

1 **THE COURT:** Thank you.

2 **THE BAILIFF:** Judge, this witness has
3 not been sworn.

4 **THE COURT:** Thank you. Come up this
5 way, please. If you would face the jury, I will give
6 you the oath.

7 **(Witness Duly Sworn)**

8 **THE COURT:** Thank you very much. You
9 may have a seat.

10 You may begin.

11 **MR. LEONARD:** Thank you, Judge.

12 **PRISCILLA HILL,**

13 having been first duly sworn, testified as follows:

14 **DIRECT EXAMINATION**

15 **Q.** **(BY MR. LEONARD)** Good afternoon, Ms. Hill.

16 A. Good afternoon.

17 **Q.** Would you please introduce yourself to the
18 jury?

19 A. Hi. My name is Priscilla Hill, and I work
20 for the Houston Police Department crime laboratory.

21 **Q.** How long have you been working for the
22 Houston Police Department crime lab?

23 A. Approximately seven and a half years.

24 **Q.** And what do you do there?

25 A. I'm a DNA analyst.

1 Q. And tell the jury a little bit about your
2 education and your background.

3 A. Sure. I have a Bachelor of Science degree
4 in forensic science from Baylor University and a
5 Master of Science in forensic DNA analysis from the
6 University of Central Lancashire.

7 Q. And are you required to take continuing
8 education?

9 A. Yes, sir.

10 Q. Okay. And tell the jury a little bit about
11 that.

12 A. We are required to take at least eight
13 hours of external training a year annually; and then
14 we also keep abreast of current literature as well as
15 proficiency testing, as well.

16 Q. Tell the jury a little bit about the
17 proficiency test.

18 A. A proficiency test is required twice a
19 year. It is an outside agency that submits a case
20 and I process it as I would casework, but then the
21 results are unknown to the laboratory. We submit
22 those results that I get to that outside agency, and
23 they give me a certificate if I passed or not. This
24 is to ensure that I am doing my job correctly, that
25 our laboratory procedures are in place, are being

1 performed correctly, and that we're doing what we are
2 doing. So, it is a quality check on the lab and
3 myself.

4 Q. Okay. Have you ever failed a proficiency
5 exam?

6 A. No, sir.

7 Q. Okay. And is the Houston Police Department
8 crime lab accredited?

9 A. Yes.

10 Q. And what does it mean to be accredited?

11 A. To accredit -- well, we are accredited by
12 ASCLD lab, which is the American Society of Crime Lab
13 Directors Laboratory Accreditation Board. And what
14 this is, is a team that comes in and audits our
15 laboratory. The team consists of other scientists in
16 the field that work in perspective laboratories. And
17 they come in and review our policies and procedures
18 to make sure that we are adhering to national
19 standards and guidelines, as well as the lab
20 protocols that we have put in place.

21 So, they review the facility,
22 casework, my background, if I have the educational
23 background, cases that I have done. They interview
24 myself and look at evidence. All this is encompassed
25 in the audit; and then once everything passes, we are

1 accredited.

2 Q. Ms. Hill, I want to talk to you a little
3 bit about the work that you did specifically in this
4 case. Did you compile a report or make any notes
5 with regards to this case?

6 A. I did make notes, yes.

7 Q. Okay. And is there a case file associated
8 with this case?

9 A. Yes, sir.

10 Q. Okay. And what is that case file number?

11 A. 083298010.

12 Q. Okay. And does that case file identify a
13 defendant and a victim with regards to the evidence
14 that is being analyzed in this case?

15 A. Yes.

16 Q. Okay. And what does it identify?

17 A. I have the complainant as Imani Hilton, and
18 the suspect identified as Rodney Milum, Jr.

19 Q. Okay. And tell the jury what is it that
20 you did in this particular case.

21 A. Specifically, I re-amped two samples within
22 this case; and then I also -- also technically
23 reviewed the case file once the analyst wrote the
24 report.

25 Q. Okay. Let's talk about re-amped. We have

1 talked about several steps in the DNA analysis
2 portion. We talked about extraction. We talked
3 about quantification, amplification, and
4 interpretation. What exactly is re-amp or the
5 amplification process?

6 A. Sure. Re-amp -- well, it is a part of the
7 amplification process. All re-amp means is that the
8 sample already was amped one time. So, we went back
9 and re-amped it again. In this case it was to try
10 and obtain a more informative result. So, more
11 quantity was amped the second time.

12 Q. Okay. And what sort of safeguards are you
13 taking to make sure that the evidence that you
14 analyze is not contaminated?

15 A. Well, specifically, in the amplification
16 process, I have a mask, gloves, lab coat; but I have
17 a prepared area that's specifically for
18 amplification. And I make sure that it's sterile
19 before I use it on my equipment, as well.

20 We use pipette tips. So, obviously, I
21 only use one tip per sample. Samples are not open at
22 the same time. We have controls in place that follow
23 the samples through this process; and so, are -- in
24 the end it should be blank to show that there was not
25 any contamination.

1 There is also negative controls
2 incorporated into the amplification process, positive
3 showing that the kit and all your reagents are
4 working properly and negative showing that the
5 reagents are clean. So, all of these are in place to
6 ensure the quality.

7 Q. Okay. And if there was cross-contamination
8 in a sample that you analyzed, what would happen?

9 A. Well, first, obviously, it would be
10 investigated; and then what we would do is work
11 backwards to see where the root of the issue happened
12 and then see how it could have been prevented in the
13 future.

14 Q. Okay. Do you have any evidence or notes or
15 documentation that there was contamination with
16 regards to this particular case that you
17 investigated?

18 A. No, sir.

19 Q. Okay. You also said that you were the
20 technical reviewer in this particular case. What
21 exactly does that mean?

22 A. Once an analyst -- the assigned analyst
23 writes their case -- his or her case, a colleague
24 then goes and reviews that work and agrees with her
25 findings and conclusions and signs off as if it's

1 their own case, as well. And if they would have made
2 the same conclusions, they agree with everything.
3 So, my initials are on that part. I technically
4 reviewed all of her work and agreed with her report.

5 Q. Okay. And it's basically a way to
6 doublecheck the work?

7 A. It's a quality control measure.

8 Q. Okay. And whose work did you check in this
9 particular case?

10 A. In this case it was -- well, she was
11 Jennifer Clay, yes.

12 Q. Okay. What other involvement did you have
13 in this case?

14 A. I think that's it.

15 Q. Okay.

16 **MR. LEONARD:** I pass the witness.

17 **THE COURT:** Thank you.

18 Mr. Smith?

19 **MR. SMITH:** Thank you, Your Honor.

20 **CROSS-EXAMINATION**

21 Q. **(BY MR. SMITH)** You're an evidence
22 technician, basically; is that right?

23 A. Well, no. I'm a DNA analyst. But in this
24 particular case, I amped some samples.

25 Q. Okay. Which particular samples did you

1 amplify?

2 A. I believe it was the extraction of the
3 panties sample.

4 Q. That is referring to the epithelial portion
5 of the --

6 A. Yes, sir. Sorry. I made an abbreviation.
7 Epithelial extraction of the panties.

8 Q. Those -- okay. Those are cells that you
9 know come from like the mouth, the inside of the
10 vagina, maybe the urethra of the male; is that
11 correct?

12 A. Correct. In the sample, it refers to --
13 obviously, the different DNA samples, a sperm
14 fraction epithelial fraction would be non sperm
15 cells, or the other cellular material that would also
16 contain DNA.

17 Q. And you re-amplified the epithelial portion
18 of the panties; is that correct?

19 A. Yes. But let me find my exact worksheet.
20 I just had it.

21 Yes, sir.

22 Q. All right. The reason you did -- you did
23 that was because a -- well, let me back up and ask a
24 few questions.

25 A. Sure.

1 Q. When you -- when you processed this through
2 the genetic amp -- analyzer, it comes out and gives
3 you a number value on a graph; is that correct?

4 A. The electropherogram?

5 Q. Yes.

6 A. Yes, sir.

7 Q. It gives you a number on the graph, and
8 those items are particular to an individual; is that
9 correct?

10 A. Well, it's just a generic profile at the
11 time. Not until we perform a comparison with a known
12 reference could we see if something of consistency to
13 give exclusion or inclusion.

14 Q. Okay. So, basically you create a chart; is
15 that right?

16 A. What chart? The chart that the machine
17 generates?

18 Q. Yes.

19 A. Yes. That's created by the machine.

20 Q. And then you take those -- those
21 amplification numbers, and you put that on a -- on
22 another chart, which is part of the report?

23 A. Correct, for easy reading.

24 Q. And you re-amped the epithelial portion of
25 the panties; is that correct?

1 A. Yes, sir.

2 Q. Okay. And the reason for the
3 re-amplification of the panties was because there was
4 an indication of a minority profile; is that correct?

5 A. I believe so. But I think the reason why I
6 re-amped it is just because I was also processing
7 other samples, and she needed some samples to be
8 re-amped. So, I added them to my plate.

9 Q. Okay. And you analyzed the results; is
10 that right?

11 A. No, sir.

12 Q. Okay.

13 A. What I did do, though, is review Jennifer
14 Clay's work once she was completely done with it and
15 agreed with her conclusions.

16 Q. Okay.

17 A. That was my other role in this case.

18 Q. So, because there was a -- another
19 minority -- let's kind of explain to the jury what we
20 mean by minority profile. Let me ask you some
21 questions on that, please.

22 A. Sure.

23 Q. You, many times, have DNA samples that have
24 more than one DNA profile included in them; is that
25 correct?

1 A. Yes, sir.

2 Q. Oftentimes, you have what is known as a
3 predominant profile; is that correct?

4 A. Sometimes there are mixtures where we can
5 determine a dominant donor of DNA versus another
6 donor.

7 Q. And in other words, in that -- that's a
8 situation where the DNA in that particular sample --
9 in a particular sample, that particular person is way
10 in excess of any of the others; is that right?

11 A. Correct. There is more contribution to one
12 donor than the other.

13 Q. Okay. Now, you also have what are called
14 minority profiles; is that correct?

15 A. Correct.

16 Q. Minority profiles are profiles that --
17 where there is not as much DNA; is that correct?

18 A. Correct. There is what we call a minor
19 component, which is -- once you have established that
20 there is major and minor, the minor is donating less
21 DNA than the major.

22 Q. Okay. And it is -- it is also -- it is
23 possible when you have to have a predominant profile
24 that is so predominant that it will mask over
25 minority samples, minority profiles; is that correct?

1 A. It does when one person donates more DNA
2 than another. Yes, to a degree, they are being
3 masked over because that one person is donating so
4 much that the other sometimes is falling out that you
5 might not see it at every location because of that.

6 Q. Okay. And that is not an unusual
7 circumstance; is that correct?

8 A. No, sir.

9 Q. Okay. Now, in this particular situation,
10 there was a minority sample that was found in the
11 epithelial fractions of the panties; is that correct?

12 A. Yes. It was a major/minor mixture, yes.

13 Q. And on the minority profile, your lab made
14 no indications of who that particular profile might
15 belong to; is that correct?

16 A. Correct.

17 Q. Well, the reason -- one of the reasons that
18 you -- well, just save that.

19 And in that particular sample, there
20 are several alleles as you call them; is that right?

21 A. Yes, they are.

22 Q. Alleles stands for the particular part of
23 the -- that stands for the particular part of the DNA
24 molecule that you're analyzing; is that right?

25 A. It's actually a variation within the

1 location that we're looking at.

2 Q. Okay. And you call those loci; is that
3 correct?

4 A. Loci, yes. Loci are the locations, and
5 then alleles are within the locations that that
6 person possesses.

7 Q. And each of those loci, you know that's
8 where a number value is assigned; is that correct?

9 A. Correct.

10 Q. Okay. And in this particular sample, there
11 was a -- several situations where several of the loci
12 rose to the level of having a minority sample; is
13 that right?

14 A. There -- and let me answer what I think
15 you're asking. There were several alleles in the
16 minor components that was attained, but there wasn't
17 enough to make a conclusion.

18 Q. There was at least one that you were able
19 to get a value for; is that right?

20 A. There were three minor alleles that were
21 obtained.

22 Q. Okay.

23 A. Everything else is denoted by asterisks,
24 which just means there was activity but we weren't
25 conclusive. We didn't know for sure if it was a true

1 allele or not.

2 Q. But some of them did have a number value;
3 is that correct?

4 A. Correct. Three alleles.

5 Q. And those numbers -- at least one of those
6 number values did not match either one of the known
7 samples; is that correct?

8 A. That's correct.

9 Q. And that would specifically be when this is
10 introduced, D5S818? Is that the --

11 A. D5S818 is the name of the selection. And,
12 yes, there is a minor allele that is --

13 Q. Rose to a 12. That was -- called a 12?

14 A. Yes, a 12 allele that is a minor, and it is
15 not a part of the references from either -- not one
16 of the alleles that either references have.

17 Q. Which means it had to come from somebody
18 else?

19 A. It is a foreign allele, but no conclusions
20 were ever made about the minor component. So, that's
21 why it wasn't actually indicated on the report.

22 Q. Okay. Now, it is true that males have
23 sperm cells; is that right?

24 A. Yes, sir.

25 Q. But they also have epithelial cells,

1 correct?

2 A. Yes.

3 Q. Females have only epithelial cells; is that
4 right?

5 A. Yes, sir. Yes.

6 Q. When you're doing testing of this type,
7 just to make -- to clarify?

8 A. Yes, we would only obtain the sperm cells
9 from the male.

10 Q. Right. And you have amelogenin; is that
11 correct? That is the sex quantifier; is that right?

12 A. Yes, sir.

13 Q. Now, basically, the way this works is if
14 you have an allele, okay, that has a value in it, you
15 will -- if both parties have the same value, it will
16 just give -- it will just give you that one number;
17 is that right?

18 A. Yes. And that's because you obtain these
19 alleles from your mother and your father. So, if
20 your mother and your father gave you both the same
21 alleles, it will only be denoted by one number as
22 opposed to if they give you two different ones, it
23 will denote those two different ones.

24 Q. Okay. And you will agree with me that
25 transfer can happen in the field before collection;

1 is that correct?

2 A. Sure.

3 Q. Okay.

4 **MR. SMITH:** Pass the witness, Your
5 Honor.

6 **THE COURT:** Thank you.

7 **MR. LEONARD:** Nothing further from
8 this witness, Judge.

9 **THE COURT:** Thank you.

10 May she be excused?

11 **MR. LEONARD:** She may.

12 **THE COURT:** Thank you so much.

13 **THE WITNESS:** Thank you.

14 *(Witness released)*

15 **MR. LEONARD:** The State would call
16 Jennifer Clay.

17 **THE COURT:** Thank you.

18 **THE BAILIFF:** Judge, this witness has
19 not been sworn.

20 **THE COURT:** Thank you.

21 How are you?

22 **THE WITNESS:** Good.

23 **THE COURT:** Good. Come around this
24 way.

25 **THE WITNESS:** Okay.

1 **THE COURT:** And raise your right hand
2 and face the jury so they can see you.

3 **(Witness Duly Sworn)**

4 **THE COURT:** Thank you. Please have a
5 seat.

6 **MR. LEONARD:** May I proceed?

7 **THE COURT:** You may.

8 **MR. LEONARD:** Thank you.

9 **JENNIFER CLAY,**

10 having been first duly sworn, testified as follows:

11 **DIRECT EXAMINATION**

12 **Q.** **(BY MR. LEONARD)** Good afternoon, Ms. Clay.

13 **A.** Hello.

14 **Q.** Please introduce yourself to the jury.

15 **A.** My name is Jennifer Clay. I'm a DNA
16 analyst at the Houston Police Department crime
17 laboratory.

18 **Q.** And how long have you been with the Houston
19 Police Department?

20 **A.** I have been there for seven years.

21 **Q.** Tell the jury a little bit about your
22 educational training.

23 **A.** I attended the University of Houston in
24 Clear Lake where I received a Bachelor's degree in
25 biology.