account to show its general locations around the times of interest to the investigation and subsequent activities based upon the data provided.



Google Location History Analysis

METHODOLOGY:

Google Inc. maintains databases that capture, and store information related to the usage of each customer's Google account. These databases generate location history. The location history data document the interactions to and from the Google account, to include the date, time, latitude and longitude, display radius in meters, source (GPS, Wi-Fi, Cell) and device information.

An analysis was performed on the Google records obtained for the previously mentioned listed Google Gmail account. Google location data (using latitude and longitude and radius coordinates provided in the data) was input into ESPA by Gladiator Forensics and CASTViz, mapping software provided by the FBI and National Domestic Communications Assistance Center and peer-reviewed.



Example of Location History Records



Google Confidential & Proprietary

The Maps Display Radius field reflects an estimated uncertainty value regarding the reported coordinate. Its value depends on a great many factors and is an approximation sufficient for its intended product uses.

Timestamp (UTC)	Latitude	Longitude	Display Radius (Meters)	Source	Device Tag	Platform
2018-02-08T20:32:10.572Z	38.2214101	-85.7739566	16	WiFi	-136144674	android/lge/ivl_crk_us/ivl.6.0.1/MXB48T/172902051ca77:user/release-keys
2018-02-08T20:26:05.533Z	38.2214981	-85.7740893	23	GPS	-136144674	android/lge/ivl_crk_us/ivl.6.0.1/MXB48T/172902051ca77:user/release-keys
2018-02-08T20:17:27.684Z	38.2214203	-85.7740327	30	WiFi	-136144674	android/lge/ivl_crk_us/ivl.6.0.1/MXB48T/172902051ca77:user/release-keys

Time/Date of Connection

Latitude/Longitude

Accuracy

Source

Device/Platform information

Time adjusted from UTC to ET (-4)

"cell" not used/shown



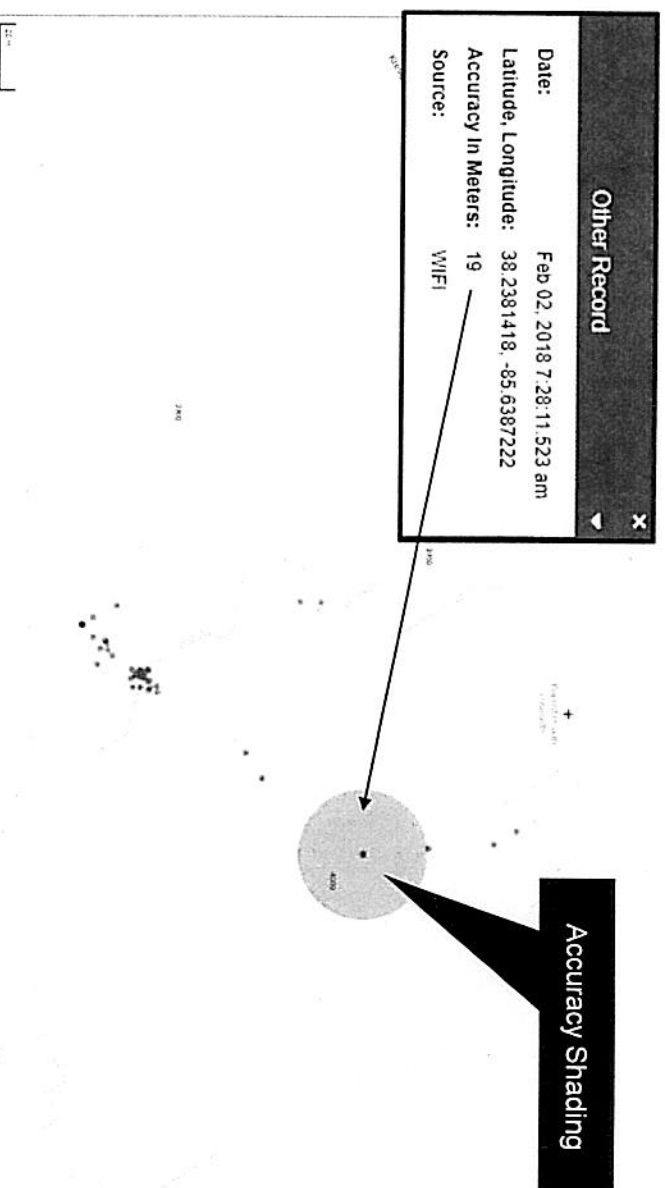
Example of Google Location History



Dot in middle is the latitude and longitude of the data.

The shaded area is the display radius or accuracy (in meters) of the data.

Source shown in the blue box.





File Used

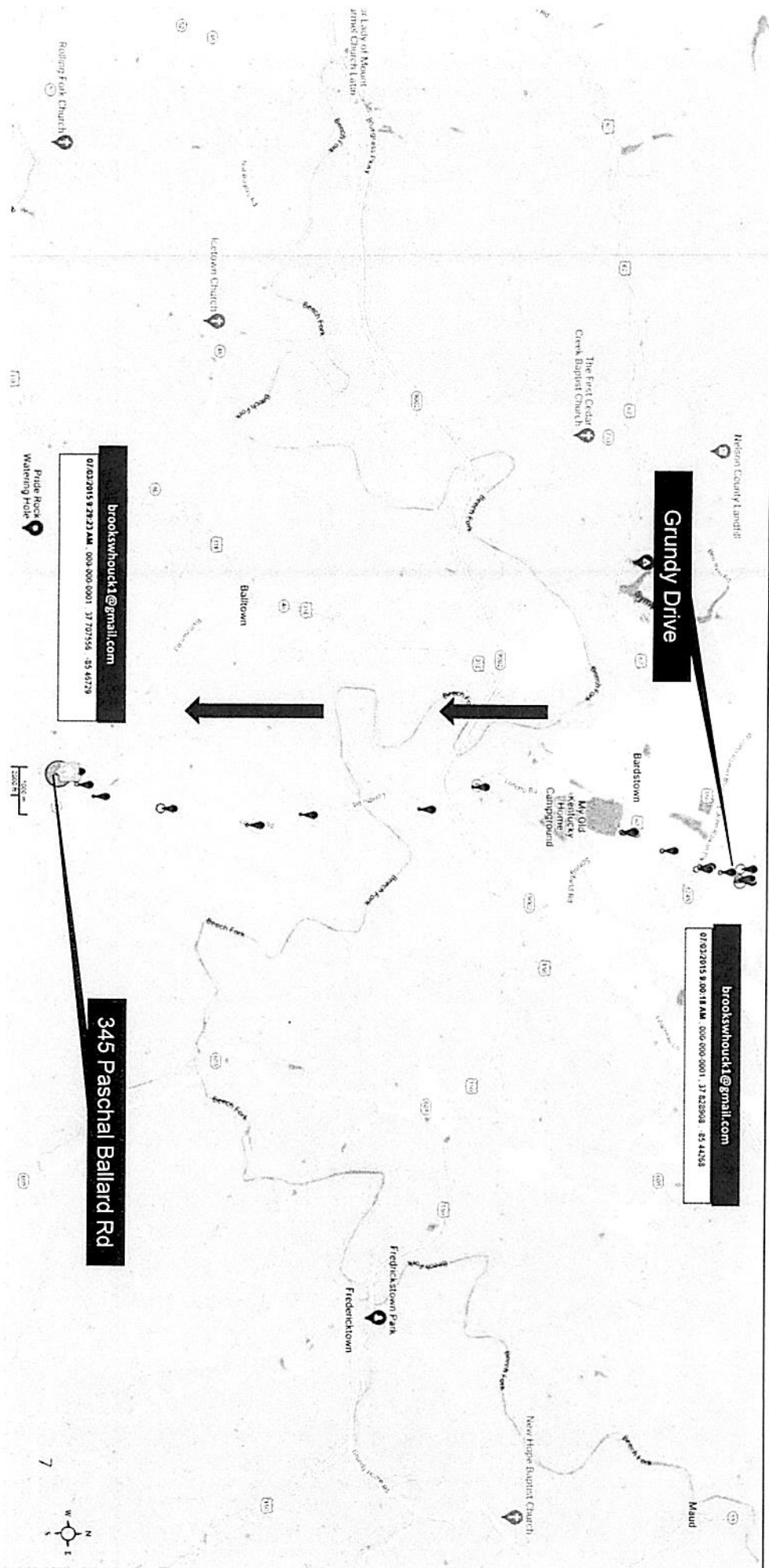


brookswhouck1@gmail.com.locationhistory.csv



Location History Analysis

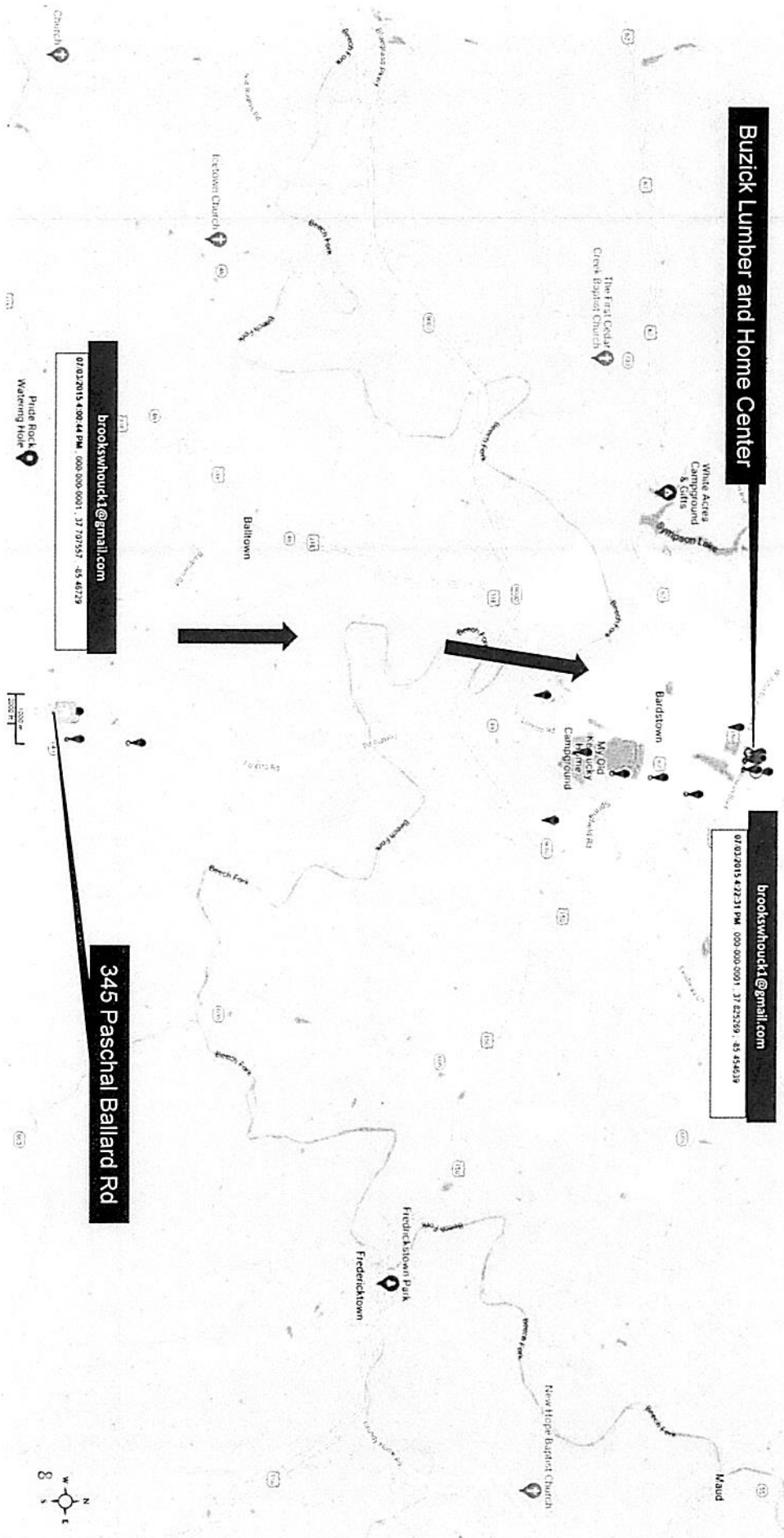
brookswhouck1@gmail.com on July 3, 2015, 9:00 AM ET to 9:30 AM ET





Location History Analysis

brookswhouck1@gmail.com on July 3, 2015, 4:00 PM ET to 4:22 PM ET



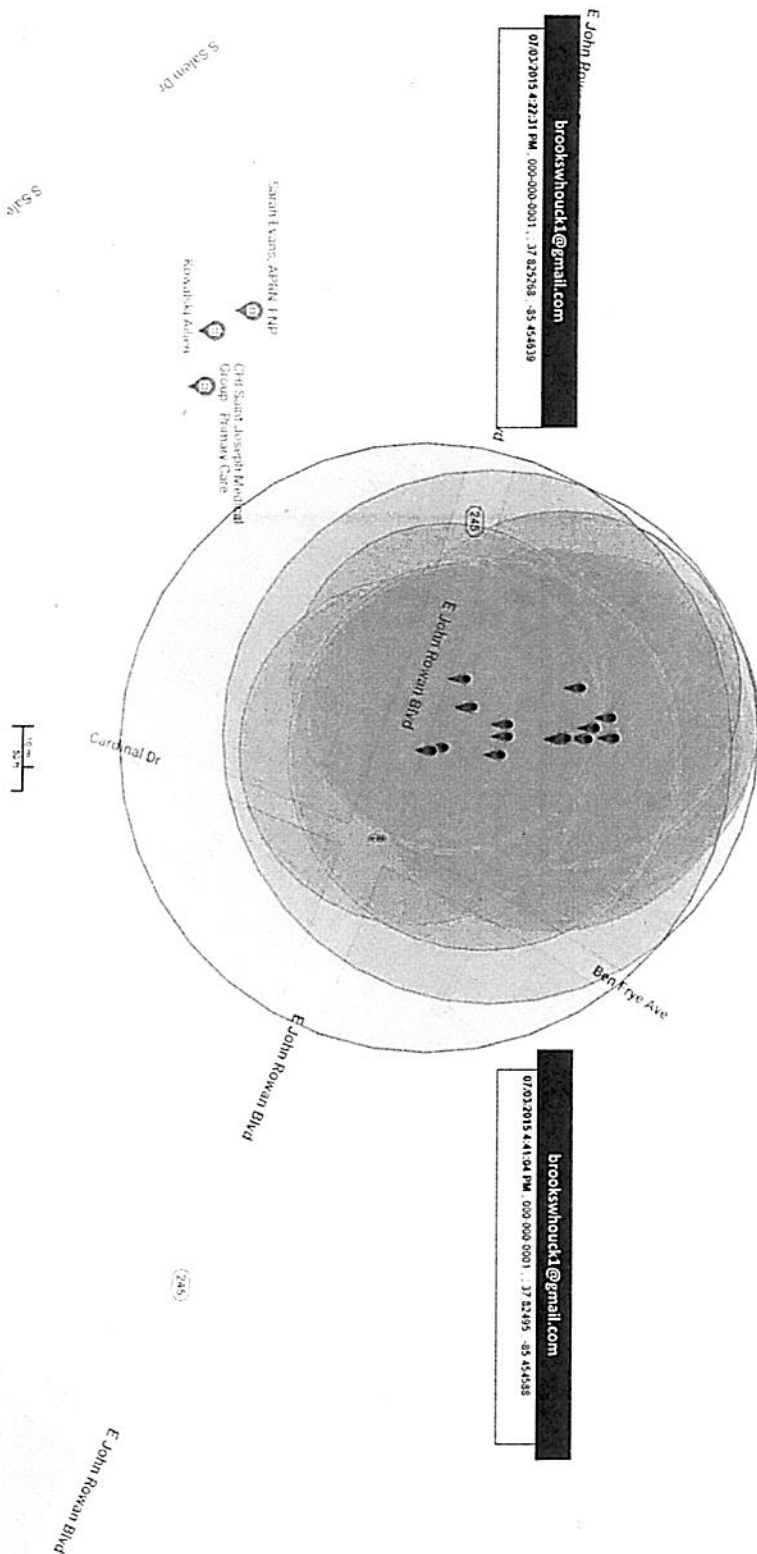


Location History Analysis

brookswhouck1@gmail.com on July 3, 2015, 4:22 PM ET to 4:42 PM ET



Buzick Lumber and Home Center

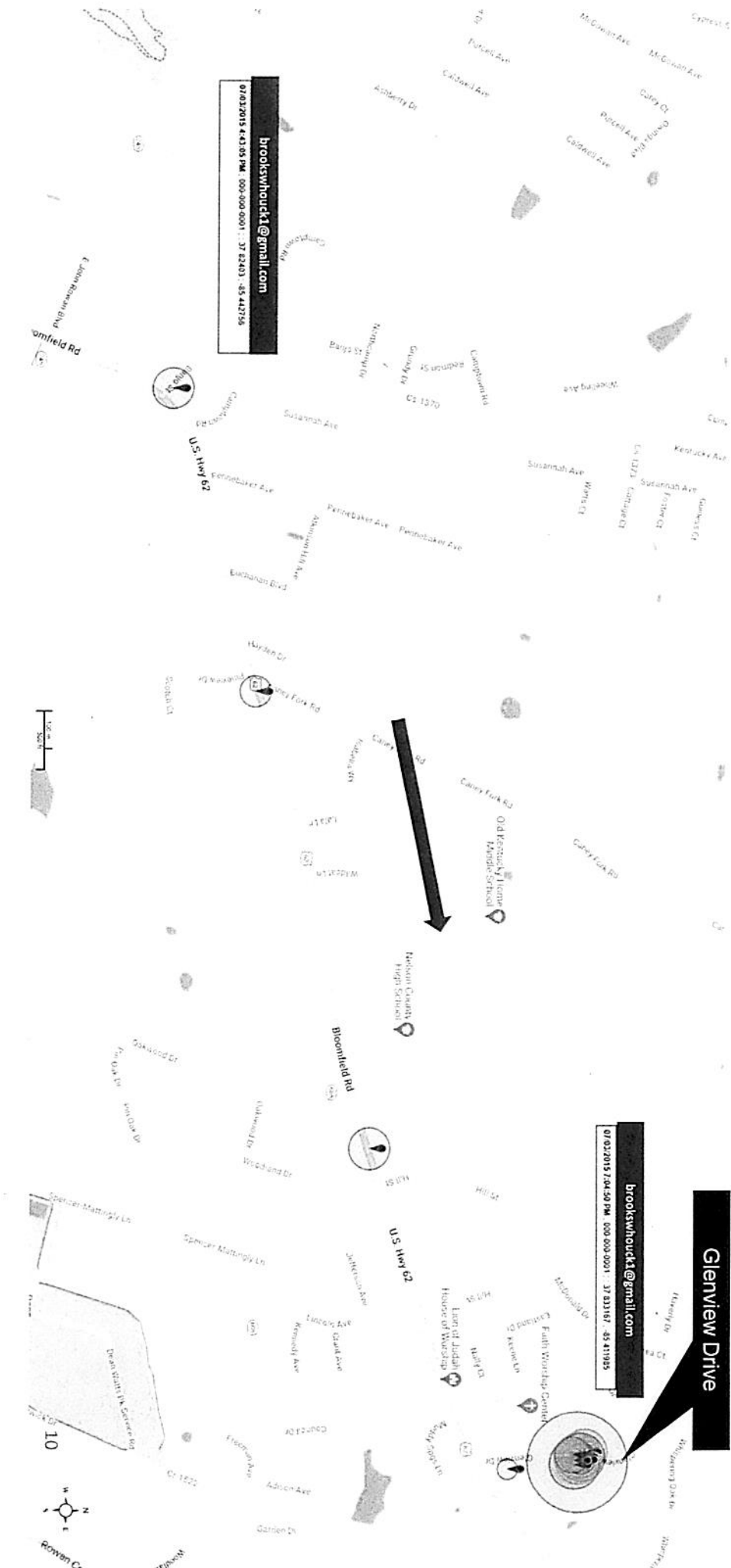


brookswhouck1@gmail.com
07/03/2015 4:22:31 PM - 000 000 0001 - 37 82358 - 85 45433

brookswhouck1@gmail.com
07/03/2015 4:41:54 PM - 000 000 0001 - 37 82355 - 85 45435



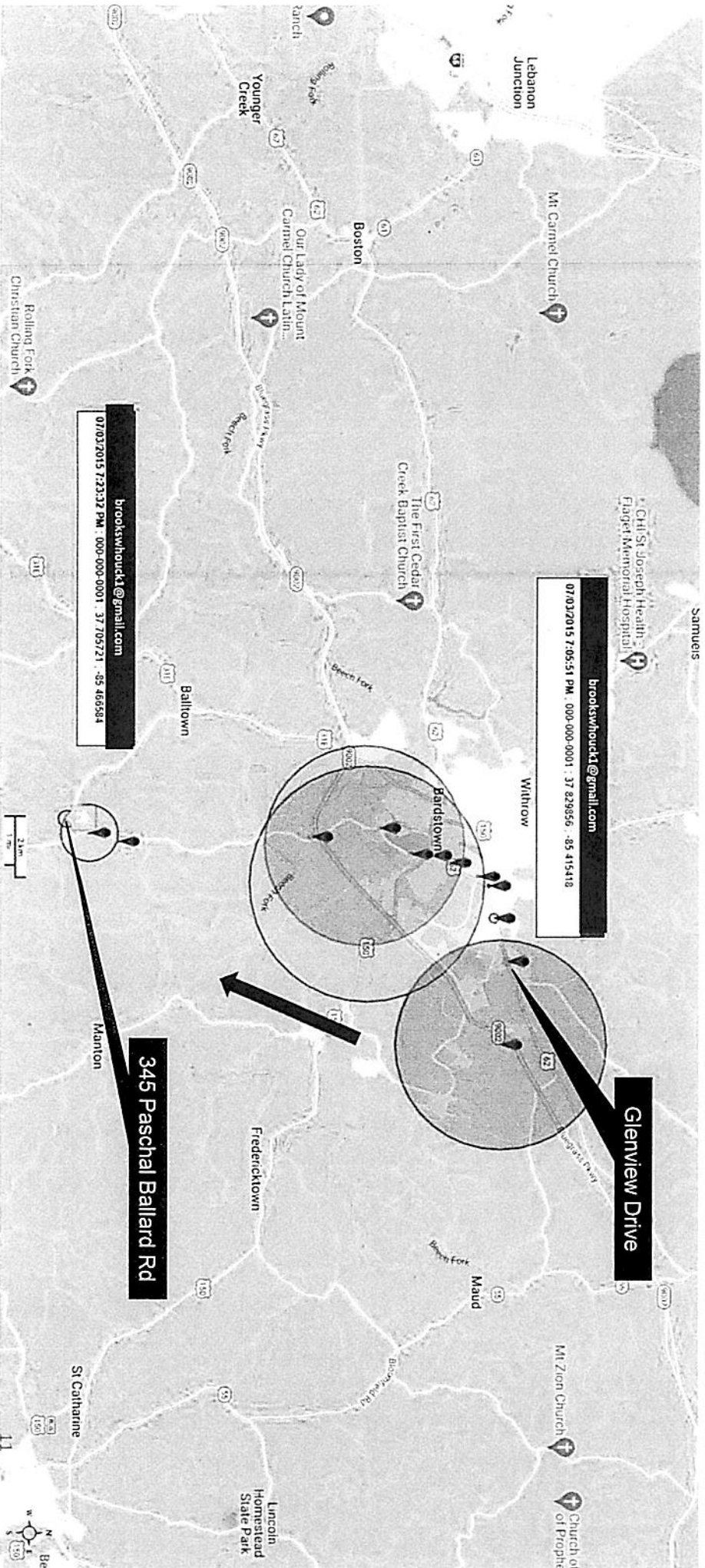
brookswhouck1@gmail.com on July 3, 2015, 4:43 PM ET to 7:05 PM ET





Location History Analysis

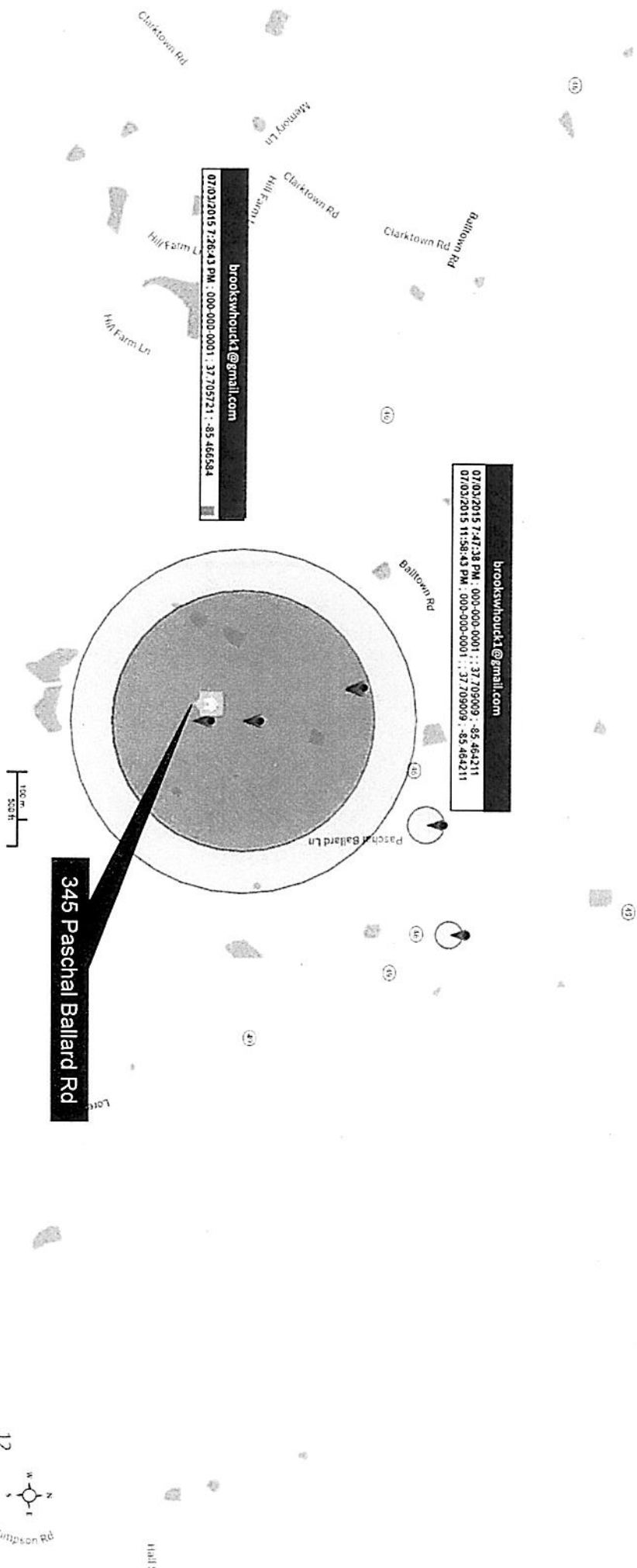
brookswhouck1@gmail.com on July 3, 2015, 7:05 PM ET to 7:24 PM ET





Location History Analysis

brookswhouck1@gmail.com on July 3, 2015, 7:24 PM ET to 11:58 PM ET





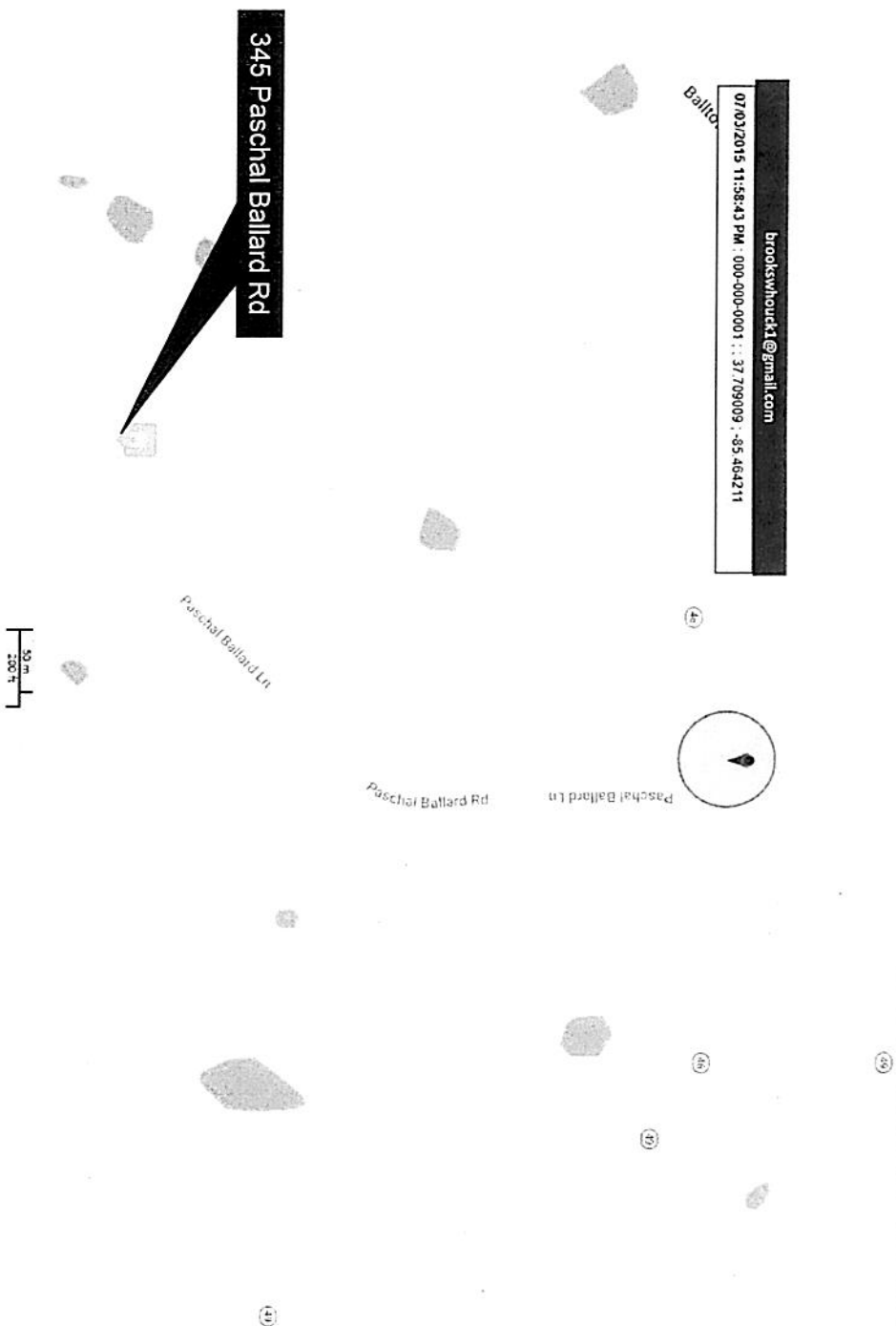
Location History Analysis

brookswhouck1@gmail.com on July 3, 2015, 7:24 PM ET to 11:57 PM ET





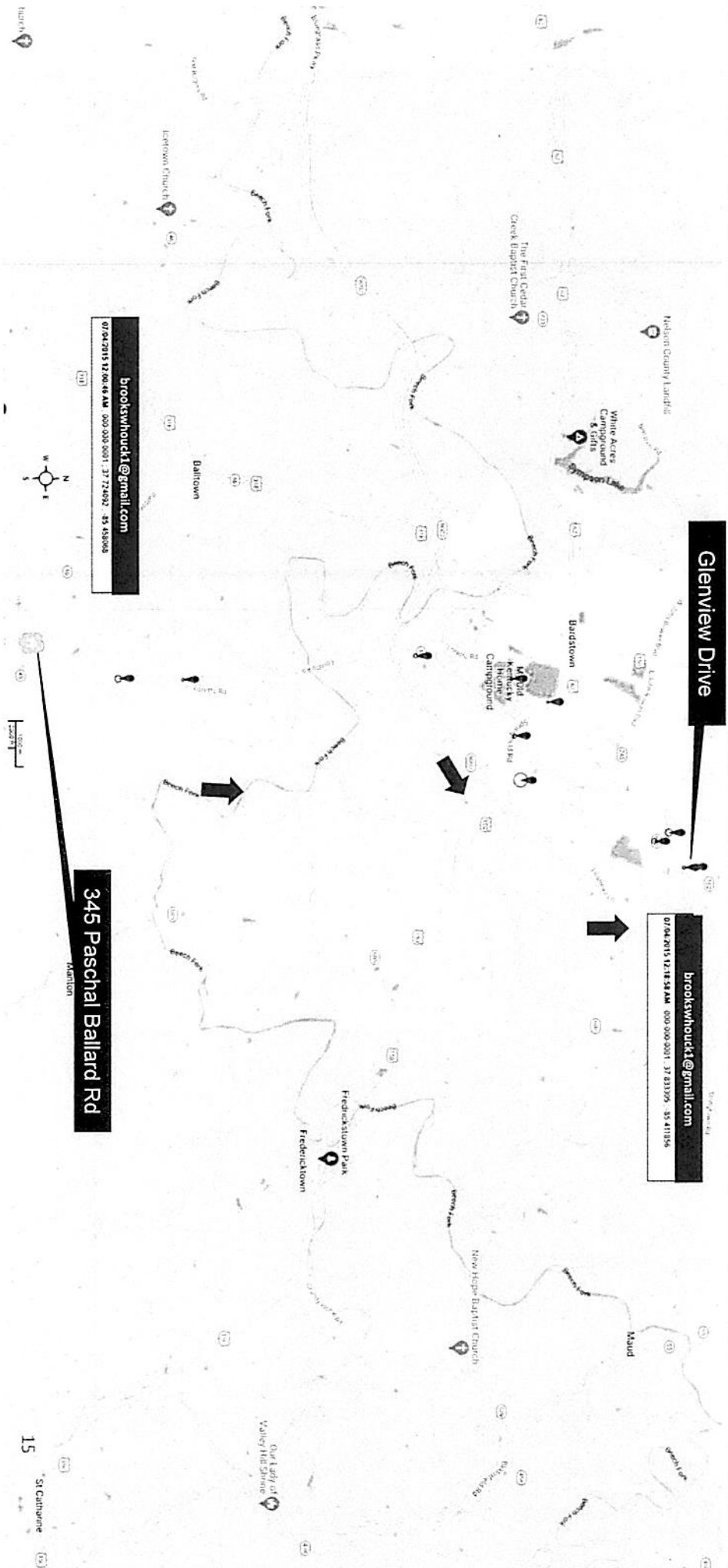
Location History Analysis
brookswhouck1@gmail.com on July 3, 2015, at 11:58 PM ET





Location History Analysis

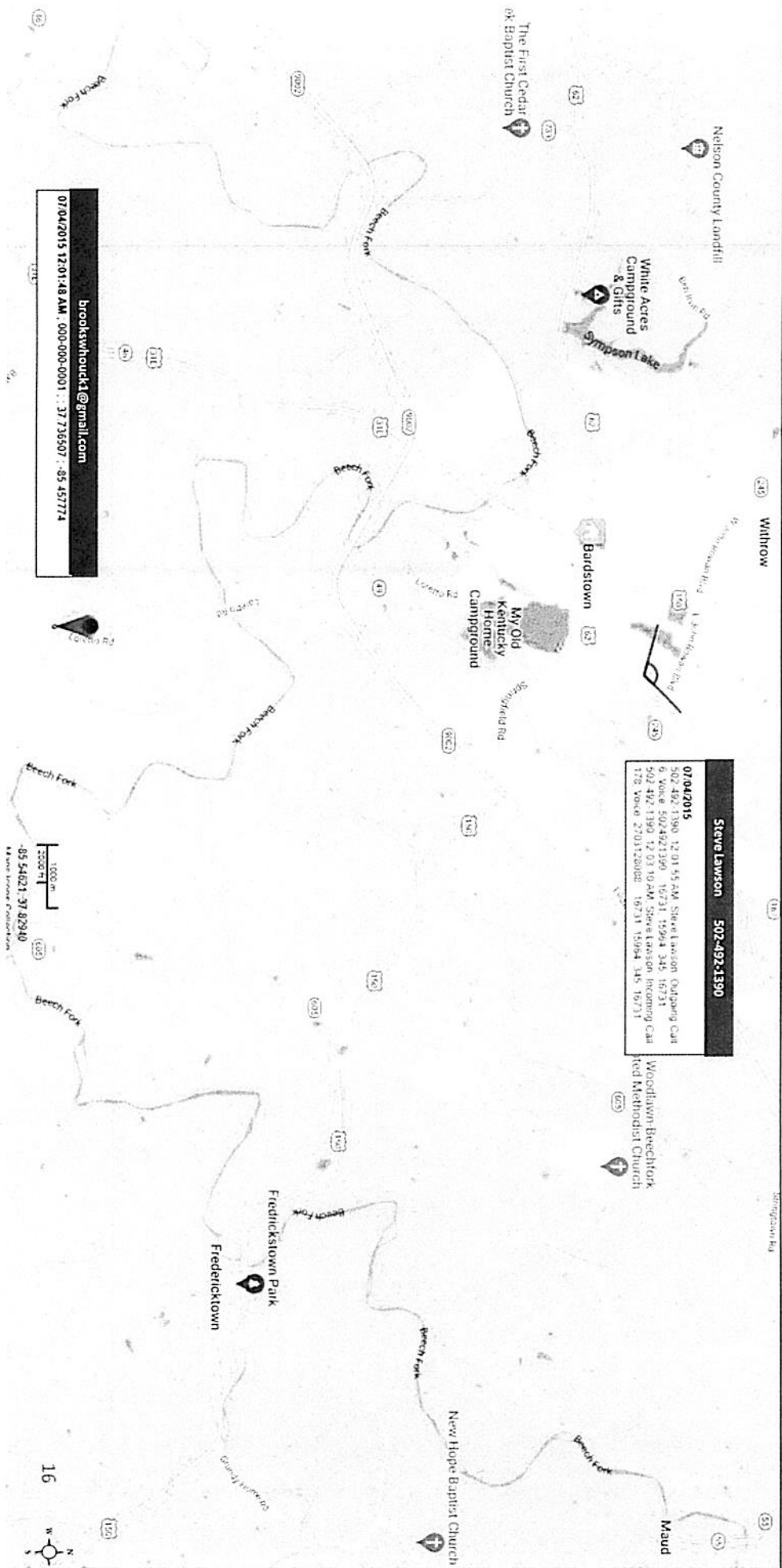
brookswhouck1@gmail.com on July 4, 2015, 12:00 AM ET to 12:19 AM ET





Location History Analysis

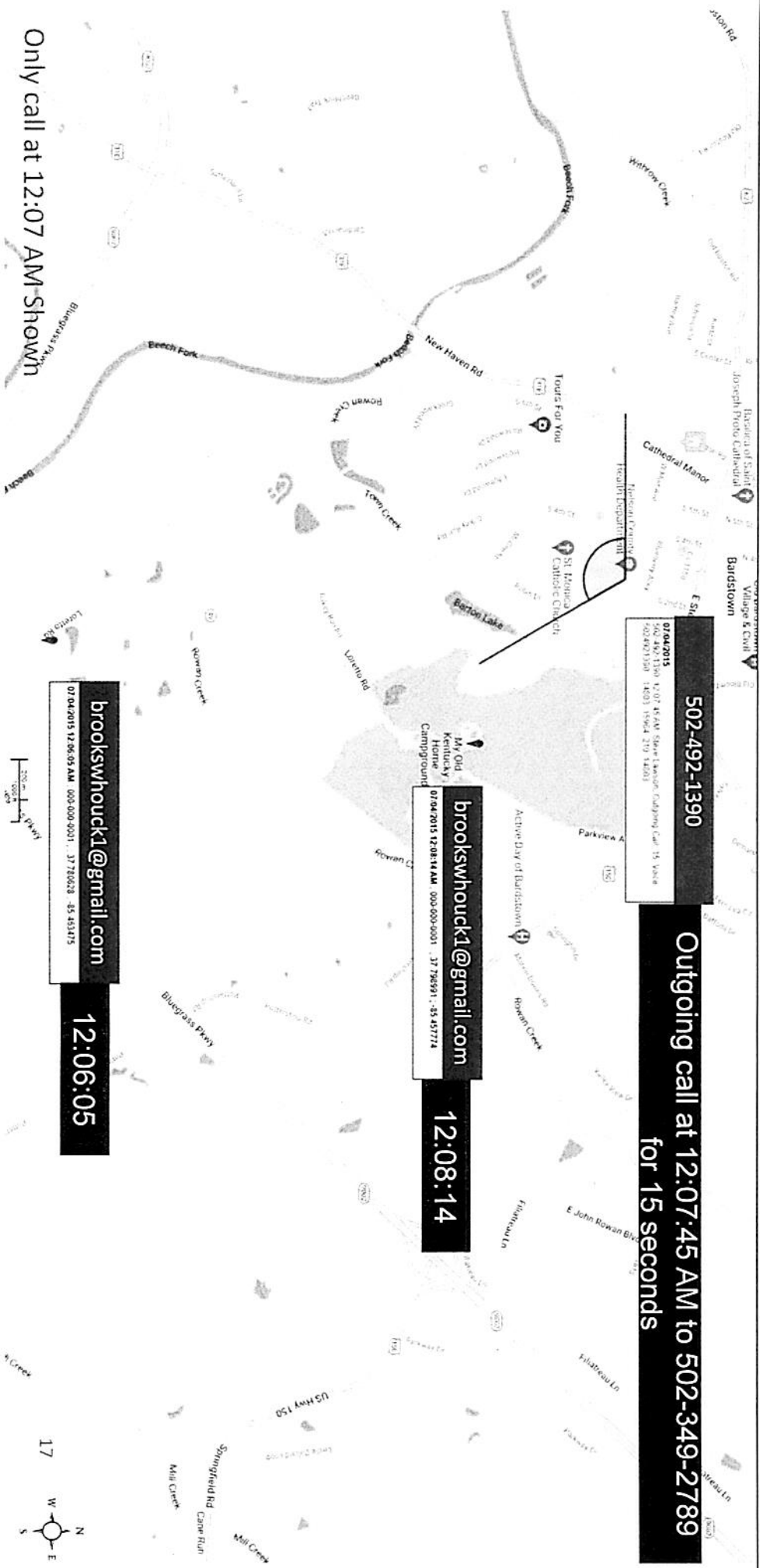
brookswhouck1@gmail.com and 502-492-1390 on July 4, 2015, 12:01 AM ET to 12:03 AM ET





Historical Cell Site Analysis

502-492-1390 and brookswhouck1@gmail.com on July 4, 2015, at 12:06 AM to 12:08 AM ET

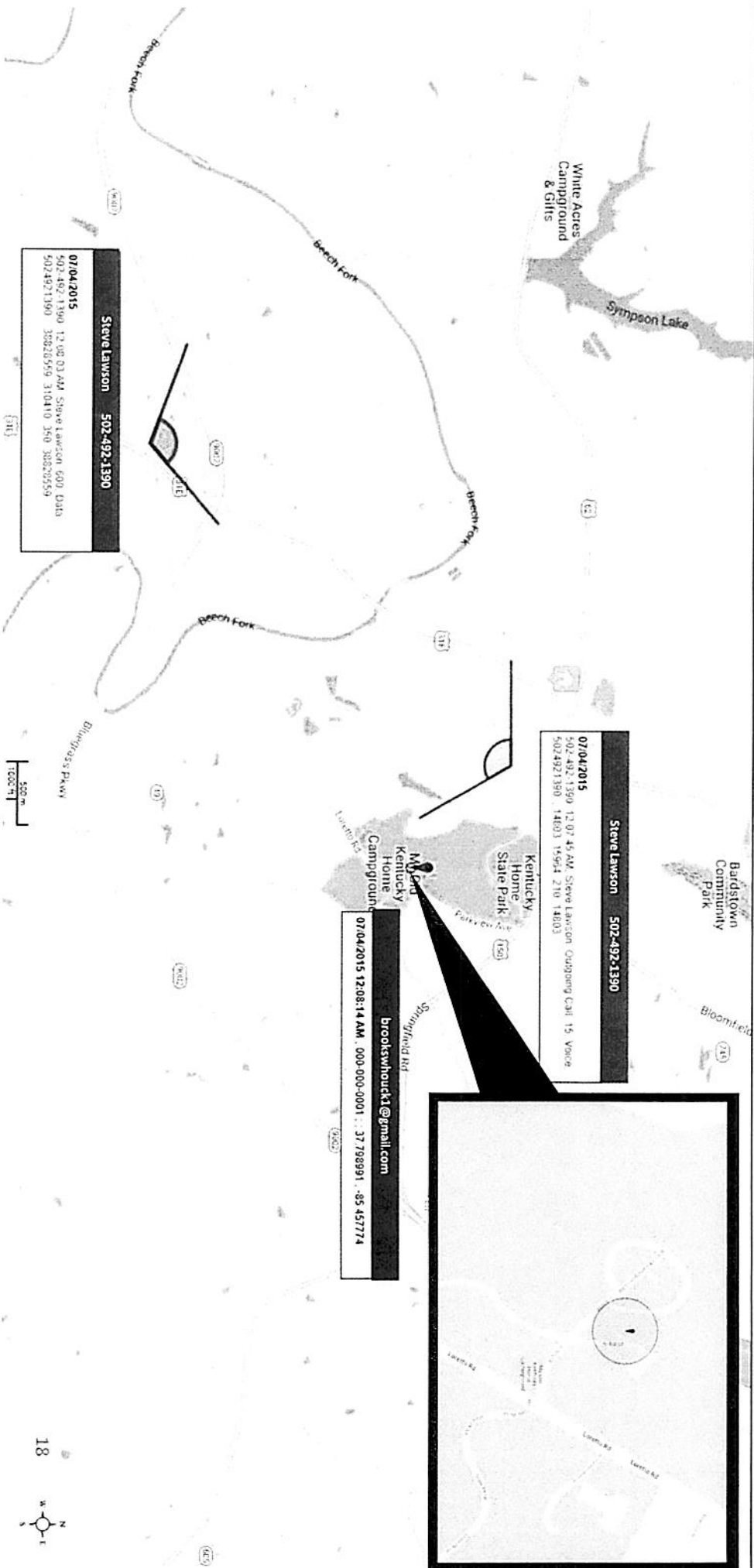


Only call at 12:07 AM Shown



Location History Analysis

brookswhouck1@gmail.com and 502-492-1390 on July 4, 2015, 12:07 AM ET to 12:08 AM ET

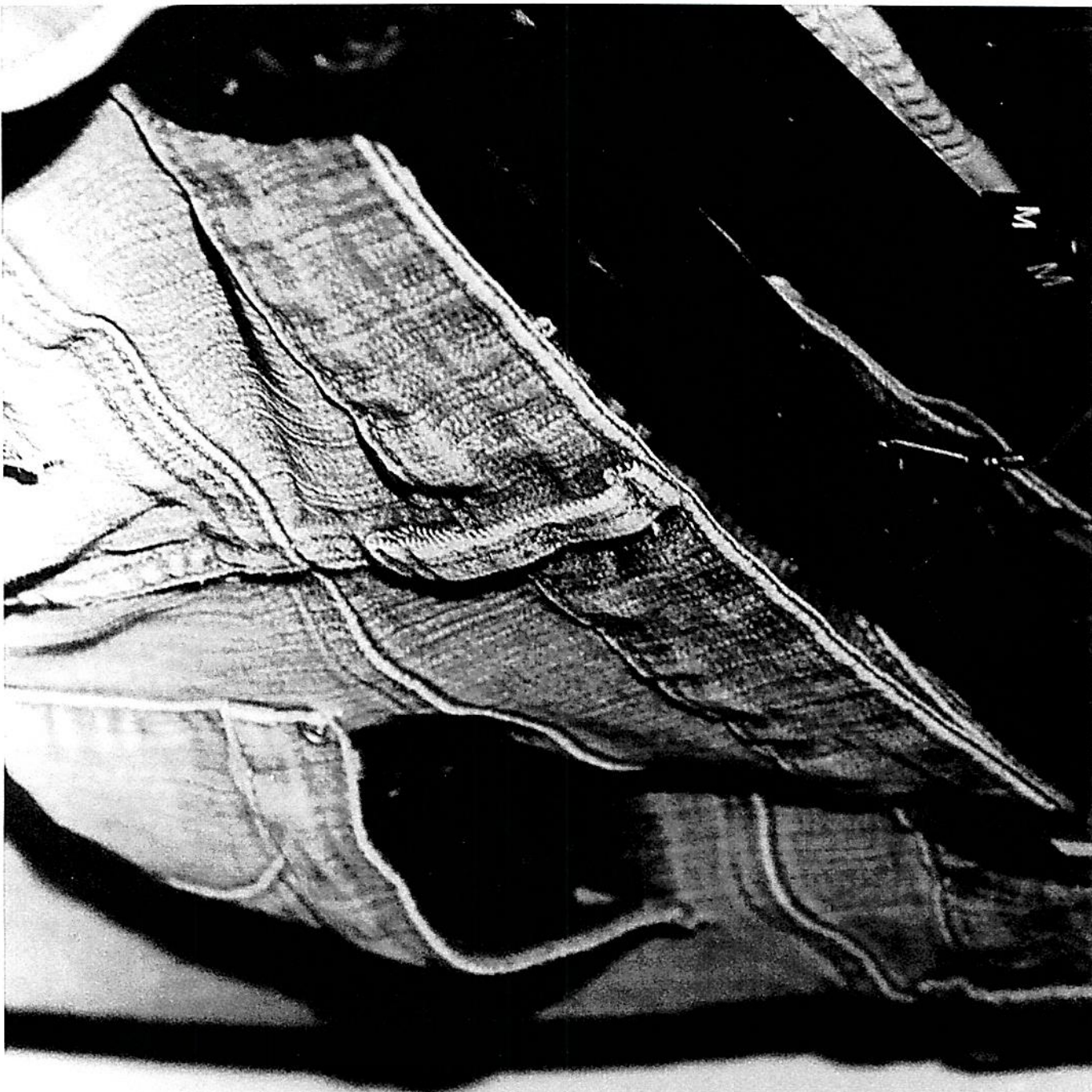




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PLAINTIFF'S
EXHIBIT
48



PLAINTIFF'S
EXHIBIT

49



PLAINTIFF'S
EXHIBIT

50



A.BOWMAN TO N. HOUCK JULY 3RD/4TH UNANSWERED CALLS

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Type	Provider	Item Line Number	Voicemail
7/3/2015	11:43:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3770	VM
7/3/2015	12:20:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3772	VM
7/3/2015	12:20:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3774	VM
7/3/2015	13:11:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3777	VM
7/3/2015	13:37:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3782	VM
7/3/2015	14:01:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3784	VM
7/3/2015	14:46:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3790	VM
7/3/2015	19:42:00	0:00:04	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3820	VM
7/3/2015	19:48:00	0:00:04	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3823	VM
7/3/2015	21:39:00	0:00:05	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3826	VM
7/3/2015	21:39:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3828	VM
7/3/2015	23:41:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3831	VM
7/4/2015	5:05:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3833	VM
7/4/2015	6:46:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3835	VM
7/4/2015	10:49:00	0:00:03	(270) 300-3653	AMBER BOWMAN	Outgoing	(502) 507-4870	NICK HOUCK	Voice	AT&T	3839	VM

PLAINTIFF'S
EXHIBIT

52

CALLS TO TINTING COMPANIES

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Type	Provider
6/26/2015	7:41:20	0:00:51	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	Bluegrass Cellular
6/26/2015	9:12:20	0:00:47	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	Bluegrass Cellular
6/26/2015	9:21:02	0:00:17	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	Bluegrass Cellular
6/26/2015	16:57:31	0:00:24	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	Bluegrass Cellular
6/26/2015	17:18:20	0:00:13	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	Bluegrass Cellular
7/2/2015	9:56:00	0:01:02	(502) 492-1390	STEVE LAWSON	Outgoing	(502) 348-0706	SUN SOLUTIONS TINT CO	Voice	AT&T
7/2/2015	9:59:00	0:00:43	(502) 492-1390	STEVE LAWSON	Outgoing	(502) 349-1623	XTREME CUSTOMIZING	Voice	AT&T
7/2/2015	10:31:00	0:00:12	(502) 492-1390	STEVE LAWSON	Outgoing	(502) 349-1623	XTREME CUSTOMIZING	Voice	AT&T
7/2/2015	10:35:15	0:03:17	(502) 550-1604	TAMMY LAWSON	Outgoing	(502) 349-1623	XTREME CUSTOMIZING	Voice	AT&T

PLAINTIFF'S
EXHIBIT

53

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Content/Subject Line	Type	Provider
5/12/2015	8:51:33	0:00:06	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/12/2015	8:59:43	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/12/2015	9:00:29	0:01:27	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/14/2015	8:52:21	0:00:05	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/15/2015	13:10:45	0:00:54	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/15/2015	16:17:44	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/15/2015	16:31:36	0:00:31	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/16/2015	8:15:34	0:00:45	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/19/2015	12:22:10	0:00:09	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/30/2015	7:43:11	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON	0	Text	Bluegrass Cellular
5/30/2015	9:09:56	0:00:16	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/30/2015	9:22:29	0:00:06	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/30/2015	10:28:01	0:00:05	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/30/2015	15:13:40	0:01:18	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/31/2015	6:44:01	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON	I'm on the way with the Bobcat right now headed to be on my way	Text	Bluegrass Cellular
5/31/2015	6:58:00	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON	Ok. I meet you there	Text	Bluegrass Cellular
5/31/2015	7:08:50	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON	Ok	Text	Bluegrass Cellular
5/31/2015	10:42:35	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/31/2015	10:57:33	0:00:02	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
5/31/2015	14:15:00	0:00:29	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/1/2015	8:24:06	0:00:47	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/2/2015	7:28:48	0:00:37	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/3/2015	12:48:18	0:00:19	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/3/2015	12:55:02	0:01:02	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/4/2015	16:12:37	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/4/2015	16:14:07	0:01:21	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/5/2015	11:03:03	0:00:15	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Content/Subject Line	Type	Provider
6/22/2015	7:28:48	0:00:14	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/22/2015	7:51:36	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/22/2015	8:02:35	0:01:30	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/23/2015	17:03:01	0:00:21	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/23/2015	17:23:13	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/24/2015	8:25:16	0:00:03	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/24/2015	8:58:28	0:00:18	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/24/2015	9:10:57	0:00:31	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 550-1604	TAMMY LAWSON		Voice	Bluegrass Cellular
6/24/2015	9:13:58	0:00:34	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/25/2015	8:41:17	0:00:03	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/25/2015	10:31:26	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/25/2015	11:52:56	0:00:04	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/25/2015	11:54:04	0:00:45	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/28/2015	18:19:50	0:00:20	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
6/29/2015	11:31:52	0:00:36	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
7/2/2015	15:16:04	0:00:55	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
7/4/2015	0:07:30	0:00:13	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular
7/8/2015	18:44:53	0:02:02	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 492-1390	STEVE LAWSON		Voice	Bluegrass Cellular

**PLAINTIFF'S
EXHIBIT**

54

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Type	Provider
7/3/2015	23:06:00	0:00:02	(502) 492-1390	STEVE LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/3/2015	23:07:08	0:00:00	(502) 550-1604	TAMMY LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/3/2015	23:54:00	0:00:02	(502) 492-1390	STEVE LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/3/2015	23:55:10	0:00:03	(502) 550-1604	TAMMY LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/3/2015	23:58:58	0:00:00	(502) 550-1604	TAMMY LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Text	AT&T
7/4/2015	0:01:00	0:00:06	(502) 492-1390	STEVE LAWSON	Outgoing	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/4/2015	0:03:00	0:02:57	(502) 492-1390	STEVE LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/4/2015	0:07:00	0:00:15	(502) 492-1390	STEVE LAWSON	Outgoing	(502) 349-2789	BROOKS HOUCK	Voice	AT&T
7/4/2015	0:43:00	0:01:47	(502) 492-1390	STEVE LAWSON	Incoming	(270) 312-8088	JOSEPH LAWSON	Voice	AT&T
7/4/2015	1:08:00	0:03:42	(502) 492-1390	STEVE LAWSON	Incoming	(502) 550-1604	TAMMY LAWSON	Voice	AT&T

**PLAINTIFF'S
EXHIBIT**

55

B. HOUCK CALL/TEXT

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Content/Subject Line	Type	Provider
7/4/2015	17:37:05	0:00:02	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 331-1398	BROOKE BALLARD		Voice	Bluegrass Cellular
7/4/2015	17:50:10	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 203-2358	DEREK THOMAS	Been here since I with Tyler....gettin stuff done	Text	Bluegrass Cellular
7/4/2015	18:14:46	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 249-9883	KYLIEGH FENWICK	Hey	Text	Bluegrass Cellular
7/4/2015	18:21:08	0:00:02	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3435	KATHY FENWICK		Voice	Bluegrass Cellular
7/4/2015	18:21:44	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3435	KATHY FENWICK		Voice	Bluegrass Cellular
7/4/2015	18:25:19	0:00:03	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 249-9883	KYLIEGH FENWICK		Voice	Bluegrass Cellular
7/4/2015	19:05:08	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 249-9883	KYLIEGH FENWICK	Hello	Text	Bluegrass Cellular
7/4/2015	19:38:57	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 249-9883	KYLIEGH FENWICK	Can I go to Tkeyeh?	Text	Bluegrass Cellular
7/4/2015	19:39:26	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 249-9883	KYLIEGH FENWICK	I'm just gonna go Mamaw going to pick me up tomorrow	Text	Bluegrass Cellular
7/4/2015	20:13:06	0:00:32	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-2594	ROSEMARY HOUCK		Voice	Bluegrass Cellular
7/4/2015	21:16:04	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 203-9514	TORI ROGERS	Hey this Tori are you with mom	Text	Bluegrass Cellular
7/4/2015	21:25:02	0:00:01	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 827-3078	ASHLEY JOHNSON		Voice	Bluegrass Cellular
7/4/2015	21:26:56	0:00:03	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 827-3078	ASHLEY JOHNSON		Voice	Bluegrass Cellular
7/5/2015	6:41:24	0:00:19	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 507-2899	CRYSTAL ROGERS		Voice	Bluegrass Cellular
7/5/2015	9:02:40	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 349-3671	BARBARA LANE	Will you try to get a hold of crystal for me. I tried to call her but no response yet.	Text	Bluegrass Cellular
7/5/2015	9:23:18	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3671	BARBARA LANE	It goes to her voice mail	Text	Bluegrass Cellular
7/5/2015	9:23:35	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3671	BARBARA LANE	I sent her a message yesterday too and she didn't respond	Text	Bluegrass Cellular
7/5/2015	9:25:53	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 349-3671	BARBARA LANE	That is what I get also... thank you though	Text	Bluegrass Cellular
7/5/2015	9:26:18	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 349-3671	BARBARA LANE	What is Sabrina's phone number?	Text	Bluegrass Cellular
7/5/2015	9:28:35	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3671	BARBARA LANE	502-827-1170	Text	Bluegrass Cellular
7/5/2015	9:29:29	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 349-3671	BARBARA LANE	Thank you	Text	Bluegrass Cellular
7/5/2015	9:29:53	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 349-3671	BARBARA LANE	Your welcome	Text	Bluegrass Cellular
7/5/2015	9:31:20	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 827-1170	SABRINA BALLARD	What's up??? It's brooks. ..	Text	Bluegrass Cellular
7/5/2015	10:11:53	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 827-1170	SABRINA BALLARD	Is crystal with you?	Text	Bluegrass Cellular
7/5/2015	10:12:00	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 827-1170	SABRINA BALLARD	No	Text	Bluegrass Cellular
7/5/2015	10:12:00	0:00:00	(502) 349-2789	BROOKS HOUCK	Incoming	(502) 827-1170	SABRINA BALLARD	Haven't seen her	Text	Bluegrass Cellular

**PLAINTIFF'S
EXHIBIT**

56

B. HOUCK TO C. ROGERS JULY 4TH JULY 5TH

Date	Time	Duration	Target	Target Name	Direction	Contact ID(s)	Contact Name(s)	Content/Subject Line	Type	Provider
7/4/2015	9:06:26	0:00:30	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 507-2899	CRYSTAL ROGERS		Voice	Bluegrass Cellular
7/4/2015	12:18:11	0:00:18	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 507-2899	CRYSTAL ROGERS		Voice	Bluegrass Cellular
7/5/2015	6:41:24	0:00:19	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 507-2899	CRYSTAL ROGERS		Voice	Bluegrass Cellular
7/5/2015	16:33:09	0:00:00	(502) 349-2789	BROOKS HOUCK	Outgoing	(502) 507-2899	CRYSTAL ROGERS	Everyone is worried sick... please call me back	Text	Bluegrass Cellular

PLAINTIFF'S
EXHIBIT

57

UNITED
KENNEL CLUB

SCORECARD

REG
#2
Cast No.

Judge

Ryan Cecil

Guide

DAN DONAHUE

Club

NUKCH

UKC License No.

00539

Date

Return Deadline:

3:00 AM

Time Received:

2:20 PM

Dog A

1. REGISTERED ☒ 2. CHAMPION ☐ 3. GRAND ☐

DOG PR Spring Hill Blue Charlie

BREED BLU AGE 2 SEX M UKC # W309,593

OWNER Daniel Donahue

CITY Bardstown STATE Ky

HANDLER Same

HANDLER'S PHONE # (502) 349-2800

Dog B

1. REGISTERED ☒ 2. CHAMPION ☐ 3. GRAND ☐

DOG 'PR' CASSIUS CLAY

BREED WALKER AGE 7 SEX M UKC # W408,686

OWNER RYAN CECIL

CITY Bloomfield STATE KY

HANDLER RYAN CECIL

HANDLER'S PHONE # (502) 507-8869

Dog C

1. REGISTERED ☐ 2. CHAMPION ☐ 3. GRAND ☐

DOG PR Buster 'NITE HARD TIME BOCK

BREED ENG AGE 4 SEX M UKC # W218,863

OWNER Porter HENDRIX

CITY Vine Grove STATE KY

HANDLER Porter HENDRIX

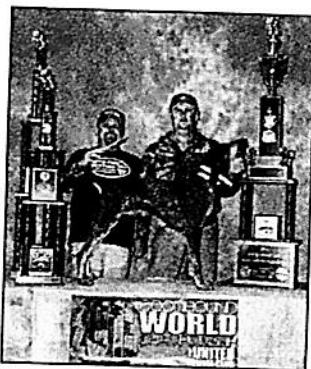
HANDLER'S PHONE # 270 312 7753

Dog D

3 Entry label here.

PLAINTIFF'S
EXHIBIT

58



2013 UKC World Coonhound Championship Winner
 WLDNITECH GR NITE CH 'PR' Main Street John The Baptist, owned
 by Kerry Rooks of Fort Valley, Georgia, handled by Randy Leonard.

Ry C

Judge's Signature

Coon Seen 4

Coon Scored 2

County Hunted Marion

To be completed if handler leaves cast.

+POINTS	-POINTS	SCORE	TOTAL SCORE/SIGNATURE	HUNT TIME USED	SCORES	INITIALS
200+	125-		75+		A. _____ B. _____ C. _____ D. _____	<input type="checkbox"/>
			Dog A Total Score			
			<i>Ry C</i>			
			Handler's Signature			
	50-		-50		A. _____ B. _____ C. _____ D. _____	<input type="checkbox"/>
			Dog B Total Score			
			<i>Ry C</i>			
			Handler's Signature			
200+	50-		150+		A. _____ B. _____ C. _____ D. _____	<input type="checkbox"/>
			Dog C Total Score			
			<i>Pat Healy</i>			
			Handler's Signature			
			Dog D Total Score		A. _____ B. _____ C. _____ D. _____	

SPLIT POINTS

STRIKE:

$$1 + 2 = 87\frac{1}{2}$$

$$1 + 2 + 3 = 75$$

$$1 + 2 + 3 + 4 = 62\frac{1}{2}$$

$$2 + 3 = 62\frac{1}{2}$$

$$2 + 3 + 4 = 50$$

$$3 + 4 = 37\frac{1}{2}$$

TREE:

$$1 + 2 = 100$$

$$1 + 2 + 3 = 83\frac{1}{3}$$

$$1 + 2 + 3 + 4 = 68\frac{1}{4}$$

$$2 + 3 = 62\frac{1}{2}$$

$$2 + 3 + 4 = 50$$

$$3 + 4 = 37\frac{1}{2}$$

This space provided for time-keeping notes.

120
USED

		STRIKE		TREE	
Dog A	CHARLIE	1.	100	125	-
		2.	75+	125	+
		3.			
		4.			
		5.			
		6.			
		7.			
Dog B	CASH	1.	50-		
		2.	100	125	
		3.			
		4.			
		5.			
		6.			
		7.			
Dog C	BUCK	1.	75+	125	+
		2.	50-		
		3.			
		4.			
		5.			
		6.			
		7.			
		1.			
		2.			
		3.			
		4.			



Recorders



1 hr ·

This is Crystal Rogers dad

If anyone knows anyone that has worked for Brooks Houck who drives a white Buick can you please contact team Crystal or me this car could have been involved in Crystal's Disappearance. We will not give your name we just want to bring crystal home . Just remember brooks is the main suspect in her case according to the nelson county sheriffs department. I know someone knows something and seen someone get out of her car and someone pick this person up. Please come forward it could be your family and you would want someone to come forward . We will never stop until Crystal is found and brought home . We love you Crystal .



Love



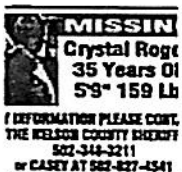
Comment



Share



You, Ashley Johnson and 13 others



Write a comment...

PLAINTIFF'S
EXHIBIT

60



Date
 Sherry Ballard
 4/28/2016 1:10 AM



Location
 This is Crystal Rogers dad

If anyone has anyone that has worked for Brooks
 I think who drives a white Buick can you please



Category
 contact Crystal or me this car could have been
 involved in Crystal's

Disappearance. We will not give your name we just
 want to bring crystal home. Just remember brooks is
 the main suspect in her case according to the nelson
 county sheriffs department. I know someone knows



Tags
 No tags



Details

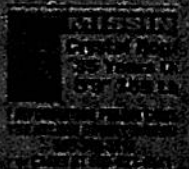
could be your family and you would want someone to
 come forward. We will never stop until Crystal is
 found and brought home. We love you Crystal.

Size : 370 KB

Resolution : 1080x1920

Path : /storage/emulated/0/Pictures/Screenshots/
 Screenshot_2016-04-28-01-10-50.png

You, Ashley Johnson and 13 others



Write a comment...

Post

TOWN & COUNTRY FORD, INC.

6015 S. PRESTON HIGHWAY
LOUISVILLE, KY 40219 ("Seller")

PHONE (502) 964-8131

VEHICLE AGREEMENT

SALESPERSON(S) CARLOS BALLENTINE		DATE MAY 2ND 2016	
BUYER(S) ANN WHITESIDES		PHONE (502) 331-9705	
ADDRESS 730 PULLIAM AVE	CITY BARDSTOWN	STATE KY	ZIP CODE 40004

Buyer and Seller hereby agree that Buyer shall purchase or lease from Seller the following described vehicle, on the terms listed below:

YEAR 2012	MAKE MAZDA	TYPE 3	MILEAGE 64942	COLOR WHITE
VIN JM1BL1V84C1590030		STOCK # H1106		STATUS NEW <input type="checkbox"/> USED <input checked="" type="checkbox"/> DEMO <input type="checkbox"/>

- DISCLAIMER OF WARRANTIES -

Regarding the motor vehicle purchased hereunder by Buyer from Seller, Buyer acknowledges that Seller has made no warranties, express or implied in connection with this vehicle. If this vehicle is a new vehicle, then the only express warranties are those made by the manufacturer. If this vehicle is a used vehicle, it is sold "as is" without any warranty, express or implied and the Buyer will bear the entire expense of repairing or correcting any defect that presently exists or that may occur in this vehicle. Any extended service contract purchased on said vehicle is between the Buyer and the extended service contract company, and does not create any warranty or contractual relationship between the Buyer and Seller.

SELLER EXPRESSLY DISCLAIMS ALL WARRANTIES EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER NEITHER ASSUMES, NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT, ANY LIABILITY IN CONNECTION WITH THIS SALE.

I have read and received a copy of this Vehicle Agreement, and (if applicable) the Buyer's Guide, and I understand their content fully.

x Anna M. Whitesides

SELLING PRICE INCLUDES

SELLING PRICE INCLUDES NOTHING DUE OR PROMISED

Anna M. Whitesides

...NOTHING PROMISED OR DUE...VEHICLE SOLD AS IS.

...NO WARRANTY WRITTEN OR IMPLIED.....

Anna M. Whitesides

I GUARANTEE MY 2000 BUICK LESABRE

TO BE FREE AND CLEAR OF ALL LIENS.

Anna M. Whitesides

Trade-In Information

Make BUICK Model LESABRE
Year 2000 Mileage 79321
VIN 1G4HP54K8Y4187480 Lic. # _____

Payoff Owed To _____

Trade Allowance 3,000.00 - Payoff _____ = NET TRADE ALLOWANCE

SELLING PRICE	11,275.50
OPTIONAL CRT BENEFITS PACKAGE	N/A
STATE TAXES / LIC.	508.50 & 95.00
DOC FEE	599.00
TOTAL PRICE	1. 12,478.00
CASH DOWN PAYMENT	2. N/A
CASH ON DELIVERY	4. N/A
TOTAL DOWN PAYMENT 2+3+4	5. 3,000.00
BALANCE DUE	9,478.00

ADDITIONAL TERMS

Filling \$20.00

A) With regard to the vehicle traded by the buyer: For and in consideration of the sum of \$ 3,000.00 (which has this day been credited to Buyer's account by seller), and for other valuable consideration, the receipt of which is hereby acknowledged, Buyer does hereby bargain, sell, and deliver unto Seller one 2000 BUICK automobile, Model LESABRE, Motor Number (VIN) 1G4HP54K8Y4187480. Buyer warrants that title to said automobile is in Buyer, that said title is free from all encumbrances and debts except \$ N/A due

_____, which amount Seller hereby assumes. Buyer further warrants that Buyer has good right to sell and deliver said automobile, and that if the actual loan payoff on this trade-in vehicle is greater than the amount stated herein by Buyer, or if there are any other debts or encumbrances attaching to Buyer's trade-in vehicle not herein disclosed by Buyer, that Buyer will immediately reimburse Seller for any and all said additional sums paid by Seller to clear title to Buyer's trade in vehicle.

OVER ALLOWANCE ON TRADE-IN: Seller may have allowed Buyer a trade-in credit in excess of the actual cash value (ACV) of the vehicle traded in on this transaction. This is a method of discounting the purchase price. If this transaction is rescinded, and the trade-in vehicle cannot be returned to the Buyer, Seller shall refund to Buyer the amount equal to the ACV of the vehicle as determined by the Seller at the time of this sale.

B) DELIVERY AND SALE OF THE SUBJECT VEHICLE TO BUYER ARE SOLELY ON A CASH BASIS. Buyer acknowledges that neither this a efforts by Seller to assist the Buyer, in securing financing for the purchase price, constitute either an extension of credit or an agreement to extend credit or no warranty or representation as to Buyer's creditworthiness or ability to secure financing, nor does Seller warrant that it will secure financing for the or in any way contingent upon Buyer's securing financing for this purchase.

C) With regard to the vehicle purchased hereunder by Buyer from Seller:

- 1) This VEHICLE AGREEMENT constitutes the entire agreement between the parties and cannot be changed by an oral promise or represent in writing and signed or initialed by both parties. Buyer(s) hereby certify that he (she/they) is (are) over the age of 18 years, and that he agrees to the above terms, executed on the date written above.

BUYER ACKNOWLEDGES THAT NO ORAL PROMISES OR REPRESENTATIONS HAVE BEEN MADE PRIOR TO THE EXECUTION NOT BEEN INCORPORATED HEREIN IN WRITING TIME IS OF THE ESSENCE IN THIS AGREEMENT.

PLAINTIFF'S
EXHIBIT

cel

355
and
IVE

Kentucky
UNBRIDLED SPIRIT

DRIVER'S LICENSE

Ad Lic. No. S92-424-446
4b Exp. 02-10-2020
DOB 01-10-1933

WHITESIDES
ANN
730 PHILLIAM AVE
BARDSTOWN, KY 40004

NELSON COUNTY

REG. FEE 6-05

12 Restrictions NONE
5 DP 4236043079302080 REN. EXP. DATE NONE

DL



25178

State Farm Mutual
Automobile Ins. Co.

25143

State Farm Fire
and Casualty Co.

INSURED WHITESIDES, ANNA

MULTI
VOL

POLICY NUMBER 233 9725-C10-17

PERSONAL POLICY

EFFECTIVE

YR 2000 MAKE BUICK

MAR 10 2016 TO SEP 10 2016

MODEL LESABRE

VIN 1G4HP54K8Y4187480

AGENT JIM HAGAN

PHONE (502)348-2879

NAIC 25178

1844-69E

A BODILY INJURY/PROPERTY DAMAGE LIABILITY

P10 PERSONAL INJURY PROTECTION

D 500 DEDUCT COMPREHENSIVE

G 500 DEDUCT COLLISION

H, R1, U, W

SEE REVERSE SIDE FOR ADDITIONAL COVERAGE INFORMATION

73-813-839

1770

Anna Marie Whitesides
730 Pulliam
Bardstown, KY 40004
Ph. 502-331-9705

H1104

Date 5-2-2016

Pay to the Order of Joan & Country Ford \$ 8,000.00

Eight Thousand

Dollars



Security Features
Include Details on Back

"And the heavens shall praise thy wonders, O Lord..."

Psalms 89:6

KENTUCKY HOME BANK
BARDSTOWN, KY 40004

For Cash

Anna M. Whitesides

⑆083908132⑆1770⑆~~20160502~~

73-813-839

1935

Anna Marie Whitesides
730 Pulliam
Bardstown, KY 40004
Ph. 502-331-9705

H1104

Date 5-2-2016

Pay to the Order of Joan & Country Ford \$ 1,500.00

One Thousand Five Hundred Dollars

Dollars



Security Features
Include Details on Back

"I will lift up mine eyes unto the hills, from whence cometh my help..."

Psalms 121:1

KENTUCKY HOME BANK
BARDSTOWN, KY 40004

For

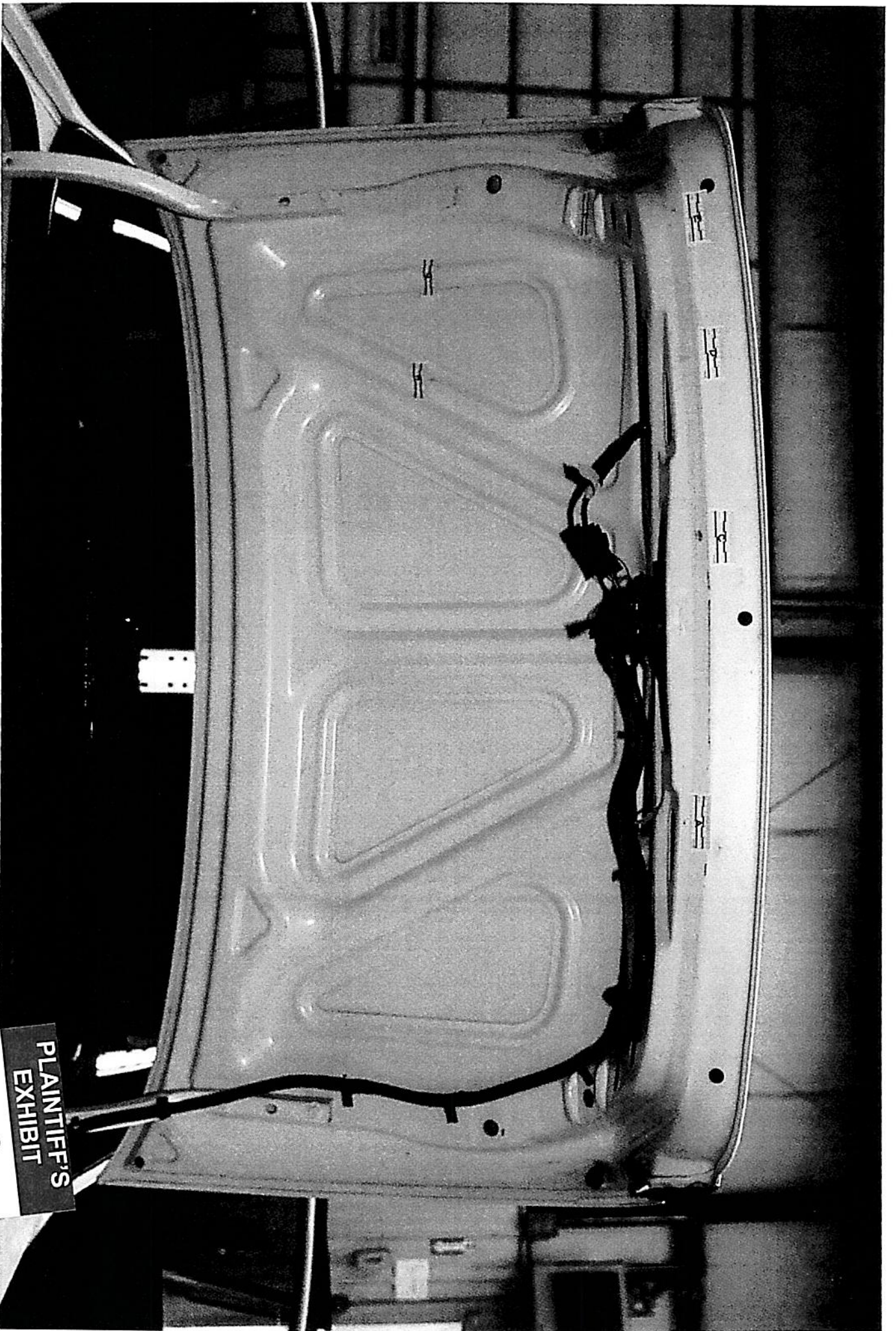
Anna M. Whitesides

⑆083908132⑆1935⑆204 216 9⑆

PLAINTIFF'S
EXHIBIT

602

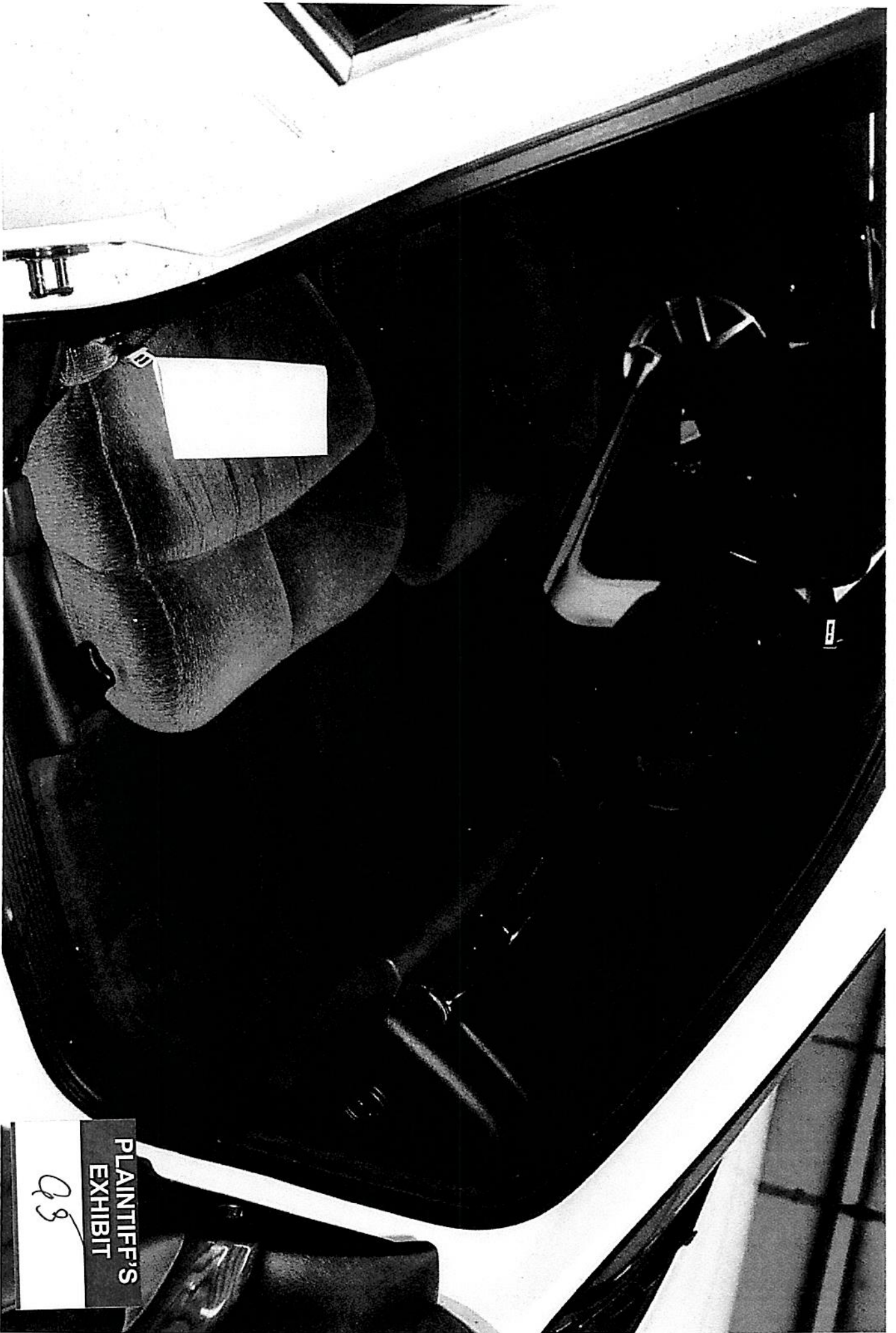




PLAINTIFF'S
EXHIBIT

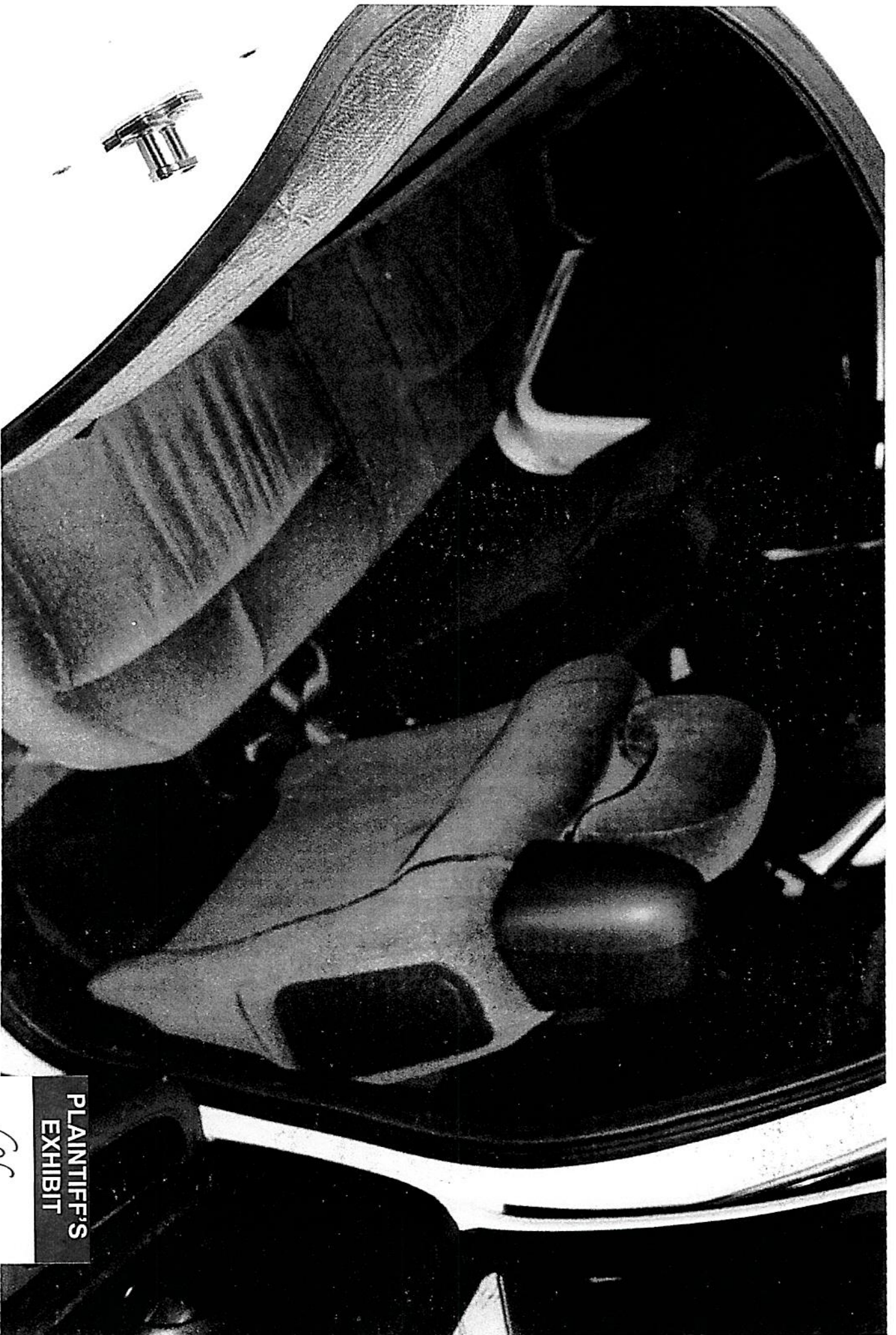
Q3

11
C4
PLAINTIFF'S
EXHIBIT



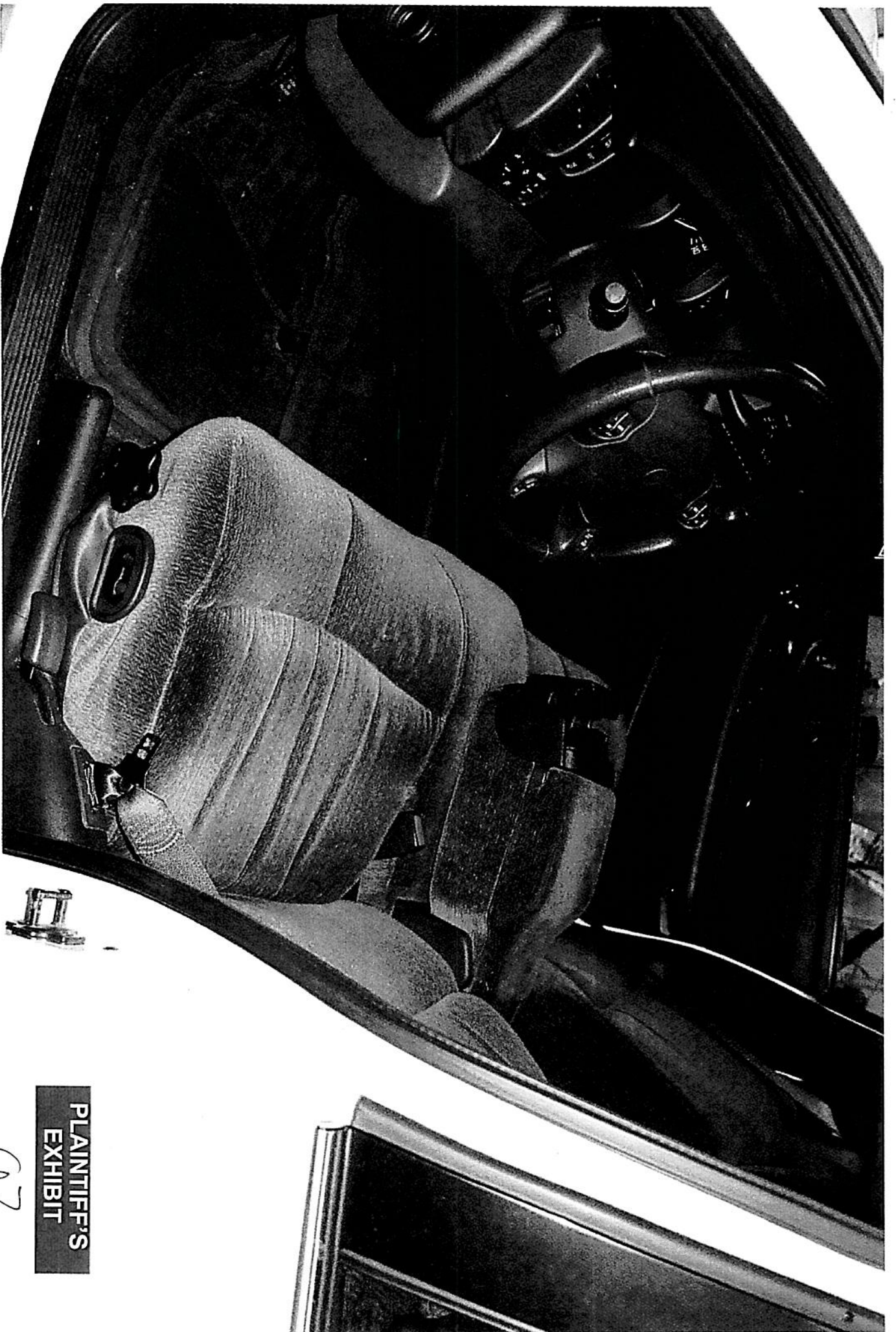
PLAINTIFF'S
EXHIBIT

Q3



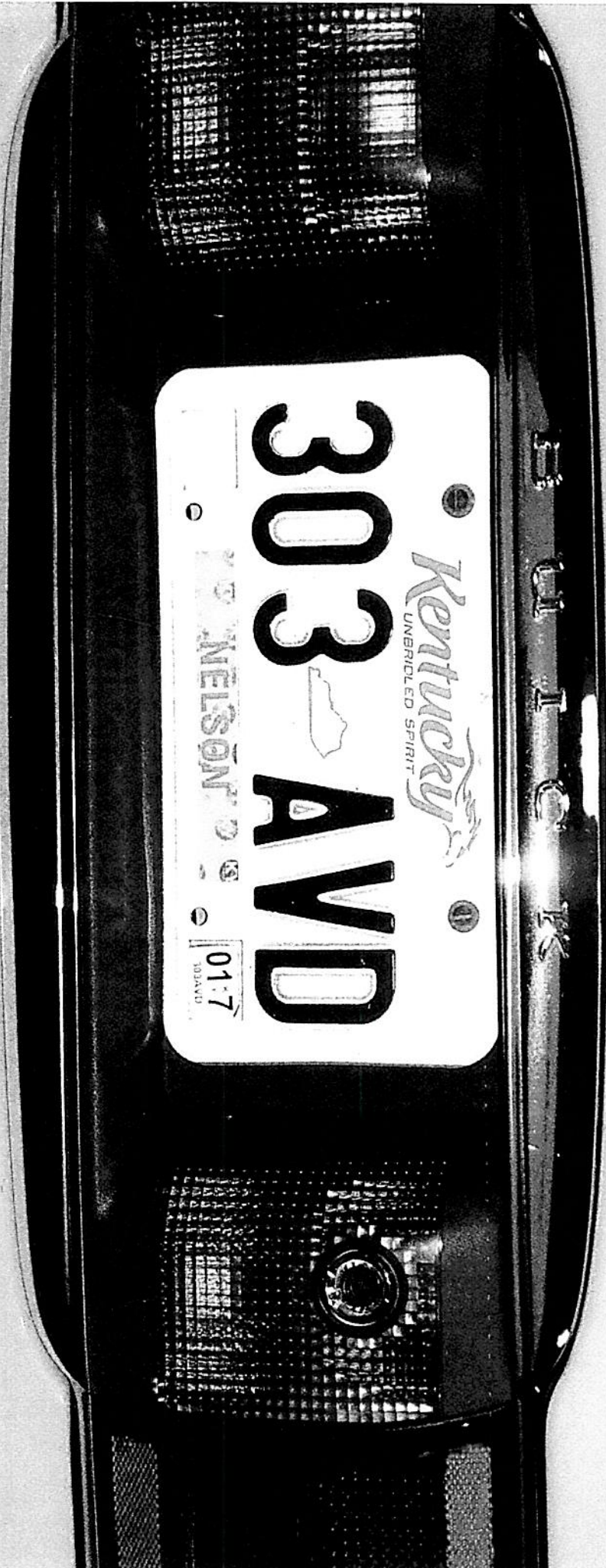
PLAINTIFF'S
EXHIBIT

CC



PLAINTIFF'S
EXHIBIT

Q7



PLAINTIFF'S
EXHIBIT

68



Central Laboratory Branch

100 Sower Blvd. Suite 102
Frankfort, KY 40601
Telephone #: (502) 564-5230
Fax #: (502) 564-4821

LABORATORY#:
AGENCY:
COUNTY:
AGENCY CASE#:
CASE OFFICER:
RE:

15-C-04142 REPORT#: 10
Nelson County Sheriff's Office
Nelson
N1507-158
J. Snow
Crystal M. Rogers - [V]
Brooks W. Houck - [S]
Nick Houck - [S]

REPORT OF FORENSIC LABORATORY EXAMINATION

MATERIAL SUBMITTED:

Item 2.	DI# 1.	Hair brush from Crystal Rogers
Item 12.1.		Tapelifts from front driver seat of Crystal Rogers' vehicle
Item 12.2.		Tapelifts from front driver floor of Crystal Rogers' vehicle
Item 23.	DI# 2716.	Hairs from driver's seat of Crystal Rogers' vehicle
Item 26.	DI# L3.	Tapelifts from the left side in the trunk of white Buick
Item 55.	DI# 67.	Head hair standard from Ashley Johnson
Item 56.	DI# 68.	Head hair standard from Thomas Rogers
Item 57.	DI# 69.	Head hair standard from Kyliegh Fenwick
Item 58.	DI# 70.	Head hair standard from Victoria Rogers
Item 59.	DI# 98.	Head hair standard from Nick Houck
Item 60.	DI# 99.	Head hair standard from Amber Bowman
Item 61.	DI# 102.	Head hair standard from Brooks Houck
Item 62.	DI# 103.	Head hair standard from Rosemary Houck
Item 63.	DI# 105.	Head hair standard from Anna Whitesides
Item 65.	DI# 3025.	Material collected from bucket of tractor

EXAMINATION REQUESTED:

Hair Comparisons

RESULTS AND CONCLUSIONS:

Items 57, 58, 60, and 61 were insufficient in number for use as head hair standards.

Items 62 and 55 were unsuitable for use as head hair standards due to artificial treatment since the offense date.

Thirteen (13) head hairs with Caucasian characteristics found on Item 12.1 were different from the head hair standard in Item 59.¹ One (1) of these hairs, which was also different from the head hair standards in Items 2 and 56², is suitable for nuclear-DNA analysis. Hairs unsuitable for microscopic comparison³ and animal hairs were found on Item 12.1.

Thirty-eight (38) head hairs with Caucasian characteristics found on Item 12.2 were different from the head hair standard in Item 59.¹ One (1) of these hairs, which was also different from the head hair standard in Items 2 and 56², is suitable for nuclear-DNA analysis. One (1) head hair with undetermined racial characteristics found on Item 12.2 was different from the head hair standard in Item 59.¹ Hairs unsuitable for microscopic comparison³ and animal hairs were found on Item 12.2.

JACK REID

**PLAINTIFF'S
EXHIBIT**

Two (2) head hairs with Caucasian characteristics found in Item 23 were different from the head hair standard in Item 59.¹

The head hair with Caucasian characteristics in Item 26, previously microscopically compared with the head hair standard collected from Item 2 and determined to be similar in color and limited microscopic characteristics, was different from the head hair standard in Item 63.⁴

No hairs were found in Item 65.

¹This means that no association could be made between the unknown hair(s) and the head hair standard collected from Nick Houck.

²This means that no association could be made between the unknown hair and the head hair standards collected from Thomas Rogers and the hair brush from Crystal Rogers.

³Hairs may be deemed unsuitable for microscopic comparison due to body-part origin, condition, sample size, or a lack of unique microscopic characteristics.

⁴This means that no association could be made between the unknown hair and the head hair standard collected from Anna Whitesides.

Date of Completion: September 20, 2016



Jack Reid
Forensic Laboratory Supervisor

Unless otherwise noted in the report, this evidence is available for release.

JACK REID



**PLAINTIFF'S
EXHIBIT**

70

5:CAM 5

16/05/02 11:02:57



5/2/2016 11:03:18 AM

MOTION

11 FPS



16 CAM 16

16/05/02 11:15:46



5/2/2016 11:15:46 AM

3.8 FPS



1:CAM 1

16/05/02 11:20:17



5/2/2016 11:20:17 AM

MOTION

3.8 FPS



1:CAM 1

16/05/02 11:20:17



5/2/2016 11:20:17 AM

MOTION

3.9 FPS



Federal Bureau of Investigation
Digital Forensics Analysis Section

Operational Technology
ERF Building 27958A
Quantico, Virginia 22135

TECHNICAL ASSISTANCE REPORT

To: Louisville
Attn: Brandi Nichole Fowler

Date: March 02, 2023

Case ID: 306-LS-3193863
268-HQ-1305912-EE

Lab No.: HQQ211027002

Reference: Service Request dated October 15, 2021

Ref. No.: Serial 718

Title: BROOKS HOUCK, NICK HOUCK-SUBJECTS;
JASON ELLIS, CRYSTAL ROGERS, TOMMY
BALLARD-VICTIMS;
SERIAL KILLINGS;
BARDSTOWN, KY

Date specimen received: October 27, 2021

Specimens:

HQQ028226 Olympus VN-7200 Digital Recorder.

HQQ028227 Olympus VN-7200 Digital Recorder.

HQQ028228 Olympus VN-7200 Digital Recorder.

Summary:

The Electronic Device Analysis Unit (EDAU) was requested to process the submitted evidence.

Details:

All submitted evidence items were labeled and photographed. Additionally, the following procedures were performed.

An image was created of the flash memory of specimens HQQ028226- HQQ028228 with the following information:

1. Filename: HQQ028226_Image.bin:
MD5: 341B89EB3CF5C623007AEE811D76282A
2. Filename HQQ028226_Image.bin:
MD5: C0E498EBC860C857B768836BCEC41715
3. Filename: HQQ028228_Image.bin:
MD5: 1C25CB6B7DB52557B13B3B67BADEF327

No analysis was performed on extracted data. The binary image was sent to CART examiner Melody Buba using the following OPWAN folder:

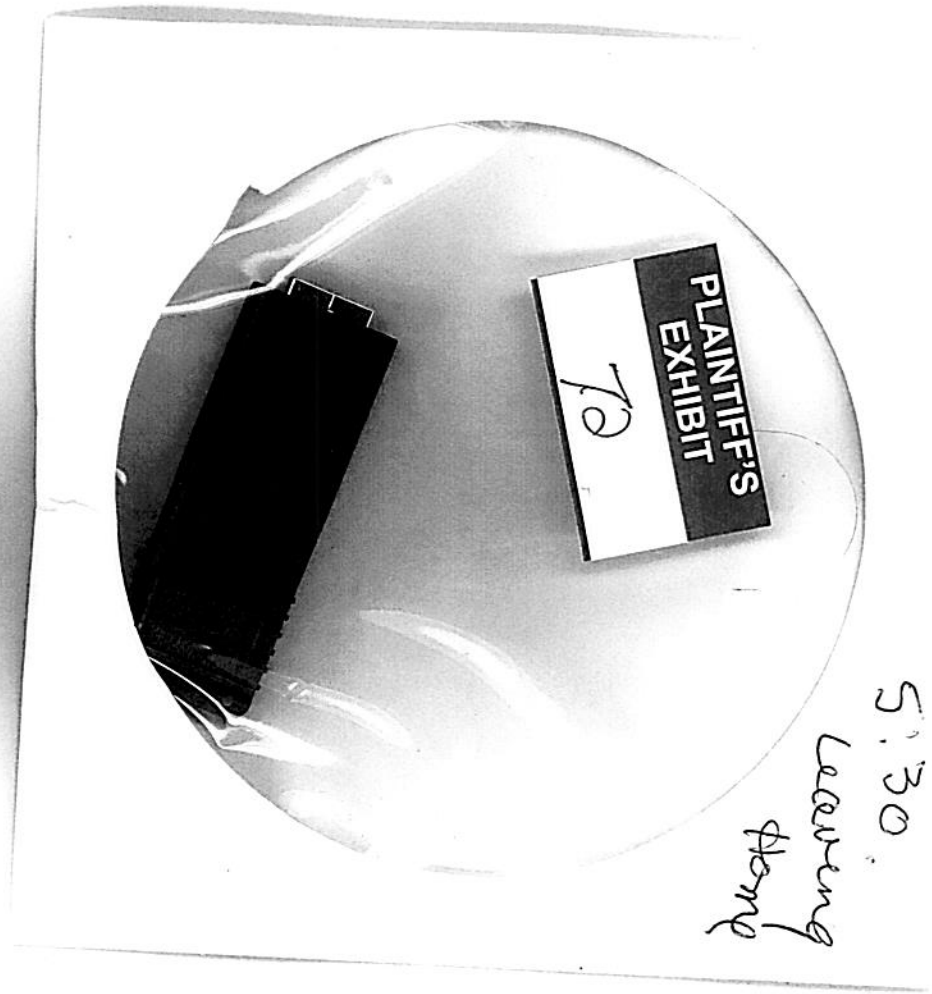
\\QT-F05\Cases09\HQQ211027002\Source.

All submitted evidence is being returned to the contributing field office via Operational Technology Division (OTD) Evidence Control. At this time, EDAU considers this examination complete. The case notes and other supporting documents are being retained within the OTD case file.

Name: _____

Jeremy Hinton

Operational Technology Division
Electronic Device Analysis Unit



5:30
leaving
them

Vehicle at Farm

7/4
early
morning





Commonwealth's
EXHIBIT

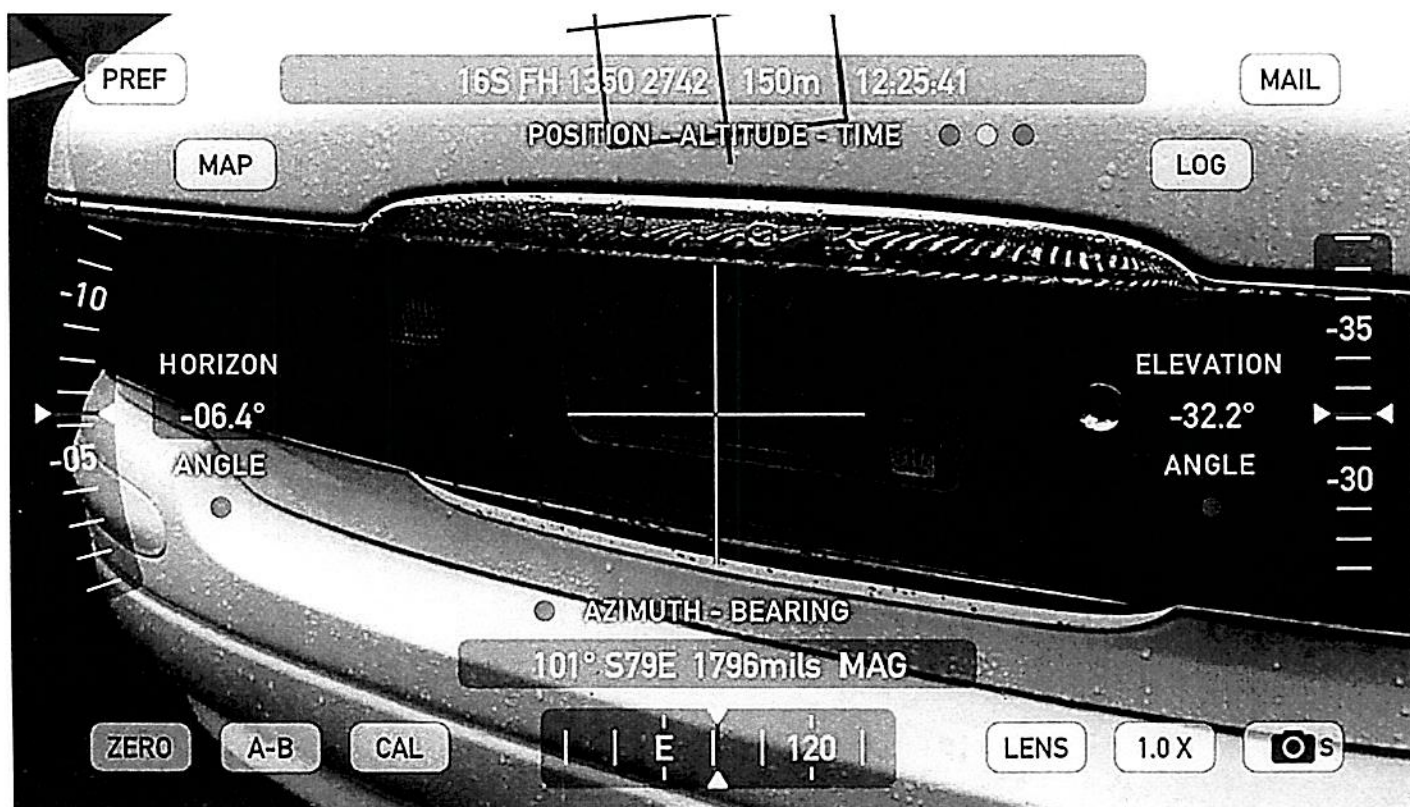
74

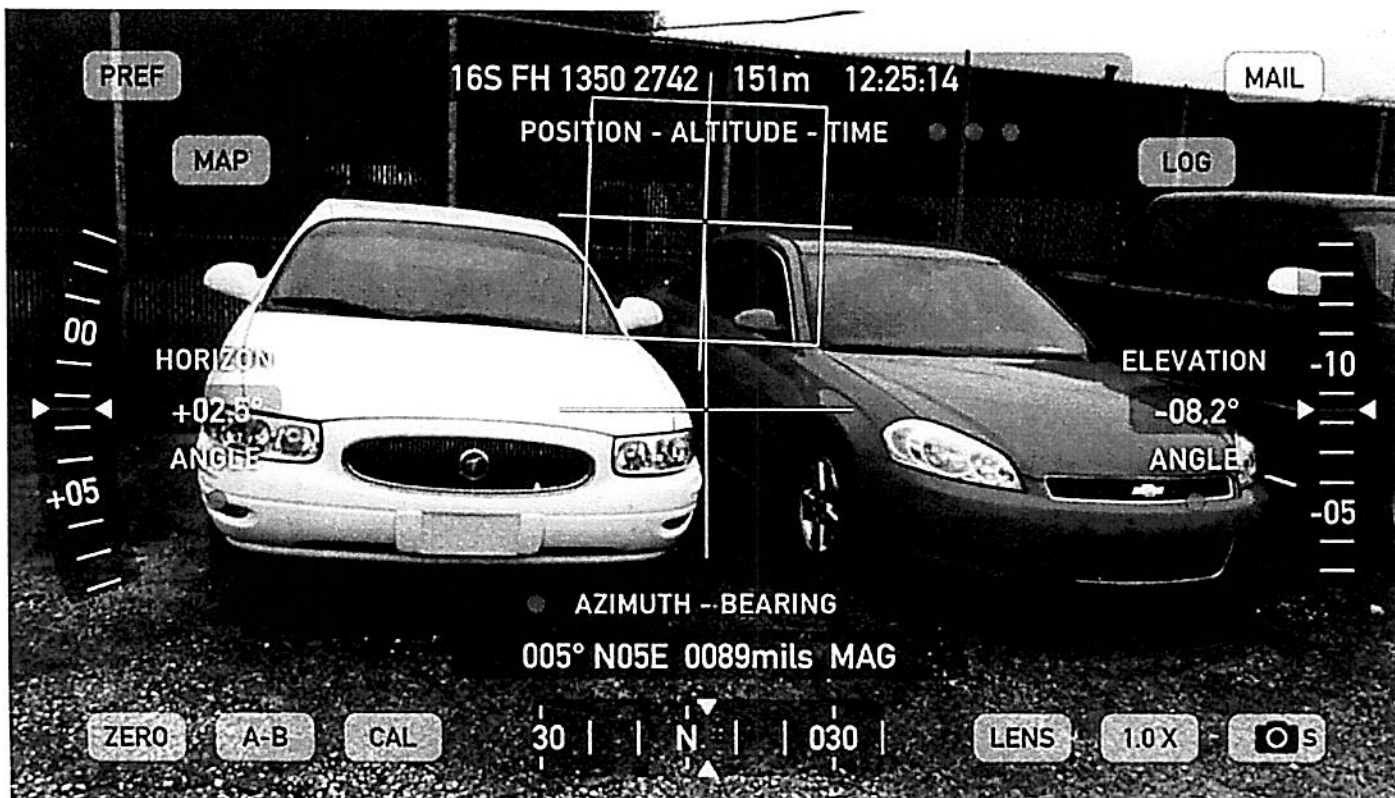


Commonwealth's
EXHIBIT

75







Smarter Forensics

Crystal Rogers

Forensic Report

Joshua Hickman & Heather Barnhart
11-1-2024

Commonwealth's
EXHIBIT

79

Authors: Joshua Hickman
Heather Barnhart

Overview:

Smarter Forensics was approached by the Commonwealth of Kentucky to review evidence as part of an investigation into the matter involving Crystal Rogers ("Rogers"). Specifically, a review of the evidence collected from the mobile phones belonging to Rogers and Brooks Houck ("Houck") was requested for the dates 2015-07-03 until 2015-07-05.

Device 1:

Make:	Samsung
Model:	Galaxy S4
Model Number:	SCH-i545L
IMSI:	311480011153344
Android Version:	4.4.2 (KitKat)
Owner:	Crystal Rogers (as noted by law enforcement)

Device 2:

Make:	Samsung
Model:	Galaxy S4
Model Number:	SCH-i545L
IMSI:	311480011159234
Android Version:	4.4.2 (KitKat)
Owner:	Brooks Houck (as noted by law enforcement)

Based on a review of the evidence received, the following is notable:

1. On 2015-07-04 at approximately 00:55:07 (UTC +0000) a weather app on Device 1 placed it at the coordinates 37.7057209, -85.466584.
2. Device 1 powered down on 2015-07-04 at approximately 01:23:10 (UTC +0000) due to a drained battery.
3. Device 1 started its boot process at approximately 03:57:09 (UTC +0000) on 2015-07-04.
4. The app RetailMeNot recorded a set of coordinates for Device 1 at approximately 03:57:14 (UTC +0000) for Device 1. The coordinates were 37.790230, -85.443299 with what is believed to be a horizontal accuracy of approximately 3,700 meters.
5. Device 1 completed its boot process at approximately 03:57:25 (UTC +0000) on 2015-07-04.
6. Device 1 was manually shut down at 03:57:39 (UTC +0000) on 2015-07-04
7. Limited location and recovered data was available on Device 2.
8. No gaming activity was identified on Device 2.

Device 1

Device 1 is described as follows:

Make:	Samsung
Model:	Galaxy S4
Model Number:	SCH-i545L
IMSI:	311480011153344
Android Version:	4.4.2 (KitKat)
Owner:	Crystal Rogers (as noted by law enforcement)

Smarter Forensics was provided with a Cellebrite UFDR file for Device 1. It is described as follows:

Name: Samsung CDMA_SCH-i545L Galaxy S4_2018-11-30_Report.ufdr
SHA256: 9896BCB471C835538B846AE357C5AF04774516C3FE151F8BE229B2B388FEC6F4

On 2015-07-03 at 23:39:31 (UTC +0000) the app "Cookie Jam" was used on Device 1 (source file: *ContextLog_0.db*). Based on open source information, Cookie Jam is a game for the Android operating system platform (see <https://play.google.com/store/apps/details?id=air.com.sgn.cookiejam.gp>). This activity stopped at 23:41:20 (UTC +0000). Immediately afterwards, the Recents screen was opened at 23:41:21 and closed at 23:41:23. This was followed by the Facebook app being used at 23:48:28 (approximately 176 milliseconds), and resumption of the app Cookie Jam at 23:52:27 (UTC +0000). At 23:52:51 (UTC +0000) Device 1 sent a Facebook message "Ok sounds good" and usage of Cookie Jam resumed intermittently until 2015-07-04 at 00:06:10 (UTC +0000).

At 00:06:11 (UTC +0000) the Recents screen was opened for approximately one (1) second on Device 1 (source file: *ContextLog_0.db*). At 00:06:14 (UTC +0000) the app Sugar Smash: Book of Life was used. Based on open source information, Sugar Smash: Book of Life is a game for the Android operating system platform (see <https://play.google.com/store/apps/details?id=air.com.sgn.bookoflife.gp>). The app was used until 00:21:59 (UTC +0000), and it was used again from 00:55:02 until approximately 01:23:15 (UTC +0000). During this period, the Samsung Weather app on Device 1 logged the coordinates for the device as

37.7057209, -85.466584 (source file: *WeatherClock* – table: MY_WEATHER_INFO, database file with no file extension) at 00:55:07 (UTC +0000) on 2015-07-04.

On 2015-07-04 at approximately 01:23:10 (UTC +0000) Device 1 powered down due to a dead battery (source file: *power_off_reset_reason.txt*). See Figure 1.

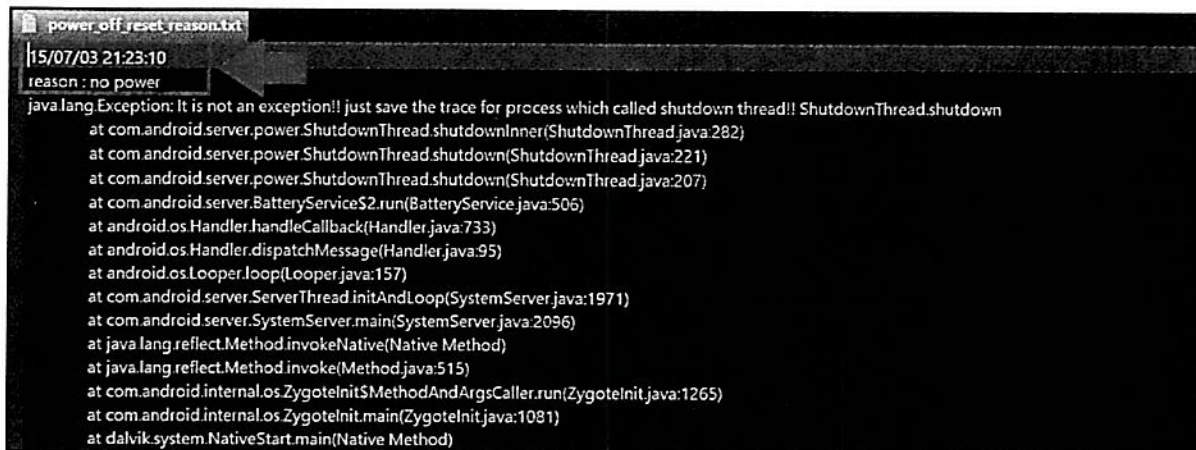


Figure 1 – “no power” in *power_off_reset_reason.txt* from Device 1.

During the analysis of Device 1, an exemplar device was used to test the entries in *power_off_reset_reason.txt* on Device 1. The exemplar device is described as follows:

Make:	Samsung
Model:	Galaxy S4 Mini
Model Number:	SPH-L520
IMSI:	310120026081114
Android Version:	4.4.2 (KitKat)

During testing it was determined the timestamps seen in *power_off_reset_reason.txt* are stored in local time (i.e., the UTC time with the offset applied based on the location of the phone). Analysis of the file *persist.sys.timezone* determined that Device 1 was set to America/New York (UTC -0500). Daylight Savings Time (DST) was in effect during the period in question, which means the timestamps in *power_off_reset_reason.txt* were recorded in UTC -0400.

Testing found the entry “reason : no power” confirmed that the entry represented the device shutting down due to insufficient power to continue operation (i.e., a dead battery). Below is an example from the exemplar device.

```

EXEMPLAR_power_off_reset_reason.txt
23/08/01 23:59:26
reason: no power
java.lang.Exception: It is not an exception!! just save the trace for process which called shutdown thread!! ShutdownThread.shutdown
    at com.android.server.power.ShutdownThread.shutdownInner(ShutdownThread.java:289)
    at com.android.server.power.ShutdownThread.shutdown(ShutdownThread.java:228)
    at com.android.server.power.ShutdownThread.shutdown(ShutdownThread.java:214)
    at com.android.server.BatteryService$2.run(BatteryService.java:573)
    at android.os.Handler.handleCallback(Handler.java:733)
    at android.os.Handler.dispatchMessage(Handler.java:95)
    at android.os.Looper.loop(Looper.java:146)
    at com.android.server.ServerThread.initAndLoop(SystemServer.java:2102)
    at com.android.server.SystemServer.main(SystemServer.java:2224)
    at java.lang.reflect.Method.invokeNative(Native Method)
    at java.lang.reflect.Method.invoke(Method.java:515)
    at com.android.internal.os.ZygoteInit$MethodAndArgsCaller.run(ZygoteInit.java:1283)
    at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:1099)
    at dalvik.system.NativeStart.main(Native Method)
  
```

Figure 2 - "no power" in power_off_reset_reason.txt from exemplar device.

To further confirm a shutdown of Device 1, Sugar Smash: Book of Life usage was stopped at 01:23:15 (UTC +0000), which was previously mentioned.

On 2015-07-04 beginning at 03:57:09 (UTC +0000) Device 1 began a boot sequence (powering on). At 03:57:09 (UTC +0000) the Messaging app was in use on Device 1 (source file: *ContextLog_0.db*). Approximately five (5) seconds later, the app RetailMeNot recorded a set of coordinates for Device 1 in the file *ua_analytics.db* (path: *USERDATA/data/com.whaleshark.retailmenot/databases*). The file is believed to be an analytic component of Urban Airship (now simply known as "Airship"), which is a company that offers marketing, messaging, and analytic services to its customers. Urban Airship also offers its customers services for location-based apps. The coordinates recorded in the database were 37.790230, -85.443299. Further, the database had an entry labeled "h_accuracy" which is believed to be horizontal accuracy. Typically, this value is stored in meters; however, there is no publicly available data to confirm this for this file.

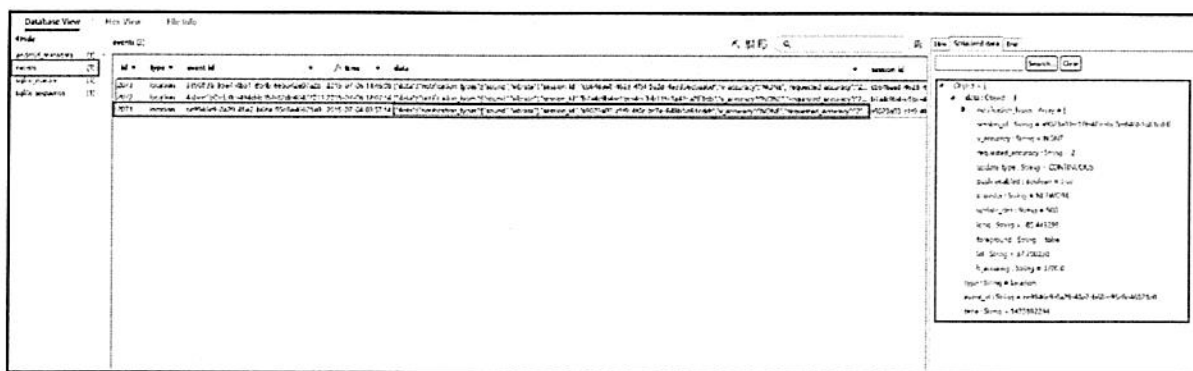


Figure 3 - ua_analytics.db with highlighted entry from Device 1.

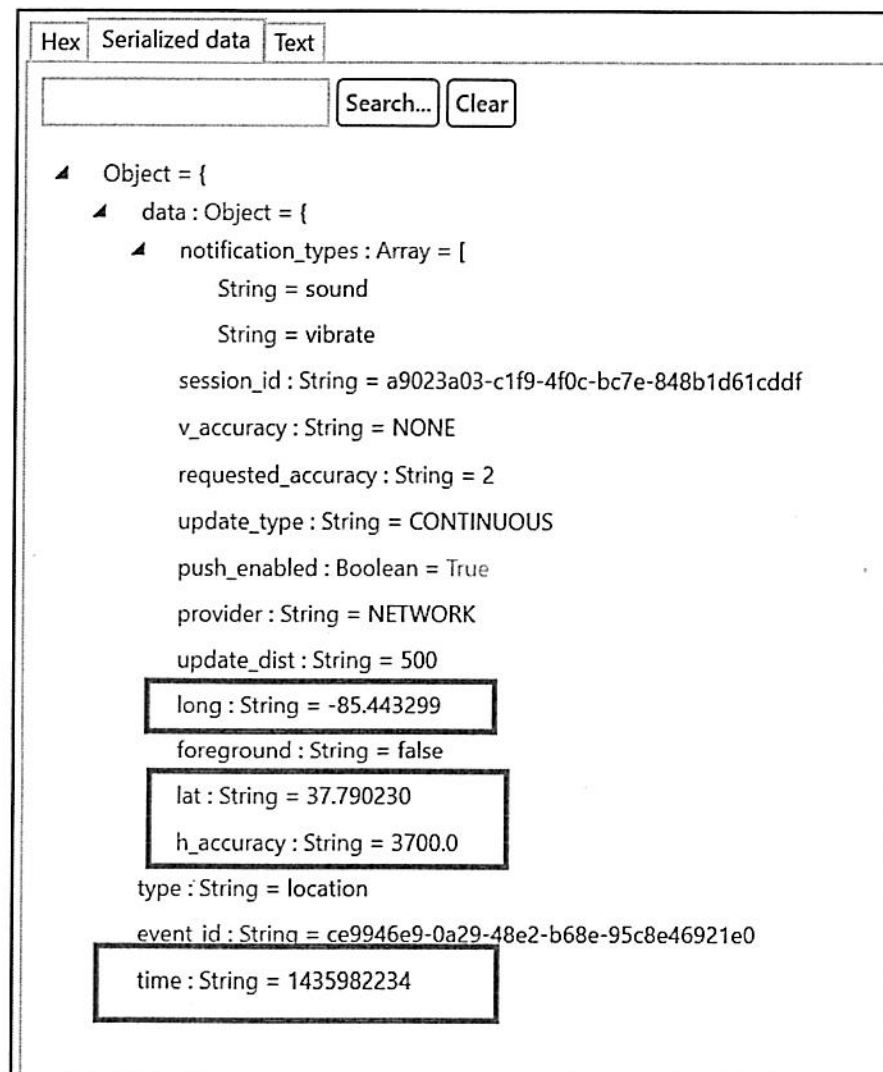
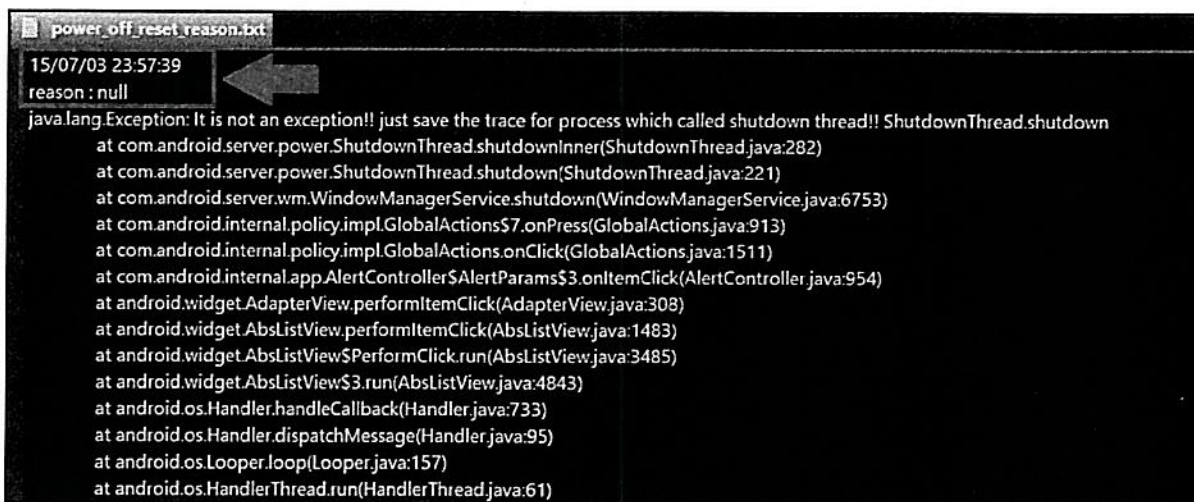


Figure 4 - entry from *ua_analytics.db* with highlighted coordinates from Device 1.

It should be noted that an attempt was made to install a copy of the RetailMeNot app from Device 1 on the exemplar device; however, due to the app's age, it did not function.

Approximately 11 seconds later at 03:57:25 (UTC +0000) the boot sequence for Device 1 was completed (source file: *external.db* – table *log*).

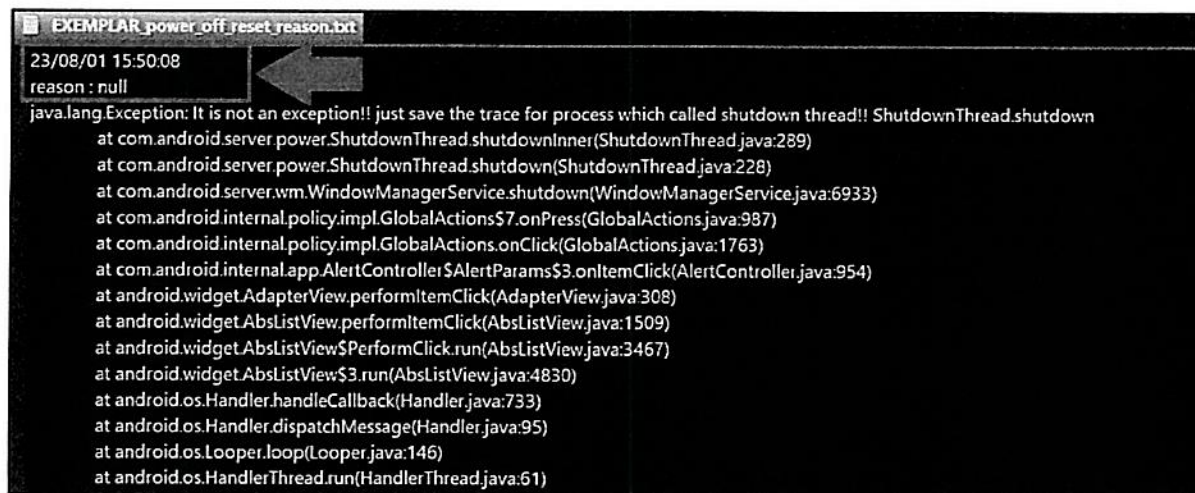
On 2015-07-04 at 03:57:39 (UTC +0000) Device was manually shut down (source file: *power_off_reset_reason.txt*).



```
power_off_reset_reason.txt
15/07/03 23:57:39
reason : null
java.lang.Exception: It is not an exception!! just save the trace for process which called shutdown thread!! ShutdownThread.shutdown
    at com.android.server.power.ShutdownThread.shutdownInner(ShutdownThread.java:282)
    at com.android.server.power.ShutdownThread.shutdown(ShutdownThread.java:221)
    at com.android.server.wm.WindowManagerService.shutdown(WindowManagerService.java:6753)
    at com.android.internal.policy.impl.GlobalActions$7.onPress(GlobalActions.java:913)
    at com.android.internal.policy.impl.GlobalActions.onClick(GlobalActions.java:1511)
    at com.android.internal.app.AlertController$AlertParams$3.onItemClick(AlertController.java:954)
    at android.widget.AdapterView.performItemClick(AdapterView.java:308)
    at android.widget.AbsListView.performItemClick(AbsListView.java:1483)
    at android.widget.AbsListView$PerformClick.run(AbsListView.java:3485)
    at android.widget.AbsListView$3.run(AbsListView.java:4843)
    at android.os.Handler.handleCallback(Handler.java:733)
    at android.os.Handler.dispatchMessage(Handler.java:95)
    at android.os.Looper.loop(Looper.java:157)
    at android.os.HandlerThread.run(HandlerThread.java:61)
```

Figure 5 - manual shutdown in power_off_reset_reason.txt from Device 1.

Test data from the exemplar device confirmed that the value “reason : null” was indicative of a manual shutdown (i.e., correct button sequence to power off the device). Below is an entry from power_off_reset_reason.txt from the exemplar device when the device was shutdown using the correct button sequence.



```
EXEMPLAR power_off_reset_reason.txt
23/08/01 15:50:08
reason : null
java.lang.Exception: It is not an exception!! just save the trace for process which called shutdown thread!! ShutdownThread.shutdown
    at com.android.server.power.ShutdownThread.shutdownInner(ShutdownThread.java:289)
    at com.android.server.power.ShutdownThread.shutdown(ShutdownThread.java:228)
    at com.android.server.wm.WindowManagerService.shutdown(WindowManagerService.java:6933)
    at com.android.internal.policy.impl.GlobalActions$7.onPress(GlobalActions.java:987)
    at com.android.internal.policy.impl.GlobalActions.onClick(GlobalActions.java:1763)
    at com.android.internal.app.AlertController$AlertParams$3.onItemClick(AlertController.java:954)
    at android.widget.AdapterView.performItemClick(AdapterView.java:308)
    at android.widget.AbsListView.performItemClick(AbsListView.java:1509)
    at android.widget.AbsListView$PerformClick.run(AbsListView.java:3467)
    at android.widget.AbsListView$3.run(AbsListView.java:4830)
    at android.os.Handler.handleCallback(Handler.java:733)
    at android.os.Handler.dispatchMessage(Handler.java:95)
    at android.os.Looper.loop(Looper.java:146)
    at android.os.HandlerThread.run(HandlerThread.java:61)
```

Figure 6 - manual shutdown in power_off_reset_reason.txt from exemplar device.

The next completed boot sequence (i.e., device powered on) for Device 1 occurred on 2015-07-06 at 14:45:35 (UTC +0000) (source file: external.db – table log).

No other notable events were found on Device 1.

Device 2

Device 2 is described as follows:

Make: Samsung
Model: Galaxy S4
Model Number: SCH-i545L
IMSI: 311480011159234
Android Version: 4.4.2 (KitKat)
Owner: Brooks Houck (as noted by law enforcement)

Smarter Forensics was provided with a binary (.bin) for Device 2. It is described as follows:

Name: DumpData.bin
SHA256: 86CB20254D7B49FA442CE162C1BFB08E456799A330983A0D50291E3A2F49BB73

Location Data:

During the same period of time no powering events (on/off/dead battery) were identified in the evidence provided. Additionally, the only identifiable location data was related to the Service Set Identifier (SSID – a WiFi network name) *belkin.2e9*. Older versions of Android logged network usage statistics in two-hour block. There were two such blocks on Device 2:

1. 2015-07-03 22:00:00 (UTC +0000) – 2015-07-04 00:00:00 (UTC +0000)
2. 2015-07-04 04:00:00 (UTC +0000) – 2015-07-04 06:00:00 (UTC +0000)

There were additional blocks of time this SSID was seen on 2015-07-04.

Recovered Data:

Three (3) call records were recovered from Device 2 within a journal file associated with *logs.db* (source file path: USERDATA/data/com.sec.android.provider.logsprovider/databases/). The calls are as follows:

Date/Time (UTC +0000)	Direction	Number	Contact Name	Duration (MM:SS)
2015-07-03 21:10:03	Unknown	502-507-2899	Crystal Rogers	00:00
2015-07-03 22:27:21	Outgoing	502-349-2594	Mom	01:34
2015-07-04 00:09:45	Outgoing	502-349-2594	Mom	00:28

The first call is notable in that no evidence of it was found on Device 1.

No determination was made regarding how the records were marked for deletion (i.e., user-initiated or natural record roll-over).

Gaming Applications:

An examination of the installed applications on Device 2 found no evidence of an application considered to be explicitly designed for gaming purposes (source file: *icingcorpora.db*).