

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

ROBERT BALDWIN,

having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. BALLENGEE:

Q. Mr. Baldwin, if you would, introduce yourself to the jury.

A. Good morning, ladies and gentlemen of the jury. My name is Robert Baldwin.

Q. And if you'd spell your name for the record, please.

A. Last name is B-a-l-d-w-i-n.

Q. And normal spelling of your first name?

A. Yes.

Q. Okay. Thank you.

A. Sure.

Q. What do you do for a living?

A. I'm currently employed by the Harris County Institute of Forensic Sciences in the firearms identification laboratory and I'm the manager of that section.

Q. And what do you do as a manager of the firearms section?

A. Well, aside from overseeing the administrative responsibilities of the manager's position, I also perform the duties of a firearms examiner.

1 Q. What are the duties of a firearms examiner?

2 A. Those duties would include the evaluation of
3 firearms related evidence. That could include a firearm
4 that has been recovered, an evaluation of that
5 particular firearm, test-firing of that gun. It could
6 also involve the comparison of fired exhibits such as
7 cartridge cases, projectiles, shot shells, and shot
8 shell components. And at the time that this case was
9 done, we were also doing distance approximation.

10 Q. And what kind of educational background did you
11 have to obtain in order to become a firearms examiner?

12 A. My formal education consisted of a bachelor of
13 science degree as well as a jurist doctorate degree. I
14 received specialized training at the FBI, the ATF, Smith
15 & Wesson Arms, Colt Firearms, Remington Arms, Sig Arms,
16 Glock Arms, and Baretta Arms. I have also done course
17 work in forensic microscopy.

18 Q. Have you testified before as a firearms expert
19 in Harris County?

20 A. Yes, sir, on many occasions.

21 Q. And what are the procedures that you use when
22 you are doing firearms examinations?

23 A. Well, the procedures would be dictated by the
24 type of evidence that has been submitted in the case.
25 If we have a firearm as well as fired evidence, of

1 course, the initial evaluation would be to examine the
2 firearm, do functionality testing, and then do
3 test-firing. And then those test-fires would be used as
4 exemplars for comparison, microscopic comparison to the
5 fired evidence.

6 Q. When you say you do functionality testing, what
7 does that mean?

8 A. That means that we evaluate the safety devices
9 that are incorporated into the firearm to determine if
10 they are working properly. We determine the trigger
11 pull for the -- which is the amount of pressure that has
12 to be applied in order to cause the firearm to
13 discharge. And as I said, we would actually test-fire
14 the gun to produce known test-fired specimens.

15 Q. So, is it -- how are you able to determine
16 whether or not another bullet has been fired from that
17 same gun if it wasn't a test-fire bullet?

18 A. Well, in order to make a comparison of a fired
19 projectile, evidence projectile, back to the test-fires,
20 that would be done microscopically. That would be done
21 utilizing what's known as a comparison microscope, which
22 is actually two microscopes that allow the individual to
23 observe two specimens simultaneously in a split-screen
24 view. You would evaluate the class characteristics that
25 are exhibited on both the test-fires as well as the

1 evidence. If those class characteristics are
2 consistent, then we go further to evaluate whether or
3 not there is sufficient individual characteristics in
4 order to form an opinion as to whether or not they came
5 from the firearm that we've test-fired.

6 Q. Okay. Let me make sure that I understand.
7 What exactly are class characteristics?

8 A. Class characteristics are what we would call
9 general characteristics. For instance, on a fired
10 projectile, you would have the caliber, the number of
11 lands and grooves, the width of the lands and grooves,
12 and the direction of twists and pitch.

13 Q. Do you think it would aid the jury in
14 understanding your testimony if they were able to see
15 what you were talking about with regard to lands and
16 grooves?

17 A. I think so. Sure.

18 Q. I'm showing you an example of a bullet
19 (indicating). Would you describe for me what you mean
20 by lands and grooves using that demonstrative?

21 A. Yes. What you've handed me is a model of a
22 cartridge. A cartridge consists of the cartridge case,
23 the primer, the powder charge, and the projectile. When
24 the cartridge is detonated, of course, the projectile is
25 forced down the barrel. And the barrel surface of the

1 bullet, which is this area on the model, will pick up
2 the impressions of the rifling that are on the interior
3 surface of the barrel. And in this case, this
4 particular model has six lands and grooves. So, the
5 raised areas are actually the grooves and the impressed
6 areas are the land impressions.

7 And so, in order for -- obviously, in order
8 for a evidence bullet to have been fired from the same
9 gun that we're testing, it would have to have the same
10 rifling characteristics, the same numbers of lands and
11 grooves, the same dimensioned lands and grooves, and it
12 would have to be of the same caliber.

13 Q. You also, a minute ago, said that one of the
14 things that you are looking for in the microscope is
15 individual characteristics. What exactly are individual
16 characteristics?

17 A. The individual characteristics are actually
18 finer striated markings that are produced by the
19 imperfection -- the imperfections that are produced
20 during the -- primarily during the manufacturing process
21 of a firearm. And those -- as I say, those individual
22 characteristics will be exhibited on the barrel surface,
23 primarily in the lands, as a pattern of striations.

24 Q. Now, when you are identifying these class
25 characteristics and these individual characteristics, is

1 that how you are able to determine whether or not a
2 projectile was fired from an individual gun?

3 A. That is the basis for which I form my opinion
4 as to whether or not a particular projectile has been
5 fired from a gun.

6 Q. Are you also able to do that with shell
7 casings?

8 A. Yes.

9 Q. I'm showing you what has been previously marked
10 as State's Exhibit No. 30, 31, and 32. Do you recognize
11 them (indicating)?

12 A. Yes, sir, I do.

13 Q. What do you recognize them to be?

14 A. Well, the external markings indicate the
15 firearms laboratory number as well as the item
16 designation and my initials. The contents of the
17 packages or the boxes are fired .380 auto Remington
18 Peter brand cartridge cases.

19 Q. And I'm showing you what's been previously
20 marked as State's Exhibit No. 42. I believe the
21 evidence tag fell off. Do you recognize that
22 (indicating)?

23 A. Yes, sir, I do.

24 Q. And what do you recognize it to be?

25 A. This is a .380 auto Bersa brand, Thunder model,

1 semiautomatic pistol.

2 Q. Did you conduct an examination of Items 30, 31,
3 and 32?

4 A. Yes, sir, I did.

5 Q. And what was the purpose of that examination?

6 A. The purpose of the examination was to
7 determine, if possible, whether or not the fired
8 Remington Peter cartridge cases that are contained in
9 State's Exhibit No. 31, 32, and 30 had been fired in
10 that Bersa .380 pistol.

11 Q. And after your examination of those items, 30,
12 31, and 32, were you able to reach a conclusion about
13 whether or not they were fired from that Bersa pistol?

14 A. Based on my microscopic comparison of the fired
15 cartridge cases in this case, State's 30, 31, and 32,
16 against the test-fires that were made with State's
17 Exhibit 42, it was my opinion that the fired cartridge
18 cases were fired in State's Exhibit No. 42.

19 Q. I'm showing you what's been previously marked
20 as State's Exhibit No. 43. Do you recognize that
21 (indicating)?

22 A. Yes, sir, I do.

23 Q. And what do you recognize that to be?

24 A. The contents of State's Exhibit 43 is a single
25 fired copper jacketed bullet.

1 Q. And I'm showing -- or I'm also showing you
2 what's been previously marked as State's Exhibit No. 44
3 and 45. Do you recognize that (indicating)?

4 A. Yes, sir, I do.

5 Q. And did you perform an examination on those
6 items?

7 A. Yes, sir, I did.

8 Q. And were you able to reach a conclusion about
9 whether or not -- or about those items in regard to that
10 9-millimeter pistol?

11 A. Yes, sir, I did.

12 Q. And what was that conclusion?

13 A. Based on my microscopic comparison of the
14 projectile that was contained in State's Exhibit No. 43,
15 back to the test-firings that were made with State's
16 Exhibit 64, it was my opinion that the fired projectile
17 contained in 43 was fired in State's 64. Would you like
18 me to recite the results with respect to State's 44 and
19 45?

20 Q. I'm sorry. Just to clarify. On State's
21 Exhibit No. 44 and 45, what were your conclusions on
22 those?

23 A. With respect to State's Exhibits 44 and 45,
24 based on my microscopic comparison, it was my opinion
25 that both 44 and 45 were fired in this 9-millimeter

1 Ruger pistol.

2 Q. And State's 44 and 45 are the shell casings?

3 A. That is correct, sir.

4 Q. Did you examine that gun for -- or the gun in
5 State's Exhibit 64 for functionality?

6 A. I did, sir.

7 Q. What was the result of that examination?

8 A. It was found to be functioning as designed
9 without any functional issues either during the
10 examination or test-firing.

11 MR. BALLENGEE: Pass the witness.

12 MS. McLAUGHLIN: Just briefly, Your Honor.

13 THE COURT: Thank you.

14 **CROSS-EXAMINATION**

15 **BY MS. McLAUGHLIN:**

16 Q. Mr. Baldwin, you testified that you examined
17 the casings of the 9-millimeter, State's 44 and 45,
18 correct?

19 A. That's correct, ma'am.

20 Q. And in your examination, is it true that those
21 casings had been run over, correct?

22 A. Well, I don't know if they had been run over.
23 They clearly appear to be damaged by something, but I
24 don't know what caused the damage.

25 Q. And in this case, were you provided at all with

1 any scene measurements or any scene diagrams?

2 A. No, ma'am, I was not.

3 MS. McLAUGHLIN: Pass the witness, Your
4 Honor.

5 **REDIRECT EXAMINATION**

6 **BY MR. BALLENGEE:**

7 Q. On State's Exhibit No. 43 --

8 A. Yes, sir.

9 Q. -- the projectile in this case --

10 A. Yes, sir.

11 Q. -- how would you describe the damage that you
12 noted in your report?

13 A. There is what appears to be a significant
14 abrasion on one side of the bullet and deformity.

15 Q. What is the damage to the front of the bullet,
16 to the head of the bullet?

17 A. Well, the bullet -- the head of the projectile
18 is deformed, but it has not expanded. It is a jacketed
19 hollow point, but it's still pretty much intact.

20 Q. If a bullet, a 9-millimeter bullet like this
21 were to directly hit the ground, how would the bullet --
22 a 9-millimeter bullet react?

23 A. Well, that would depend on the surface that
24 it's impacting.

25 Q. If it were to directly hit concrete, how would

1 that --

2 A. You would expect significant deformity on the
3 nose of the bullet.

4 Q. And is there significant deformity there on 43?

5 A. On the nose?

6 Q. Yes.

7 A. No.

8 MR. BALLENGEE: Pass the witness.

9 MS. McLAUGHLIN: No further questions for
10 this witness.

11 THE COURT: Thank you so much. We
12 appreciate your testimony. You are excused.

13 THE WITNESS: Thank you, Your Honor.

14 THE COURT: Next witness.

15 MR. BALLENGEE: Your Honor, at this time,
16 the State rests.

17 THE COURT: Very well.

18 Ladies and gentlemen, the State has now
19 rested. Instead of starting with the defense, we're
20 going to take a break. We'll wait for lunch to get
21 here. And once you finish your lunch, let us know and
22 we'll get things started. Thank you so much. Don't
23 discuss the case, remember.

24 THE BAILIFF: All rise for the jury.

25 (Lunch recess)