

1 IN THE CIRCUIT COURT OF THE TWELFTH JUDICIAL CIRCUIT
2 IN AND FOR MANATEE COUNTY, FLORIDA

3 STATE OF FLORIDA,

4 Plaintiff,

5 vs.

No. 2010-CF-004313

6 CARLOS A. RIVERA,

7 Defendant.

8
9
10 DEPOSITION OF JANINE S. ARVIZU
11 June 15, 2012
12 1:15 p.m.
13 at the Offices of
14 KATHY TOWNSEND COURT REPORTERS
15 110 Twelfth Street, NW
16 Albuquerque, New Mexico 87102

17 PURSUANT TO THE FLORIDA RULES OF CRIMINAL
18 PROCEDURE, this deposition was:

19 TAKEN BY: MR. JOHN WILKING
20 ATTORNEY FOR THE PLAINTIFF

21
22 REPORTED BY: DENISE KOPAN, CCR #124
23 KATHY TOWNSEND COURT REPORTERS
24 110 Twelfth Street, NW
25 Albuquerque, New Mexico 87102

A P P E A R A N C E S

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E X H I B I T S

(None)

1 JANINE S. ARVIZU

2 after having been first duly sworn under oath,
3 was questioned and testified as follows:

4 EXAMINATION

5 BY MR. WILKING:

6 Q. We are present here in the State of Florida
7 versus Carlos A. Rivera, Criminal Case Number
8 2010-CF-004313. Present for the State Attorney's
9 Office in the Twelfth Judicial Circuit in Manatee,
10 Florida, is John Wilking, Assistant State Attorney, and
11 Suzanne O'Donnell, Assistant State Attorney. Present
12 for the defense via telephone is Mr. Kirkconnell and
13 present is the witness.

14 And if I could ask the witness to please
15 state your name and spell it for the record.

16 A. Janine Arvizu. J-a-n-i-n-e, A-r-v-i-z-u.

17 Q. All right. Ms. Arvizu, where are you
18 currently employed?

19 A. I work as an independent contractor providing
20 consulting services.

21 Q. Okay. And do you work from home and then
22 kind of go out to places, or how does that work?

23 A. Yes.

24 Q. Okay. Great. Must be nice. All right.
25 Tell me how you, I guess, became involved in this

1 case.

2 A. I was contacted by the office of Kirkconnell
3 & Snure in Florida and I actually -- I didn't bring the
4 date with me. I don't remember when that original
5 contact happened.

6 Q. Okay. And, for the record, you are located
7 where?

8 A. I am in Tijeras, New Mexico.

9 Q. All right. How is the weather out there?

10 A. It's lovely.

11 Q. Oh, nice. Okay.

12 A. It's not humid.

13 Q. Well, I can't say the same for us. All
14 right. So you got, I guess, contacted by Mr.
15 Kirkconnell or Mr. Snure from their office via
16 telephone or something like that?

17 A. I just don't remember. It may have been
18 telephone, it may have been e-mail.

19 Q. Okay. And as a result of this conversation,
20 you decided to cooperate and investigate in this case
21 that we have before us?

22 A. I don't know exactly what "cooperate and
23 investigate" means. I was asked to conduct a data
24 quality assessment of the forensic results in this
25 case.

1 Q. Much better than I said it. Okay. All
2 right. And as a result of that, are you being paid?

3 Is there a contract that you entered into
4 with Mr. Kirkconnell's firm?

5 A. I am being paid at a rate of \$150 an hour for
6 my services.

7 Q. Okay. All right. So tell me, I guess, what
8 you intend on testifying to in regard to this case
9 overall, kind of, in general, a statement, and then, I
10 guess, we can talk about that in a little more detail
11 afterwards.

12 A. Okay. Whenever I am asked to do a data
13 quality assessment of a laboratory report, there are
14 three general areas that I look at the records to see
15 and make an assessment of the work, and that is the
16 integrity of the samples that were subject to analysis.

17 Q. Okay.

18 A. The scientific validity of the analytical
19 methods that were used, were they appropriate methods
20 to draw the reported conclusions for their intended
21 use, and, finally, was the measurement process, and
22 that's the entire process, reliably performed. Are
23 there contemporaneous records that would indicate that
24 all the measurement systems and so forth were in
25 control at the time the measurement was done.

1 So I look at those three areas and provide
2 feedback based on what I am given as discovery, but
3 what this really represents sort of the foundational
4 scientific record as to the practices that were
5 performed in the laboratory and the observations that
6 were made and the results that were obtained.

7 Q. Okay. And did you make any notes or reports
8 regarding this analysis?

9 A. I have not been asked to prepare a report at
10 this point. Sometimes I am and sometimes I am not. I
11 have not been asked to prepare a report at this point.
12 I have a lot of -- the discovery material is pretty --
13 it fills a large binder and I have notes written on
14 that and I have notes written, like I edited the Motion
15 to Compel, all the back and forth about discovery,
16 about whether we had received complete discovery or
17 that kind of thing, but I have not been asked to and
18 have not prepared a formal written report.

19 Q. Okay. So you don't have any notes or
20 anything regarding your findings, then, just kind of --

21 A. Well, my own notes, yes.

22 Q. Okay.

23 A. Not anything resembling complete sentences.
24 Sometimes pretty terse little comments in the margin.

25 Q. Okay. So, like, field notes to yourself kind

1 of thing, right?

2 A. Yes.

3 Q. Okay. All right. So I guess we will take --
4 you have three different breakdowns of areas of
5 analysis. So let's just go in order. We will go with
6 the first one regarding integrity of samples.

7 What's your knowledge as far as the -- before
8 we get into that, what type of sample was taken in this
9 particular case?

10 A. What type of sample?

11 Q. Yes.

12 A. A blood sample.

13 Q. Okay. There you go. All right. So in
14 regard to the blood sample, did you make any analysis
15 or findings regarding this specific blood sample, or
16 just did you analyze the way in which the laboratory
17 that was used on Mr. Rivera's blood conducted its, you
18 know, its business and its studies and so forth?

19 A. I am not sure I understand your question.

20 Are you asking me --

21 Q. I will make it a little clearer.

22 Did you study this specific sample, or did
23 you study how the lab studied the sample?

24 A. I did not test this specific sample. I
25 didn't perform any testing on this specific sample.

1 What I reviewed were the contemporaneous records that
2 describe the sample and its collection that were
3 provided to me during discovery, and that includes both
4 prior to its receipt by the laboratory, as well as
5 after it was received by the laboratory.

6 Does that make sense?

7 Q. Yes. That makes perfect sense.

8 A. Okay.

9 Q. Did you use anything other than those notes
10 that were provided in discovery?

11 A. Did I use -- I am not sure I understand that
12 one, either.

13 Q. Well, you just said you used notes regarding
14 the lab before the sample was taken and after?

15 A. Yes.

16 Q. Did you use anything else outside of those
17 materials to form your opinions regarding this matter?

18 A. Like other reference materials, that type of
19 thing, is that what you are asking?

20 Q. Documents, anything like that, yes. I mean,
21 besides your general knowledge and training and
22 education, obviously.

23 A. Yes. There are materials that are provided
24 by the manufacturers of blood tubes that describe the
25 conditions under which they are appropriate for use,

1 and those were requested, typically, in discovery, but
2 I didn't actually get copies of them in this case. So
3 I just relied on the generic ones that I have seen that
4 describe appropriate conditions.

5 Q. Okay. And is there a way you could maybe
6 e-mail those to us later?

7 A. Certainly. It's provided by
8 Becton-Dickinson.

9 Q. Okay. What's the spelling of that?

10 A. B-e-c-t-o-n-D-i-c-k-i-n-s-o-n, I think. I am
11 better if I can see it.

12 Q. Okay. That's all right. That's close
13 enough.

14 And they provide the generic --

15 A. Sorry. I was interrupting.

16 Q. No. Go ahead.

17 A. They publish and make available instructions
18 for the appropriate conditions for use of their
19 materials, of their tubes.

20 Q. And you said, "their." Who are you referring
21 to?

22 A. I'm sorry Becton-Dickinson. They are the
23 biggest manufacturer of blood tubes for blood alcohol
24 testing.

25 Q. Oh, okay. And do you know if those are the

1 type of tubes that were used in this case?

2 A. I do not, because the -- I couldn't tell from
3 the materials that were provided to me. For example, I
4 had an expiration date, but not a lot number to look
5 up.

6 Q. Okay. So regarding the integrity of the
7 sample, tell me how you, I guess, start to determine
8 whether the integrity was met or not.

9 A. The basic issues for blood tubes are that
10 they need to be stored in appropriate conditions
11 between the time that you purchase them and the time
12 that you use them. They have a shelf life that is
13 written on the label on the tube and that expiration
14 date is essentially conditioned on it being stored
15 properly.

16 So there are storage conditions that are
17 established for these tubes and it typically specifies,
18 I believe it's 39 to 77 degrees Fahrenheit, as the
19 appropriate storage conditions; that is, the
20 manufacturer certifies that the tube is appropriate for
21 its use and the seal will maintain its integrity if
22 it's stored within those conditions.

23 Q. And you are referring to before the tubes are
24 used to store the blood or while they are storing
25 blood?

1 A. That is correct, it's before the tubes are
2 used to store the blood, before they are used to
3 collect the blood.

4 Q. Right.

5 A. That's to make sure that the seal integrity
6 is not compromised.

7 Q. Okay. And then to be clear, you did not
8 study these particular tubes that were used in this
9 case?

10 A. That is correct.

11 Q. Okay. So go ahead and explain that.

12 A. Yes. What I am looking at in the
13 documentation, for example, is do they have a
14 systematic means of ensuring that all the things that
15 can influence data quality have been identified and are
16 being controlled.

17 Q. By "they," and I didn't mean to interrupt,
18 who do you mean by "they"?

19 A. In this case, it's the people responsible for
20 collecting the blood and ultimately the laboratory.

21 Q. Okay. Perfect. Sorry to interrupt. Go
22 ahead.

23 A. That's okay. And so what I am looking at on
24 the documentation is whether or not they specify and
25 instruct the user in the appropriate use of the tubes

1 so that the data collection people, if they are
2 following their own instructions or their own
3 procedures, will they comply with all the requirements.

4 Q. Okay. And this is based on your review of
5 the documents provided to you?

6 A. That's correct.

7 Q. Okay. So, I guess, what were your findings
8 in regard to --

9 A. The requirements for the color of the
10 additives in the tube are not addressed in the
11 procedures that were used in this case.

12 Q. Back up and explain.

13 A. Okay. These blood tubes have material added
14 to serve as an anticoagulant and as a preservative.
15 They are provided that way from the manufacturer. The
16 manufacturers' instructions state that the material
17 should be white or to a pale pink in color if it's
18 acceptable for use, and if it's not white or very pale
19 pink, then it should not be used. So I look at the
20 instructions that the data -- that the sample
21 collection people are using to see whether they check
22 the color of the tube additives, and, in this case,
23 they did not.

24 Q. Now, does that mean they did not have those
25 specific instructions in the documentation that you

1 read?

2 A. That's correct.

3 Q. Okay. So you don't know one way or the other
4 whether they actually did this procedure in checking
5 the colors of the additives?

6 A. That is correct.

7 Q. Okay. So anything other than the colors of
8 the additives regarding the instructions and the lack
9 thereof from the instructions that you found during
10 your analysis regarding the integrity of samples?

11 A. Yes. In addition, the instructions specify a
12 specific number of inversions, like eight to ten
13 inversions, and describe what an inversion is
14 immediately after collection so that, essentially, the
15 additives can do their work properly.

16 The notation in this particular case, I
17 believe, was -- I think the term was "several times."
18 I'd have to check, but I believe the term was "several
19 times" rather than explicit compliance with the
20 instructions.

21 Q. Okay. You're going to have to kind of break
22 that down for me a little bit regarding the
23 inversion.

24 What is an inversion exactly?

25 A. It would be so much easier if I could show

1 you, but if you will grab a pen in your hand, in your
2 fist, and hold it out --

3 Q. Okay.

4 A. -- at arm's length with the pen vertical and
5 then you tilt your hand so the tip that was up is now
6 down.

7 Q. Okay.

8 A. And you tilt it back so the tip is back up.

9 Q. Uh-huh.

10 A. That constitutes one inversion.

11 Q. Okay. So are you saying that this is given
12 by the manufacturer and the instructions are to
13 maintain the integrity of the tubes for the sample that
14 there has to be a certain number of inversions or a
15 lack of a certain number of inversions?

16 A. Yes. Depending on the type of tube and the
17 type of additive, they specify different numbers of
18 inversions.

19 Q. And that's the manufacturer, when you say,
20 "they," correct?

21 A. Yes. Sorry.

22 Q. Okay. And that's on their specific, I guess,
23 tube, right, their brand of tube?

24 A. Yes. It's not on the tube, itself. It's in
25 the supporting materials.

1 Q. Right. I got you. And, again, you didn't
2 inspect the tubes in this case?

3 A. No.

4 Q. You are just going based on the documentation
5 provided to you according to the lab and the usage of
6 their tubes?

7 A. That is correct.

8 Q. Okay. I am just making sure I am following.
9 All right. So now I know you said something about the
10 only indication was that this said "several times" and
11 it didn't have a number; is that correct?

12 A. Yes.

13 Q. Okay. And if I follow, and I am just trying
14 to put it a little clearer in my head here, the
15 instructions by the manufacturer are supposed to have a
16 designated number, you know, a numeric value to which
17 you're not supposed to invert the tubes; is that
18 correct?

19 A. To which you're not supposed to?

20 Q. Right. Like there is a maximum number of
21 inversions you're supposed to have, or is there a
22 minimum?

23 A. I think their biggest concern is the minimum
24 rather than the maximum.

25 Q. Okay. In other words, like a ceiling, you

1 can't do it more than this many times or else you lose
2 the integrity, or am I misunderstanding?

3 A. Their concern is that the additive be
4 homogeneously distributed throughout the blood sample.

5 Q. They want it to be mixed?

6 A. Yes.

7 Q. Okay.

8 A. Yes.

9 Q. So there is a you need to do it this many
10 times until it's homogeneously together until, you know
11 -- so you can get an accurate sample, in other words,
12 right?

13 A. That is correct.

14 Q. And so you are saying that the instructions
15 only say, "do it several times" rather than a specific
16 number?

17 A. That's correct.

18 Q. Okay. Now, what about that in regard to the
19 manufacturer is not sufficient? I can rephrase if you
20 are kind of confused.

21 A. I am.

22 Q. If there is something that the manufacturer
23 would say that is the minimum amount of times that it
24 needs to be inverted that the lab in this case did not,
25 I guess, match up to?

1 A. The manufacturer says eight is the minimum.
2 And it's not the lab. It was at the point of sample
3 collection that that has to be done. That's days
4 before it ever gets to the lab.

5 Q. Right. Okay. I was just making sure.

6 All right. So, in other words, the
7 instructions for the person who collects it in the
8 field would be, you know, it would say "several times"
9 here versus the manufacturer needing it to say "at
10 least eight"?

11 A. Yes.

12 Q. Okay. Now, do you know specifically what the
13 implications of inversions being, I guess, below the
14 minimum amount are?

15 A. Yes. The potential is that the additives
16 will not function as they are intended; that is, that
17 the preservative and/or the anticoagulant won't serve
18 their intended purpose. And, in both cases, they are
19 designed, to the extent possible, to ensure that the
20 sample that's collected is the same as the sample
21 that's ultimately analyzed in the laboratory.

22 Q. And, again, you don't know one way or the
23 other whether -- let's just use the number eight
24 because that's what the manufacturer indicated -- you
25 don't know one way or the other whether the tubes in

1 this particular case were inverted eight times or not?

2 A. I do not.

3 Q. Now, what are the implications if the color
4 is wrong? I know we kind of skipped over that a little
5 bit.

6 A. Color changes in chemicals are an indication
7 that some sort of a chemical process has taken place.
8 It may mean degradation of that material. So it can no
9 longer be efficacious in its intended purpose. And so
10 it's kind of like pouring out a glass of milk and it's
11 not white. That's sort of an indication that something
12 has changed and you probably shouldn't use it for its
13 original purpose.

14 Q. Makes sense. I understand. Don't want to
15 drink discolored milk. Okay.

16 And again, you don't know one way or the
17 other whether the colors were not white or light pink
18 in this case?

19 A. I do not.

20 Q. And does that conclude your findings
21 regarding the integrity of the samples?

22 A. Does that include?

23 Q. Does that conclude your findings regarding
24 your first, I guess, area of testimony regarding the
25 integrity of samples?

1 A. The samples were collected on May 2nd of
2 2010, placed in evidence in Bradenton that same
3 morning, received at the FDLE lab on May 6th, and then
4 ultimately analyzed on May 22nd.

5 One of the key factors in protecting the
6 integrity of samples is temperature. And so we
7 requested and I reviewed the records to see whether
8 there was documentary evidence that the samples'
9 temperature was controlled from the point of collection
10 to the point of testing. And it wasn't possible to
11 demonstrate that through the records that were
12 provided.

13 Q. So you have no knowledge one way or the other
14 whether the temperature was kept where it's supposed to
15 be or not?

16 A. That is correct. I do know that the lab did,
17 I believe, an internal audit, I'd have to check to be
18 sure, in August of 2010, at which time, they recognized
19 that the thermometers that they had in their
20 refrigerators that were used to store evidence and
21 standards were out of calibration. And so that would
22 seem to imply that at the time this work, this sample,
23 was in the refrigerator, even if they had been doing
24 temperature measurements, they were not necessarily
25 reliable.

1 Q. And what was that date you said?

2 A. August of 2010.

3 Q. Okay. That's what I thought. And did you
4 get that information from the materials that we
5 provided or some other materials?

6 A. Yes, all of this is from materials that were
7 provided.

8 Q. Okay. Perfect. Okay. Do you have any other
9 opinions regarding the integrity of samples?

10 A. Upon receipt, the analyst makes a notation as
11 to the sample volume that's present in the tube. In
12 this case, it's called -- I don't know how to refer you
13 to this page because this one doesn't have a Bates
14 stamp on it, but --

15 Q. Is there a heading on the page or something
16 like that for the record?

17 A. Yes. It's called "FDLE Toxicology Evidence
18 Inventory Form."

19 Q. Okay. That's fair.

20 A. And it essentially documents the conditions
21 of the tube upon receipt by the analyst in the
22 laboratory.

23 Q. Is that the specific tube used in this case,
24 or you just mean tubes, in general?

25 A. No, I mean this specific tube. The tube that

1 is labeled with Carlos Rivera's name.

2 Q. Okay. And what about that now?

3 A. That form documents the fact that it was
4 opened by somebody named "CEP," and I can't really tell
5 if that was the tube or if that was the box that the
6 evidence was in, but this is typically -- excuse me?

7 Q. What was the date and the time of that?

8 A. I can't tell when it was opened. It says,
9 "Analysis Start Date: May 20th, 2010."

10 Q. Okay. So earlier you had said that it was
11 analyzed on May 22nd, however?

12 A. That's correct.

13 Q. Okay. So go ahead and continue. Sorry. I
14 just wanted to --

15 A. Well, yes, that begs the question of what was
16 the temperature during the intervening time, but the
17 reason I was discussing this form was because there
18 were two gray-stoppered vials, ten-milliliter vials,
19 it's circled that sodium fluoride and oxalate was
20 present in those tubes and then the volume in both
21 tubes, they are labeled A and B, is described as
22 greater than three-fourths, which I would understand in
23 a ten-milliliter tube to be more than seven
24 milliliters.

25 Q. Right. Now, there are a few things in that

1 statement that I kind of want to touch on.

2 First, regarding the temperature, what effect
3 would the temperature being outside of that 39- to
4 77-degree range have on the sample?

5 A. There are a couple of bad things that happen
6 at elevated temperature when you are talking about
7 either blood samples or samples for the determination
8 of ethanol. First is that blood is incompatible with
9 room temperature storage if you want its condition not
10 to change. It tends to be subject to biological
11 activity. So lowering the temperature and storing a
12 blood sample at refrigeration, under refrigeration,
13 helps preserve that sample in its original condition.

14 The second problem that can occur when blood
15 is at elevated temperature is that ethanol is a
16 volatile organic. That means that it's -- it has a
17 tendency to move from the liquid phase to the gas phase
18 or to move into the vapor phase. It changes that
19 equilibrium. So by keeping the temperature low, we
20 minimize that effect.

21 The other thing is that elevated temperature
22 means the microbes can be more active, and those are
23 the ones that can cause fermentation and actually
24 generate ethanol. So we really want, for a lot of
25 reasons, to store blood alcohol samples at low

1 temperatures so that it helps preserve it in its
2 original state.

3 Q. Now, would you see a difference in the sample
4 if it was fermenting?

5 A. Would you see a difference, no.

6 Q. No?

7 A. Not necessarily, no.

8 Q. Okay. Now, I think a couple other things you
9 were talking about regarding this prior statement that
10 you made, that this particular sample contained, I
11 think, and correct me if I am wrong, more than
12 three-fourths -- what was it that you said, sodium?

13 A. No. The more than three-fourths reference is
14 the volume. It's essentially how completely was the
15 tube filled.

16 Q. Okay.

17 A. Because these tubes, when they are supplied
18 by the manufacturer, are designed for a nominal fill of
19 ten milliliters. That's ten milliliters plus or minus
20 about .7 mils. So with the original vacuum, they are
21 designed to fill ten milliliters.

22 Q. Now, do you know why it was less than ten?

23 A. I do not know why. There can be a number of
24 reasons why.

25 Q. What could be the reasons?

1 A. One of the reasons is if the seal integrity
2 had been compromised and some of the vacuum had been
3 lost, some air had been allowed into that tube. And
4 one of the reasons that could be is that the tube was
5 stored at high temperature or at low temperature,
6 outside its specs, then if that lets air in and there is
7 less vacuum, it's less able to suck in blood. And
8 so you get an underfill.

9 Another reason can be just the medical
10 condition of the person that you are drawing blood
11 from. So the fact that it's not full doesn't tell you
12 anything conclusively as to why that is, but it
13 suggests that there might have been one of these kinds
14 of issues earlier on in the process. It can actually
15 be that the person who is doing the draw simply removes
16 the needle before it's full.

17 Q. Okay. So you can't conclusively say what the
18 reason is; you are just saying that there are all kinds
19 of reasons that you just described?

20 A. That's correct. If the reason was compromise
21 of the seal integrity, then I can't have confidence
22 that the contents of that sample are truly
23 representative of the subject's blood at the time it
24 was originally collected.

25 Q. Right. Okay. All right. So did we finish

1 up on the integrity of the samples?

2 A. Yes.

3 Q. And the issues with that?

4 A. Yes.

5 Q. All right. So moving on to the scientific
6 validity of the methods used for your conclusions -- or
7 for their conclusions.

8 A. Okay. Do you have the materials that were
9 Bates stamped?

10 Q. I believe so, yes.

11 A. Then I would refer you to the pages starting
12 with 2164.

13 Q. 2164. Okay. I am going to have to go get
14 those. So hold on one second.

15 All right?

16 A. Okay.

17 Q. All right. We have some materials that we
18 sent, but I don't see a Bates stamp on them. It may
19 have been after the fact.

20 A. Oh. Well, that's a bummer.

21 Q. Yes. I agree. Do you know kind of, like,
22 the heading, or what it says?

23 A. Yes. If you are reviewing a bunch of data
24 and you see anything that looks like instrument data
25 dated March of 2004, March 12th, 11th or 12th of 2004,

1 that's the right area. The header of the written
2 document is called, "Alcohol Analysis - PE Autosystem
3 XL with PE Turbomatrix HS110."

4 Q. All right. What about that?

5 A. Okay. In the discovery, what was requested
6 was a copy of the lab's documentation of their
7 validation of the method that they used.

8 Q. Okay.

9 A. Now, validation means something very specific
10 to an analytical chemist. It's the process that you go
11 through where you plan out an empirical test protocol
12 to determine how well a method works, essentially,
13 under what conditions it works, under what conditions
14 it doesn't work, and what its performance is so that
15 you can evaluate its performance and determine whether
16 or not that is an appropriate method for whatever
17 intended use you're going to put it to.

18 Now, in the case of a blood alcohol
19 measurement for forensic purposes, the laboratory is
20 doing a couple of different things: First, it needs to
21 identify ethanol; that is, not simply assume that it's
22 ethanol, but actually identify ethanol.

23 That's called "qualitative identification."

24 They need to quantify how much ethanol is present.

25 That's called the "quantitation." And they need to

1 report or understand or determine the uncertainty of
2 the measurement so that they know how well they can do
3 it. And validation is the process that you go through
4 running known samples under specific conditions to
5 determine those things. So we ask for their complete
6 validation file.

7 Q. Okay.

8 A. And this is what I got, and I'm sorry you
9 don't have it with you, but it looks like, on the
10 materials I have got, it is from page 164 to page 226.
11 So I have got about 60-some, 70 pages worth of material
12 that were provided.

13 Q. That's in regard to the validation?

14 A. That's correct.

15 Q. Okay.

16 A. And it's titled "Revalidation Summary
17 Report," this document.

18 Q. Revalidation Summary Report.

19 A. Uh-huh.

20 Q. I was just repeating you.

21 A. Oh, okay.

22 Q. All right. So what about that particular
23 file was of interest to you?

24 A. Okay. A couple of things. One, its scope,
25 and the second, its actual performance.

1 Q. Let's start with scope.

2 A. Okay. This is described as a revalidation,
3 and it seems to rely on the previous validation that we
4 were not provided copies of. So really all I could
5 review was what we got.

6 Q. All right.

7 A. And it describes the procedural modifications
8 that were used and it says that these studies were
9 completed on March 10th and 11th in 2004. That's the
10 right time frame for the procedure that we got in this
11 case.

12 It uses a 2004 procedure to run the samples
13 in 2010. That's okay. I have to operate on the
14 assumption that that actually -- this procedure that
15 was used in this case is the same one that was used
16 back in 2004 for this revalidation.

17 When you do a validation study, accuracy and
18 precision are probably two of the ones that people
19 think of first. They are not the same thing. Accuracy
20 is how close a result is to its true value, and
21 precision is how closely grouped multiple results are.

22 Q. Right.

23 A. So it determines both of those. And,
24 importantly, it determines how selective the method is;
25 that is, how effectively the method distinguishes

1 ethanol from all the other things that might be present
2 in a sample and interfere with or be misinterpreted as
3 ethanol.

4 And this revalidation study doesn't even
5 address that selectivity. It only addresses accuracy
6 and precision. And it gives a -- let's see, it draws
7 conclusions about sensitivity and linearity based on
8 the results it obtained for accuracy and precision.

9 On two different days, they ran samples,
10 known samples, three samples, three replicate samples,
11 on each day, although they really can't count them as
12 three because one of them was actually the
13 calibrators.

14 So they are drawing conclusions about
15 accuracy and precision based only on two duplicate
16 samples run on two different days. The reason that's
17 important is because the statistics around this kind of
18 a measurement are not very meaningful when you only run
19 two samples, and, even more importantly, on only two
20 days, two different days.

21 The day-to-day variability is typically much
22 larger than the variability on a single day. So this
23 is what I would call an extraordinarily weak validation
24 study, but, again, they may be relying on some previous
25 revalidation that I don't have any records for.

1 The problem with selectivity back in 2004
2 when they were running this is that when they ran these
3 samples, they ran a sample -- and I'm going to describe
4 it for you so you'll be able to find it in your
5 records. It's a chromatogram. It looks like kind of a
6 graph put out by the instrument.

7 Q. All right.

8 A. There is header information at the top and
9 then there is this picture of a bunch of peaks. And
10 this particular one has a data acquisition time of
11 3/11/04 at 6:29:34 p.m. So that's the time that it
12 went through the auto sampler and was injected into the
13 instrument.

14 Q. Okay.

15 A. The sample name is described as "Volatiles
16 Mixture," and there are five peaks that show up in this
17 spectrum: Acetone, methanol, isopropanol, ethyl
18 alcohol, and n-propanol. N-propanol is added to each
19 of the samples and standards as an internal standard.
20 The other four are all compounds that they are looking
21 for.

22 The purpose of running a volatiles mix is to
23 get actual empirical evidence of whether or not your
24 method is working to separate ethanol from all the
25 other compounds that might possibly be out there. And,

1 in this case, this chromatogram very clearly shows that
2 ethanol and isopropanol are what's called, "they are
3 not resolved"; that is, they overlap.

4 And that's really objective evidence that
5 this gas chromatograph method is not serving its
6 intended purpose, to separate ethanol to make sure that
7 when you measure a peak, if you think it's ethanol that
8 it's only ethanol.

9 Q. Okay.

10 A. So that's a heads-up that the method has not
11 been successfully validated for its intended use.

12 Q. Okay. Now, was there anything else about the
13 validity of the methods regarding the scope of the
14 validation that you found significant?

15 A. Yes. The purpose of validation is to really
16 understand the uncertainty of the measurement. I have
17 already referred to the weakness of only running a
18 couple of samples on a couple of days.

19 Q. Right.

20 A. In addition, there is no traceability for the
21 standards that they used. So I don't know how -- there
22 was nothing to document how reliable it was, the
23 standard that they were comparing it to for purposes of
24 accuracy.

25 Q. Now, is this in regard to the same thing as

1 you spoke about in the very beginning when you said
2 there were three major aspects and the third being
3 measurement process reliably performed?

4 A. Well, this is still validation, because part
5 of validation is determining your uncertainty. And so
6 it actually is sort of how reliably was the validation
7 performed, if you will.

8 Q. Okay. But it's not exactly -- you are still
9 in your second major point regarding the scientific
10 validity, but you're not quite to that last one?

11 A. Yes.

12 Q. So that was regarding the reliability of the
13 validation.

14 A. Okay. The validation is further a problem
15 because the laboratory did not run a blank sample, or
16 what's sometimes called a "negative control sample," in
17 the batch that they used to run -- to collect their
18 validation data.

19 As a result, if there was contamination
20 present, then the whole premise of their validation
21 study falls apart. They would not know it and they
22 would be drawing improper scientific conclusions about
23 the performance of their method.

24 Q. Okay. And just to be clear, you are still
25 referring to the revalidation report from 2004?

1 A. That's correct.

2 Q. Okay. All right. So what other significance
3 did you find of importance?

4 A. That's pretty much it for the revalidation --
5 for the validation study.

6 Q. All right. I did find the report just now.
7 So let me just review it one second.

8 A. Okay.

9 MR. WILKING: Can we go off the record for
10 one moment?

11 (Discussion off the record.)

12 Q. (By Mr. Wilking) We can go back on.

13 All right. Ms. Arvizu, go ahead and continue
14 with -- I believe that concluded the validity issues
15 that you tested in this matter, correct?

16 A. Correct.

17 Q. Okay. So I believe the last aspect that you
18 are going to discuss is the measurement process?

19 A. Yes.

20 Q. Whether it was reliably performed?

21 A. Yes.

22 Q. And just real quick, do you mean the
23 measurement process in regard to this specific sample
24 and whether it was reliably performed?

25 A. That's correct.

1 Q. Okay. So why don't you go ahead and tell me
2 a little bit about that?

3 A. Okay. The process that I use is to review
4 the laboratory's what they call "standard operating
5 procedure," SOP, and see whether it essentially
6 complies with national and international standards for
7 doing this kind of work and then see whether they
8 followed their own procedure in practice or whether
9 there were gaps and omissions. So it's kind of a
10 tiered approach.

11 Q. Okay.

12 A. Let's see, where to start? I think I will
13 just go through in order of the documents so you can
14 keep the document numbers straight, how about that?

15 Q. Sure.

16 A. Okay. Let's see, in the laboratory's
17 standard operating procedure on page Bates 2023, there
18 is a section called, "Reagents, Calibrators, and
19 Controls." This is where the laboratory describes
20 these materials that are used during testing to tell
21 the instrument what the right answer is and then to
22 check how well the instrument is performing.

23 So it has the instructions, or the recipe, if
24 you will, for preparing the materials or where they buy
25 them. It does not specify or mandate any expiration

1 dates for these materials, nor does it address
2 explicitly how those materials are verified as being
3 appropriate before they are being used.

4 These are the kind of things that are
5 established in standards to make sure that everything
6 is in control at the time that you do your testing. It
7 does not, in fact, in this section even specify a
8 requirement that a blank be included as one of the
9 necessary controls in each and every batch.

10 Q. So, in other words, the review of that
11 document on the Bates stamp page number 2023 regarding
12 the laboratory's standard operating procedure, I guess,
13 lacks some of the specific things that are located or
14 that are known within the national standards?

15 A. Yes.

16 Q. Such as the blank that you are referring to?

17 A. Yes. Actually, a blank is even required by
18 the FDLE Alcohol Program rules. The Title -- oh, gosh,
19 I have forgotten -- 17, or something like that -- or
20 no, 11(D). I have a copy of it.

21 But the Alcohol Testing Program rules that
22 FDLE has promulgated actually requires a blank. It
23 does not, however, specify any requirements for that
24 blank. It just says you have to run one. It doesn't
25 say what is necessary for it to pass or fail.

1 Q. Now, to your knowledge, regarding the
2 standards that are, I guess, written and determined by
3 the FDLE rules and the national standards, you don't
4 know in this case whether they were or were not
5 followed, you are just relying upon the reports in the
6 standard operating procedure?

7 A. No. Actually, in this case, I actually have
8 the data.

9 Q. Okay.

10 A. So that's what we will be talking about.

11 Q. Okay. So why don't we go ahead and proceed
12 with what you were referring to?

13 A. Okay. The case file that was provided was
14 short, on the order of a dozen pages or so. That's the
15 one that had the inventory form we have talked about
16 earlier. It included the chromatograms for the
17 client's samples, there were four of them, because this
18 laboratory used what's called a "dual column
19 technique," where a single sample comes into the
20 instrument, it's split in half, and half of the sample
21 goes through one column and half of the sample goes
22 through a different column.

23 So if I run a sample in duplicate, I have
24 four chromatograms that result from that analysis. And
25 in the subsequent discovery, I actually received the

1 chromatograms for all of the controls from the batch
2 that it was run in. So that's what we are going to
3 talk about. Let's see.

4 Q. Go ahead and discuss the significance or the
5 importance of that.

6 A. Okay. I have to dig through my pages a
7 minute here. Okay. The chromatogram for the volatiles
8 mixture that was run in the same batch with the
9 client's samples --

10 Q. And do you have a Bates stamp on that one?

11 A. I do. I am getting to it here. Just a
12 minute. Okay. That's -- that one is hard to read.
13 2528.

14 Q. Okay.

15 A. That shows that in that volatiles mixture,
16 ethanol and isopropanol are not resolved. That's the
17 same problem that was observed during the volatiles
18 sample on the validation study. So this is essentially
19 verifying that at the time these samples were run under
20 these specific operating conditions on May 22nd,
21 ethanol was not separated from isopropanol.

22 Q. Do you have the time of that sample on that
23 page?

24 A. Yes. That sample was run, let's see, the
25 Bates I gave you is 2528 and the acquisition time was

1 May 22nd, 2010, at 11:42:17.

2 Q. P.m. or a.m.?

3 A. A.m.

4 Q. Okay.

5 A. Okay.

6 Q. Continue on with the -- now, out of my own
7 curiosity, was there more than one of these samples
8 taken where you had the chromatograph documented, or is
9 there just one done, or how does that work?

10 A. They only run the volatiles mix once with
11 each batch. So each time they fire up the instrument
12 and calibrate it, they run this one sample of this
13 volatiles mix.

14 Q. Now, is this done just in kind of the testing
15 of the instrument to see if it's working accurately, or
16 is this done before they measure or determine specific
17 samples, or both?

18 A. If I understood you correctly, it's
19 essentially both, because it's part of what we
20 typically refer to as "opening quality control."

21 Q. Okay.

22 A. That happens before you ever inject an
23 unknown sample.

24 Q. Okay. Like, for instance, I know that with
25 the breath testing instrument, you know, when they

1 perform the monthly and annual maintenance, they have
2 to do specific samples. They turn on the instrument
3 and then it performs a self-check and then it performs
4 the air blank and then they put in the sample. And if
5 it's a maintenance, they have a known sample and then
6 they have another air blank and a known sample and then
7 another air blank. And they do this when they are
8 doing maintenance, and then when they have a specific
9 subject sample, they have to do the self-checks at the
10 beginning before they enter their -- you know, the
11 specific individual's sample and then it goes to the
12 air blank.

13 Is that something that, you know, when you
14 are doing the instrument to test the blood or the
15 substance similar in that it does the test during
16 maintenance and during the actual suspect's sample?

17 A. Yes. And I would refer you to Bates number
18 2515. That's what's called a "Load List," and it
19 describes the sequence that this laboratory used in
20 practice for those kinds of known samples: The initial
21 calibration, followed by a known reference sample,
22 followed by unknowns, and then intermittently, there
23 are knowns in between the unknowns.

24 Q. Okay. And what you are referring to on the
25 Bates page 2528 was that, you know, they were doing a

1 diagnostic check or testing or maintenance of the
2 instrument at the time to revalidate it?

3 A. No. This is what's done each and every time
4 you're going to run a batch of unknown samples, whether
5 you are running one or 100.

6 Q. Okay. I guess my question is, does the
7 chromatograph that you are describing that was not
8 properly distinguishing the ethanol from, I think you
9 said, isopropanol, what was that chromatograph
10 depicting, just one time in which the test was run on
11 May 22nd?

12 A. It is part of the laboratory's protocol to
13 run a volatiles mix sample, which that was each and
14 every time they run the instrument. So each day that
15 they set up to run unknowns, they run a volatiles mix
16 sample first. It's actually the very first injection
17 even before they run their calibrators, because all
18 they are trying to evaluate is are we separating
19 ethanol.

20 Q. Okay. So, in other words, my question, I
21 guess, would be better phrased this way, is there a
22 chromatograph produced every time that they put in the
23 unknowns?

24 A. Yes.

25 Q. Okay. And is it just one of the

1 chromatographs that you noticed that did not adequately
2 separate the ethanol?

3 A. Oh, good question. No. The reason is this
4 is the only known chromatogram that is known to have
5 both ethanol and something else in it. Every other
6 sample that's run through this instrument is either an
7 unknown sample or it's a known sample that only has
8 ethanol in it and it's provided as a pure, clean
9 ethanol sample by the reference material provider. So
10 this is the only sample that would tell you if there
11 was a lack of resolution for ethanol.

12 Q. Okay. And so what is the significance of
13 that, then?

14 What is the importance?

15 A. It's objective evidence that the lab's method
16 is not appropriate or adequate for qualitatively
17 identifying ethanol with confidence and being able to
18 distinguish it from and selectively identify ethanol.

19 Q. And you are basing this off of just one
20 chromatograph?

21 A. Yes, yes.

22 Q. So earlier you were talking about how there
23 were only two samples on two days taken and that was
24 not enough to make a determination if it was, you know,
25 revalidated, you know, and procedural modifications,

1 you know, that the volatiles mix was accurate or
2 precise and selective, but you are saying that just
3 reviewing this one document on May 22nd is enough to
4 determine that their methods were not proper?

5 A. That's the way it's set up, yes.

6 Q. Okay. All right. So what else did you
7 analyze and then determine --

8 A. Okay.

9 Q. -- in reviewing the operating procedures?

10 A. At the top of that same page, the Load List,
11 which was Bates 2515, there is a table that's called,
12 "Reagents, Standards, and Controls."

13 Q. Right.

14 A. And that is a description of each of the
15 known control samples that were included in this
16 batch. And it describes either its lot number, if it
17 was purchased from an external provider, or its date of
18 preparation if it was prepared internally by the
19 laboratory.

20 This table also includes an expiration date.
21 In this case, the expiration dates that are provided
22 are the expiration dates for the unopened ampules that
23 are provided by the reference material suppliers. When
24 you buy either an aqueous standard or a whole blood
25 control standard, they ship them to you with an

1 expiration date, and that expiration date applies to
2 that in the condition that they ship it to you as long
3 as you store it appropriately.

4 These have to be refrigerated, or in the case
5 of whole blood controls, they have to be stored in a
6 freezer. And so as long as -- I'm sorry, you were
7 about to ask something?

8 Q. Yes. Did you determine, based on that, what
9 the expiration dates were for the unopened ampules used
10 in this case?

11 A. Yes.

12 Q. All right.

13 A. The laboratory provided discovery as
14 requested copies of what's called the Certificate of
15 Analysis from the standards suppliers. They
16 demonstrate that those lot numbers had these specific
17 expiration dates.

18 The problem occurs because the laboratory is
19 not documenting when they open those vials and how long
20 they use the opened vial. It's kind of like soy milk
21 that has an expiration date of several months, but it
22 must be used within a matter of days of opening because
23 once you open it to the environment, the environment is
24 a very dynamic, dirty place, and so it deteriorates.

25 The same thing happens with standards. In

1 those nice, sterile glass ampules, they last under
2 refrigeration for a very long time, but the moment you
3 crack the seal and open it to the environment, it has a
4 much shorter expiration date. And they are not
5 monitoring when they open those vials. They only are
6 referring to these expiration dates that are a couple
7 years out.

8 Q. Okay. So my question is, do you know the
9 expiration dates for our specific vials?

10 A. I know the expiration dates for the unopened
11 vials. I don't know when the opened vials would have
12 expired because I don't know when they opened them.

13 Q. Okay. For general purposes, do you know what
14 the logs would have said suggesting that they were
15 never -- you know, had they remained unopened, what the
16 expiration dates would have been?

17 A. Oh, sure. I may not have made myself clear.
18 Those are what's written on this form and what's also
19 on the Certificate of Analysis provided by the
20 manufacturer for that specific lot number.

21 Q. Okay. Do you know what the specific date
22 was?

23 A. There are a bunch of them.

24 Q. Oh, okay.

25 A. There is one for each different material.

1 There is a different date.

2 Q. Okay. And you can just go ahead and give me
3 the Bates stamp page number on that one.

4 A. It's that same page, 2515.

5 Q. Okay. Perfect. Okay. So if I am
6 understanding you clearly, there is a specific
7 manufacturer expiration date for the unopened ampules;
8 however, once those ampules are then opened, the
9 expiration date becomes closer in time?

10 A. Absolutely. That's correct.

11 Q. You also need to factor in separate
12 conditions, such as if they were stored in the proper
13 temperature and if the environment affected it in any
14 way, correct?

15 A. That is correct.

16 Q. Okay. And you are telling me, then, you have
17 no idea or no way of telling whether the expiration
18 date would have lasted prior to Mr. Rivera's samples
19 being taken because the lab did not accurately log the
20 time that the vials were opened or the ampules were
21 opened?

22 A. I don't know -- they didn't do it
23 inaccurately. They just didn't document it.

24 Q. Okay. So, in other words, the answer is you
25 don't know because of that?

1 A. That's correct. And because their procedure
2 is silent on the subject.

3 Q. Interesting way of saying that. Okay. I am
4 understanding. So then the next, I guess, area that
5 you were discussing were gaps and omissions.

6 Is that what you are referring to there, or
7 are there others?

8 A. Yes, that's one of the examples, yes.

9 Q. Okay. Do you have other examples?

10 A. Yes. You just mentioned, for example, the
11 issue of temperature and being able to show that the
12 standards were appropriately stored at the specified
13 temperature. The laboratory only checks the
14 temperature of the refrigerators once a month. The
15 Bates stamp for that one is 2491. This is a
16 refrigerator log for the laboratory's refrigerators and
17 it describes what's in them. And there are not any --
18 there are only once-a-month entries to this.

19 Q. What's the standard for the temperatures
20 being logged and checked?

21 A. There is not, like, a legal body or anything
22 that specifies how frequently you need to check
23 temperatures.

24 Q. But didn't you say that was an omission or a
25 gap in their --

1 A. Well, it is, in the sense that it's tied to
2 how you are using it. If it's something that you pull
3 out each day to use, for example, then you should check
4 its temperature each day.

5 Q. And where are you getting this information
6 from?

7 A. Where am I getting this information from?

8 Q. Where are you -- you are saying, "you
9 should."

10 A. Oh, okay.

11 Q. Where do you find that?

12 A. Here is an example. If you are only
13 monitoring your temperature of your refrigerator once a
14 month and you are storing materials in that
15 refrigerator for more than a month, or even less than a
16 month, even if you are storing materials in that
17 refrigerator for only a period of a couple of days,
18 then you don't have any contemporaneous measurement of
19 the temperature of that material unless it happened to
20 be in there on that one day that you measured the
21 temperature.

22 There have been cases --

23 Q. That's okay.

24 A. Okay.

25 Q. No, go ahead. There have been what?

1 A. When a refrigerator goes out of spec and
2 falls out of control, if you don't have more routine
3 monitoring of that temperature, it may come back in
4 control and you may be blissfully unaware of the fact
5 that it was out of spec for two weeks in the middle of
6 the month.

7 Q. This is just conjecture; you don't know one
8 way or the other on this?

9 A. Well, yes, but, like I said, it's exacerbated
10 by the fact that their own internal audit found that
11 their thermometers and their temperatures were out of
12 calibration at this period -- during this period.

13 Q. Okay. And you are referring to the August
14 time?

15 A. That's correct.

16 Q. Okay. Now, I follow you. Okay.

17 Anything else that you found in your
18 analysis?

19 A. The problem with the refrigerators, this is
20 equipment that, in the analytical chemistry world, is
21 referred to as "reference standards." The reference
22 standards that you use for balances for pipettes used
23 to measure volume, these devices, the only way that we,
24 as scientists, can rely on them is to have them
25 calibrated periodically by an accredited provider and

1 then intermittently to check them ourselves to make
2 sure that they are still in control.

3 And the laboratory's practices for pipettes,
4 which are used to actually measure out the amount of
5 blood and the amount of internal standard and for
6 balances which they use to check the pipettes, was to
7 certify them annually and there is no requirement
8 whatsoever for checking it in the intervening 12
9 months.

10 And that, frankly, was pretty stunning to me,
11 because I had never seen anybody who would truly
12 believe that a balance would stay calibrated for a year
13 without ever checking it in the intervening period.
14 More typically, if you are using a balance for good,
15 scientifically reliable measurements, you check it
16 daily prior to use.

17 So a year seems like a really extraordinarily
18 long time. It's also exacerbated by the fact that when
19 the laboratory -- let's see, I have got to get my right
20 dates here. I should have put the numbers on here.
21 When they sent it out for external calibration, there
22 are different kinds of calibration that you can
23 request.

24 So after this work was done, a year after
25 this work was done, when they sent it out for

1 calibration, they asked for what's called --

2 Q. Do you have a page number?

3 A. That's what I am looking for. I will get it
4 for you in just a second. They asked for an "as left
5 calibration." They never asked for or procured an as
6 received check. So they never actually even checked
7 that at the time it was done by the certified provider,
8 it even came back in control.

9 So it was essentially not -- it didn't have
10 its control verified for a very, very long time. That
11 is Bates number 2567. This is for their Hamilton
12 dilutor that they use to measure out the volume of
13 blood and the volume of internal standard.

14 They sent it outside to an accredited
15 laboratory to calibrate it, which is a good thing to
16 do, but they didn't do that until April of 2011.
17 Before that, their last check was internally and it was
18 in August of 2009, a year before the work in this case.

19 Q. Now, was that something that was against the
20 standards or the authority on the subject, or is it
21 just in your opinion?

22 A. Yes, I am sure that they decided they had to
23 do it when the -- under their accreditation. In order
24 to be accredited, you have to send it to an outside
25 accredited supplier at least once a year.

1 Q. So then you are saying --

2 A. In addition to internal checks, uh-huh.

3 Q. Did you have any other opinions on the
4 procedures followed in the lab at that time?

5 A. Let's see, the procedures that -- and
6 versions of the quality manual that we were provided
7 were the versions that went into effect the year after
8 the work was performed in this case. It might be
9 believed to be just an oversight or a matter of
10 convenience, but the discovery I requested specifically
11 asked for the copies that were in effect at the time
12 that the work was performed.

13 Obviously, that's important, because you want
14 to know what the rules were at that point in time. And
15 it might be a reflection on whether or not their
16 document control system works, whether those old
17 procedures were even available, but it's kind of a bush
18 league mistake.

19 Q. Okay. And in regard to the lab procedures or
20 anything else, do you have any other opinion on the
21 matter?

22 A. Let's see.

23 Q. While you're looking at that, do you have a
24 conclusionary opinion as to whether the samples
25 analyzed of Mr. Rivera's blood were accurate or

1 inaccurate?

2 A. My conclusionary opinion, I suppose, is that
3 the results reported by the lab are not supported by a
4 scientifically valid method reliably performed based on
5 the records that I reviewed.

6 Q. And this is based on what we just discussed
7 the last hour?

8 A. Yes.

9 Q. Any other opinion on the matter whatsoever?

10 A. The only other comments that I see in here
11 are things related to their procedure, but that don't
12 relate to this particular -- weaknesses in their
13 procedure that don't relate to this particular case,
14 though.

15 Q. Okay. And I guess my last few questions are,
16 have you testified in court in Florida before?

17 A. Yes, I have.

18 Q. And how many times?

19 A. I just don't know. Maybe on the order of a
20 dozen or less. I am not really sure. I'd have to go
21 count.

22 Q. Do you remember where, like location-wise?

23 A. I have testified a couple of times in
24 Orlando, I have testified in -- oh, I can't remember
25 the name of the town, but it's north of Orlando. Lake

1 County. Does that sound right?

2 Q. I am not sure. It could be.

3 A. I have testified in -- there is a city on the
4 Atlantic Coast where Florida Tech is. I know I drove
5 to the water on the East Coast. It's Florida Tech.
6 You can help me here.

7 Q. No. That's all right.

8 A. I think it starts with an "M."

9 Q. Melbourne?

10 A. Melbourne. That's it. Thank you.

11 Q. Okay. And have these --

12 A. And in Tampa.

13 Q. Okay. Have they been criminal or civil cases
14 or both?

15 A. They have all been criminal. I have also
16 testified for C.C.R.C.P. in post conviction capital
17 cases.

18 Q. Okay. And have they been for the defense or
19 for the State?

20 A. Always for the defense.

21 MR. WILKING: All right. I have no further
22 questions. Mr. Kirkconnell, anything?

23 MR. KIRKCONNELL: No questions. All right.

24 MR. WILKING: Thank you. We will put her
25 down for a read and sign.

1 THE WITNESS: Who do I invoice for this?

2 MR. WILKING: You can invoice our office.

3 The same e-mail I gave you.

4 THE WITNESS: Okay.

5 (Deposition concluded at 2:35 p.m.)

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1 IN THE CIRCUIT COURT OF THE TWELFTH JUDICIAL CIRCUIT
2 IN AND FOR MANATEE COUNTY, FLORIDA

3 STATE OF FLORIDA,

4 Plaintiff,

5 vs.

 No. 2010-CF-004313

6 CARLOS A. RIVERA,

7 Defendant.

8 CERTIFICATE OF COMPLETION

9 I, Denise Kopan, CCR #124, DO HEREBY CERTIFY

10 that on June 15, 2012, the deposition of JANINE S.

11 ARVIZU was taken before me at the request of, and

12 sealed original thereof retained by:

13 For the Plaintiff
14 MR. JOHN WILKING
 STATE ATTORNEY
 P.O. Box 1000
 Bradenton, Florida 34206

15 I FURTHER CERTIFY that copies of this
16 certificate have been mailed or delivered to all
17 counsel, and parties to the proceedings not represented
18 by counsel, appearing at the taking of the deposition.

19 I FURTHER CERTIFY that examination of this
20 transcript and signature of the witness was not waived
21 by the witness and all parties present.

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1 On _____, a letter was mailed or
2 delivered to Ms. Janine S. Arvizu regarding obtaining
3 signature of the witness, and corrections, if any, were
4 appended to the original and each copy of the
5 deposition.

6 I FURTHER CERTIFY that the recoverable cost
7 of the original and one copy of the deposition,
8 including exhibits, to Mr. John Wilking is \$_____.

9 I FURTHER CERTIFY that I did administer the
10 oath to the witness herein prior to the taking of this
11 deposition; that I did thereafter report in
12 stenographic shorthand the questions and answers set
13 forth herein, and the foregoing is a true and correct
14 transcript of the proceeding had upon the taking of
15 this deposition to the best of my ability.

16 I FURTHER CERTIFY that I am neither employed
17 by nor related to nor contracted with (unless excepted
18 by the rules) any of the parties or attorneys in this
19 case, and that I have no interest whatsoever in the
20 final disposition of this case in any court.

21
22 _____
DENISE KOPAN, CCR

New Mexico CCR #124

23 License Expires: 12/31/12
24
25

1 STATE OF FLORIDA v. CARLOS A. RIVERA
 2 DEPONENT SIGNATURE/CORRECTION PAGE
 3 If there are any typographical errors to
 your deposition, indicate them below.

4
 5 PAGE LINE
 _____ Change to _____
 6
 _____ Change to _____
 7
 _____ Change to _____
 8
 _____ Change to _____
 9

10 Any other changes to your deposition are to
 be listed below with a statement as to the
 reason for such change.

11 PAGE LINE CORRECTION REASON FOR CHANGE

12
 13
 14
 15
 16
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 18

19 I, JANINE S. ARVIZU, do hereby certify that I have
 read the foregoing pages of my testimony as
 transcribed, and that the same is a true and correct
 20 transcript of the testimony given by me in this
 deposition, taken on June 15, 2012, except for the
 21 changes made.

22
 23 _____
 JANINE S. ARVIZU

24 _____
 DATE

25

1 DATE DELIVERED/MAILED _____ RETURN BY _____
2

3 MS. JANINE S. ARVIZU

161 Kuhn Drive

4 Tijeras, New Mexico 87059

5 RE: STATE OF FLORIDA v. CARLOS A. RIVERA

Deposition of: JANINE S. ARVIZU

6 Date Taken: June 15, 2012

7 DEAR MS. ARVIZU:

8 At the time of the above deposition/sworn statement, it
was requested that the deponent read and sign the
9 transcript.

10 _____ Enclosed is your copy of the transcript with the
original signature page. Please ask the witness
11 to read the transcript and make any corrections on
the original signature page and return the
12 original signature page to our office.

13 _____ DUE TO TRIAL IN THIS MATTER BEING SET FOR
_____, SIGNATURE MUST BE COMPLETED BY

14 _____.

15 _____ Enclosed is a courtesy copy of the transcript with
the original signature page. Please read the
16 transcript and make any and all corrections to
your testimony that you feel are necessary and
17 indicate such corrections on the attached page.
Please only return the attached original signature
18 page to our office, not the transcript.

19 _____ The deposition transcript is now ready to review
in our offices. Please call 505-243-5018 to make
20 arrangements for reading and signing.

21 _____ The transcript is now ready for review. Please
remit payment in the amount of \$_____. Your
22 transcript will be delivered as soon as payment is
received. If you choose not to pay, please
23 contact our office at 505-243-5018 to make
arrangements for reading and signing.

24

25

