

UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF COLUMBIA

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UNITED STATES OF AMERICA,)	Criminal Action
)	No. 21-00175
Plaintiff,)	
)	
vs.)	
)	
ETHAN NORDEAN, JOSEPH R. BIGGS,)	Washington, D.C.
ZACHARY REHL, ENRIQUE TARRIO and)	February 8, 2023
DOMINIC J. PEZZOLA,)	9:21 a.m.
)	
Defendants.)	
)	
* * * * *)	

TRANSCRIPT OF JURY TRIAL - DAY 28
MORNING SESSION
BEFORE THE HONORABLE TIMOTHY J. KELLY,
UNITED STATES DISTRICT JUDGE

APPEARANCES:

FOR THE GOVERNMENT: JASON B.A. McCULLOUGH, ESQ.
ERIK M. KENERSON, ESQ.
CONOR MULROE, ESQ.
NADIA MOORE, ESQ.
UNITED STATES ATTORNEY'S OFFICE
FOR THE DISTRICT OF COLUMBIA
555 Fourth Street, Northwest
Eleventh Floor
Washington, D.C. 20530

FOR THE DEFENDANT
NORDEAN: NICHOLAS D. SMITH, ESQ.
DAVID B. SMITH, PLLC
1123 Broadway
Suite 909
New York, New York 10010

APPEARANCES, CONT'D:

FOR THE DEFENDANT
BIGGS: JOHN D. HULL, IV, ESQ.
HULL MCGUIRE, P.C.
1420 N Street, Northwest
Washington, D.C. 20005

NORMAN A. PATTIS, ESQ.
PATTIS & SMITH, LLC
383 Orange Street
First Floor
New Haven, Connecticut 06511

FOR THE DEFENDANT
REHL: CARMEN D. HERNANDEZ, ESQ.
7166 Mink Hollow Road
Highland, Maryland 20777

FOR THE DEFENDANT
TARRIO: NAYIB HASSAN, ESQ.
LAW OFFICES OF NAYIB HASSAN, P.A.
6175 Northwest 153rd Street
Suite 209
Miami Lakes, Florida 33014

SABINO JAUREGUI, ESQ.
JAUREGUI LAW, P.A.
1014 West 49th Street
Hialeah, Florida 33012

FOR THE DEFENDANT
PEZZOLA: STEVEN METCALF, II, ESQ.
METCALF & METCALF, P.C.
99 Park Avenue
Sixth Floor
New York, New York 10016

ROGER ROOTS, ESQ.
LAW OFFICES OF ROGER ROOTS
113 Lake Drive East
Livingston, Montana 59047

1 REPORTED BY: LISA EDWARDS, RDR, CRR
2 Official Court Reporter
3 United States District Court for the
4 District of Columbia
5 333 Constitution Avenue, Northwest
6 Room 6706
7 Washington, D.C. 20001
8 (202) 354-3269
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I N D E XDirectCrossRed.WITNESSES FOR THE GOVERNMENT:

Jennifer "Kate" Cain	7802	7856	
		7857	
		7892	

EXHIBITS RECEIVED IN EVIDENCEPAGE

Government's Exhibit No. 1137	7804
Government's Exhibit Nos. 400A, 400D, 400P, 400R, 400X, 401G, 401P, 401Q, 401T, 401JJ, 402B, 403G and 403H	7816
Government's Exhibit No. 1132	7816
Government's Exhibit Nos. 404C, 404F, 404G, 404K, 404N, 404Q, 404V, 404W, 404X, 404Z, 404DD, 404EE, 404LL, 404VV, 405I, 405M, 405N, 405AA, 405BB, 405FF, and 405HH	7822
Government's Exhibit No. 1133	7822

1 THE COURTROOM DEPUTY: This is Criminal Matter
2 21-175, the United States of America versus Defendant 1,
3 Ethan Nordean; Defendant 2, Joseph R. Biggs; Defendant 3,
4 Zachary Rehl; Defendant 5, Enrique Tarrío; and Defendant 6,
5 Dominic J. Pezzola.

6 Present for the Government are Jason McCullough,
7 Erik Kenerson, Conor Mulroe and Nadia Moore; present for
8 Defendant 1 is Nicholas Smith; present for Defendant 2 are
9 John Hull and Norman Pattis; present for Defendant 3 is
10 Carmen Hernandez; present for Defendant 5 are Nayib Hassan
11 and Sabino Jauregui; present for Defendant 6 are Steven
12 Metcalf and Roger Roots.

13 Also present are Defendant 1, Mr. Nordean;
14 Defendant 2, Mr. Biggs; Defendant 3, Mr. Rehl; Defendant 5,
15 Mr. Tarrío; and Defendant 6, Mr. Pezzola.

16 THE COURT: Good morning to everyone.

17 Part of the reason I took the bench later than I
18 would have liked to today was I know, Ms. Hernández, there
19 were a series of the Government having -- there were a
20 series of filings related to this issue of an agent
21 testifying to a particular term. And, Ms. Hernández, I know
22 you filed something -- or emailed something very early in
23 the morning.

24 So I wanted to try to get as much up to speed on
25 all of that as I could.

1 I think, for the moment, my suggestion is we just
2 plow ahead with this witness. Even if we move to the next
3 witness that the Government just -- I don't know how quickly
4 we'll move through this witness, but that we put off the
5 discussion of that until perhaps after lunch, or at another
6 break, just so we can get going with this witness.

7 Obviously, there's a lot of testimony that the
8 next witness will provide that the parties already know the
9 contours of. And if we get that far, even -- the Government
10 could just defer that issue until we've had a chance to
11 pause and discuss it.

12 I know I'll benefit a little bit from reading the
13 cases a little more closely Ms. Hernández cited, look at
14 the -- and have an opportunity to look at what the
15 Government has proffered it would base the testimony on and
16 go from there.

17 Anything -- Mr. Pattis?

18 MR. PATTIS: One request. And then to put
19 something on your radar.

20 I don't know if the Court has given thought to
21 management of jury expectations. My recollection is that
22 when we selected, the expectation was we'd finish probably
23 by the end of February, and that seems increasingly
24 unlikely.

25 That's an issue for the Court and the jury.

1 From the defense perspective, has the Court
2 decided what the protocol will be for presentation of the
3 defense? Are we going to be expected to present in order of
4 the indictment and so forth, as we've cross-examined? And
5 the reason I ask is we're managing people's time and whatnot
6 at this point.

7 THE COURT: Right. No, that's fair.

8 So let me think about -- I mean, I think that
9 strikes me as an efficient way to do it, and do it in order
10 and -- do it in that order.

11 MR. PATTIS: The issue might become, for some of
12 the witnesses, we've given them target dates months ago that
13 are no longer realistic. And we're going to be bumping up
14 against scheduling issues. And, you know, a subpoena is a
15 subpoena. I get it. But I don't want to deal with
16 unnecessary motions to quash.

17 THE COURT: Putting that on my radar is fair. And
18 so let me think about it. Hopefully, I will raise it, let's
19 say, in the next day or two to talk about it.

20 On that score, let me just ask the Government -- I
21 mean, part of the answer to that question is how much -- at
22 the rate we're going, when the Government thinks it would
23 wrap up its case. All the caveats apply that -- you know,
24 there have been times when, all of a sudden, we'd skip
25 faster than we thought previously. So, you know, you're

1 doing -- this is an estimate. I get it.

2 MR. McCULLOUGH: With all embedded caveats, we had
3 indicated to the defense that we expect another three to
4 three and a half weeks as of last Friday. And we'll -- I
5 think we'll see kind of where we are at the end of this week
6 and determine where we are.

7 As we've said, I think we're somewhat hostage to
8 kind of the length of cross-examination. So we're -- it
9 will be interesting for us to see how that kind of plays out
10 over the next few days.

11 THE COURT: At least as of then, you know, roughly
12 end of the month?

13 MR. McCULLOUGH: Yes. That's correct, your Honor.

14 THE COURT: Okay. So, Mr. Pattis, you have that
15 at least to help guide you. And then the other question
16 I'll take up in terms of trial management of the defense
17 case.

18 MR. McCULLOUGH: And just to be clear, your Honor,
19 we send that estimate to the defense every Friday at their
20 request. And so they received that exact representation by
21 email last week.

22 THE COURT: Okay.

23 MS. HERNANDEZ: Your Honor, in terms of --

24 THE COURT: Anything else further before we bring
25 in the jury and the witness?

1 MS. HERNANDEZ: Just in terms of trial management,
2 we're trying to -- I know we're all working very diligently.
3 It cannot be that we're exchanging exhibits after midnight
4 and having to file things. The Government -- I know that
5 we're all working -- I'm not putting blame on anyone, but
6 it's just not workable.

7 I can only wake up at 3:00 in the morning twice a
8 week before I drop dead. It just -- we have to figure out
9 something to -- I'm speaking, I think, for all defense
10 counsel, probably for all the prosecutors, and particularly
11 for -- probably for Ms. Rohde, who I'm sure is having to do
12 some of this work.

13 THE COURT: Well, on this specific issue, the
14 reason I think, you know, I expressed skepticism about a
15 particular piece of testimony, and then the Government is
16 attempting to respond to that. So I can't -- again, you
17 weren't to blame, or anyone. But I think they were
18 responding to my comment yesterday. So --

19 MS. HERNANDEZ: Well, I'll blame you if you want
20 me to.

21 THE COURT: I'll take, you know, the good and the
22 bad that comes with the job.

23 But no. It's --

24 MS. HERNANDEZ: It's just very difficult.

25 THE COURT: I hear you.

1 Again, I don't think, given the witness we have on
2 the stand and then given the length of the direct for the
3 witness to come, you know, the truth is this issue may
4 not -- probably wouldn't really ripen today. Heck, it might
5 not even really ripen tomorrow. I mean, I'm sure the
6 Government would like to do things in a particular order,
7 but it didn't necessarily need to even potentially ripen
8 tomorrow.

9 So, look, I think we all have to just sort of move
10 forward, you know, in good faith and as efficiently as we
11 can, and hopefully that won't happen too often.

12 MS. HERNANDEZ: And it also is a problem because
13 these Defendants are intelligent men who are interested in
14 their defense, and so there's -- once the lawyers are
15 finished doing whatever, we also have a responsibility to
16 fill them in on it and let them comment on it. So that's
17 another layer of obligations.

18 THE COURT: All right. Does the Government want
19 to respond to any of that really briefly?

20 MR. McCULLOUGH: Very briefly, your Honor.

21 Just so we're kind of framing this issue with the
22 Minecraft slides, we offer those slides not as a way to kind
23 of overcome the issue from the circuit, but rather to just
24 address the way that we would offer this evidence to the
25 jury, which is not to have the agent kind of offer a

1 conclusion as to what it means, but rather present, Here are
2 other, you know, instances where that term has been used.
3 Jury, you draw your conclusion.

4 That fits well within the bounds of the circuit
5 precedent. And so just to make sure that we're kind of not
6 talking past each other in terms of what the Government is
7 intending to do, that was our approach in response to your
8 Honor's ruling. And we offered the slides up so everyone
9 could wrap their mind around it in advance of the testimony.

10 THE COURT: I mean, so it wouldn't be, to base --
11 it would actually -- then, in that case, whatever -- it
12 wouldn't be to base an opinion on. You'd see it as, again,
13 just introducing additional evidence and, Jury, you make the
14 decision?

15 MR. McCULLOUGH: Correct.

16 THE COURT: Right.

17 MR. McCULLOUGH: Exactly. If they see -- and that
18 is well within the bounds.

19 The agent is not saying, Okay. I've seen them use
20 it --

21 MS. HERNANDEZ: I just -- your Honor -- your
22 Honor, I would object to this argument, because the Court
23 said you were going to take these arguments up --

24 THE COURT: I am going -- Ms. Hernández, you're
25 going to have the opportunity. But I do think it's -- I

1 thought that the Government was proceeding under a
2 particular theory, and they're at least letting me know
3 that, no, that's not the theory they're going to proceed
4 under.

5 You're all going to have ample time to address it.
6 But if I fundamentally misunderstand what they're trying to
7 do, that doesn't help me prepare to hear you.

8 MR. McCULLOUGH: Correct.

9 So, your Honor, we just wanted to orient you to
10 that.

11 THE COURT: I understand.

12 MR. McCULLOUGH: And that if we had -- you know,
13 kind of -- the circuit would be kind of in a drug case where
14 they're saying, you know, Bring the white shirts to the
15 spot; you know, white shirts means the cocaine. Right?

16 And so we're not saying -- the agent is not going
17 to get up there and say, Okay. When they say white shirts,
18 it means cocaine. We're just going to show the ten
19 instances where they use the term "white shirts." The jury
20 can decide what that -- what they think that means.

21 THE COURT: I mean, it -- it gets around the
22 opinion problem, perhaps, but creates other potential
23 problems.

24 So -- fair enough. Let's just defer it for now.

25 Yes, Mr. Roots.

1 MR. ROOTS: Roger Roots for Mr. Pezzola.

2 Yesterday was a very important witness for
3 Mr. Pezzola on the stand, Mr. Ode. And I just want to say,
4 we were prejudiced by the fact that Mr. Pezzola is not
5 really having any adequate access to his discovery. He gets
6 one hour. To open a laptop, it takes, you know, minutes to
7 boot up, and he's not a technically proficient person. One
8 hour twice a week, I believe.

9 He has had no access to the discovery. Yesterday
10 there were photographs that were shown that he's never seen.
11 In fact, I haven't seen them. I was told -- some of these
12 numbers were, you know, 1108 to such. These binders we were
13 given don't have the pictures that were shown in court
14 yesterday. I was told they were in an email last week.
15 Now, I get 200 emails a day. So there were pictures that I
16 haven't seen.

17 Mr. Metcalf was prejudiced yesterday. He did a
18 great job and it was -- but it could have been smoother.
19 And one of the main problems, we are being prejudiced by the
20 fact that Mr. Pezzola is not able to access his own
21 discovery in this case. And he shouldn't be seeing pictures
22 used against him for the first time at a trial.

23 THE COURT: Well, I'll just say this: Before
24 Mr. Pezzola was being housed where he is right now -- you
25 all have raised this issue during the trial, you know, the

1 access.

2 He has been in facilities for -- since he's been
3 detained in this case in which there hasn't been any reason
4 he hasn't been able to see, for example, exhibits or photos.
5 Isn't that correct? I mean, all of the facilities that
6 Mr. Pezzola has been in -- for example, when the Government
7 produced the exhibits in the case, there wasn't any reason
8 why counsel couldn't discuss those exhibits and show those
9 exhibits to Mr. Pezzola.

10 MR. METCALF: Your Honor, if I may. Steven
11 Metcalf.

12 THE COURT: Sure.

13 MR. METCALF: Those exhibits I received on January
14 13th as a new Dropbox link. That's what I believe Mr. Roots
15 is referring to.

16 I attempted, I believe, at one point to show
17 Mr. Pezzola those photos in the middle of breaking one day,
18 as he was being escorted back to the marshals.

19 So there have been additions to the trial exhibits
20 that have been made, and that's what I believe that
21 Mr. Roots is referring to.

22 THE COURT: Okay. The particular photos of the
23 incident?

24 MR. METCALF: 1108 to 1130 is what I'm referring
25 to.

1 THE COURT: All right. And again, there hasn't
2 been any reason -- I understand there have been issues with
3 the amount of time your client can view electronic discovery
4 alone. But again, given the centrality of those
5 photographs, there hasn't been any reason why you haven't
6 been able to walk in to see him and show him these new
7 photos that the Government presented to you weeks ago.
8 Correct?

9 MR. METCALF: Your Honor, yes, in an ideal world.
10 I mean, let's put aside the fact that I've literally dropped
11 my business and every single thing I possibly can and, when
12 I'm outside of court, I'm trying to maintain a relationship
13 with my law firm, my wife, who's six months pregnant, and my
14 three children, who the oldest is five. So yes, in an ideal
15 world, I would love for that to happen and I would love to
16 be able to print these things out and run over to go see
17 Mr. Pezzola when we're not in court on a Friday. But it's
18 just not practical.

19 So -- I didn't raise this issue; Mr. Roots did.
20 And that's just what we're dealing with.

21 MR. ROOTS: If I could maybe crystallize this into
22 a request, which -- maybe I've made a version of this
23 request before, but we really need Mr. Pezzola to have more
24 time available to him, and helpers. These other guys are --
25 they've had podcasts; they are technically proficient, some

1 of his Co-Defendants. He is not. He needs help with people
2 showing him how to open a file, open a zip file or whatever.
3 He's not able to. And so he really needs more time, maybe
4 all weekend long, with the laptop, with the files, and a
5 helper that can help him.

6 THE COURT: All right. Look, there's nothing I
7 can do about it as we sit here right now. We have got the
8 jury waiting. I hear you. Before the end of the day, we'll
9 take this up again.

10 Anything further from any party?

11 MR. KENERSON: If I could just, on those photos,
12 put something on the record about timing:

13 Those were not, so far as we've been able to
14 ascertain -- and we did do searches -- in the Government's
15 possession prior to the day before we gave them to the
16 defense. So these were newly acquired photographs. And the
17 one that was in the Government's possession was previously
18 on the Government's exhibit list going back to its
19 inception -- maybe not inception, but certainly by the
20 November one.

21 And with respect to the photos, we're talking
22 about 1108 to 1130, so it's about 22 photos. It's not a
23 lengthy video. They could have been shown to Mr. Pezzola in
24 court on a break. They could have been shown any number of
25 times.

1 So those were newly discovered and a discrete
2 issue.

3 THE COURT: All right. Very well.

4 Let's bring in the jury and the witness.

5 Mr. Kenerson, were we at the end of your -- had
6 you completed your direct?

7 MR. KENERSON: No, I had not. I had not much
8 more, but some more.

9 (Thereupon, Examiner Jennifer "Kate" Cain entered
10 the courtroom and the following proceedings were had:)

11 THE COURTROOM DEPUTY: Jury panel.

12 (Whereupon, the jury entered the courtroom at 9:42
13 a.m. and the following proceedings were had:)

14 THE COURT: You all may be seated.

15 Ladies and gentlemen, welcome back. We'll
16 continue with the Government's direct examination.

17 MR. KENERSON: Thank you.

18 (JENNIFER "KATE" CAIN, GOVERNMENT WITNESS,
19 PREVIOUSLY SWORN.)

20 CONTINUED DIRECT EXAMINATION

21 BY MR. KENERSON:

22 Q. Good morning, Examiner Cain. How are you?

23 A. Great. Thank you.

24 Q. I want to switch topics from where we were yesterday.

25 You said one of the phones you examined was one belonging to

1 an individual named Jeremy Bertino. Is that right?

2 A. That is correct.

3 MR. KENERSON: And, Ms. Rohde, if we could bring
4 up, just for the witness, Government's Exhibit 1137.

5 BY MR. KENERSON:

6 Q. And do you recognize what's on your screen?

7 A. I do.

8 Q. What do you recognize that as?

9 A. This is a video found on Mr. Bertino's device that he
10 had screen recorded and then sent to someone else in a text
11 message.

12 Q. And can you tell what -- well, what is a screen
13 recording of?

14 A. When the user goes and actually takes a video of
15 everything that is happening on the device.

16 Q. Okay. Does this show any particular application?

17 A. This is the Telegram app.

18 Q. And is this -- have you had a chance to view this video
19 in its entirety before your testimony here today?

20 A. I have.

21 Q. Does this fairly and accurately represent what was
22 recovered from Mr. Bertino's phone?

23 A. It does.

24 MR. KENERSON: Your Honor, I'd move for the --

25 MS. HERNANDEZ: I'm sorry. Your Honor, one of the

1 screens isn't working, so we --

2 THE COURTROOM DEPUTY: I'll send an email to John.

3 THE COURT: Oh, it's on. All right. Very well.

4 You may proceed, Mr. Kenerson.

5 MR. KENERSON: I'd move for the admission of
6 Exhibit 1137.

7 THE COURT: All right. It will be admitted. And
8 permission to publish.

9 (Whereupon, Government's Exhibit No. 1137 was
10 entered into evidence.)

11 BY MR. KENERSON:

12 Q. And before we start playing, you said this was a screen
13 recording. Can you tell us how a user would create a screen
14 recording such as this?

15 A. There is a setting in the iPhone that you -- the user
16 can go to and click "screen record," and then everything
17 after that point will be recorded.

18 Q. And is that -- and so what we are looking at here is a
19 video file, not a still shot. Correct?

20 A. That is correct.

21 Q. And if someone takes a video record as opposed to a
22 still shot of a screen, what's the difference?

23 A. Well, a still screen shot is just an image of how it
24 looks at that time. A video is actually the user
25 interacting with the device. So if the user opens an

1 application, you'll see it open. If they scroll down,
2 you'll see the screen scroll down. You'll see everything
3 the user sees on that device as it's happening.

4 Q. So is this how a user would see this chat if they
5 scrolled through it on their phone at the time the screen
6 capture was created?

7 A. Yes.

8 Q. Now, was this file particularly associated with Telegram
9 or was it found somewhere else on Mr. Bertino's device?

10 A. It was found in the camera roll of his device.

11 Q. Okay. And so you mentioned that this is how Telegram
12 would appear to a user of Telegram. If you were looking at
13 the Telegram application through your forensic tools, is
14 this how it would appear to you?

15 A. No, it wouldn't. We build the data as similar and as
16 close as possible, but it actually doesn't look like the
17 application does.

18 Q. Okay. Now, on this, is there any significance to which
19 side the chat bubbles are coming from?

20 A. The ones on the left-hand side are all of the incoming
21 text messages -- or messages. And then the ones on the
22 red -- sorry -- on the right side in green, those are all of
23 the outgoing messages, just like they appear in regular text
24 messaging.

25 Q. Now, let me ask you something about, as an example, the

1 message that I'm circling right now, which has Captain Trump
2 at the top and then Noblebeard, the Immortal, under it at --
3 it looks like 12:34 p.m. What does that -- the message
4 displaying in that manner signify?

5 A. So the author of this message is Captain Trump, and the
6 message is an audio file. And when you see the blue bar
7 like that, he's actually replying specifically to a voice
8 message that Noblebeard, the Immortal, left.

9 Q. Thank you.

10 Now, up at the top, it says: Parler comment on
11 post, Carol Jean, and then some words.

12 What is that denoting?

13 A. Those are the IOS notification banners that are coming
14 across in realtime as the screen is being recorded.

15 Q. So notifications on the user's iPhone as he's recording?

16 A. Yes.

17 MR. KENERSON: Ms. Rohde, can we play until ten
18 seconds.

19 (Whereupon, segments of Government's Exhibit No.
20 1137 were published in open court.)

21 BY MR. KENERSON:

22 Q. Now, we just saw the video scroll through at a certain
23 pace. Are you able to control the pace of how this scrolls
24 as we play the video?

25 A. I am not, as someone watching the video. That would

1 have been controlled by the person recording the video.

2 Q. And we just saw a bubble of a man who said something
3 about storming the Capitol Building. Under that bubble,
4 there is something that says 12:56 p.m. What does that
5 12:56 p.m. mean?

6 A. That was the time the message was sent.

7 Q. And have you had a chance, Examiner Cain, to compare --
8 first of all, did you have a chance to look at these
9 messages and see whether you can link them up to any of the
10 chats that you looked at?

11 A. I have, yes.

12 Q. Which chat was this recording from?

13 A. This chat was called New MOSD.

14 Q. And did you have a chance to look at the copies of that
15 chat that were -- you were able to review from the forensic
16 extractions and see whether the messages in this chat were
17 present in any of the versions that you looked at?

18 A. I did.

19 Q. And did you take some notes from that?

20 A. I did.

21 Q. Would it aid your testimony to be able to refer to those
22 notes?

23 A. That would help. Thank you.

24 MR. KENERSON: Your Honor, if I may approach the
25 witness.

1 THE COURT: You may, sir.

2 MS. HERNANDEZ: Objection. Is there a question
3 that she can't recall so that she needs to look at the
4 notes?

5 THE COURT: I think this is the same -- let me
6 hear counsel.

7 (Whereupon, the following proceedings were had at
8 sidebar outside the presence of the jury:)

9 THE COURT: Mr. Kenerson, is this the same issue
10 we went through yesterday?

11 MR. KENERSON: Yes. This is one of the three
12 documents I brought to her yesterday. We just did not get
13 to this point in the testimony.

14 THE COURT: All right. Do you have any objection,
15 Ms. Hernández? It's just refreshing her -- it's as to
16 particular details. Mr. Kenerson isn't using the
17 technically formal refresh procedure, but I think -- I
18 thought everyone had agreed that they didn't have an
19 objection to this in this case.

20 MS. HERNANDEZ: Is he asking her about the
21 metadata? I didn't hear him say that. I thought he was
22 just going to ask her questions about everything. He said,
23 You took notes.

24 If it's about the metadata, I have no objection.
25 But I thought the question was broader than that.

1 MR. KENERSON: It's going to be whether certain
2 messages were recovered from any of the chats she looked at.

3 THE COURT: Ms. Hernández, this is, broadly
4 speaking, I would say, about metadata, about where things
5 were recovered from, what the metadata shows, where things
6 were recovered from. Do you have any objection to this,
7 then?

8 MS. HERNANDEZ: I'll let him proceed. If there's
9 a problem that I see, I'll object again, your Honor. Thank
10 you.

11 THE COURT: Mr. Pattis?

12 MR. PATTIS: I'm looking at the exhibit. I don't
13 know how far -- what the Government intends to do. But
14 there's a notation -- there are notations from someone who
15 calls themselves cracker, nigger, faggot. Are we getting
16 into that here?

17 THE COURT: Mr. Kenerson?

18 MR. KENERSON: It is literally already on the
19 screen right now. This was the subject of -- I'm not going
20 to ask her any questions about that, but this was the --
21 kind of a subject of a pretrial motion *in limine*, and this
22 was in the Government's opening as well.

23 THE COURT: Well, what do you mean, Mr. Pattis?

24 MR. PATTIS: I'll withdraw it. I forgot -- I had
25 forgotten the pretrial order. My mistake.

1 I apologize to your Honor.

2 THE COURT: That's all right. I wasn't sure
3 whether you meant that screen name or another -- the content
4 of what the person says.

5 Mr. Kenerson, you may proceed.

6 (Whereupon, the following proceedings were had in
7 open court:)

8 MR. KENERSON: Your Honor, if I may approach the
9 witness with what has been marked as Government's
10 Exhibit 1136 for identification.

11 THE COURT: You may, sir.

12 BY MR. KENERSON:

13 Q. Examiner Cain, is what I just handed you the notes that
14 you created in connection with this exhibit?

15 A. They are, yes.

16 Q. Now, the chat bubble that we've just been discussing at
17 12:56 p.m., was that message recovered on any device that
18 you examined?

19 A. No, it was not.

20 Q. And what about the message right above it that says --
21 and I'll just say it directly -- "Fuck then" -- that comes
22 from the right of the screen?

23 A. May I refer to my notes?

24 Q. Yes, please.

25 A. No, it was not.

1 MR. KENERSON: Ms. Rohde, can we play until 30
2 seconds now.

3 (Whereupon, segments of Government's Exhibit No.
4 1137 were published in open court.)

5 MR. KENERSON: Thank you.

6 BY MR. KENERSON:

7 Q. Now, that second bubble video that has a timestamp of
8 12:58 p.m., was that recovered from any device you examined?

9 A. May I refer to my notes?

10 Q. Please.

11 A. No, it was not.

12 Q. Now, under that, there's two messages coming from the
13 right, one that says, "Form a spear," and one that says,
14 "Holy fuck, do it, boys."

15 Were either of those recovered from any --

16 THE COURT: I'm sorry, Mr. Kenerson. I just --
17 can you keep your voice up?

18 And can the witness -- can you keep your voice up,
19 please?

20 And can those at counsel table keep their voices
21 down.

22 BY MR. KENERSON:

23 Q. So the two messages underneath the bubble at 12:58
24 p.m. -- one says, "Form a spear"; one says, "Holy fuck, do
25 it, boys" -- were either of those recovered from any device

1 that you examined?

2 A. No, they were not.

3 MR. KENERSON: Can we play until one minute and
4 one second, please -- or play to the end, I suppose.

5 (Whereupon, segments of Government's Exhibit No.
6 1137 were published in open court.)

7 BY MR. KENERSON:

8 Q. Examiner Cain, the chat bubble from the right with the
9 individual with the beard at 1:00 p.m., was that recovered
10 from any device you examined?

11 A. May I refer to my notes?

12 Q. Sure.

13 A. No, it was not.

14 Q. What about the two underneath? We'll start with, first,
15 "Fuck, I'm so mad I'm not there."

16 Was that recovered from any device you examined?

17 A. No, it was not.

18 Q. What about, "More videos, Bro"?

19 A. No, it was not.

20 Q. What about the bubble from the left at 1:02 p.m.? Was
21 that recovered from any device you examined?

22 A. No, it was not.

23 Q. Now, what about the one underneath it, "Push inside.
24 Find some eggs and rotten tomatoes"?

25 A. Yes, it was.

1 Q. Which devices was that recovered from?

2 A. They were found on Mr. Rehl and Mr. Nordean's device.

3 Q. Now, it looks like we are at the end of the video at
4 this point. Correct?

5 A. That is correct.

6 Q. Now, what, if any, conclusions can you draw as an
7 examiner from the fact that the messages that we just
8 discussed that weren't found on any device were not found on
9 any device you examined?

10 MS. HERNANDEZ: Objection. Relevance.

11 THE COURT: Overruled.

12 THE WITNESS: These messages that were not found
13 on the device had been deleted.

14 BY MR. KENERSON:

15 Q. Can you draw any conclusions as to who would have
16 deleted them?

17 A. The user that posted the video.

18 Q. Why do you come to that conclusion?

19 A. Because when we found this chat on two different
20 devices, the missing messages were gone from both of those
21 devices. Therefore, if the user had selected just to remove
22 it from their own device, then they would still be present
23 on the other two devices. And since they weren't, the
24 conclusion is that they removed them from all the devices
25 for the chat.

1 Q. Now, in addition to --

2 MR. KENERSON: Ms. Rohde, we can take this exhibit
3 down.

4 BY MR. KENERSON:

5 Q. You said you also had a chance to review the extraction
6 from Mr. Rehl's phone. Is that right?

7 A. That is correct.

8 Q. And did you have a chance to look at exhibits labeled
9 Government's Exhibit 400A, 400D, as in delta, P, as in Paul,
10 R, X, as in x-ray, G, as in gamma, P, as in Paul, Q, T, JJ,
11 402B, 403G and 403H?

12 A. I did. Yes.

13 Q. Were all of these found on Mr. Rehl's device?

14 A. They were.

15 Q. And do they appear to depict events from January 6th,
16 2021?

17 A. They do.

18 MR. KENERSON: Your Honor, I'd move to admit those
19 exhibits.

20 THE COURT: They will be admitted.

21 (Whereupon, Government's Exhibit Nos. 400A, 400D,
22 400P, 400R, 400X, 401G, 401P, 401Q, 401T, 401JJ, 402B, 403G
23 and 403H were entered into evidence.)

24 BY MR. KENERSON:

25 Q. Now, we talked about metadata yesterday. Did Mr. Rehl's

1 device have metadata associated with those files?

2 A. It did.

3 Q. Did you create a chart that includes some of that
4 metadata?

5 A. I did, yes.

6 MR. KENERSON: Ms. Rohde, if we could have, just
7 for the witness, Government's Exhibit 1132.

8 BY MR. KENERSON:

9 Q. Do you recognize what's on your screen?

10 A. I do.

11 Q. What is that?

12 A. This is the metadata that I extracted out of the device
13 that corresponds with the exhibits that you just named and
14 are listed here.

15 Q. Thank you.

16 And I need to correct how I read those exhibits.
17 I said -- let me just read them over one more time: 400A,
18 400D, 400P, 400R, 400X, 401G, 401P, 401Q, 401T, 401JJ, 402B,
19 403G and 403H.

20 That's what's on the chart. Correct?

21 A. That is correct.

22 MR. KENERSON: And for the record, those are the
23 exhibits I'm moving to admit.

24 THE COURT: All right. And so those will be
25 admitted to the extent there was any discrepancy.

1 (Whereupon, Government's Exhibit Nos. 400A, 400D,
2 400P, 400R, 400X, 401G, 401P, 401Q, 401T, 401JJ, 402B, 403G
3 and 403H were entered into evidence.)

4 MR. KENERSON: And I would also move at this point
5 for the admission of Exhibit 1132.

6 THE COURT: It will be admitted.

7 (Whereupon, Government's Exhibit No. 1132 was
8 entered into evidence.)

9 MR. McCULLOUGH: And seek permission to publish.

10 THE COURT: And permission to publish.

11 BY MR. KENERSON:

12 Q. Now, looking at the first column of this chart, does
13 that represent the exhibit number in court that we just read
14 out?

15 A. It does, yes.

16 Q. The second column that says Photo Title, what does that
17 represent?

18 A. It's the name of the image or the video.

19 Q. The image as found where?

20 A. In the device.

21 Q. In Mr. Rehl's device?

22 A. In Mr. Rehl's phone. Yes.

23 Q. Okay. Now, Photo Taken Date/Time, what does that
24 represent?

25 A. That is the actual creation date of the video or picture

1 listed. It comes from the EXIF data. So it actually is
2 embedded in the file itself so that if it's moved to a
3 different -- you know, saved somewhere else other than the
4 device, that creation date is embedded inside the file
5 itself so it will always remain the same.

6 Q. And you used the term EXIF data. Can you just tell the
7 jury what that means?

8 A. Sure. It's actually a standard for photographers. When
9 digital cameras became popular, it's a way for them to store
10 all of the camera settings such as the aperture and the
11 lens. And so among those are things that are relevant
12 forensically, like the date the photo was taken and created
13 and the type of camera that took it and the latitude and
14 longitude of the photo as well.

15 Q. Now, speaking of latitude and longitude, that's what the
16 next two columns represent. There's only, it appears, that
17 data for one photo. Does that indicate that was the only
18 photo that has that data?

19 A. It does. Saved as EXIF data, yes.

20 Q. Okay. And then what does the camera make denote?

21 A. These photos were taken with an Apple iPhone. Several
22 of them with an iPhone 11 Pro and one with an iPhone 8.

23 Q. Now -- and what's the source of that data?

24 A. That is also in the EXIF data.

25 Q. And same question about the camera model.

1 A. Same. It's embedded in the photos itself, in the EXIF
2 data.

3 Q. Now, the bottom two, 403G and 403H, do not have a camera
4 make or a camera model. Is that because there was no EXIF
5 data that indicated that?

6 A. That is correct. Telegram and most social media strip
7 most of the EXIF data from the photos to make the size
8 smaller. However, it does retain the creation date of the
9 video or image.

10 Q. And were you able to tell which, if any, of these
11 exhibits were taken by the camera on Mr. Rehl's phone?

12 A. Yes. Mr. Rehl's phone was an Apple iPhone 11 Pro. So
13 wherever it says iPhone 11 Pro, those were taken with his
14 actual device.

15 Q. Now, with respect to 402B, that says it was taken from
16 an iPhone 8. Are you able to tell how that photo got onto
17 Mr. Rehl's phone?

18 A. Yes. He received that photo via a text message.

19 MR. KENERSON: Ms. Rohde, can we put up 402B.

20 BY MR. KENERSON

21 Q. So that was the photo he received via text message?

22 A. It is, yes.

23 Q. Thank you.

24 MR. KENERSON: If we can go back to the chart.

25 MS. HERNANDEZ: Your Honor, I didn't hear

1 Mr. Kenerson's question. Was it received by Mr. Rehl, did
2 he say? Or sent by Mr. Rehl?

3 THE COURT: This was -- the question was about
4 whether he received it.

5 MS. HERNANDEZ: Thank you.

6 BY MR. KENERSON:

7 Q. Now, you mentioned that Telegram and most social media
8 sites don't necessarily include camera make and model. 403G
9 and 403H, what application were those associated with?

10 A. Those are from Telegram.

11 Q. And are those orphaned files like we were discussing?

12 A. They are.

13 MR. KENERSON: Ms. Rohde, can we play 403G,
14 please.

15 (Whereupon, Government's Exhibit No. 403G was
16 published in open court.)

17 BY MR. KENERSON:

18 Q. So was that video found on Mr. Rehl's device?

19 A. It was.

20 Q. Now, did you also have a chance to take a look at
21 information provided by Google in connection to an account
22 subscribed to by Joseph Biggs?

23 A. I did.

24 Q. How, for you, as a forensic examiner, does reviewing
25 that type of data differ from reviewing phone data or

1 computer data?

2 A. It's very much the same. It comes to us usually in a
3 container format, like a zip file. And inside there, just
4 depending on the type of return it is, it has some type of
5 file system structure to it. It could contain anything from
6 text files to phone backups. And so we generally treat it
7 with the same process we treat all of our digital
8 extractions.

9 Q. And did you also -- first, did that information provided
10 by Google include photos and videos?

11 A. It did.

12 Q. Did it also include metadata?

13 A. It did.

14 Q. Did you have a chance to create a chart that included
15 some of that metadata linked to the photos?

16 A. I did.

17 MR. KENERSON: Ms. Rohde, if we could have 1133,
18 please, just for the witness.

19 BY MR. KENERSON:

20 Q. And do you recognize 1133?

21 A. I do.

22 Q. What is that?

23 A. This -- when the Google return came back, each of these
24 images or movies had a file with it that contained the
25 metadata or EXIF data out of each of those files. And so

1 because they were all individually, I combined them onto one
2 sheet, and that's the sheet that you see here.

3 Q. And did you have a chance to look at the exhibits in
4 that chart? And I'll read them out: 404C, as in cat, 404F,
5 as in Frank, 404G, as in gamma, 404K, as in kilo, 404N, as
6 in Nancy, 404Q, 404V, as in Victor, 404W, 404X, 404Z, as in
7 zebra, 404DD, 404EE, 404LL, 404V, as in Victor, V, as in
8 Victor, 405I, 405M, as in Mary, 405N, as in Nancy, 405AA,
9 405BB, 405FF, and 405HH.

10 Did you have a chance to look at those exhibits?

11 A. I did.

12 Q. And did you have a chance to compare them to the data
13 provided by Google?

14 A. Yes.

15 Q. Do they appear to be fair and accurate representations
16 of the data provided to you by Google in connection with the
17 account subscribed by Mr. Biggs?

18 A. Yes.

19 MR. KENERSON: Your Honor, I'd move for the
20 admission of the exhibits I just read out.

21 MR. PATTIS: No objection on behalf of Mr. Biggs.

22 THE COURT: They will be admitted. And permission
23 to publish.

24 (Whereupon, Government's Exhibit Nos. 404C, 404F,
25 404G, 404K, 404N, 404Q, 404V, 404W, 404X, 404Z, 404DD,

1 404EE, 404LL, 404VV, 405I, 405M, 405N, 405AA, 405BB, 405FF,
2 and 405HH were entered into evidence.)

3 BY MR. KENERSON:

4 Q. And does this chart, 1133, fairly and accurately
5 represent the metadata provided by Google?

6 A. It does. Google provided the photo taken time in UTC,
7 and I did convert it to Eastern Standard Time for this
8 chart.

9 MR. KENERSON: I would move the admission of 1133
10 as well.

11 THE COURT: It will be admitted. And permission
12 to publish.

13 (Whereupon, Government's Exhibit No. 1133 was
14 entered into evidence.)

15 MR. KENERSON: Thank you.

16 BY MR. KENERSON:

17 Q. Examiner Cain, I'm going to ask you a couple of
18 questions like we asked with the data associated with
19 Mr. Rehl.

20 The first column, that's the court exhibit name
21 that we just read out. Is that right?

22 A. Correct.

23 Q. All right. The second column, Photo Title, what's the
24 source of that data?

25 A. That is the actual name of the file on the device -- or

1 in the Google return.

2 Q. Now, the Photo Taken Date/Time, what does that
3 represent?

4 A. That's the EXIF data for the time that that file was
5 created.

6 Q. And what about the EXIF latitude and EXIF longitude?
7 What was the source of that data?

8 A. This is also in the EXIF data, and it is embedded in the
9 actual photo itself.

10 Q. And just in a very broad sense, are you familiar with
11 generally what those latitudes and longitudes on there
12 correspond to?

13 A. Yes. Washington, D.C.

14 MR. KENERSON: And I'm going to ask Ms. Rohde to
15 play just a couple of those. If we could have 404F, please.

16 (Whereupon, Government's Exhibit No. 404F was
17 published in open court.)

18 MR. KENERSON: And if we could return to the chart
19 really quick, Ms. Rohde.

20 BY MR. KENERSON:

21 Q. 404F, what we just watched, what does the metadata
22 indicate in terms of the date and time of that?

23 A. January 6th, 2021, 12:55:54 p.m.

24 MR. KENERSON: Ms. Rohde, if we could have 404Z,
25 as in zebra.

1 (Whereupon, Government's Exhibit No. 404Z was
2 published in open court.)

3 MR. KENERSON: Thank you.

4 Ms. Rohde, if we could go back to the chart.

5 BY MR. KENERSON:

6 Q. 404Z, as in zebra, what was the date and time of --
7 associated with that exhibit?

8 A. January 6th, 2021, at 1:16:25 p.m.

9 Q. Now, these photos and videos that are represented in
10 this chart -- well, first of all, let me ask you, there's --
11 I have not yet asked you about the final column that is
12 labeled "is trashed." What does that represent?

13 A. These photos were deleted and in the trash bin.

14 Q. What's the source of that data?

15 A. The Google returns.

16 Q. And if a Google return lists "true" for "is trashed,"
17 what does that mean?

18 A. It means that the user deleted that file.

19 Q. Now, were these the only photos and videos in
20 Mr. Biggs's iCloud account from January 6th, 2021?

21 A. No, they were not.

22 Q. Approximately how many more were there?

23 A. Roughly 40 to 50.

24 Q. And about what percentage of those had "true" labeled
25 for "is trashed" in the Google return?

1 A. 100 percent.

2 Q. Thank you.

3 MR. KENERSON: I don't have any further questions,
4 your Honor.

5 THE COURT: All right. Cross-examination for
6 Mr. Nordean.

7 CROSS-EXAMINATION

8 BY MR. SMITH:

9 Q. Good morning, Ms. Cain.

10 A. Good morning.

11 Q. I just have a few questions about some of your testimony
12 on direct. I'm Nick Smith. I'm representing Ethan Nordean.

13 So you testified about how groups work in
14 Telegram, the Telegram application. Right?

15 A. I did.

16 Q. Okay. And you also testified about how users --
17 Telegram users gain access to those groups. Right?

18 A. Yes.

19 Q. Okay. And you testified about some of the digital
20 forensics tools that your team and you use to analyze
21 messages that were extracted from Telegram. Correct?

22 A. Yes.

23 Q. Okay. So let's assume that a Telegram user has been
24 admitted to a group and gains access to messages going
25 forward in that --

1 A. Okay.

2 Q. -- group.

3 The user can then open the window in the Telegram
4 application and look at messages that are being sent within
5 that group window. Is that sort of how that works?

6 A. Look at all the messages in that group chat?

7 Q. Yes.

8 A. Is that what you mean by window?

9 Q. Yes.

10 A. Then yes. Yes.

11 MR. SMITH: Ms. Rohde, would you help me bring up
12 Government Exhibit 1137? I would do that, but that's not
13 one that we have digitally. And not to play the videos, but
14 just to show the display for the chats.

15 Okay. Can we publish that to the jury,
16 Ms. Harris?

17 Thank you.

18 BY MR. SMITH:

19 Q. Ms. Cain, can you see the -- do you remember testifying
20 about this image on Telegram?

21 A. Yes, I do.

22 Q. Okay. So is this sort of -- does this look, appear --
23 if you were a Telegram user and you were admitted to a group
24 chat and you were to open that group chat and look at
25 messages, is this roughly how that would appear to a user in

1 the chat window?

2 A. It is. There are some settings. You can change the
3 colors. But this is how it would look, yes.

4 Q. Okay. So is this a group chat that we're looking at
5 right here?

6 A. It is.

7 Q. Okay. So in our hypothetical, let's say that a Telegram
8 user is admitted to this group chat. Okay?

9 A. Okay.

10 Q. And let's say we are the user right now looking at this
11 window. Okay?

12 The user would be able to scroll through these
13 messages going back and forth and look at all of them.

14 Right?

15 A. That's correct.

16 Q. But the tools that you've been discussing that allow you
17 to analyze these messages, those tools can't tell you when a
18 user has looked at any given message within this window.

19 Correct?

20 A. No. In the winter of 2021, Telegram did not do read
21 receipts for individual users in a group chat.

22 Q. And if I'm -- correct me if I'm mistaken, but did you
23 testify about read receipts on direct?

24 A. No, I did not.

25 Q. Okay. What is a read receipt?

1 A. When the user looks -- actually opens up and the phone
2 is recorded as digitally have -- seeing the message.

3 Q. And how does a read receipt display on this? How would
4 you know whether a user -- if you had access to a user's
5 phone and the user was admitted into a Telegram group, how
6 would you tell, from looking at their phone, that they've
7 read a particular message? What would be the visual item?

8 A. Well, in group messages in 2021, the read receipts were
9 for -- if any person in that one group had seen that
10 message, then a checkmark would appear. So if you look in
11 one of these -- any of these green bubbles in here, you can
12 see that there is a check-checkmark in the bottom right-hand
13 corner. That indicates that at least one group member has
14 received that. It does not indicate which group member or
15 how many group members. It just indicates that someone,
16 just one at least in the group, has seen it.

17 Q. Okay. Thank you for that. That was very helpful.

18 So let's -- I'm going to give you another
19 hypothetical here. I'm going to draw on the screen. So
20 let's say -- can you see that I've circled the user Captain
21 Trump, and there appears to be a message from them?

22 A. Well, this is a message from Mr. Bertino's account in
23 direct reply to Captain Trump.

24 Q. Sorry. I should have clarified that.

25 So this message I've circled in green, the user

1 here we're looking at from the perspective of is Bertino.

2 Is that correct?

3 A. That is correct. Yes.

4 Q. Okay. So if we're in the perspective of Bertino here,
5 can we -- you can see that Bertino in this message is
6 responding directly to one from Captain Trump. Correct?

7 A. That is correct.

8 Q. So we can make a fair inference that Bertino has seen
9 that message from Captain Trump, because he's responding to
10 it. You could make that inference.

11 A. Sure. Yes.

12 Q. It could be a mistake if someone is texting in
13 response -- if Bertino is texting to Captain Trump there, it
14 could be mistaken, but we can also make an inference that
15 Bertino has seen that message from Captain Trump because
16 he's responding directly to it. Correct?

17 A. Yes. He would have had to select that message in order
18 to reply directly to it.

19 Q. Okay. Now, let's take a slightly different -- let's ask
20 a slightly different question here. I'm circling a message
21 from someone else, someone -- it appears to be -- this
22 appears to be from a user called Aaron of the Bloody East.

23 A. That is correct.

24 Q. Okay. So that message I've circled was posted by Aaron
25 of the Bloody East, whoever that may be.

1 A. Yes.

2 Q. On this window, just taking this window as our universe,
3 we don't see that Bertino, the user, has responded to that
4 message. Correct?

5 A. No. That is Aaron of the Bloody East.

6 Q. Right.

7 A. So that is an incoming message.

8 Q. And we don't see that Bertino, the user of this chat, is
9 responding to that particular Aaron of the Bloody East
10 message. Correct?

11 A. That is correct.

12 Q. Okay. So with the technology as it stood in these
13 Telegram chats in this case, we don't know whether Bertino,
14 the user, viewed that message. Correct?

15 A. No. All we can show is that his device received it.

16 Q. Okay. And so I guess one might make an inference that
17 if Bertino -- let's remove that circle and let's draw
18 Bertino's message that we were -- I've drawn a circle around
19 Bertino's message again. You can see that Bertino's message
20 is immediately below, in physical space, the Aaron of the
21 Bloody East message. Correct?

22 A. Correct.

23 Q. So one might make an inference that the user there,
24 Bertino, has seen that message because it's directly above.
25 Correct?

1 A. You could. Yes.

2 Q. Yes.

3 So in your review of Telegram groups in this case,
4 is it fair to say that some of them have hundreds or
5 thousands of messages?

6 A. Across all their chats?

7 Q. Yes.

8 A. Yes.

9 Q. Okay. So the inference one might make about Bertino
10 seeing -- Bertino seeing a message that's directly above one
11 of Bertino's messages might not be the same kind of
12 inference you'd make about Bertino, the user here, seeing a
13 message that was, say -- let's say it was hundreds or
14 thousands of messages above that one. Correct?

15 A. I don't presume to know what he -- you know, how he
16 viewed his messages. I just know that the device received
17 them.

18 Q. Well, so -- you've qualified as an expert in digital
19 forensics and you've -- I think you said you've reviewed
20 thousands of --

21 A. I have. Yes.

22 Q. Okay. So I guess I'm asking you based on your
23 experience about -- are you familiar with the habits of
24 users in chat apps?

25 A. I am. Yes.

1 Q. Okay. So is it fair to say that the inference one might
2 draw about what Mr. Bertino, the user here, has seen is
3 different for a text that's immediately above -- a chat
4 that's immediately above where the user responds to a
5 message and a chat that's, say, hundreds of messages above
6 that -- a chat that the user has responded to? Do you
7 understand my question?

8 A. I believe so. Yes. I mean, because he is responding
9 directly to Captain Trump, I think it's safe to say that he
10 has definitely received that message.

11 Q. Okay. So let's say -- let's assume this were -- we're
12 in a group chat window here. Right? And let's say the
13 group chat had hundreds of messages in it, like some of
14 these. Okay?

15 A. Uh-huh.

16 Q. Then let's say there was a user who didn't send any
17 messages at all in the chat group. None. Would you make
18 an -- is there any tool that you have that allows you to say
19 that that person who's been admitted to a chat group but has
20 not sent any messages there -- is there any tool that allows
21 you to show that that user has seen anything in the chat
22 group?

23 A. No. I can just tell if the device has received them or
24 not.

25 Q. Okay. So you've testified about a few -- the names of a

1 few chat groups in this case that you've -- where you've
2 analyzed the Telegram data. Right?

3 A. Correct.

4 Q. The original MOSD group was one of those?

5 A. There is -- I don't believe the title was original MOSD.
6 There was one --

7 Q. Ministry of Self-Defense?

8 A. Yes. There was one called Ministry of Self-Defense.

9 Q. And I think -- have -- have you been characterizing this
10 as maybe the first Ministry of Self-Defense group or the
11 original Ministry of Self-Defense group?

12 A. Yes. There are, in fact, two groups with that name.
13 And there was one that was created first. Yes.

14 Q. And the second one was what you were characterizing as a
15 super group?

16 A. That is correct.

17 Q. Okay. So those are two groups we have there, the first
18 MOS -- Ministry of Self-Defense, or MOSD, group, and then
19 the super group. Correct?

20 A. Yes.

21 Q. Did you also testify about a chat group called the MOSD
22 op group -- O-P, for operations, I guess?

23 A. Yes.

24 Q. So did there come a time when you had conversations with
25 the prosecutors about whether particular Defendants in this

1 case had communicated in those chat groups?

2 A. Yes. I looked for membership in those groups.

3 Q. And you looked for membership by particular Defendants
4 to see whether they were involved in these groups?

5 A. Yes.

6 Q. Okay. So isn't it the case that you advised the
7 Government that Mr. Nordean was not involved in any of --
8 did not send messages in any of those three groups I've just
9 listed?

10 MR. KENERSON: Objection to what she advised.

11 THE COURT: Sustained.

12 BY MR. SMITH:

13 Q. Did there come a time when you learned that Mr. Nordean
14 did not send messages in those three groups I just
15 mentioned -- and to recall your memory, the original MOSD
16 group, the super group and the MOSD op group?

17 A. I believe he did not contribute actual messages to the
18 MOSD op group. However, I believe he contributed messages
19 to the others.

20 Q. Can you recall any of those messages?

21 A. Not off the top of my head, no.

22 Q. Okay. Do you know whether -- has the Government made an
23 inquiry with you about any of those messages that
24 Mr. Nordean apparently sent in the other two groups?

25 A. Not specifically. I know that I have --

1 Q. Do you recall seeing any of them?

2 A. I do recall seeing some of them. Yes.

3 Q. And what were those?

4 A. I don't remember the content, but I know there were
5 quite a few in the Ministry of Self-Defense larger group.

6 Q. So if I told you that the Government has conceded in
7 this case Mr. Nordean did not send any messages in that
8 group, you would say they're mistaken about that?

9 MR. KENERSON: Objection. Vague. Which group?

10 THE COURT: Sustained as to vagueness.

11 BY MR. SMITH:

12 Q. So if I were to inform you that the Government has taken
13 the position that the original MOSD group -- in the original
14 MOSD group and the super group, Mr. Nordean has not sent any
15 messages, you would say that's inconsistent with your
16 memory?

17 MR. KENERSON: Again, objection. Vague. Which
18 group?

19 THE COURT: Overruled.

20 THE WITNESS: I know that -- I know he has sent
21 messages in one of the Ministry of Self-Defense groups. I
22 am not sure whether it was the smaller one or the larger
23 one. I know he did not contribute messages to the Ministry
24 of Self-Defense op group.

25

1 BY MR. SMITH:

2 Q. Okay. So let's -- let's cover Telegram handles. I
3 don't know if that was the term you used, handle or nickname
4 or -- so what I'm referring to is people will -- users in
5 Telegram will use pseudonyms to identify themselves
6 sometimes. Correct?

7 A. Usernames. Correct.

8 Q. Username. And the username is not -- sometimes is not
9 the same as the legal name of the user. Right?

10 A. That is correct.

11 Q. Okay. So just for an example, your name is Kate Cain.
12 You could appear in Telegram as something other than Kate
13 Cain?

14 A. Correct.

15 Q. Okay. So there's no -- you testified about an
16 identification number that each user has, like a -- kind of
17 like a snowflake, has a unique fingerprint for each user.
18 Correct?

19 A. That is correct. Yes.

20 Q. Okay. But there's no way in the application for a user
21 to look behind the Telegram name and the identification
22 number and find the legal name of a user. Is that right?

23 A. No, not the legal name. Not unless they chose to
24 provide it.

25 Q. Okay. So it would be possible for individuals to

1 communicate on Telegram without having any way to determine
2 who that person is -- what the legal name of that person is.
3 Correct?

4 A. Well, you are required to register your Telegram account
5 with a phone number. And so we can use that as attributable
6 to a certain person because you must verify -- when you
7 create the Telegram app, it sends you a text message
8 verification. So we do know the phone number associated
9 with most Telegram accounts. Yes.

10 Q. Thank you. So that is very informative.

11 But I was asking about someone who's not law
12 enforcement. So when you say "we" -- you know, you have
13 access to certain data because you have search warrants and
14 grand jury subpoenas. I'm asking about somebody who's a
15 civilian user.

16 Say you and I are both civilian users of Telegram.
17 Okay?

18 A. Yes.

19 Q. And we're not using our legal names when we communicate
20 with each other.

21 A. Okay.

22 Q. Okay? And there is no way in the Telegram application
23 for me, a civilian user, who does not have search warrants
24 and grand jury subpoenas -- there's no way for me to look
25 behind your Telegram name and find that you are Kate Cain.

1 Correct?

2 A. You can choose to expose the phone number or have it
3 hidden. So --

4 Q. You could choose -- so a user can choose --

5 A. The user chooses.

6 Q. A user can also choose not to reveal their phone number
7 and their legal name. Correct?

8 A. Correct.

9 Q. And if you and I are communicating on Telegram and we
10 choose not to use our legal names and our phone numbers,
11 there would be no way for me to know who I'm talking to in
12 the real world. Correct?

13 A. Correct.

14 Q. Okay. So if you and I are communicating in Telegram and
15 we've chosen not to use our real names, if I was using the
16 name Captain Trump and you were using Sergeant Trump, for
17 example, okay, I can't be sure it's you and I who are
18 speaking unless we communicate outside of Telegram using
19 another medium, like the telephone, for example. Right?

20 A. Sure.

21 Q. Okay. So -- are you familiar with what chatbots are?

22 A. In what context?

23 Q. In the context of social media use.

24 A. Somewhat familiar.

25 Q. What are they?

1 A. You can have, essentially, artificial intelligence
2 create posts and create content. I mean, I'm just vaguely
3 familiar with them.

4 Q. Are they algorithms that allow -- are they algorithms
5 that mimic human speech --

6 A. Yes. That's fair --

7 Q. -- that are not controlled by humans?

8 A. That's fair to say. Yes.

9 Q. Okay. And you testified that you're an expert in social
10 media use. Correct?

11 A. In digital forensics behind social media applications.
12 Yes.

13 Q. And have you -- in the thousands of phones and computers
14 that you've conducted forensics on, have you familiarized
15 yourself with social media use on those devices?

16 A. Yes.

17 Q. Okay. So is it fair to say that chatbots are a
18 relatively prevalent phenomenon on social media?

19 A. They are used. Their uses are limited these days, as
20 most social media blocks the ability to use them nowadays.

21 Q. Does Telegram?

22 A. It does, as of this fall. Yes.

23 Q. This fall?

24 A. Yeah.

25 Q. But it wasn't at the time?

1 A. No. Not at the time.

2 Q. Okay. You testified about Telegram encryption. Right?

3 A. I did.

4 Q. Okay. So other -- that -- explain what -- did you
5 testify that the users in Telegram chat groups are
6 communicating through an end-to-end encryption system?

7 A. No, I did not.

8 Q. What did you testify about encryption?

9 A. Telegram, by default, uses encryption anytime the
10 message is in transit. And we consider it a client side to
11 a user side encryption, meaning you create a message on your
12 device. It is sent to the Telegram server. And while it is
13 being sent to the Telegram server, it is encrypted. And
14 then once the Telegram server delivers that message, as it's
15 being sent to the recipient, it is also encrypted. So
16 anytime that message is in transit, it is encrypted and
17 locked with those keys and cannot be accessed with anyone
18 without those keys.

19 Q. So there were a wide range of commercially available
20 chat applications that feature encryption. Correct?

21 A. There are. Yes.

22 Q. Like WhatsApp is one?

23 A. Yes.

24 Q. Signal?

25 A. Yes.

1 Q. Telegram is another?

2 A. Yes.

3 Q. So -- you said you're familiar with these applications.
4 Right?

5 A. I am.

6 Q. So you're familiar that billions of users around the
7 world use encrypted chat apps to communicate?

8 A. Yes.

9 Q. Okay. So it's not intrinsically a proof of criminal
10 activity if individuals are speaking through a chat app
11 that's encrypted?

12 A. No.

13 Q. I think you testified that you yourself use Telegram,
14 perhaps?

15 A. Yes.

16 Q. Okay. So you testified about -- what are some of the
17 tools from the toolbox you used to analyze the messages
18 from?

19 A. We have a variety of in-house tools and commercial tools
20 available to us. I think the ones we spoke about earlier
21 was Cellebrite's Physical Analyzer.

22 Q. And you used the tool Cellebrite here to manage your
23 extraction of Telegram devices. Right?

24 A. Some of them.

25 Q. But you didn't use -- would you say the vast majority of

1 them?

2 A. Yes. I would say.

3 Q. Okay. But Cellebrite is actually not equipped to handle
4 extracting Telegram messages, is it?

5 A. No, that's not correct.

6 Q. That's not correct?

7 A. No.

8 Q. Have you ever taken the position with the Government
9 that it was not adequate for extracting Telegram messages in
10 this case?

11 A. I have taken the position that it was not adequate for a
12 programming project, that -- we had a team developing an
13 in-house commercial tool to parse Telegram messages, and
14 they wanted to build it based off of Cellebrite's platform,
15 and I said that that was not an appropriate use of the tool.

16 Q. Okay. And have you taken the position in this case that
17 using Cellebrite to extract Telegram messages gets you wonky
18 message extraction?

19 A. Up until a certain point -- I believe 7.38 -- was
20 that it gave some wonky messages. Everything used here in
21 this case today was 7.42 and above. So those messages are
22 accurate.

23 Q. Can you explain what you mean by -- what's that
24 distinction about?

25 A. Sorry. That's a version distinction. So we are

1 currently on Cellebrite .60. So that's, you know, a range
2 of about 22 different versions over the last two years.

3 You know, as -- there are 4 billion apps in the --
4 or 4 million apps in the Google store and 3 million apps in
5 the Apple store, and so our tools don't parse all of them.
6 You know, they -- our commercial tools focus on what is
7 relevant to the digital forensics community, what is
8 relevant to the casework of the people buying their product.

9 And so early on, in those earlier versions, you
10 know, as Telegram was just being used and just being parsed
11 by the digital forensic community, there were some limiting
12 capabilities. Sure.

13 Q. So --

14 A. But every release adds new functionality.

15 Q. So did there come a time when you took that position
16 that Cellebrite would get you wonky Telegram messages with
17 respect to the prosecutors in this case? Did you inform
18 them of that?

19 A. With respect to this case?

20 Q. Yes.

21 A. No. To our programming team, who is developing a
22 solution, I told them they should not base their solution on
23 an old version of Cellebrite.

24 Q. Okay. And how are you sure that the current version of
25 Cellebrite is any different from -- has resolved the

1 problems that you identified yourself with wonky message
2 extraction on Telegram?

3 A. I provide -- I do testing and validation on all of my
4 tools, and pretty much every version I use undergoes some
5 type of testing and validation by both my unit and
6 personally by myself.

7 Q. So it's not the case that you have taken the position
8 that Cellebrite itself, just Cellebrite period, not a
9 specific version, is the very worst tool for extracting
10 Telegram messages? You've never taken that position?

11 A. I told that to our programming team when they were
12 writing a solution. Yes. I told them they should not use
13 that particular version of Cellebrite to parse those
14 messages in a tool that they were currently building, that
15 there were others ways to build the tool more effectively.
16 Yes.

17 Q. Okay. So your position is that you were not -- your
18 position before was not that Cellebrite, period, is
19 ineffective at extracting Telegram messages?

20 A. No. Not at all.

21 Q. Okay. So --

22 MR. SMITH: Your Honor, I'm going to bring up an
23 email from Ms. Cain on February 9th, 2022. This is
24 impeachment material.

25 MR. KENERSON: Objection. Can we go to the

1 phones?

2 (Whereupon, the following proceedings were had at
3 sidebar outside the presence of the jury:)

4 THE COURT: Let's just do this. It would be
5 helpful for me to see the document while we're having this
6 discussion, but we don't want to bring it up for the
7 witness.

8 MR. SMITH: I can proffer for your Honor that --
9 she took the position that she formally advised the
10 Government that it was a specific version of Cellebrite that
11 would produce wonky Telegram extraction. And the email says
12 Cellebrite, period, produces wonky Telegram extractions.

13 THE COURT: Mr. Kenerson?

14 MR. KENERSON: I think she's already -- I don't
15 think that there is anything inconsistent with her testimony
16 there. I mean, the Court can see the email. But I think
17 her testimony has been, yes, I said those things. That's
18 what was in the process. I don't think there's anything
19 inconsistent to impeach her with at this point.

20 MR. SMITH: Your Honor, the inconsistency is she
21 just -- we went through a colloquy several times where I
22 asked her, Is it Cellebrite itself that produces wonky
23 extractions or is it a particular version? The witness
24 said, a particular version.

25 The inconsistency is, in this statement she made,

1 it's Cellebrite, period.

2 THE COURT: I think -- look, again, if you give
3 her a chance -- I think it's at least arguable it's
4 inconsistent. The witness has to be given the opportunity,
5 though, to explain the statement. When it comes -- and
6 we've sort of tabled the question of whether these things
7 come into evidence.

8 But I think Mr. -- and to be clear, when you say,
9 "taken the position," the impeachment is about prior
10 statements, not prior positions. The witness has --

11 MR. SMITH: This is a prior statement. Thank you,
12 your Honor.

13 And, your Honor, under the D.C. Circuit precedent,
14 we're entitled to publish it to the jury under 613(b),
15 because this is -- the best evidence, the D.C. Circuit has
16 held, of an inconsistent statement is the statement itself.

17 THE COURT: I'm not sure there is an
18 inconsistency. You can show it to her and ask her about it.

19 MR. SMITH: That's all we're asking for.

20 MR. KENERSON: On the question of what can be
21 published to the jury, I think to the extent that there is
22 an inconsistent statement, this is just that statement.
23 It's not the entire email and not the entirety of her -- I
24 think it needs to be redacted if it's going to be shown to
25 the jury.

1 THE COURT: That's fair. That's a fair point.
2 Isn't it?

3 MR. SMITH: Your Honor, we will draw a line above
4 the irrelevant and immaterial information that has no
5 bearing on this case earlier in the email. But, your Honor,
6 the jury has to have some context. If I redact everything
7 except the word "Cellebrite," then the jury won't see what
8 the statement is.

9 THE COURT: Obviously. But I mean, if we're going
10 to put up -- it's a fair request from the Government. I
11 want you to show it to Mr. Kenerson before we continue so at
12 least we can have -- we don't waste more time with this
13 redaction issue.

14 MR. SMITH: Okay, your Honor.

15 THE COURT: Thank you.

16 Mr. Smith, the other thing we could do -- I know
17 you've set up the impeachment. If you have more to do --
18 we're coming up on a break. If you want to, we can circle
19 back during the break and do your redaction cleanly when we
20 come back.

21 MR. SMITH: That works, your Honor. Thank you.

22 (Whereupon, the following proceedings were had in
23 open court:)

24 BY MR. SMITH:

25 Q. So apologies for that.

1 MR. SMITH: Your Honor, how many minutes before --

2 THE COURT: I think we're about ten or 15 minutes
3 away from a break for the court reporter.

4 BY MR. SMITH:

5 Q. Ms. Cain, I'll come back to that question after a break.

6 So you testified about the means by which a user
7 can delete, who within that chat group can delete messages.
8 You testified about the potential ways that could occur.
9 Right?

10 A. Yes.

11 Q. Okay. And you said that one way that can happen is when
12 the user deletes their own message. Correct?

13 A. Correct.

14 Q. Okay. And you testified that in the case of -- there
15 might be a distinction when it comes to administrators,
16 group chat administrators, deleting messages between super
17 groups and smaller groups. Correct?

18 A. That is correct.

19 Q. And I think you testified that in the case of a super
20 group, which has a certain number of members in it, an
21 administrator of a chat can delete any message they choose
22 to delete within that group. Correct?

23 A. They can. Yes.

24 Q. But you testified that when it comes to groups that are
25 not super groups, a smaller number -- that the administrator

1 of the chat cannot delete messages. Right?

2 A. That is correct.

3 Q. That's not correct. Right? So --

4 A. No, that is correct. As of the winter of 2021,
5 administrators of a small group cannot delete messages for
6 the entire group that they did not author.

7 Q. So it -- how do you know that? Is that -- well, scratch
8 that. Let me rephrase the question.

9 Have you reviewed Telegram user protocols and
10 instructions from the Telegram company?

11 A. I have.

12 Q. And don't they indicate that at any time, both in the
13 winter of 2021 and the present, that a user -- that an
14 administrator of a chat group of any size can always delete
15 messages?

16 A. They can always delete their own messages and delete for
17 everyone.

18 Q. Don't those -- don't those Telegram instructions
19 indicate that they can always delete anyone's message?

20 A. No, they do not.

21 Q. Okay.

22 MR. SMITH: Your Honor, I think we would want to
23 use that impeachment material now.

24 THE COURT: All right. Let's just take our break
25 just a few minutes early.

1 Ladies and gentlemen, we're going to take a quick
2 break for the court reporter's sake. Ten minutes. We'll
3 come back and pick up the cross-examination then.

4 (Whereupon, the jury exited the courtroom at 10:42
5 a.m. and the following proceedings were had:)

6 (Thereupon a recess was taken, after which the
7 following proceedings were had:)

8 THE COURTROOM DEPUTY: Jury panel.

9 (Whereupon, the jury entered the courtroom at
10 10:58 a.m. and the following proceedings were had:)

11 THE COURTROOM DEPUTY: We're back on the record on
12 Criminal Matter 21-175, the United States of America versus
13 Ethan Nordean, et al.

14 MR. SMITH: Your Honor, just an update. We have
15 an agreement with the Government on the proper redactions.
16 It looks like there's a crayon on the page, but...

17 THE COURT: Very well.

18 (The witness retakes the witness stand.)

19 MR. SMITH: Permission to publish the redacted
20 email on the jury screen?

21 THE COURTROOM DEPUTY: Do you have an exhibit
22 number?

23 MR. SMITH: It's called impeachment material. The
24 judge has indicated that these are not --

25 THE COURT: Well, let's identify it by a number.

1 MR. SMITH: We can identify it as Nordean Exhibit
2 No. 4.

3 THE COURT: All right.

4 THE COURTROOM DEPUTY: Exhibit 4.

5 Permission to publish?

6 THE COURT: Yes. Permission to publish is
7 granted.

8 BY MR. SMITH:

9 Q. Ms. Cain, I'm sorry for how this looks, but do -- you
10 see this appears to be an email with some green redactions.
11 Right?

12 A. It is. Yes.

13 Q. And do you see that the "from" line says from Jennifer
14 Katherine Cain?

15 A. I do.

16 Q. And it says: Sent Wednesday, February 9th, 2022?

17 A. I do.

18 Q. Okay. Now, there's a couple of points I would like to
19 direct your attention to here.

20 In the middle paragraph, the second paragraph --
21 I've drawn a yellow line next to it. And you appear to be
22 referencing parsing Telegram extractions through Cellebrite.
23 And you indicate here that, "I don't have any other cases on
24 your list, but I can pretty much say with certainty that
25 they will be missing or have wonky Telegram data as well if

1 you relied solely on Cellebrite to parse it."

2 Then I would direct your attention to the last
3 sentence in the next paragraph, with the yellow line next to
4 it, where you say, "However, the issue is that Cellebrite
5 simply cannot handle Telegram the way that some of our other
6 tools can. It's the very worst, actually."

7 So you testified that there was a particular
8 Cellebrite version that had created a wonky or missing
9 Telegram extraction?

10 A. I did.

11 Q. Here, it appears you're saying, "The issue is that
12 Cellebrite cannot handle Telegram the way some of our other
13 tools can. It's the very worst, actually."

14 A. Yes.

15 Q. Would you like to explain?

16 A. Sure. This is an email I wrote to our programming team,
17 who I had been working with for the better part of a year.
18 They were trying to create a custom solution to parse
19 Telegram. The version that we were working with, since we
20 had been working on it for over a year, was 7.38. That did
21 parse Telegram -- what I consider wonky. And the way I
22 determined that is the effectiveness for my case agent to be
23 able to go in there as a nontechnical person and review that
24 data.

25 So the way -- for instance, the way they parsed it

1 at the time was they did not parse the group name; they only
2 parsed the group identifier.

3 And as this case has heavily relied on the names
4 of these Telegram groups, it's not attractive for me to
5 present a solution -- to present a report to my case agents
6 in my investigative review by saying, this is group No.
7 4097987677. You know, they like to see, this is group
8 Ministry of Defense.

9 And so those earlier versions, while technically
10 not incorrect -- all the messages were there, the dates and
11 times were correct, the sender, whether it was incoming or
12 outgoing, was correct, the content of the message itself was
13 correct, the attachment was correct -- none of that was in
14 question.

15 What was in question was the fact that it wasn't
16 optimally suited for a non-technical person to review that
17 data. For instance, I'd love to see it separate into a
18 section called private chats and then for the user to be
19 able to go down and see a section called groups, and then
20 maybe super groups, and then channels. I like to see a
21 division. I like to lay it out very easy for the
22 investigative team. That is my job, is to take
23 hard-to-understand technical data and present it in a way
24 that is very easy for a non-technical person to understand.

25 The way that Cellebrite parsed it back in 7.38 is

1 not the easiest way for a non-technical person to read that
2 data. So I did not think that we should develop a tool that
3 was not only going to be used on this case, but future
4 cases, based on an output that I just couldn't hand to my
5 case agents and let them run with it.

6 So this was to that programming team. We actually
7 came up with other solutions --

8 MR. JAUREGUI: Your Honor, objection. Narrative.

9 THE COURT: Overruled. The witness can complete
10 her answer.

11 THE WITNESS: So when I came to this case and this
12 came up as a question, I took all of the Cellebrite reports
13 that correspond to the devices that were used in this case
14 and I simply validated them all. I opened them all up. I
15 reran them in a multitude of different programs, including
16 parsing the database myself in some instances. I compared
17 the data that Cellebrite was parsing back to the actual
18 device and the way it was displaying in the Telegram app
19 itself on that actual device.

20 And I came up with the -- just that all of the
21 data was technically correct, and that the only thing that,
22 you know, from a forensic standpoint that I wanted to do was
23 add those group names in.

24 So what I ended up doing is, because they parse it
25 in Cellebrite and it only showed the group number, I created

1 a master list of all of the group IDs and their
2 corresponding group names, and I turned that over to the
3 case agents so they were able to review all of their data in
4 the best way and easiest way possible.

5 BY MR. SMITH:

6 Q. Thank you.

7 So I have one final question for you. You
8 indicated that the version of Cellebrite that you're
9 testifying today that was problematic with respect to
10 Telegram extraction, that was 7.38, you said. Right?

11 A. Yes, it was.

12 Q. Okay. Do you see the first line in your email right
13 there? It says, "I can rerun it through Cellebrite. I've
14 been working with Cellebrite's programming team to fix the
15 portions of Telegram, so some fixes have gone through as the
16 7.52 version."

17 You appear to be referring to the later version
18 right there. Right? 7.52?

19 A. In this email for the changes that we had talked about.

20 Q. Yes. And then, several sentences below, after having
21 obtained 7.52, that version, nevertheless, you say, "The
22 issue is that Cellebrite simply cannot handle Telegram the
23 way that some of our other tools can. It's the very worst,
24 actually."

25 So you made that statement after receiving 7.52.

1 Right?

2 A. Well, after I said, "So some fixes have gone through as
3 of 7.52," the next sentence says, "I can run it in 7.52,"
4 which has been redacted. So I had not actually run it in
5 7.52.

6 Q. Just so you understand, the Government asked me to
7 redact that.

8 A. I understand.

9 Q. Okay.

10 MR. SMITH: Thank you for your testimony. Thanks.

11 THE COURT: Counsel for Mr. Biggs.

12 CROSS-EXAMINATION

13 BY MR. PATTIS:

14 Q. I'll be very brief, ma'am.

15 My name is Norman Pattis. Dan Hull and I
16 represent Joe Biggs. How are you?

17 A. Well. Thank you.

18 Q. You graduated University of South Florida in 2017.

19 Correct?

20 A. Yes, sir. For my master's.

21 Q. University of North Carolina, 2003. Correct?

22 A. Yes, sir.

23 Q. Tell us about your first job, your internship with the
24 Disney World Company.

25 A. Out of college, I took an internship in the hospitality

1 industry with Walt Disney World. I worked in a variety of
2 hotels down there in recreation.

3 Q. Were you giving people tours, like where they could meet
4 Mickey, Goofy, Mary Poppins?

5 A. I did not, no.

6 Q. Okay. Because, as you testified -- the way you look at
7 the jury and testify, I sort of feel like I'm on one of
8 those intern tours when you go to Disney World.

9 A. I wish. But no.

10 Q. Me, too. Bye.

11 MR. PATTIS: Nothing further.

12 THE COURT: Counsel for Mr. Rehl.

13 CROSS-EXAMINATION

14 BY MS. HERNANDEZ:

15 Q. Good morning.

16 A. Good morning.

17 Q. My name is Carmen Hernandez and I represent Zachary
18 Rehl. You know his name --

19 THE COURT: Use the microphone, please.

20 MS. HERNANDEZ: I need a lavalier.

21 BY MS. HERNANDEZ:

22 Q. I'm going to ask you a number of questions. I'll
23 stipulate that you know more about technology than I do.
24 Let's start there.

25 A. Okay.

1 Q. Let me show you --

2 MS. HERNANDEZ: Ms. Rohde, could you pull up
3 Government's Demonstrative Exhibit -- I think it's 1131.

4 BY MS. HERNANDEZ:

5 Q. I'm going to show you the Government's demonstrative
6 exhibits. I believe they're 1131 or 32. Ms. Rohde is
7 pulling it up for us.

8 MS. HERNANDEZ: You can just do one of the later
9 ones -- the one that has all the info on it.

10 BY MS. HERNANDEZ:

11 Q. So I want to start there. And this is supposed to
12 demonstrate what happens when you -- you got a phone. You
13 extracted -- or someone extracted the information from the
14 phone. That's the second column. Is that correct?

15 A. Yes, ma'am.

16 Q. And when we say extracted the information from the
17 phone, it's literally this little device takes the
18 information that is on the phone and -- does it download it
19 into, like, this hard drive or something?

20 A. It creates a containerized file, either an extraction or
21 a binary file. And we just save it to another location. So
22 that just represents just a location that we have saved that
23 copy to.

24 Q. Okay. And in theory, it's supposed to have all the
25 information that was on the phone that you extracted?

1 A. Depending on the type of extraction that we get, it
2 could differ from device to device. Yes.

3 Q. Okay. And does that mean you can extract only certain
4 information, if that's the only information you're looking
5 for?

6 A. When we do an extraction, whatever is available for that
7 type of extraction, we would get it all.

8 Q. All of it?

9 A. Yes.

10 Q. Okay. And then there's this next column, which is
11 supposed to represent, I guess, some messaging on -- is this
12 the way it would look on Telegram?

13 A. Well, we've used the common iPhone green bubble/blue
14 bubbles here. It doesn't necessarily look exactly like
15 that. We've obviously left out date stamps and message ID
16 numbers. But -- it's just a visual, yes.

17 Q. But it's a visual -- so this visual, this type of
18 visual -- I understand it's missing dates and names and
19 whatever -- is this what you would find on the phone itself
20 or is this what you would find once you extracted it?

21 A. When we extract the phone, we get the data from each
22 application. Most commonly, these are stored in databases.

23 Q. So that means you would get, like -- words like "hello"
24 and "hi," but the extraction doesn't show these little
25 bubbles. Is that correct?

1 A. The extraction would not show the bubbles. No.

2 Q. Okay. But if, instead of the extraction, if you were --
3 let me back up one other question.

4 Although -- you've extracted phone information.
5 Correct?

6 A. Yes.

7 Q. And one of the phones you extracted was Mr. Rehl's
8 phone. Correct?

9 A. Yes, ma'am.

10 Q. You still have the phone?

11 A. I don't personally have the phone.

12 Q. Okay. The Government -- someone still has the phone.
13 Someone --

14 A. I assume so, yes.

15 Q. -- over here still has the phone?

16 A. I assume so, yes.

17 Q. If I or if you were provided that phone and you
18 opened -- would you be able to open a Telegram chat?

19 A. Possibly, yes. It depends on a couple of factors.

20 Q. Okay. And if you open that Telegram chat on the phone,
21 would it appear as -- in this third column?

22 A. Well, this is a representation. But a chat would appear
23 with -- you know, visually similar to this.

24 Q. Okay. So visually similar to this. And we've all
25 agreed that it would have words in these bubbles and maybe a

1 date and the name of the person?

2 A. Yes.

3 Q. But the information that you've extracted -- so the
4 phone would give you a representation that is much more
5 similar to this chat ID, third column. Is that correct?

6 A. That is correct.

7 Q. Whereas the information you extract -- and I'm not
8 suggesting you're doing anything wrong -- it's just that's
9 the way technology works. When you extract, you're just
10 extracting the words.

11 A. We get all of the raw data. So we get much more than
12 you see on the device itself or represented in these chat
13 bubbles.

14 Q. And this particular demonstrative appeared to be a
15 conversation maybe between two people?

16 A. Yes.

17 Q. And this would -- if this were all you were dealing
18 with, this would allow you to say -- let's say this were
19 Mr. Rehl's phone. Would Mr. Rehl be in green?

20 A. No. He probably would be in blue, because the outgoing
21 messages are usually on the right-hand side.

22 Q. Okay. So if this were, for example, a chat between
23 Mr. Rehl and his wife, for example, then you would be able
24 to see Mrs. Rehl and Mr. Rehl and you would be able to
25 clearly say they were having a conversation between the two?

1 A. Uh-huh.

2 THE COURT REPORTER: Is that yes?

3 THE WITNESS: Yes, ma'am. Sorry.

4 BY MS. HERNANDEZ:

5 Q. Now, obviously, you've talked about these chat groups
6 that you have in this. And these chat groups can contain --
7 what's the outer number that some of these chat groups
8 you've looked at in this case? How many people?

9 A. I think just above 100.

10 Q. Okay. So in a chat that contained 100 people, the raw
11 data that you got obviously would not be -- but you would
12 have a large amount of raw data?

13 A. We do. Yes.

14 Q. And you wouldn't be able to identify in the same way as
15 you can with two people who they're talking -- that they're
16 talking to each other. Correct?

17 A. We would see the chat. It would be that this message
18 belongs in this particular chat group.

19 Q. But you would not be able -- let me break that up into
20 two boxes.

21 In your raw data extraction, you would know that
22 there's 100 people in this chat. Correct?

23 A. Yes, ma'am.

24 Q. This is an example. At any one time, all or some of
25 those 100 people would be posting?

1 A. Yes, ma'am.

2 Q. But you would not necessarily know whether they were
3 responding to each other. Is that correct?

4 A. If a message was in direct reply to another message? Is
5 that what you're asking?

6 Q. Yes.

7 A. We can get that information out of the database.

8 Q. Sometimes?

9 A. Yes.

10 Q. So in other words, if I -- if the message was, "What
11 time is it," and the very next message said, "It's 3:43" --

12 A. Yes, ma'am.

13 Q. -- you could infer that the 3:43 is a response to "What
14 time is it?"

15 A. That would be logical. Yes.

16 Q. Okay. But some of these messaging threads -- is that
17 the right terminology?

18 A. Sure. Yeah. That works.

19 Q. Some of these messaging threads aren't so clear that
20 it's a direct response. Would you agree?

21 A. In the chat database?

22 Q. Yes.

23 A. There is a column that tracks if a message is in direct
24 reply to another message.

25 Q. Okay. Let's talk about that.

1 When you say there is -- I'm sorry. There is a
2 what that tracks it?

3 A. The database tracks it.

4 Q. You said there is something that tracks whether it's a
5 direct response.

6 A. Yes. Potentially there's a table with a record.

7 Q. And would that be -- would I need the phone to see if
8 it's a direct response?

9 A. We could see that in the database.

10 Q. You could see that in the database?

11 A. Yes, ma'am.

12 Q. You could see that in Cellebrite?

13 A. Not earlier versions. That is a functionality that they
14 added this past year in one of their releases. Yes.

15 Q. So do you know whether you've reextracted Mr. Rehl's
16 phone using this new database?

17 A. We did not -- well, we don't -- it's not reextracting.
18 It would be reprocessing that extraction. We would still
19 work off of that original copy of the device.

20 Q. So as to Mr. Rehl's phone, do you know whether you
21 reprocessed it with this new upgraded format?

22 A. No, we did not. I believe it came out in November or
23 December past, when we had made all of our final exhibits
24 for this.

25 Q. So today, you could go back and reprocess -- tell me if

1 this is true. Today, if you wanted to go back and
2 reprocess, you could reprocess the information from
3 Mr. Rehl's data and actually see which messages he responded
4 to or which he didn't respond to?

5 A. Well, it wouldn't be -- it would be if the user directly
6 replied, took the action of selecting a message and then
7 replying directly to that message.

8 Q. Okay.

9 A. Yes.

10 Q. So maybe you can -- before I go on, so let me -- so the
11 program that you used, or the model number or however you
12 want to define it, you used when you extracted Mr. Rehl's
13 phone on Cellebrite did not have this function that you're
14 describing for the jury today?

15 A. At the time, no. None of our forensic tools did.

16 Q. So the information that we -- and the Cellebrite
17 extraction that you did, I believe you know was provided to
18 the defense. Correct?

19 A. Yes, ma'am.

20 Q. Okay. So the Cellebrite extraction that we have -- we,
21 the defense counsel and Mr. Rehl -- does not contain this
22 new function that you're describing today. Correct?

23 A. I do not believe it does. No.

24 Q. So what we have doesn't -- what we have -- and I believe
25 it's what the Government has, what the prosecutors have

1 also -- does not let us determine whether any particular
2 person was responding to another person. Correct?

3 A. In direct response, no.

4 Q. It doesn't. But today, you have the -- is it the
5 technology to actually determine that?

6 A. I believe so. I believe one of the Cellebrite releases
7 that came out at the very end of last year, either November
8 or December, I believe they added that capability in.

9 Q. Okay. So using the old system, which is the one we're
10 all working on, if you have a large chat with a lot of
11 people, the only way you could tell, from the Cellebrite
12 extraction, whether the responses were directly to another
13 person or not is, would you say, by inference?

14 A. Yes. That's accurate.

15 Q. And again, by inference, the example, "What time is it,"
16 says one person, and the next person, seconds later says,
17 "It's 4:36 p.m."?

18 A. Yes, ma'am.

19 Q. And so that would be inference that he's responding to
20 that?

21 A. Yes, ma'am.

22 Q. But under the old system, which is what we have, unless
23 you can draw that inference, the answer could be to what
24 someone posted two weeks ago. Correct?

25 A. Yes, ma'am.

1 Q. Or could be just an idle comment that isn't even related
2 to anything previously posted?

3 A. We just wouldn't be able to tell.

4 Q. You couldn't tell. Okay.

5 So if I get a string of messages one right after
6 the other that were posted all on the same day, that still
7 wouldn't be able to tell you whether they were responses to
8 each other under the system that -- under the extraction
9 that you've provided to us?

10 A. Correct.

11 Q. Okay. Thank you.

12 So let me -- before I go on, Telegram is -- there
13 are millions of users in the United States and in the world
14 who use Telegram. Is that correct?

15 A. I believe so. Yes.

16 Q. It's not -- did I hear you say that you have Telegram
17 also?

18 A. Yes, ma'am. I test all of our applications.

19 Q. Okay. So you just have it on your phone just to test
20 it, not because you use it?

21 A. I -- yes. I test it. That's why I have it.

22 Q. Do you also use it?

23 A. I use it extensively for testing.

24 Q. Okay. You also mentioned other -- like WhatsApp?

25 A. Yes, ma'am.

1 Q. And that's another messaging app?

2 A. Yes, it is.

3 Q. I'm getting better at this. That's another messaging
4 app --

5 A. Yes, ma'am.

6 Q. -- that people can use to communicate?

7 A. Yes.

8 Q. For example, WhatsApp, I -- I use it because you can
9 make international calls without having to pay a toll or
10 something like that. Is that right?

11 A. I believe so. Yes.

12 Q. Okay. So that's a useful tool?

13 A. Yes.

14 Q. And it doesn't -- and these multiple -- did you say
15 there's like 3,000 apps?

16 A. There's 4 million apps in the Google store and almost 4
17 million -- or 3 million apps in the iTunes store.

18 Q. So these apps are just apps that are out there that
19 people can use. They don't denote any -- in any particular
20 case -- they don't mean that you're a criminal if you use
21 these particular apps. Correct?

22 A. I don't know why anyone -- no.

23 Q. So it's just an app that you can -- one of many apps
24 that people -- that the young ones use to communicate with
25 each other these days. Is that correct?

1 A. It is an app. Yes.

2 Q. Okay. So one of the things you spoke about was orphaned
3 files?

4 A. Yes, ma'am.

5 Q. Okay. And tell me a little bit about an orphaned file.
6 I tried to follow, but I'm not sure. How does an orphaned
7 file -- how is an orphaned file created or why does it
8 exist?

9 A. For this particular case, the term "orphaned file" means
10 any kind of attachment. It's a known attachment from the
11 Telegram database, so it's an image, video, audio file or
12 document that we know has been transmitted as an attachment,
13 but we don't actually have the message that corresponds with
14 that attachment being sent.

15 Q. And I do understand correctly that if you have an
16 orphaned file -- let me back up.

17 So an orphaned file is someone at some point,
18 using Telegram, say, for example, sent another person or
19 sent a chat, an email -- I'm sorry -- say a video or a
20 photograph?

21 A. Yes, ma'am.

22 Q. And would that file that was sent -- could it have been
23 sent to an individual or to a whole chat group?

24 A. Either one. We would not know.

25 Q. Okay. So if it's orphaned, the reason it's orphaned is

1 because the original message is no longer found on Telegram?

2 A. That's correct. We consider the message the parent. So
3 it's a child without a parent.

4 Q. So you have this video, for example, out there. And did
5 I also understand, from some of the information that we've
6 been provided, that these orphaned files, you cannot tell
7 when it was created?

8 A. We can tell based on the type of file it was. There are
9 certain things, such as when I talked about EXIF data
10 earlier, on videos and images -- the creation date is
11 embedded in that EXIF data, so we can tell the creation
12 date.

13 Q. So, for example, if I took a picture right now, there
14 would be some information on that photograph that showed
15 that the picture was taken today?

16 A. Yes, ma'am.

17 Q. Okay. So even on those orphaned files, you would know
18 when the picture was taken; is that correct?

19 A. For a picture or a video. Yes.

20 Q. Okay. But for those orphaned files, you would not know
21 when it was transmitted; is that correct?

22 A. That is correct.

23 Q. So if I took a photograph -- let's say I took a
24 photograph today and, for whatever reason, it became
25 orphaned. You would not be able to know -- you would not be

1 able to tell us whether it was sent today or it was sent
2 seven weeks from today?

3 A. Well, forensically, we could narrow down that window
4 based on the EXIF data and the other metadata of that file.

5 Q. So how far can you narrow it?

6 A. It just depends on the file. For instance, we take a
7 picture today. The EXIF data would have a creation date
8 embedded in that file. And then I send that message through
9 Telegram to my friend.

10 When my friend's phone gets that message, the
11 attachment is added to that device's file system, and that
12 file system will have a date on it. So if I sent it
13 today -- if I took it today, I sent it today, I would have
14 that embedded in the actual image itself. And then, on my
15 friend's device, if he looked at it this afternoon, that
16 same image would have a file system date on his device of,
17 say, 3:00 p.m. this afternoon, so I would know that that
18 image had been transmitted sometime between my creation date
19 at 11:00 a.m. and his file system date of 3:00 p.m. So I
20 could narrow that window down based on those two types of
21 dates.

22 Q. So if your friend didn't open the video until two weeks
23 from the day you sent it --

24 A. Yes, ma'am.

25 Q. -- then the window would be two weeks?

1 A. Yes, ma'am.

2 Q. So you couldn't narrow it any further?

3 A. No, ma'am.

4 Q. Okay. And is that because you're using Cellebrite or is
5 that just because it's an orphaned file?

6 A. That's just the forensic science between how the date
7 stamps work in image files and how file system date stamps
8 work.

9 Q. So even if you went back to the original phone, the
10 receiving phone and the -- or the receiving device and the
11 sending device, you still wouldn't be able to narrow it more
12 than as you've described?

13 A. Correct, because the message is gone.

14 Q. Okay. So one of the videos that was shown to you by the
15 Government -- and I'm going to need Ms. Rohde's help again.
16 So the Government played a video, 403G, for you.

17 MS. HERNANDEZ: Ms. Rohde, could you take this
18 down?

19 So 403G -- could you please pull it up. I'm
20 sorry, Ms. Harris.

21 MR. KENERSON: This screen is still showing the
22 PowerPoint.

23 THE COURTROOM DEPUTY: That's what I have, too.
24 But it's set on "Plaintiff."

25 MS. HERNANDEZ: Do I have to delete this maybe?

1 THE COURTROOM DEPUTY: I'll reset it. It's still
2 coming up.

3 THE COURT: Also, for the record, could the
4 Government identify the exhibit that -- I think, when we
5 first brought up the prior exhibit that Ms. Hernández was
6 asking questions about, I'm not sure it was identified for
7 the record.

8 MR. KENERSON: The demonstrative is 1131.

9 THE COURT: 1131. Very well.

10 MS. HERNANDEZ: Thank you, your Honor.

11 BY MS. HERNANDEZ:

12 Q. So the Government played this video for you. It's 403G.

13 MS. HERNANDEZ: Could you play it.

14 (Whereupon, Government's Exhibit No. 403G was
15 published in open court.)

16 BY MS. HERNANDEZ:

17 Q. So your testimony on direct --

18 MS. HERNANDEZ: Thank you.

19 BY MS. HERNANDEZ:

20 Q. Your testimony on direct was that was -- that you found
21 that video on Mr. Rehl's phone?

22 A. I believe so. Yes. I don't recall the exact device.

23 But if that is what I said prior, then yes. Yes, it is.

24 Q. Let me show you -- and I believe this is Government's
25 Exhibit 32 and it's already -- it's Government's

1 Exhibit 1132. And I have a paper copy.

2 So this is the exhibit that the Government showed
3 you. And I believe that video is 403G, this one. Correct?

4 A. Yes, ma'am.

5 Q. And your testimony was that this was taken from
6 Mr. Rehl's phone?

7 A. Yes, ma'am.

8 Q. And you're showing the photo was taken January 6 at 2:34
9 p.m.?

10 A. Yes, ma'am. Video.

11 Q. But you're not showing any other information with
12 respect to that video?

13 A. Correct. When --

14 Q. So --

15 A. Telegram will strip most of that EXIF data out due to
16 size restrictions.

17 Q. So you cannot tell us when that video was received by
18 Mr. Rehl?

19 A. No, I cannot.

20 Q. And do you know how he received it?

21 A. Through the Telegram app.

22 Q. Through the Telegram. But you don't know whether it was
23 posted on a chat?

24 A. I don't know where the original message is. No.

25 Q. Or whether it was sent to him as an attachment?

1 A. No. The original message has been deleted.

2 Q. Or whether he saw it on the 'net, for example?

3 A. Well, no. It would have been sent to him as an
4 attachment.

5 Q. As an attachment through Telegram?

6 A. Through Telegram.

7 Q. But according to this, you were unable to determine when
8 it was sent to him?

9 A. Correct. I just have the date the video was created.

10 Q. Or when he actually received it?

11 A. I do not know.

12 Q. Or when he opened it. Or how about if he opened it?
13 Can you tell if he opened it?

14 A. No. But the file exists on his device, so I know that
15 he did receive that message.

16 Q. You know that he received it. You don't know when he
17 received it and you don't know whether he actually viewed
18 it?

19 A. No, because the original message has been deleted.

20 Q. Okay. And is there anything -- can you rule out some
21 things? So let me ask you this: Can you rule out whether
22 that was sent to him contemporaneously? And by that, I mean
23 at -- January 6th at 2:34 p.m.

24 A. No. That is a possibility.

25 Q. But it's also -- it's just a possibility?

1 A. Yes.

2 Q. It could have been sent to him three days later?

3 A. Yes. The message has been deleted.

4 Q. And you can't determine how the message was deleted?

5 A. I do not know how the message was deleted.

6 Q. And when you say the message was deleted, that doesn't
7 mean he deleted the message. Correct?

8 A. No. It's most likely whoever authored that message.

9 Q. Whoever authored that message --

10 A. -- is most likely --

11 Q. -- the person who would have deleted the -- the post or
12 the chat? I don't know how -- what's the term?

13 A. That is the most likely scenario.

14 Q. Okay. Thank you.

15 You were also shown a number of -- I believe you
16 were shown Government's Exhibit 1136. I believe you have a
17 copy of 1136 in front of you.

18 A. I do.

19 Q. And I have a copy here.

20 And I believe you were asked a number of questions
21 about how this was deleted from all the -- several devices.

22 Is that correct? Do --

23 A. Yes, ma'am.

24 Q. -- you recall?

25 A. Yes, ma'am.

1 Q. And I believe you were asked questions -- it was deleted
2 from all the devices, I believe was what you answered?

3 A. For the messages that do not appear in this chat thread,
4 yes.

5 Q. So -- and you -- let me -- I believe what you said, with
6 respect to 1136, was that it was not -- the 12:56 p.m.
7 message, it was not recovered from any device. Is that
8 correct?

9 A. May I refer to the notes?

10 Q. Yes. And if you need anything else to refer to.

11 A. Yes, ma'am. The video at 12:56.

12 Q. Okay. And the video at 12:56 was this thing here. And
13 you believe that that was a video sent by Mr. Bertino. Is
14 that correct? Or recorded by Mr. Bertino?

15 MR. KENERSON: Objection. Both misstates and kind
16 of vague as just referring to "here" without noting for the
17 record --

18 MS. HERNANDEZ: I'm sorry.

19 BY MS. HERNANDEZ:

20 Q. That's the 12:56 message that we're talking about that
21 you just said was not recovered on any device.

22 A. Oh, the 12:35?

23 Q. No. I thought it was at 12:56. I'm sorry. I'm
24 pointing to the wrong thing. The 12:56 was the one that I
25 understood you to say was not recovered from any device.

1 A. Oh, okay. The video. 12:56 video message. Yes.

2 Q. That was sent by Mr. Bertino? Do you know?

3 A. It appears that the video message was from Mr. Donohoe.

4 Q. Okay. It was Mr. Donohoe.

5 And do you know -- it appears that someone on the
6 ground in D.C. on January 6th was videotaping some of what
7 was going on. Do you recall these videos that you played?

8 A. I recall the videos that we entered. Yes.

9 Q. And is that accurate the way I'm describing? Somebody
10 on the ground on January 6th of 2020 was recording some of
11 what was -- 2021 -- was recording -- somebody on the ground
12 on January 6th, 2021, was recording some of what was going
13 on outside the Capitol?

14 A. Yes. We had a number of videos.

15 Q. I mean, we know a lot of people were recording. But I'm
16 talking with respect to this particular exhibit, 1136, that
17 you were shown, someone on the ground was recording some of
18 this information and posting it on this chat?

19 A. Yes.

20 Q. And do you know -- the person who was doing this
21 recording, was that -- if you know, was that Mr. Donohoe?

22 A. I believe for this message it was.

23 Q. Okay. And you indicated that the messages -- that the
24 reason they weren't recovered from any device is that you
25 believe the message had been deleted?

1 A. That is correct.

2 Q. And I believe you were asked your opinion, since it was
3 deleted from all the devices, does that mean that the
4 administrator for this group was the one who deleted it?

5 A. I don't remember if this was a group or a super group.

6 Q. Okay.

7 A. I just know that the message went -- whoever selected to
8 delete it, instead of deleting it for just the device,
9 selected to delete it and remove it from all of the users.

10 Q. And what does that tell you about who could have deleted
11 it?

12 A. The user could have deleted it.

13 Q. The user could have deleted it?

14 A. And -- sorry. I don't recall if this was a super group.
15 But then in that case, the administrator could have also
16 deleted it.

17 Q. Okay. And can you tell from here who -- which group it
18 was?

19 A. I believe it was the New MOSD chat.

20 Q. Okay. And is there any document that would tell you who
21 was the administrator for New MOSD that you could look at?

22 A. I do not recall if I recorded that in writing.

23 Q. Okay. But essentially -- so the fact that it was
24 deleted from all the devices would indicate to you that one
25 person with some administrative capacity deleted it?

1 A. Or the person that authored that message.

2 Q. Or the person that authored it. Because otherwise, you
3 would find it in one of the other devices. Is that correct?

4 A. That's true. I mean, there is the possibility that the
5 two devices we have that contain this chat, that both of
6 those users selected to remove that message from their
7 device. I cannot rule that out as a possibility.

8 Q. Okay. And at one point, I believe you indicated that
9 some of these messages were found on Mr. Rehl's phone but
10 not on other devices. Correct?

11 A. That is correct.

12 Q. And that means he didn't delete them. If they were
13 found on his device but not on others, that means he -- he
14 had not deleted them from his device?

15 A. Correct.

16 Q. Okay. You talked a little bit about encryption.

17 MS. HERNANDEZ: I can take this down.

18 BY MS. HERNANDEZ:

19 Q. Encryption is something that is fairly common with the
20 internet; is that correct?

21 A. Depending on certain chat applications. It is widely
22 used today.

23 Q. And the reason for encryption, the primary reason, is to
24 secure data. Correct?

25 A. Correct.

1 Q. I mean, the average person who sends an email through
2 any number of -- Hotmail, AOL, whatever -- ordinarily, those
3 applications have encryption in them. Correct?

4 A. Those do not --

5 Q. So if I send you --

6 A. -- use encryption.

7 Q. Those do not?

8 A. Not by default. No.

9 Q. But you can choose it?

10 A. Certain providers allow you to.

11 Q. Retail stores use -- like, if I go online and purchase
12 something from a retail store, it's likely that the
13 information I'm sending is encrypted?

14 A. I can't speak to that.

15 Q. Banks?

16 A. I don't know how their systems are run. I really can't
17 speak to the encryption services that they use.

18 Q. Do you know of any encryption -- Department of Justice,
19 when they send an email to you, that's encrypted?

20 A. I believe it is.

21 Q. Any other entities that you're familiar with that
22 encrypt their -- their information so -- at least in
23 transmitting the information. Correct?

24 A. Yes, ma'am.

25 Q. That's much more common, in transmitting the

1 information, it's encrypted?

2 A. Correct.

3 Q. And that's done so that the entire world, except maybe
4 the hackers and the 13-year-old boys in this country, can't
5 read what you're writing. Correct?

6 A. It's to secure the data in transit. Yes.

7 Q. Okay. And in fact, there's a lot of websites where you
8 go on and the prefix is HTTPS.

9 A. Yes.

10 Q. When the S is added to the end of that HTTPS, that's
11 because -- that means it's secure?

12 A. It does. The protocol used to transmit.

13 Q. And that's likely to -- let me write this so that you
14 can see that. And you can see that -- HTTPS, that's what
15 we're talking about?

16 A. Yes, ma'am.

17 Q. And you can go on any number of websites and, if you see
18 that S, it denotes that there's some security in the --

19 A. That's what the S stands for. Yes.

20 Q. Okay. And again, that's pretty common and ordinary in
21 today's world?

22 A. Yes.

23 Q. And would you say that's much different or the same as
24 what the Telegram encryption is?

25 A. Well, this is a totally different type of --

1 Q. Encryption?

2 A. -- securing data. This is not technically encryption.
3 It's the protocol used to transmit the website contents,
4 so...

5 Q. But do you agree with me that the encryption used by
6 Telegram is fairly common and ordinary for a number of these
7 apps?

8 A. They do use a combination of established encryption
9 protocols. Yes.

10 Q. Okay. And the theory is that encryption keeps the
11 internet somewhat safe or secures Internet privacy?

12 A. For your data, yes.

13 Q. And in fact, there's a number of federal regulations
14 that demand that kind of encryption. Correct?

15 A. I would assume so.

16 Q. Like if you are communicating with an M.D. or a hospital
17 or something with health insurance -- with the HIPAA
18 regulations, usually those people have to -- hospitals and
19 doctors, doctors' offices, have to have encryption to secure
20 the information being transmitted. Correct?

21 A. I would assume so.

22 MS. HERNANDEZ: Just a moment, your Honor.

23 BY MS. HERNANDEZ:

24 Q. I know there was some questions about your view of
25 Cellebrite and how useful it was in extracting Telegram

1 information.

2 Am I correct that there are other programs that
3 extract information that may be more suited -- may have been
4 more suited to extracting Telegram when the extraction in
5 this case took place?

6 A. Every -- we use a variety of commercial tools, and they
7 all have their strengths and weaknesses. So it's a personal
8 preference.

9 Q. But you identified, I think, an entity named Oxygen --
10 or a program named Oxygen?

11 A. That is the tool I used for one of the devices. Yes.

12 Q. And you believe that was, at least in some instances, a
13 better fit to extract Telegram data?

14 A. For that particular device, it was.

15 Q. And that particular device, is it because it's Android
16 versus Apple?

17 A. That's a large part of it. Yes.

18 Q. And just -- Apple is the iPhone?

19 A. It is, yes.

20 Q. And Android is?

21 A. Any non-iPhone, aside from the Windows phone, most of
22 them run on a version of the Android platform.

23 Q. And again, that's -- and I may be misstating, but that's
24 basically a -- it's like the brand -- maybe "brand" is not
25 the accurate description, but the difference between Apple

1 and whatever else -- the other one is essentially the
2 manufacturer?

3 A. It's the operating system.

4 Q. The operating system. But certain manufacturers --
5 Apple uses Apple whatever, technology, whereas the other
6 phone companies might use a different -- anyone other than
7 Apple uses a different system. Correct?

8 A. Relatively speaking, yes.

9 Q. And I think I'm at the end of my questions. I just want
10 to make sure.

11 So one of the concerns with Cellebrite is that
12 while it extracts information, when it displays it, it loses
13 some of the information that is found in Telegram itself?

14 A. It displays the messages. However, you know, databases
15 store many types of different information. And as we see
16 the need to include more, we request enhancements from those
17 programs to include additional functionality.

18 Q. But you lose the ability to see -- what's a pinned
19 message on Telegram?

20 A. A pinned message?

21 Q. Pinned, P-I-N-N-E-D.

22 A. In a super group, in a larger group like that, the
23 administrator can -- it looks like a little pin tack that
24 you'd use on a bulletin board. And that essentially puts
25 that message at the top of the chat so that, when new users

1 come on, they see that this somehow has been flagged for an
2 important message and that they should read it. And so no
3 matter when they come in the chat, no matter how the history
4 is set, even if that message was made and pinned two years
5 ago, anybody new coming in can see that because it's been
6 designated as important.

7 Q. And -- I mean, if you use Facebook or Twitter or
8 something, you can pin certain messages. That's a similar
9 concept?

10 A. They each have their own version, I believe. Yes.

11 Q. Which means, I want you all to know that I have -- that
12 I gave birth last week or that I got married a year ago or
13 whatever?

14 A. Sure.

15 Q. And you lose that ability to see whether a message was
16 pinned when you just extract?

17 A. No. Cellebrite parses the pinned messages.

18 Q. It does?

19 A. It does.

20 Q. How about -- I should probably leave some of this for
21 some of my more technically adept people, but let me --
22 co-counsel. But just one last question on Cellebrite. The
23 Cellebrite program that you used when you extracted the
24 information in this case was not as -- would you say it was
25 not as good as the current version?

1 A. It's always adding functionality.

2 Q. So the current version is -- has more functions than the
3 one that you used at the time that you downloaded this --
4 that you extracted this info?

5 A. It does potentially display more data. Yes.

6 Q. And again, if I -- is there some -- there is some
7 information on the device itself, on the phone, that, if I
8 had the phone here, I could ask you to go to a particular
9 message and you could provide me more information about
10 whether that message was responding to a particular message
11 or that type of thing than you can from the Cellebrite
12 extraction. Am I correct on that?

13 A. That's something we could determine from the device
14 itself or from the database, the Telegram database.

15 Q. I know. But what I'm asking you, is that accurate, that
16 if you had the device itself and you could -- if you had the
17 device itself right now, if you had Mr. Rehl's phone right
18 now, you could go to -- the phone should still have the
19 Telegram app on it?

20 A. It should. It just depends on a variety of
21 circumstances.

22 Q. Okay.

23 A. The type of extraction we got and how it interacted with
24 that device, if we were provided the PIN or passcode to that
25 device. If it had been removed or placed into airplane mode

1 since the extraction, that could have an effect. But in a
2 perfect scenario, we could look at the device and see that.

3 However, we are able to get a lot more data from
4 the database itself than we can by looking at the device
5 itself.

6 For instance, all of these orphaned files, they
7 would not be present -- if you were to just open up the
8 Telegram application on the device, you couldn't see those.
9 Those were items that we pulled out of the Telegram
10 application itself. So you wouldn't -- the end user
11 wouldn't be able to see them. So in that case, reviewing
12 the physical device would not --

13 Q. Let me go back to the orphaned video files that we
14 discussed earlier. I understood that Cellebrite timestamps
15 may or may not have any correlation whatsoever to when the
16 actual message containing the video was sent. Is that
17 accurate?

18 A. So the -- when you say the Cellebrite timestamp, that's
19 most likely referring to the file system timestamp. As we
20 discussed in our earlier scenario, if I were to send a video
21 and it had a creation date embedded in it and then, when it
22 hit that other user's device, that file system timestamp --
23 in my scenario, I had -- I sent a message -- I composed it
24 at 11:00 a.m. The device received it at 3:00 p.m. I could
25 not say from the file system timestamp that the message was

1 received at 3:00 p.m.

2 Q. But you -- and that's different, I guess -- and I think
3 you said this already, but I just want to make sure. The
4 embedded timestamp does tell you when it was created.

5 That's -- on an orphaned file, that's pretty much -- and
6 particularly, the one I showed -- the one that we played,
7 the only thing you have on that is the time it was created?

8 A. For videos and images, we would have the creation date
9 embedded in the file and then, on any other devices that it
10 was present on, we would have the file system timestamp.

11 Q. But the one we played -- and there was an exhibit that
12 went along with that -- only had the time it was created.

13 Do you remember that?

14 A. Yes, ma'am. I don't believe we pulled any other dates
15 surrounding that.

16 Q. Okay. One last thing. You looked at a number of chats.
17 Is that correct? A number of Telegram chats?

18 A. I did.

19 Q. And there were a number -- and you know the Defendants
20 in this case. Correct? You know the names of the
21 Defendants in this case?

22 A. Yes, ma'am.

23 Q. And some of the chats -- some of the Defendants in this
24 case were not in all the chats. Would you agree with me
25 with that?

1 A. I believe that's accurate.

2 Q. Like, for example, there's a chat that's identified as
3 the Elders chat. Are you familiar with that chat?

4 A. Yes, ma'am.

5 Q. Mr. Rehl was not in that chat?

6 A. I don't -- sorry. I don't recall from memory who was
7 present -- a member of which chat.

8 Q. Okay. If I showed you something --

9 MS. HERNANDEZ: I will mark this as Mr. Rehl
10 Exhibit 40, which is a list of chats that the Government
11 produced.

12 And if I may approach.

13 THE COURT: It will be marked for identification
14 purposes?

15 MS. HERNANDEZ: Yes, your Honor.

16 THE COURT: Very well.

17 BY MS. HERNANDEZ:

18 Q. Mr. Kenerson gave me that, just so you can be confident.

19 A. Thank you.

20 Q. And are there a number of chats that Mr. Rehl did not
21 belong to?

22 A. May I?

23 Q. Yes, please.

24 A. Yes. There are a number of chats.

25 Q. Can you identify what those are?

1 A. May I read from this?

2 Q. Yes, please.

3 A. Mr. Rehl was not a member of Skull and Bones, 2020-2021,
4 the MOSD Vetting chat, which was renamed to Noble-MOSD
5 Vetting chat.

6 Q. And Vetting, that's V-E-T-T-I-N-G?

7 A. V-E-T-T-I-N-G, yes.

8 The chat called Elders; the chat -- MOSD Prospect
9 chat, which we referred to in our exhibits as East Coast
10 Prospect; OG Pickle Back Crew; Space Force chat; WB Stream
11 chat.

12 Q. Thank you.

13 One last question. I understood you didn't do all
14 the extractions yourself. It was a team effort?

15 A. It was a team effort. Yes, ma'am.

16 MS. HERNANDEZ: Thank you very much for your time.

17 May I get the exhibit back?

18 THE COURT: You may, ma'am.

19 Counsel for Mr. Tarrio.

20 MR. JAUREGUI: Thank you.

21 CROSS-EXAMINATION

22 BY MR. JAUREGUI:

23 Q. Good morning again, Ms. Cain.

24 A. Good morning.

25 Q. Almost good afternoon.

1 A. Good afternoon.

2 Q. Ms. Cain, who's the lead FBI agent on this case?

3 A. The lead agent that I worked with is Special Agent Nick
4 Hanak, H-A-N-A-K.

5 Q. Is he here today?

6 A. Yes, he is.

7 Q. Now, Cellebrite was developed in Israel. Correct?

8 A. I believe so.

9 Q. And they sell this product, the Cellebrite product, to
10 Russia, China, Myanmar, Iran, some pretty oppressive
11 governments. Correct?

12 A. I don't know who they sell it to.

13 Q. Now, Cellebrite has two parts; is that correct?

14 A. Could you elaborate more?

15 Q. Sure. The first part is the UFED, which stands for the
16 universal forensic extraction device. Correct?

17 A. That is one of their products.

18 Q. Okay. And that extracts data from a mobile device and
19 backs it up to a Windows PC. Correct?

20 A. I actually don't use that product, so I'm not familiar
21 with how it works.

22 Q. Which product is the one that you use?

23 A. I used -- with this case, we used Cellebrite Premium.

24 Q. Got it.

25 And the latest version of that is 7.60. Correct?

1 A. Cellebrite Premium, I'm not sure what the latest version
2 is. It's probably somewhere between 7.58 and 7.60.

3 Q. Okay. And you're an expert in computer forensics.
4 Correct?

5 A. Yes.

6 Q. You didn't bother to look up what the latest version of
7 the most important tool in this case is?

8 A. I believe a version came out last week, and I'm just not
9 sure which version that is.

10 Q. Understood.

11 And Cellebrite itself has various trainings and
12 classes. Correct?

13 A. They do.

14 Q. Okay. And you've taken, I assume, the Cellebrite mobile
15 forensics fundamentals course.

16 A. I have not.

17 Q. Okay. I assume you took the Cellebrite certified
18 operator course.

19 A. I did not.

20 Q. Well, then, you must have taken the Cellebrite certified
21 physical analyst course.

22 A. I did not.

23 Q. How about the Cellebrite -- since we're talking about
24 Premium -- the Cellebrite certified Premium operator course?

25 A. I did take that.

1 Q. Great.

2 Did you take the Cellebrite in-system programming
3 course?

4 A. No.

5 Q. How about the Cellebrite advanced smartphone analysis
6 course?

7 A. No.

8 Q. Did you take the Cellebrite Apple fundamentals course?

9 A. No.

10 Q. How about the Cellebrite Android fundamentals course?

11 A. No.

12 Q. Then you definitely didn't take the Cellebrite advanced
13 forensics course?

14 A. No.

15 Q. Now, in this case, I think it's very important -- you're
16 saying you did not do the extractions in this case or you
17 only did some extractions?

18 A. Only some of them.

19 Q. Out of the gentlemen here in court, which extractions
20 did you do?

21 A. None of their devices.

22 Q. You didn't do a single extraction of a single Defendant
23 in this case?

24 A. No. I believe they were all done by different
25 divisions.

1 Q. Is that because you're in Knoxville, Tennessee?

2 A. I am now. When I began work on this case, I was in the
3 Tampa division.

4 Q. Now, you've testified before, and you compared an
5 extraction to a blood draw at a doctor's office. Correct?

6 A. I believe I did. Yes.

7 Q. You get a phone, just like a nurse or a doctor at a
8 hospital or at a medical setting, and under controlled
9 conditions, they draw somebody's blood. Correct?

10 A. Yes.

11 Q. And the reason you draw the blood in these controlled
12 conditions is because you don't want any contamination in
13 that blood. Correct?

14 A. Well, I believe you draw it so that you can test it.

15 Q. Of course.

16 But if you draw it incorrectly, if you contaminate
17 the blood, once you take it to the lab, the results aren't
18 going to be correct. Wouldn't you agree?

19 A. That's correct. You would not want to contaminate it.

20 Q. And in one of the most important cases in the United
21 States of America, you decided it was not important to do
22 the extractions yourself?

23 A. Oh, no. It is a generally accepted practice, especially
24 when we have cases that span the entire country -- we have
25 56 field offices -- it's neither practical nor probable for

1 me to visit every single one of those divisions when we have
2 CART-trained examiners in every single field office that can
3 do it locally.

4 Q. So I can order something from Amazon and have it the
5 same day, but the FBI cannot send you a phone next-day air
6 for you to do the extraction yourself. Is that what you're
7 telling the ladies and gentlemen of the jury?

8 A. No. It's more preferable to have the local division do
9 it. We wouldn't want any outside factors to come in. It's
10 important that, if it comes in powered on or if we have the
11 code, that we take the best steps to preserve that evidence.
12 And so I wouldn't risk sending a phone across the country
13 just so I could extract it when my team in, say, Seattle has
14 the exact same capabilities and tools to extract that
15 locally and just get it done on the same day.

16 Q. I'm glad you said that.

17 And the reason is, because when you do the
18 extraction, you have to make sure that the phone is not
19 connected to the outside world. Correct?

20 A. We try to.

21 Q. Right.

22 A. We always try.

23 Q. Right. Well, I mean, it's easy. You turn it on, you
24 immediately put it into airplane mode, you turn the Wi-Fi
25 off, those kind of steps. Correct?

1 A. Well, you do have to have the passcode, nowadays, to
2 turn airplane mode off [sic]. So we try to preserve it in
3 any way we can.

4 Q. Understood.

5 And as you sit here today, you cannot testify to
6 the ladies and gentlemen of the jury that you have any
7 personal knowledge whatsoever of the extraction process.
8 Correct? You're just relying on somebody else's work, are
9 you not?

10 A. We all follow the standard operating procedures to
11 extract the device. And so when they created that
12 extraction, they -- the examiners provided a hash value.
13 And then when I received that extraction, when they copied
14 it over to my network, I verified it, confirming that what
15 they had done matched.

16 Q. Where are the handwritten lab notes that accompany the
17 summary report of the extraction?

18 A. Where are the what?

19 Q. The handwritten notes that, under procedure, are
20 supposed to accompany the extraction.

21 A. We don't -- we're not required to take handwritten
22 notes.

23 Q. Okay. Aren't you supposed to create a summary report
24 that describes the date and times that the action was taken
25 in the extraction?

1 A. Our tools generate reports that say that for us. Yes.

2 Q. And where is that report? Did you provide that to the
3 Government?

4 A. Those reports should come with the extractions
5 themselves. The tools generate them. I know that, in this
6 case, we used a variety of tools, both Cellebrite Premium
7 and Grayshift GrayKey. And in those extractions, there are
8 attached files that document that process.

9 Q. I'm talking about your forensic report or the forensic
10 report of the person that actually did the extraction. Have
11 you seen the forensic report of the actual person that did
12 the extraction?

13 A. I looked at what they wrote up into our case file. Yes.

14 Q. Okay. And did you provide that to the Government?

15 A. I do not have a copy of that today.

16 Q. Do you know if it was provided to the Government, is my
17 question.

18 A. I do not know.

19 Q. Did you create a forensic mobile phone submission form,
20 as is required?

21 A. That is not a form that I am familiar with.

22 Q. Do you know if the person that actually did the
23 extraction created that form?

24 A. That's not a term I've ever heard before.

25 Q. Now, Cellebrite can extract live data and hidden data.

1 Correct?

2 A. By live data, you mean what you would see displayed on
3 the device?

4 Q. Yes.

5 A. Then yes.

6 Q. Now, live data is typical user info, like SMS, MMS,
7 video, email, et cetera. Correct?

8 A. Sure.

9 Q. There's also hidden data. Correct?

10 A. There can be. Yes.

11 Q. And that typical hidden data is web history, email
12 headers, picture data. Correct?

13 A. Well -- I'm sorry. I now don't follow what you mean by
14 hidden data.

15 Q. Okay. Let me move on.

16 There's two types of extractions. Correct?

17 A. There are many types of extractions.

18 Q. Right. There's a logical extraction, which is what
19 we're dealing with here. Correct?

20 A. No. That is not correct.

21 Q. Okay. What are we dealing with here?

22 A. Well, depending on the different devices, most -- for
23 most of the devices in this case, we got full file system
24 extractions.

25 Q. Would that be a physical extraction?

1 A. We use the term interchangeably. Some of our tools call
2 it a physical extraction; some of them call it a full file
3 system. They're kind of used interchangeably. Neither
4 are -- you could say that. Yes.

5 Q. Right. But you would agree with me a logical and a
6 physical extraction are two different things. Right?

7 A. They are two different things.

8 Q. Okay. And since you didn't do the extraction, you don't
9 know what kind of extraction was done in this case.
10 Correct?

11 A. Oh, no. I know what type of extraction was done.

12 Q. Because of the hash value that you testified earlier?

13 A. Well, no. That doesn't tell me the type of extraction.
14 The accompanying report that comes with the extraction
15 itself tells me what type of extraction it is.

16 Q. And that --

17 A. I believe it's also in the name of the extraction
18 [indiscernible].

19 Q. -- will then --

20 THE COURT REPORTER: I'm sorry? Say that again.

21 THE WITNESS: The accompanying printout that our
22 tools generate tell the type of extraction that it is. And
23 also, most of our tools report the type of extraction in the
24 actual extraction name itself.

25

1 BY MR. JAUREGUI:

2 Q. And the extraction is through Cellebrite?

3 A. The extraction is what?

4 Q. This extraction report you're speaking about, that's
5 through Cellebrite?

6 A. It's the tool that generates it. So it would have been
7 Cellebrite Premium generates a log file, and our Grayshift
8 GrayKey generates a summary report in a PDF format.

9 Q. That's what I'm trying to figure out. When you say the
10 report that's generated, are you talking about the report
11 generated through Cellebrite or through GrayKey?

12 A. Yes.

13 Q. Which one is it?

14 A. Both.

15 Q. Both.

16 And in this case, you have both reports?

17 A. I reviewed all -- yes. I reviewed -- that came along
18 with each extraction. Yes.

19 Q. Thank you.

20 Now, these extractions and these reports, they're
21 not 100 percent reliable, are they?

22 A. Well, they're log files of how the system interacted
23 with the device.

24 Q. How the tool interacted with the device. Right?

25 A. Yes.

1 Q. Now, you know -- you said you followed the releases, the
2 updates on social media and the tools' websites, so on and
3 so forth. Correct?

4 A. Yes, sir.

5 Q. And you know, of course, that Moxie Marlinspike, who's
6 the creator of Signal, he had Cellebrite. You know that.
7 Right?

8 A. I know that Signal and Cellebrite have interacted with
9 each other. Yes.

10 Q. Okay. But you know that the tool was hacked by the
11 founder of Signal?

12 A. It wasn't --

13 Q. It's a famous hack case. You've heard about it. Right?

14 A. It wasn't hacked. But I know to what you are referring,
15 yes.

16 Q. You know what I'm talking about?

17 A. I do.

18 Q. Thank you.

19 Now, you're saying you did not personally extract
20 Mr. Tarrío's phone. Correct?

21 A. That's correct.

22 Q. Okay. Now, isn't it true that Grayshift GrayKey is
23 actually better at processing Telegram than Cellebrite?

24 A. Well, Grayshift GrayKey doesn't process anything. It's
25 only a tool used to extract the data from the device.

1 Q. Right. But the question was, it works better than
2 Cellebrite. Correct?

3 A. No. The extraction that you would get from Cellebrite
4 Premium, if it was a full file system extraction, and the
5 full file system extraction you would get from GrayKey would
6 be nearly identical.

7 Q. Okay. And the reason you use Cellebrite is what? It's
8 easier to use for the agents -- for the Government?

9 A. It's just depending on availability. Right now, we only
10 have GrayKey for iPhones and we have Cellebrite Premium that
11 works on Androids and iPhones. And as of today, all of our
12 divisions are equipped with both of those. Back in 2021,
13 each division typically only had one or the other just based
14 on availability at the time.

15 Q. Okay. And you would agree with me there's a big
16 difference between the Apple IOS and the Android systems.
17 Correct?

18 A. Yes. There's a big difference in their operating
19 systems.

20 Q. And, actually, the Android even varies by phone. I have
21 a Samsung, and on the Samsung, there's all this bloatware,
22 and actually, there's an extra kernel on top of the Android
23 operating system. Correct?

24 A. I can't speak to the bloatware, but yes, Samsung would
25 be different than, say, LG. They all use the Android

1 platform, but they are slightly different operating systems.

2 Q. Okay. Now, my colleagues asked you about the different
3 messaging apps, Signal, WhatsApp. Those are all encrypted.
4 Correct?

5 A. They are.

6 Q. And even the simple Apple iMessage, that is also
7 encrypted. Correct?

8 A. The iMessage is, yes.

9 Q. Now, on Telegram, it's also encrypted, but it's not
10 end-to-end encryption. Correct?

11 A. Not by default.

12 Q. Okay. And not only that, but in these group chats, it's
13 not even encrypted at all. Correct?

14 A. No. They are encrypted.

15 Q. Okay. Just not end-to-end encrypted?

16 A. Not end-to-end encrypted.

17 Q. Now, when a person does the extraction, they control all
18 the factors, correct, as to the variables that they want to
19 extract from the phone. Right?

20 A. No. When we do a full file system extraction, because
21 of the way that our tool interacts with the device, we have
22 to pull all of the data off. We do not get to select which
23 portions. We copy the entire file system.

24 Q. And you know that because somebody wrote it on a report.
25 Correct?

1 A. Because I know that's how the tools work. Yes.

2 Q. Okay. But when they use the tool, you would agree with
3 me that the tool has endless variations and variables in it.
4 Correct?

5 A. Not the extraction tools, no. When we hook it up to our
6 extraction tool, it identifies the chipset in the certain
7 device, the type of device it is, the chipset. And then the
8 tool makes the determination on how to best extract that.
9 It's not interactive with the user. The tool does it.

10 Q. So you can't pick a timeframe on the tool; is that what
11 you're telling me?

12 A. For extraction, no. We would extract the entire device.

13 Q. Okay. Now, you did look at Mr. Tarrio's extraction.
14 Correct?

15 A. I did.

16 Q. Okay. And you saw that he communicated through multiple
17 mediums, text messages, Telegram and other applications.
18 Correct?

19 A. I saw that there were many applications on there.

20 Q. And in the Telegram application, you saw he had
21 countless threads and group chats and private and individual
22 chats. Correct?

23 A. There were a number of messages and chats. Yes.

24 Q. And actually, he had about 32 and a half million unread
25 messages. Do you remember that?

1 A. I do not remember that.

2 Q. You don't remember that.

3 Do you know how many unread messages he had?

4 A. No, I do not. But I know it was not 32 million.

5 Q. Okay. How many do you think it was?

6 A. I don't know, but I know that the total number of
7 artifacts that we reviewed for that case did not reach
8 anywhere near 32 million, so I know there weren't 32 million
9 unread chats.

10 Q. And is there an easy way to look that up after -- you
11 know, between -- you know, during lunchtime? Can you look
12 that up through a Cellebrite report, perhaps?

13 A. No, not here, because the data set that we have provided
14 has been scoped to the parameters of the search warrant. So
15 it would not include --

16 Q. Okay.

17 A. -- the entirety of his --

18 Q. When you say that the data was scoped to the search
19 warrant, what does that mean?

20 A. When we provided the final reports, we selected data
21 that was relevant to the case here today.

22 Q. So you used a timeframe. Correct?

23 A. That was part of the consideration, but not the entire
24 consideration.

25 Q. Got it.

1 So you were able to limit that to variables that
2 you picked out in the tool. Correct?

3 A. For the final reports, yes.

4 Q. Got it.

5 Now, isn't it true that when data is not collected
6 in a forensically sound manner, you inherently change the
7 metadata?

8 A. I'm sorry. I'm just not sure what you mean by that
9 question.

10 Q. Sure. If the extraction was not done correctly, the
11 metadata could be contaminated. Isn't that true?

12 A. I'd have to see an example.

13 Q. Well, you'd have to see the phone and extract it, I
14 guess. Right?

15 A. I would, yes.

16 Q. And just by seeing the extraction, you can't check the
17 integrity of the data on the actual phone. Correct?

18 A. Well, as our tools are extracting the data, they take a
19 hash value of the data that it expects to extract, and then,
20 once it's done, it takes the hash -- that same hash value of
21 the data that's come out, and that's how we receive that.

22 Q. But wouldn't it be best practice to have that report and
23 then you have the phone with you to compare them both to
24 make sure they're the same?

25 A. I did as part of my process, Yes.

1 Q. Yeah. But you didn't have the phone, did you?

2 A. I did not have the physical device. I did have the
3 extraction with that. Yes.

4 Q. Understood.

5 So if the extraction was done incorrectly, the
6 data is dead on arrival. Isn't that true?

7 A. I would assume -- I have -- I'd have no way to know
8 that. I know that the data I looked at in this case, all
9 the hash values matched; all the extractions were valid.

10 Q. I understand.

11 Now, you had already testified that you're not an
12 expert in Telegram. So let me ask you just as to your
13 personal knowledge. When using Telegram, when you use a
14 reply or a swipe reply function, a review byline is created
15 that allows two users to directly communicate without
16 disrupting the flow of the overall chat with unnecessary
17 confusion. Correct?

18 A. I'm not -- I'm not sure what --

19 Q. I'll break it up into pieces. I'm sorry. It's a long
20 question.

21 You know what using a reply or a swipe reply is in
22 Telegram. Correct?

23 A. Yes. When you reply directly to another message.

24 Q. Okay. When that happens, there's like a little review
25 box that opens up. Correct?

1 A. There is.

2 Q. Okay. And that's done so that, as you're speaking back
3 and forth, it doesn't create any kind of disruption in the
4 conversation. Right?

5 A. I don't know the intent of it. I know that it does then
6 display that message as your reply is in direct response to
7 this other reply.

8 Q. Okay. When you extract that in Cellebrite, it doesn't
9 show that. Correct?

10 A. In the earlier versions it didn't. As we discussed with
11 Ms. Hernández, I believe the version that came out in
12 November or December now does display that data.

13 Q. Okay. And again, you don't know if, in this new latest
14 version, if it does that, because you haven't really looked
15 at it. Correct?

16 A. No. I know that as of the version that came out in
17 November or December, it does.

18 Q. It does. What version is that, to be clear?

19 A. I believe it was as of 7.58 or 7.59. I'm not sure of
20 the exact version number. Just in the last few months.

21 Q. Understood.

22 But the version that we're working with, that
23 Mr. Kenerson and I are working with, is that old one.
24 Right?

25 A. Not the very first one that I had referenced, but

1 somewhere in the 40s, the 7.40s.

2 Q. 7.40s or something?

3 A. Yes.

4 Q. And -- I mean, that's important. I mean, I get an
5 update on my phone every few weeks. I can't even drive my
6 car if I don't get it updated. Isn't that important for us
7 to be working on the most updated Cellebrite version tool?

8 A. We try to use the latest tools. Yes.

9 Q. Okay. Now, extraction creates a complication in terms
10 of the contextual conversation. Correct?

11 A. I'm sorry. Can you repeat that?

12 Q. Sure. You already said that in the extraction in
13 Cellebrite, we can't see swipe replies or replies. So if we
14 can't see that, it creates a big contextual complication.
15 We don't really know who's responding to what or to whom.
16 Correct?

17 A. Sure.

18 Q. Now, it's really problematic when you're using Telegram
19 to explain a person's state of mind. Correct?

20 A. I don't have any knowledge of using Telegram to explain
21 a state of mind.

22 Q. Well, the user interface factors in most of how the user
23 conducts themselves. Isn't that true?

24 A. I'm sure that's personal to each person.

25 Q. Okay. And actually, some data gets missed if it's in a

1 different format, like in a voice chat. Correct?

2 A. I don't -- I don't understand what you mean by "data
3 missed."

4 Q. Well, isn't it true that in a lot of these Telegram
5 messages the voice chats are missing?

6 A. We do have a lot of voice chats that have been deleted,
7 yes.

8 Q. Yeah. And there's a lot of missing GIFs or photos,
9 things that add context. Correct?

10 A. Yes. A lot of messages have been deleted.

11 Q. Okay. And, actually, there's missing messages that
12 haven't been deleted. Isn't that true?

13 A. I --

14 Q. Not every single missing message was deleted. Isn't
15 that true, Ms. Cain? Some of it are just artifacts that
16 Cellebrite can't recognize correctly. Isn't that true?

17 A. No. The reply -- the message would still be there. It
18 just wouldn't show that it was in direct reply to another
19 message.

20 Q. I'm not talking about the replies; I'm talking about
21 missing messages. Missing messages in a thread.

22 A. Uh-huh.

23 Q. Okay? You've seen those in these Telegram chats,
24 correct, where there's just empty spaces?

25 A. Yes.

1 Q. Okay. Not every single empty space was a deleted
2 message. Isn't that true?

3 A. No. That's -- if the message is missing and all that
4 remains is the timestamp, then that is a deleted message.

5 Q. Isn't it true it could be a pinned message of some kind
6 that Cellebrite can't recognize correctly?

7 A. No. Cellebrite parses pinned messages.

8 Q. It shows up as a big red X?

9 A. I think it has, like, a little icon and it says Pinned
10 Message.

11 Q. Okay. But you can't actually see the pinned message.
12 Isn't that true?

13 A. Well, it would be the message inside that container.

14 Q. Okay. Now, when looking backwards at these messages,
15 without the user interface, we're pretty much guessing what
16 the intent was. Correct?

17 A. I don't speak to the intent of these messages. My job
18 is to provide the technical data in a useable format.

19 Q. And are you the person with the most technical knowledge
20 in this prosecution team?

21 A. I did parse these Telegram chats and provide technical
22 advice based on them, yes.

23 Q. Did anybody above you provide technical advice to the
24 Government in this case?

25 A. Not to my knowledge.

1 Q. Okay. So you're the Government's tech person in this
2 case. Would that be fair?

3 A. For this case, yes.

4 Q. Thank you.

5 Now, isn't it true that Telegram allows for
6 editing and deleting of comments after being sent?

7 A. Individual messages?

8 Q. Yes.

9 A. I'm not sure if you can edit them back in the winter of
10 2021.

11 Q. Okay. Are you aware you can do that now?

12 A. I did not know that. No.

13 Q. Okay. So you didn't know that I can send a message,
14 somebody can reply to my message, and then I can go back and
15 change the initial message? You didn't know you could do
16 that in Telegram?

17 A. I don't know if you could do that in the winter of 2021.
18 No.

19 Q. Now, when checking to see if a comment has been read by
20 other users, a double-checkmark will appear next to the
21 comment. Correct?

22 A. That's correct.

23 Q. One checkmark means that the comment was sent and is
24 ready for others to view and respond in the actual
25 application. Correct?

1 A. That sounds correct. Yes.

2 Q. Now, we can't see any of these checkmarks in Cellebrite.
3 Correct?

4 A. I don't recall if they included them or not, no.

5 Q. Okay. Would something refresh your recollection?
6 Perhaps a Cellebrite report?

7 A. If we have those available.

8 Q. I do.

9 A. Sure.

10 MR. JAUREGUI: Ms. Harris, this is going to be
11 Tarrío Exhibit 6. If we could just publish it just to the
12 witness, please.

13 BY MR. JAUREGUI:

14 Q. Now, Ms. Cain, I'm showing you some Telegram messages
15 between my client, Tarrío, and Lieutenant Shane Lamond, the
16 head of the intelligence of the Metropolitan --

17 MR. KENERSON: Objection.

18 BY MR. JAUREGUI:

19 Q. -- Police Department.

20 THE COURT: Hold on. Is the witness being asked
21 to refresh her memory about something?

22 MR. JAUREGUI: That's it, Judge.

23 THE COURT: All right. So why don't you just ask
24 her the question about the topic at hand.

25 MR. JAUREGUI: Thank you.

1 BY MR. JAUREGUI:

2 Q. I'm going to show you this Telegram. I'm just going to
3 scroll there.

4 Do you see these Telegram messages --

5 A. I do.

6 Q. -- between my client and Lamond? Are there any --

7 MR. KENERSON: Objection.

8 THE COURT: Sustained.

9 BY MR. JAUREGUI:

10 Q. Are there any checkmarks there?

11 A. There are no checkmarks.

12 Q. Okay. So in the Cellebrite version that we have, it
13 doesn't display checkmarks, one or two, to determine whether
14 something has been read?

15 A. Well, this is also not a group chat. This is an
16 individual chat between two users.

17 Q. Okay. Does it show the checkmarks, yes or no?

18 A. It does not.

19 Q. Okay. Would it be fair to say, if it doesn't show it in
20 an individual chat, it won't show it in a group chat? I
21 could find you a group chat if you'd like.

22 A. I would prefer that you found a group chat. Yes.

23 Q. Sure.

24 MR. JAUREGUI: If we could publish this to the
25 witness, please.

1 BY MR. JAUREGUI:

2 Q. Now, this is a group chat between Lamond --

3 MR. KENERSON: Objection.

4 THE COURT: I'm sorry, sir. Just ask your
5 question about whether this refreshes the witness's
6 recollection about the topic you've asked.

7 MR. JAUREGUI: Understood.

8 BY MR. JAUREGUI:

9 Q. I'm showing you some Telegram messages between different
10 people -- we won't name who they are -- in a group chat.

11 Any checkmarks on any of these?

12 A. No. But that's also not a group chat.

13 Q. It's not a group chat?

14 A. No.

15 Q. What is this? It's a group text?

16 A. It's two individuals.

17 Q. Oh, sorry. I have it as multiple people. I have it
18 as -- I'll move along.

19 I have that one as three people. You didn't see
20 three people there?

21 A. Well, it doesn't necessarily make it a group chat. It
22 could still be a private message and not an official group
23 with a name.

24 Q. Got it. Got it.

25 I'm showing you another Cellebrite report. Is

1 this a group chat?

2 A. It is.

3 THE COURTROOM DEPUTY: What number is this?

4 MR. JAUREGUI: This is Tarrio Exhibit 50.

5 THE COURTROOM DEPUTY: 50.

6 BY MR. JAUREGUI:

7 Q. Did I finally score on this one? Is this one a group --
8 group chat?

9 A. Group chat. Yes.

10 Q. There's a lot of people on this one. Right? How many
11 people do you think are in this one?

12 A. I have no idea.

13 Q. Hundreds, maybe?

14 MR. KENERSON: Objection. Are we refreshing at
15 this point?

16 THE COURT: Does this refresh your recollection?

17 BY MR. JAUREGUI:

18 Q. Does this refresh your recollection, Ms. Cain?

19 THE COURT: About?

20 BY MR. JAUREGUI:

21 Q. About whether --

22 A. It does. There are no checkmarks.

23 Q. There's no checkmarks?

24 A. There are no checkmarks.

25 Q. Thank you.

1 Now, what this proves is that simply extracting
2 the phone doesn't give you an accurate picture of what's
3 happening on Telegram. Correct?

4 A. No. Extracting the phone will get all of the data off
5 of the phone. The next portion is to then process that data
6 into a readable format. So, yes, extracting the data still
7 does get a complete picture of the data off of the phone.

8 Q. You mean you're getting a copy of the data of the phone.
9 Correct?

10 A. That is correct, in the extraction.

11 Q. Right. But what I'm trying to say is the Cellebrite
12 that we're all using does not give a real picture of the
13 communications on Telegram. Isn't that fair?

14 A. I would say that's not accurate. I would say it does
15 give a good picture of the communications, as it has every
16 group in it, every private message; it has the users that
17 contributed a message, the message itself, a timestamp, the
18 name of the attachment, the attachment itself. So it has
19 all of the key features included in order to read any given
20 chat thread.

21 Q. So a good 50, 60 percent, let's say 70 percent -- that's
22 good enough for court. Right?

23 A. No. I would say more like 95.

24 Q. 95 percent. Okay. Not 100 percent. I guess I got you
25 there. Not 100 percent, right, of the communication?

1 A. I mean, maybe later versions -- I could put in some
2 enhancement requests.

3 Q. It's a shame we didn't use that later version, huh,
4 Ms. Cain?

5 Isn't it true that when somebody joins a group
6 chat, they miss entire sections of the conversations that
7 came before then?

8 A. There is a setting in the super groups where the
9 administrator can choose to show the history from all time
10 or choose to just show the history from when that person
11 joins the chat. The default is to just show when that
12 person joins onward.

13 Q. Got it.

14 And in the extraction, you can't tell that using
15 Cellebrite. Correct?

16 A. You can't tell what?

17 Q. What you just said. That -- the administrator can
18 activate a setting as to what a user can see. You can't
19 tell whether the administrator activated that setting on
20 Cellebrite. Correct?

21 A. Oh, no. I do not know that.

22 Q. Again, we're just guessing, right, on Telegram, whether
23 the administrator did or did not do such a thing?

24 A. I could look in the database for an individual chat and
25 find that information.

1 Q. But you didn't do that in this case. Correct?

2 A. Not for this one. No.

3 Q. I understand.

4 Now, this leaves us to try and piece together the
5 original context based on our speculation. Isn't that
6 right?

7 A. I'm not sure what your question is.

8 Q. Well, I just asked you, When somebody joins a group
9 chat, do they know what was said before they got there? And
10 you basically said no. Correct?

11 A. That is correct. They would just see messages going
12 forward in the default setting.

13 Q. Got it.

14 So if they start writing, we don't even know what
15 they're responding to. Correct? Because we don't know
16 whether they did a swipe reply. Correct?

17 A. Well, if they just joined the chat, I would assume
18 they're not responding to anything, because they haven't
19 seen anything.

20 Q. Right.

21 A. So they would be replying to nothing.

22 Q. Right. But they can't do it the minute they get there.
23 They can do a swipe reply. You just can't show it on the
24 Cellebrite. Correct?

25 A. Well, if you join the chat and you can't see the

1 history, then you can't reply to a previous message because
2 there are no previous messages.

3 Q. Got it.

4 Isn't it true that Cellebrite processes the
5 database inaccurately sometimes?

6 A. In my testing, in validation of the earlier versions of
7 Cellebrite, I did find that Cellebrite was duplicating some
8 of the records. And the way that databases work is they
9 have a write-ahead log, which is called the WAL file, and
10 when a user sends a new message, it writes that to the WAL
11 file first, and then that's moved over to the database at a
12 later time.

13 And so we noticed that, in the earlier versions of
14 Cellebrite, they were processing and displaying some
15 messages twice. So they were just duplicating messages. So
16 the content was accurate; the timestamp was accurate; who
17 the message was from was accurate. We were just seeing it
18 in the database two times. And obviously, that person
19 didn't send the exact same message at the exact same time
20 twice because we were seeing it for several messages.

21 Q. And you actually told that to Agent Hanak in an email.
22 Correct?

23 A. I did. I wanted him to be able to correctly interpret
24 the data.

25 Q. Right. And you even told him, Cellebrite doesn't report

1 with enough accuracy. Correct? That's why I hadn't sent
2 you Paul Ray's phone before, even though you guys were
3 clamoring for it. Correct?

4 A. For his device, I processed it with a different tool
5 because, at that date and time, and the number of groups
6 that he was a member in, I felt that the interface was more
7 appropriate as a review tool. Yes.

8 Q. And you even said Cellebrite has weird ways of
9 displaying the pinned messages. Correct?

10 A. Oh, we did have a question about one of the ways that
11 the pinned messages were displayed. It put an icon -- it
12 created an icon. Essentially, instead of just saying at the
13 bottom of the bubble, "This message was pinned," it created
14 a little pin icon as -- to draw attention to the fact that
15 that message had been pinned. It's just a programming
16 preference. They wanted to be able to draw attention, so
17 they assigned an icon to it.

18 Q. Okay. And you also told Agent Hanak that whenever
19 there's extensive group threads, they may not be parsed
20 correctly, nor coherently, in Cellebrite. Correct?

21 A. When -- we have a lot of groups and super groups for
22 these particular devices, and because each one of those has
23 a unique identifier, and because Cellebrite doesn't display
24 the chat by the group name, but it displays the chat by the
25 group identifier, one chat thread could appear as two. So I

1 wanted to just make sure that I drew the case agent's
2 attention to that so that, if they were to look at any
3 particular group, they knew that, for some groups, they
4 needed to look at two chat threads in order to see the whole
5 picture of that.

6 THE COURT: All right. Ladies and gentlemen,
7 we're going to break for lunch. We will see you on the
8 other side of our break. Thank you again for your attention
9 and patience.

10 (Whereupon, the jury exited the courtroom at 12:35
11 p.m. and the following proceedings were had:)

12 THE COURT: You may step down from the witness
13 stand.

14 Madam Court Reporter, do you have another ten
15 minutes in you?

16 THE COURT REPORTER: Yes, Judge.

17 THE COURT: So we'll wait for Ms. Harris to
18 return, and then I'll hear from you on the overnight issue,
19 if you will.

20 Just in case the issue ripens today, why don't I
21 hear from the parties on the issue that you all -- that was
22 raised overnight, I guess, first by the Government and then
23 Ms. Hernández responding in kind about what the Government
24 wants to do with these additional exhibits. Whoever from
25 the Government, I will hear from you. Then I will hear from

1 Ms. Hernández.

2 MR. MULROE: Thank you, your Honor. Conor Mulroe
3 for the Government.

4 The term "Minecraft" is one that appears
5 throughout the chat exhibits that the Government intends to
6 offer. It's one that we have flagged for some time. I
7 think it was mentioned in our briefing on the motion *in*
8 *limine*, and we conveyed in those papers what the
9 Government's position was about the meaning of that term.

10 It's important that the jury know what the term
11 means. And so our original plan was for the agent to offer
12 a lay opinion about the meaning of that term, which, in our
13 view, was appropriate under the Rules of Evidence. It was
14 going to be an opinion not based on any special or expert
15 knowledge, and also not based on any facts or evidence
16 outside the scope of the Telegram chats that he was
17 reviewing.

18 So he, as he's going to testify at the beginning,
19 reviewed quite a lot of chats -- I mean, many, many chats
20 beyond those exhibits that we're offering here in court.
21 And based on his review of all those things, he saw that
22 this was a term that came up with some frequency within
23 these groups. Based on its context and usage, he was able
24 to determine the meaning of the term.

25 That was our original intention.

1 Now, we heard the Court's concerns that I think
2 your Honor raised on Monday, and then again at the end of
3 the day on Tuesday. And so in an effort to conform with
4 what I think your Honor identified as a potential issue
5 there about the witness offering an opinion or a conclusion
6 based on evidence that is not before the jury, we put
7 together this set, which is some but not all of the usages
8 of the term "Minecraft" in the chat groups in question, so
9 that the jury can see for themselves and reach their own
10 conclusion of whether they agree or don't agree with what
11 that term means.

12 As Mr. McCullough said this morning, having shown
13 the jury those exhibits, we are happy to just let them draw
14 their own conclusion and not even ask the witness, Well,
15 what did you learn that it meant?

16 So that would be our intention at this point, to
17 offer the exhibits, show the exhibits, and leave it at that.

18 I do think that the jury needs to know one way or
19 the other what the word means. And so -- again, we could
20 offer the exhibits, as we plan to do now. If they want
21 those out, then I think we would ask them to waive any
22 objection to the opinion being offered.

23 But I do think that the exhibits themselves, the
24 actual texts and usage of the term, is going to be the best
25 and most direct and most reliable way for the jury to make

1 that decision.

2 THE COURT: All right. I mean, I guess we're kind
3 of -- I'll hear from Ms. Hernández in a moment. But we're
4 sort of dancing around the fact that you also have the
5 option of putting someone on who used the term in particular
6 ways and was on these chats and would say, Yes, this is how
7 we all used it. Correct?

8 MR. MULROE: Your Honor, we do happen to have that
9 option available in this case. But I think that that should
10 not change the legal analysis of whether this is a proper
11 way to do it. And I think we should be entitled to,
12 consistent with the Rules of Evidence and with your Honor's
13 rulings, present the case in the way that we think is going
14 to make it most understandable to the jury.

15 THE COURT: I agree with you. I agree with you.
16 It is -- well, let's put it this way: I agree with you that
17 it doesn't dictate the outcome under the Federal Rules of
18 Evidence for sure. But it's context for how, at least in an
19 uncontroversial way, the same thing could be accomplished.
20 But it doesn't mean that you can't do it this way. I agree
21 with you.

22 MR. MULROE: And your Honor, I think that, you
23 know, even if we did have a witness who had used the term
24 himself testifying to it, we would want to corroborate that
25 and show the jury that you can believe him because here's

1 all the examples.

2 THE COURT: All right. Ms. Hernández?

3 MS. HERNANDEZ: Ding, ding, ding, ding. As
4 Judge -- as then-Judge Garland explained in *Evans*, the
5 Government is free to introduce a whole lot of evidence but
6 it has to do that consistent with the Rules of Evidence.
7 And putting an agent on the stand to explain what
8 Minecraft -- what these Defendants meant when they used the
9 term "Minecraft" is exactly what the Rules of Evidence do
10 not allow.

11 And the Government has been shut down in this area
12 multiple times. They try to do it -- or they used to try to
13 do it in drug cases when they wanted to put an agent on the
14 stand to say, Oh, when they said ten shirts, they really
15 meant ten kilos. And the D.C. Circuit has repeatedly said:
16 If the agent was not a member -- if you have an undercover
17 officer, sure; the undercover officer can come in and say, I
18 was -- I can explain what was meant.

19 But if you have a person who was not part of that
20 conversation, you cannot have that person come in and
21 essentially relay what the agent learned through his
22 internet search, through conversations with cooperators.
23 And in fact, in *Evans*, Judge Garland clearly said, you know,
24 instead of having the snitch or -- he didn't use the term
25 "snitch" -- the guy in jail come in and explain, the

1 Government seeks to put a clean-cut FBI agent -- I think it
2 was Judge Garland's words -- seeks to put a clear-cut FBI
3 agent whose credibility -- who has all this credibility to
4 explain things that are clearly outside the scope of an
5 agent's testimony.

6 This is a fact witness. He's not -- you know,
7 they can go hire -- go subpoena someone from the company who
8 manufactures Minecraft and have them testify about
9 Minecraft. They can prove it through competent evidence.
10 And the manner in which they're seeking to prove it is not
11 competent. The messages that they want to introduce are all
12 out-of-court statements, hearsay statements, dating to early
13 2020.

14 I mean, we keep on -- so I would object. And I
15 certainly object at this point in time, your Honor.

16 THE COURT: Ms. Hernández, let me just try to
17 clarify.

18 You keep mentioning a case, *Evans*, although all
19 the cases you cited last night are not *Evans*. So what case
20 should I look at over lunch?

21 MS. HERNANDEZ: Those cases that I have cited are
22 the summary witness cases, the Government's summary witness
23 cases that the Supreme Court -- I'm sorry -- that the D.C.
24 Circuit referenced. And I think the issue was a Rule 702
25 issue and the hearsay rules issue and the relevant -- the

1 cases I cited.

2 But the Garland case is the case I cited in
3 objecting to the Telegram messages in which -- and that was
4 the motion I filed, I believe, on Saturday or whatever day
5 we were supposed to object to the Telegram messages. And
6 that's the motion where Judge Garland -- I didn't look for
7 him, but I found his case, so I figured I might as well
8 exploit the fact that he was the judge who wrote the opinion
9 at the time. That's *Evans*.

10 *Evans* is the case authored by Judge Garland, and
11 it dovetails -- the reason I raised it, because it dovetails
12 into the Government's argument that they get to put the
13 agent on the stand and they'd like to corroborate the
14 testimony, I guess, of Bertino and Stewart and Donohoe, who
15 are the witnesses that they have to put on, because they're
16 the witnesses who would know how the term was used in those
17 chats.

18 THE COURT: Sure.

19 MS. HERNANDEZ: The agent doesn't know how the
20 term was used in those chats.

21 THE COURT: Right. Right. So their now fall-back
22 position is -- or position, I guess, is -- and I hadn't
23 definitively ruled, but I have raised the issue that I
24 thought -- whether it was *Evans* -- I actually think it was
25 one of the ones you cited last -- or very early this morning

1 about these concerns about an agent coming on and saying,
2 Here's what I believe, based on things that are not
3 ultimately before the jury.

4 And the Government so -- has read the case, I
5 think, and heard what I said, and is now shifting to
6 something that's separate, which is to say, no opinion
7 testimony. Right? The agent won't say, Oh, I understand
8 this word to mean whatever.

9 What they're saying is, just put this -- again,
10 we've talked about limiting instructions extensively. But
11 the idea would be, I assume, that we would say, look, here's
12 a bunch of Telegram messages. Some of them are from --
13 related to your clients; others are not. Here's how, in
14 these chats, the Proud Boys were using that term. Jury, you
15 figure out what to make of the term as they're using it in
16 the days and weeks leading up to January 6th.

17 So tell me what your objection is to that.

18 MS. HERNANDEZ: Okay. So those are the summary
19 witness cases that I cited to you this morning --

20 THE COURT: Right.

21 MS. HERNANDEZ: -- that the D.C. Circuit has said:
22 You cannot put a witness on the stand to essentially testify
23 based on hearsay. What the witness would be saying is, I've
24 looked at all this stuff -- the Court -- the D.C. Circuit
25 has been real clear that when you put on these Government

1 witnesses, they cannot be testifying as to what they read in
2 the case and how they interpret it. They want -- Minecraft
3 is a game. It's commercially sold. The Government wants to
4 explain how these Defendants used that term.

5 The only way -- the only person who can explain
6 that is someone -- is one of the Defendants or one of the
7 persons who was communicating using that term. An outside
8 person cannot come in and say: When Tarrio, when Rehl, or
9 when -- whoever said Minecraft, what they meant was...

10 THE COURT: Right. And so they have -- they're
11 not -- if you just heard what I said, they just said, we're
12 not doing that.

13 MS. HERNANDEZ: That's exactly what Mr. Mulroe
14 said he was going to do.

15 THE COURT: No. No. You're not listening.
16 You're just not listening, Ms. Hernández.

17 MS. HERNANDEZ: I am, your Honor. I am.

18 THE COURT: Then how can you explain to me how --
19 Mr. Mulroe just said: That's not what we're doing. And I
20 repeated it: Oh, that's not what you're doing. And now
21 you're telling me, no, they are doing it.

22 MS. HERNANDEZ: Well, they want to put in some
23 text messages -- some messages --

24 THE COURT: Okay. Now we're getting somewhere.

25 MS. HERNANDEZ: -- where the term "Minecraft" was

1 used.

2 THE COURT: Right.

3 MS. HERNANDEZ: They don't need an agent to
4 explain anything other than --

5 MR. SMITH: Your Honor, can --

6 THE COURT: No. Ms. Hernández is -- she is the
7 one who filed the objection. I want to hear her out.

8 Continue.

9 MS. HERNANDEZ: So first of all, the messages that
10 they're trying to introduce are hearsay statements. They
11 are -- they predate the conspiracy and they're out-of-court
12 statements. And they want to introduce it to show the term
13 "Minecraft."

14 Fine. The term is a term. It's one of two
15 things. It is the game that's commercially sold --

16 THE COURT: Right.

17 MS. HERNANDEZ: -- or it is a term, say, of art
18 that these Defendants used. No one can explain how these
19 Defendants understood that term except one of the persons
20 involved in those conversations.

21 It's the same way as when the Government puts on
22 intercepted communications. The only persons who can
23 explain what the intercepted communications mean is someone
24 who was part of the conspiracy. They cannot bring in a law
25 enforcement officer who said, I've listened to a lot of

1 calls and this is what they mean.

2 That's exactly what the Circuit has said cannot be
3 used.

4 I only mentioned the *Evans* case because, on top of
5 that, Judge Garland said whatever -- there's a lot of things
6 that the Government can introduce about background, about
7 context, about all sorts of things in a case. And they're
8 entitled to introduce it.

9 But Judge Garland said explicitly: That still has
10 to come in through competent, nonhearsay evidence.

11 And the Government wants to put on an agent, as
12 Mr. Mulroe said -- and that will be fine. They can elicit
13 this information from Bertino and Stewart and Donohoe. But
14 they want to corroborate that testimony. How? Through a
15 clean-cut agent -- and I use that term because that's -- I'm
16 quoting from Judge Garland. They want to corroborate that
17 through a clean-cut agent who gives some credibility.

18 But the clean-cut agent cannot -- does not have
19 the competence, under the law, to explain what was in the
20 Defendants' minds when they used the term.

21 THE COURT: Does anyone else want to be heard from
22 defense side on there?

23 MR. SMITH: Yes, your Honor. Very briefly.

24 There are some additional problems beyond what
25 Ms. Hernández is referring to. If your Honor looks at the

1 first proposed Minecraft PDF, it's Government's Exhibit
2 514-62 --

3 THE COURT: I don't want to -- I'm going to hear
4 you. Let me just -- well, I'll ask at the end.

5 MR. SMITH: Thank you. So there are foundation
6 problems, your Honor, and there are 403 issues.

7 The foundation issue is we have -- to take one
8 example, your Honor, there's a statement from someone named
9 Memphis King. That's their Telegram handle. That's 514-62.
10 He says, Let's go shoot them all in Minecraft.

11 THE COURT: Yes.

12 MR. SMITH: Okay. So there's a pile of problems
13 here. There's no foundation indicating the Defendants have
14 seen this, much less adopted it.

15 There's no --

16 THE COURT: Wait. Let me stop you right there.

17 MR. SMITH: Yeah.

18 THE COURT: What does that -- I mean, this is not
19 a question of adopting. Right? This is a question of, how
20 was a term of art used within a community?

21 MR. SMITH: Within the community, right, your
22 Honor. So there has to be some sort of common understanding
23 for -- the predicate for relevance here is common
24 understanding. So if -- your Honor, if there's a word --
25 there's an old famous argument in linguistics about a

1 private language. There is no such thing as a private
2 language. Words either have meaning communally or they mean
3 nothing. So they have to be shared -- there has to be a
4 shared understanding.

5 THE COURT: Okay.

6 MR. SMITH: So if there's no foundation that a
7 Defendant has seen this statement saying, "Let's go shoot
8 them all in Minecraft," and associates Minecraft with
9 shooting people, then there's no basis for the relevance
10 argument the Government is making that this is relevant
11 because there's a communal understanding in this group that
12 Minecraft means, let's go shoot people.

13 So there has to be --

14 THE COURT: To be fair, they're not saying that.

15 MR. SMITH: That's another problem.

16 THE COURT: That's not the argument.

17 MR. SMITH: So your Honor is pointing out another
18 problem, which is what -- if no one is explaining what
19 Minecraft means -- and I think Mr. Mulroe has backed off
20 that because of Ms. Hernández's objection -- then we just
21 have -- the relevance is just supposed to be this statement
22 sitting here. Minecraft is -- "Let's go shoot them all in
23 Minecraft."

24 What are we -- what is the relevance that is being
25 presented to the jury here in this statement? Is it

1 Minecraft means harming people? Does it mean committing any
2 sort of crime? It's just this mysterious, vague,
3 unexplained statement that has no foundation in the
4 Defendants' knowledge.

5 And then, your Honor, there's another problem,
6 which is -- Ms. Hernández said, either Minecraft is -- you
7 know, it means nothing -- it means a video game or it's a
8 special kind of thieves' camp that the Defendants have.

9 Actually, there's many other options. This is a
10 generic slang term on the Internet, your Honor. And if your
11 Honor looks at -- just sort of goes online and looks --

12 THE COURT: Then maybe the agent can testify to
13 it.

14 MR. SMITH: Well, then -- your Honor, he can't,
15 because there's many meanings.

16 Your Honor, then there's -- there's another
17 problem, your Honor. There's many meanings. If your Honor
18 just -- if you look online for even five minutes, you'll see
19 that it's a catchphrase used to qualify a statement as not
20 relating to the real world, meaning -- which would be the
21 exact opposite of what the Government is trying to present
22 its relevance as.

23 THE COURT: I think you have -- let me say this:
24 I think you have arrived at a place that -- let me -- so
25 this is an important question that does bear, it seems to

1 me, on the admissibility of these exhibits and what a jury
2 could or could not make from them.

3 Let me just have the Government articulate for a
4 moment what they -- I realize you're not going to have
5 anyone opining this, but at closing or -- either through a
6 subsequent witness or at closing, what is the Government's
7 position on what this does mean? What would you, at the end
8 of the day -- again, whether you have a witness who
9 testifies to this or whether you would just be arguing in
10 closing, "This is what we think this means"?

11 MR. MULROE: The short answer, your Honor, is
12 Minecraft means violence and crime.

13 And the longer answer is this: Mr. Pattis
14 elicited, during the testimony of Agent Camiliere, the kind
15 of sense of humor of the Proud Boys. I think he called it
16 the culture of irony. I think the -- Minecraft is related
17 to that.

18 Minecraft, as I think these examples show, is a
19 somewhat winking or tongue-in-cheek tag line that they put
20 on the end of a statement -- when it's a, you know, facially
21 incriminating statement, they will put on the end "... in
22 Minecraft" to make it seem like we're not talking about the
23 real world, as Mr. Smith said.

24 Now, I don't think the Government's position is
25 that they viewed this as a serious way of insulating their

1 communications from law enforcement scrutiny, like it would
2 really protect them if they were able to point to, "Oh, I
3 didn't really mean it; I was just saying 'in Minecraft.'"

4 I think it was partially a joke. But it's a
5 signifier that we're talking about something illegal.

6 And so we've illustrated that in the chat exhibits
7 we've offered when there's discussions of what does appear
8 to be real-world criminal activity, selling prescription
9 drugs and --

10 THE COURT: Right.

11 MR. MULROE: -- the references to violence. And
12 some of the references to violence is over the top. We're
13 not suggesting they actually want to go cut people's heads
14 off.

15 THE COURT: Right.

16 MR. MULROE: But there are other cases where it
17 appears to be a reference to real things. And so all that
18 is necessary context for the jury to understand, what do
19 they mean when they refer to Minecraft?

20 And I think that the meaning, based on these
21 examples from these same chats that the Defendants were part
22 of, will make the meaning clear. But if any of these
23 Defendants disagree and think that it means something else
24 in that context, they're free to pull up other examples from
25 the chats and say, Well, look at what they said Minecraft

1 here; that rebuts the Government's theory.

2 I don't think they're going to be able to find
3 anything like that. But I think that we're entitled to show
4 through example what the term means.

5 And I want to point out, just -- I think your
6 Honor and most of the parties are tracking this -- this is
7 not a hearsay question. If we were putting a chat up that
8 had a member of the group saying, Minecraft means X, that
9 would be offered for the truth; that would be a hearsay
10 issue. None of these are being offered for the truth of any
11 statement offered.

12 MR. SMITH: Your Honor, I have to say, we heard
13 Mr. Mulroe use the pronoun "they" throughout that entire
14 statement, your Honor. The whole issue is who "they" are.
15 That is the foundation issue.

16 So the argument that I just made to your Honor is,
17 there isn't a foundation showing that the Defendants have
18 this understanding.

19 THE COURT: Let's just --

20 MR. SMITH: But Mr. Mulroe keeps saying "they,"
21 your Honor.

22 THE COURT: Okay. So you would say it would be
23 different if -- again, I'm just -- just conceptually -- if
24 the Government put on a witness that said, Oh, yes. Not
25 just my dealings with the Proud Boys generally, but in my

1 dealings with these Defendants, oh, yeah, we would use that
2 term, and this is what we meant. That would be perfectly
3 fine?

4 MR. SMITH: That would be different, your Honor.

5 THE COURT: Well, would it be perfectly fine? It
6 would be different.

7 MR. SMITH: Your Honor, then it becomes more of a
8 credibility issue of the witness, frankly. But I would say
9 that is -- that's different. That's different.

10 The problem I have, your Honor, is we just have
11 these statements, these, you know, isolated statements from
12 people without legal names, without any indication of
13 whether the Defendants saw it or understood -- had the same
14 understanding. That's the --

15 THE COURT: Some of them, of course, are your
16 clients, just to make that point. Right? I mean, I -- some
17 of them are the Defendants in this case.

18 MR. SMITH: Well, your Honor --

19 THE COURT: I understand there's other arguments
20 about that. But it's not -- these are not all folks who we
21 may or may not know who the identity is.

22 MR. SMITH: Well, your Honor, I agree that, if
23 you're referring to 514-64, where at least the Defendant's
24 handle is responding to someone using the word "Minecraft,"
25 I agree. That's a different issue. So there might be 403

1 issues there.

2 But, your Honor, I'm primarily concerned about,
3 like, the first example, 514-62, where it's just an isolated
4 statement from someone named Memphis King saying, "Let's
5 shoot them all in Minecraft." No --

6 THE COURT: Right.

7 MR. SMITH: No context. No indication that a
8 Defendant has seen it or understands what he's talking
9 about.

10 THE COURT: All right. Mr. Pattis.

11 MR. PATTIS: These are serious charges that the
12 Defendants face, and I think they're entitled to contest the
13 seriousness of the evidence. There has to be an outer
14 limit.

15 And I adopt Mr. Smith's claims as to foundation
16 and would say that, with respect to 403, I think there is a
17 risk of jury confusion.

18 When I first saw Minecraft, I thought it was the
19 game, and I talked to one of the prosecutors and I said:
20 Are you contending there were secret communications in the
21 game chat function? And I was assured there wasn't.

22 At some point, the Government has to be held to
23 its burden of proof and say, you know, you're entitled to
24 put on links in a chain, but you can't make stuff up out of
25 whole cloth and attribute it to people without a foundation

1 whatsoever. And if you try, then that opens this case up to
2 hours of -- not hours -- maybe an hour of cross-examination
3 about the various meanings and permutations of Minecraft
4 that are available in an urban dictionary.

5 And we're going to be right back to where
6 Mr. Mulroe says he doesn't want to go, which is the agent
7 giving -- giving the agent a lay opinion.

8 So if you put it out there and we cross-examine
9 it, we're opening the door to a lay opinion. And then we're
10 not going to be able to cross-examine on the lay opinion
11 because you don't permit recross-examination. And the whole
12 thing just becomes a mess with the --

13 THE COURT: I don't -- well, let me just respond
14 to a few things you said.

15 Number one, I think it's -- I mean, I have
16 permitted recross-examination in this case --

17 MR. PATTIS: Once or --

18 THE COURT: -- which is quite unusual unto itself.
19 So -- I mean, to dispense with that.

20 Number two, you know, jeez, the fact that there
21 might be an extra hour of cross-examination is not a
22 response to the question of whether these are properly
23 admitted.

24 MR. PATTIS: No. It's a 403 issue as to jury
25 confusion.

1 THE COURT: I haven't -- fair enough. But I
2 haven't -- let me put it this way: We have a witness on the
3 stand right now whose testimony is, essentially, Here's how
4 Telegram works -- and you all can do whatever you'd like on
5 cross-examination. But I don't think -- the fact that
6 something is going to create an extra hour of
7 cross-examination is not --

8 MR. PATTIS: No. My point, sir, was jury
9 confusion, frankly, on an issue that's really tangential.
10 How many rays -- what's the heat of the sun on the dark side
11 that we don't see at a moment we see it? And isn't that
12 relevant to the heat here on Earth? Well, I guess you could
13 make an argument, if you were an astrophysicist. But at
14 some point the Court has to say, this is material and
15 relevant, and at some point there's a risk of jury
16 confusion. And I think that's the problem with the 403
17 thing.

18 And given what Mr. Smith notes with respect to the
19 various meanings of Minecraft, I think there is a
20 substantial risk of jury confusion, unless they're going to
21 put those words in the mouth of a Defendant, in which case
22 it's an admission of a party opponent and then we're on to
23 something.

24 But absent that, it's remote.

25 THE COURT: I do think -- look, I do think one of

1 the things -- and then we will go to lunch. And I think --
2 look, we'll finish up with this witness, and I think the
3 prudent thing would be, if the Government just pushes this
4 whole Minecraft thing to the end of the direct for the
5 witness you're about to put on, then then we can move ahead.
6 It's, I assume, a long direct. And I can take it up -- if I
7 don't come back to you with an answer, I can at least take
8 it up overnight.

9 I would say this: I do think part of this --
10 Mr. Mulroe, you, in laying -- I think you very accurately --
11 from my review of what you all have put forth -- the tricky
12 part is I don't think it's necessarily universal. Like you
13 said, there are times when I think it's clearly meant to be
14 a sort of -- not a serious way -- you're mentioning
15 something that you don't really think -- well, it's linked
16 to things that I think are probably not serious, and no one
17 is really seriously considering doing, but as a way to kind
18 of wink and I'm saying something that is -- I mean, let's
19 go, you know, beat somebody up. But nobody is really
20 thinking of doing that.

21 And then the other times -- there are times when
22 it's, I think, clearly being used -- I shouldn't say
23 clearly -- to the best we can tell, from -- from what I
24 have, it is being used to reference ongoing conduct that is
25 probably, you know, ongoing illicit conduct.

1 MR. MULROE: Your Honor, on the sequence of the
2 direct, I think it would probably be fine for us to push
3 this to tomorrow morning. I think to push it to the very
4 end of the entire direct would be difficult, but I think we
5 can get through the afternoon without doing it.

6 The one thing I do want to just point out is
7 the -- it's not a limited single instance of the term in the
8 chats that we want to present. You know, you could do a
9 control-F. It sounds like maybe your Honor has already done
10 that.

11 THE COURT: Already done it.

12 MR. MULROE: But it's the Defendants themselves
13 talking about, you know, things in direct connection with
14 the events of January 6th and Minecraft. So it's an
15 important term.

16 THE COURT: Let me say this: You also have the
17 option of just steaming through in whatever way you would
18 like, knowing that you can come back to the question. And
19 knowing that, even if I don't allow what you'd like to do
20 here, you have the option of tying it up later. But that's
21 a risk, you know, you would have -- you all would have to
22 take.

23 MR. MULROE: You know, a lot of these things can
24 cut one way or the other. I think in terms of jury
25 confusion and in terms of the nuance of the term that your

1 Honor has identified, both those, in our view, are reasons
2 to put these examples in front of the jury and let them
3 understand it themselves and draw their own conclusion.

4 And I think that the way to do that is with these
5 examples. And they can pull up however many counter
6 examples they want to.

7 THE COURT: All right. We will -- I'll let you
8 know after lunch if I've decided. If not, it would be
9 helpful if the Government is just prepared to at least tee
10 it up for tomorrow morning.

11 We'll be back at -- it's 1:04. Let's come back in
12 an hour, at 2:04.

13 (Thereupon, a luncheon recess was taken, after
14 which the following proceedings were had:)

15 (Proceedings concluded.)
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CERTIFICATE

I, LISA EDWARDS, RDR, CRR, do hereby
certify that the foregoing constitutes a true and accurate
transcript of my stenographic notes, and is a full, true,
and complete transcript of the proceedings produced to the
best of my ability.

Dated this 8th day of February, 2023.

/s/ Lisa Edwards, RDR, CRR
Official Court Reporter
United States District Court for the
District of Columbia
333 Constitution Avenue, Northwest
Washington, D.C. 20001
(202) 354-3269

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