Charles, Ulysses

Testimony of

Stanley Bogdan, TT 7-23 to 7-45 (pages 2 to 24) John Cope Abbott, TT 7-45 to 7-53 (pages 24 to 32)

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1 STANLEY BOGDAN, Sworn 2 Direct Examination by Mr. Campo: 3 Please state your name? 4 Stanley, middle initial I, Bogdan. That's B-o-g-d-a-n. By whom are you employed? Α By the Boston Police Department. 6 In what capacity are you employed? 7 As a senior criminalist in the Crime Laboratory. 8 Α 9 Would you tell us what your educational background is 10 that qualifies you to be a senior criminalist? 11 Α I have a Bachelor of Science degree from the College of the City of New York. I have graduate study --12 What do you have your Bachelor of Science degree in? 13 14 Physics. I have graduate study in physics at the Polytechnic Institute of Brooklyn. In addition to 15 working for many years in a laboratory as performing 16 analysis by instrumental methods, I had occasion to 17 learn a great deal of chemistry on the job during those 18 years. 19 When I came to the Boston Police Crime Lab 20 I had additional opportunity to learn chemical techniques 21 by my own reading, from others on the job, also by 22 taking courses at the F.B.I. Academy. 23 Would you tell us what courses you took at the F.B.I.

Academy when you went there?

- I took three courses at the academy at different times. 2 One was a course on the identification of hairs and 3 The second one was on basic serology. 4 third one was on biochemical methods of blood stain analysis.
 - How long was each of those courses?
 - Each of those courses was two weeks, a concentrated two-week course; and each of the blood courses was accredited as a graduate course in the University of Virginia. The F.B.I. Academy being in Virginia.
 - Upon finishing college and graduate studies, where did you work?
 - I worked for several industrial firms in laboratories as I stated earlier doing analysis of a wide variety of materials by instrumental methods.
 - Q When did you start to work for the Boston Police Department?
 - In 1970.

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- What have your duties been as a criminalist in the Boston Police Department?
- My duties as a criminalist have been to, number one, go to crime scenes whenever requested, to examine those crime scenes and collect evidence. The evidence collected at these crimes scenes is taken back to the laboratory and analyzed. In addition, evidence brought

in from crime scenes which are investigated by police officers is also brought in and analyzed in the laboratory.

As a result of my findings in the laboratory, I write reports. Then I testify in court as to my findings.

- Q Have you done work in the field of serology?
- A Yes, I have.
- Q Would you tell us what serology entails?
- A Serology entails the analysis of body fluids. With respect to the work that we most commonly do, we work with blood and semen.
- Q Tell us how many times you've been qualified to testify as an expert in serology in court?
- A I've testified between 150 and 200 times, I would say roughly 75 to 100 times.

MR. CAMPO: Your Honor, at this time I would submit Mr. Bogdan as an expert in the field of serology and ask that he be recognized as such.

MR. GILDEN: No objection.

THE COURT: He may so testify.

- Q Mr. Bogdan, were you involved in analysis of certain clothing and bedding material with regard to a rape that occurred at 1626 Commonwealth Avenue?
- A Yes.

- That was back in December of 1981, is that correct -
 strike that -- December of 1980?

 A 1980, yes.

 Would you tell us what items were turned over to you
 - regarding that investigation?
 - A I received a number of items for examination. These consisted of a bed sheet, two pillow cases, an afghan, a couple of -- two pieces of gold cord, a leather belt.
 - Q Did you examine the items that you just indicated?
- 10 A Yes.

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- Q With regard to the two pieces of cord and the gold belt,
 did you find anything remarkable in those?
- 13 A No, I did not.
- 14 Q Were they examined chemically for prints?
- There was no way to -- there would be no -- you wouldn't be able to obtain prints from a surface like that cord had.
- 18 Q How about the belt?
 - A The belt was checked and no prints were detected.
- 20 With regard to the pillow cases, were those examined?
- 21 A Yes, they were.
- Q Was anything remarkable found?
- 23 A There was nothing remarkable found on the pillow cases.
- Q Did you examine the afghan?
- 25 A Yes, I did.

Anything remarkable about the afghan? Q 2 No. Α 3 Did you examine the sheet that was turned in to you? 4 Α Yes, I did. 5 Could you tell us what you observed on the sheet? 6 On the sheet I observed a large, colorless stain near 7 the center of the sheet. 8 Q Did you perform any tests on that sheet for the presence 9 of semen -- strike that. 10 Did you perform a microscopic examination for 11 the presence of sperm? 12 Yes, I did. 13 What was the result of that examination? 14 Α I did not detect any sperm cells. Did you conduct an acid phosphatase for the presence 15 Q of semen? 16 Α 17 I performed an acid phosphatase on it -- a test on that 18 stain. 19 Q Could you tell us what acid phosphatase is? Α Acid phosphatase is an enzyme which is characteristically 20 present in human semen. 21 Q Could you tell us what else it is present in? 22 Α It can be -- it is also present in a number of other 23 body fluids. For example, it's present in blood 24 in lower concentrations. It's present in vaginal

1 secretions. 2 Is it present in urine? 3 I believe that there could be low concentrations in 4 urine. 5 It's also present in perspiration, is that correct? Yes, I believe so. 6 Is an acid phosphatase test determinative of the 7 8 presence of semen? A No. 9 Is a microscopic examination for the presence of sperm 10 determinative of the presence of semen? 11 A Yes. 12 Do you know of any other test which is conclusive for 13 the presence of semen at this point, at this time? 14 At this time there is a test which is considered to be Α 15 conclusive for the presence of semen. 16 What do they call that? 17 That test is called a P-30 test. 18 Q At the time of this incident was the Boston Police 19 Department equipped to do that test? 20 No, we were not. 21 Q Are you aware when the F.B.I. started using that test? 22 The F.B.I. started using that test, I believe, several A 23

Q At present are you equipped to do that test?

months ago.

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- A Not at present.
- 2 | Q Did you examine a maroon bathrobe?
- 3 A Yes, I did.

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- Q Did you conduct the same tests on the bathrobe?
- 5 ∥ A Yes, I did.
- 6 Q Did you find any sperm present microscopically on the bathrobe?
- 8 A No, I did not.
 - I show you Exhibit 18, which is the maroon robe, and Exhibit 19, which is an off-pink sheet, and ask you if you recognize those.
 - A Yes. These are the two items that we just discussed, the maroon robe and the sheet.
- 14 Q Those are the items you examined, correct?
- 15 A Yes.
 - Q Did you also examine hair samples?
- 17 | A Yes, I did.
 - Q What type of hair samples did you examine, sir?
 - A These were hair samples that were present in rape kits that were submitted to the laboratory. Each of the rape kits contained samples of pubic hair of the person who had been examined and samples of pubic hair obtained by combing the pubic region.

The samples of known pubic hair were removed from the person to be used as standards for purposes of

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	comparison. These were removed by removed by
	plucking these hairs out, so we would know for sure that
	they were f~om that person.
Q	Now, would it be fair to say that you had hair samples
	or pubic hair samples from Karen Kramke, Shannon Streeter
	and Valerie Hays?
A	There were two rape kits here. One was
Q	I'm sorry, would it be strike that.
	Would it be Karen Kramke and Shannon Streeter?
A	That is correct.
Q	Now, as a result of your examination of those pubic
	hairs did you find any hairs that were dissimilar to
	or ?
A	No, I did not.
Q	You did not find any Negro pubic hairs, is that correct?
A	No, I did not.
Q	Did you perform any other tests on the sheet and the
	bathrobe?
A	I did grouping tests on the stains which were tested.
Q	When you say "grouping tests" would you explain to the
	jury what you mean by that?
A	In most people, most persons are secreters. By that I
	mean that if a person is a secreter, the blood group
	substances that are found in his blood are also found
	A Q A Q A Q A Q

in his other body fluids, such as saliva, perspiration,

1 semen in the case of a male, vaginal secretions in the 2 case of a female. So in the -- roughly 80 percent of 3 the population which are secreters you will find these blood group substances in their other body fluids. 4 is possible to perform tests on samples of those body 5 fluids to determine the person's blood type. 6 Now, with regard to the bathrobe and sheet, did you 7 8 perform an absorption-inhibition test? That is the name of the test that is used to 9 determine the blood group from the stain if the person 10 from whom the stain came is a secreter. I did perform 11 such tests. 12 As a result of your tests, would you tell us -- well, 0 13 would you tell us the results of the tests? 14 All right. In both cases, I determined that the stains 15 originated from a person having Group O blood. 16 Did you examine the blood of 17 Yes, I did. Α 18 Would you tell us what blood grouping 19 is? 20 had Group O blood. Α 21 Did you examine the blood of the defendant Rodriquez 22 Charles? 23

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Yes, I did.

What was the result of that?

1 A I found that his blood was Group B. 2 Did you examine the blood of 3 Α Yes. 4 Would you tell us what her blood grouping is? 5 Α Her blood was Group O. Cross-Examination by Mr. Gilden: 6 Q Mr. Bogdan, is it possible by the tests that you conduct |-7 by the blood tests, to determine whether or not a person 8 9 is or is not a secreter with the different blood types? Α Yes. 10 Q Do you know whether | 11 was a Group O secreter or not? 12 Yes, she was. 13 What about 14 Α She was a Group O nonsecreter. 15 Mr. Bogdan, when you refer to semen is there a chemical 16 difference between male seminal fluid and female 17 vaginal secretion? In other words, can you determine 18 by the tests that you conducted whether the stains or 19 items that were tested by you were stained by male 20 secretions or female secretions? 21 Α Not by the tests I performed. 22 Q Are you aware of any tests that are available that could 23 make that differentiation? 24 Ą Well, the test that I mentioned, the P-30 test is 25

1		considered to be specific for semen. So if that were
2	1	present, it would be concluded that the stain was of
3		seminal origin.
4	Q	In other words, that P-30 test could determine whether or
5		not the stain you found which your tests say is semen or
6		seminal fluid comes from a male or a female?
7	A	That would be
8		MR. CAMPO: I'm going to object to the
9		phrasing of that question. He did not testify that the
10		stains were seminal stains, or to the contrary.
11		MR. GILDEN: I'm asking about the test.
12	:	THE COURT: Is your question related to a
13		hypothetical examination and not this case?
14		MR. GILDEN: No, I'm asking if that test could
15		determine whether a stain
16		THE COURT: You're asking about the test?
17		MR. GILDEN: Yes, Your Honor.
18		THE COURT: But not anything performed in this
19		case? You're talking about the P-30?
20		MR. GILDEN: Not yet; I may get to that.
21		THE COURT: Right. But are you talking to
22		this extent about the P-30?
23		MR. CAMPO: Yes, Your Honor.
24		THE COURT: Okay.
25	A	Well, the P-30, if present, would be specific for stating

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1 that the stain contained material of seminal origin. 2 From a male? 0 3 Yes. That would be from a male. Α 4 Just for my own education, sir, when we talk -- when we 5 talk about semen, we're talking about male ejaculate less any sperm, the fluid that they ejaculate -- that 6 7 a male ejaculates during intercourse; would that be 8 fair to say? Well, yes. The way you're phrasing it, I would say yes. 9 10 Well, how would you describe it more clearly? Α Well, it may or may not contain sperm cells. 11 But when we're talking about semen, we're 12 talking about that fluid ejaculated by a male which 13 may or may not --14 A The fluid portion of the male ejaculate, yes. 15 All right. Just so we're talking about the same thing. 16 It would be fair to say then, sir, that none 17 of the stains that you found could have come from the 18 defendant Rodriquez Charles, is that correct, based on 19 your tests that you performed? 20 A The tests that I performed showed the presence of 21 acid phosphatase. That did not say, I believe I 22 testified earlier, that it was semen conclusively or that 23

None of the materials that you tested in any of the

it was not semen.

tests that you performed came from a Type B secreter, 1 did they? 2 I did not detect any Type B blood substance in the Α 3 stains I checked. 4 So that if any of the stuff -- the stains that you Q 5 checked came from the defendant, they would show evidence 6 of a Type B secreter, is that correct? 7 Α They should show presence of the B blood group substance. 8 Now, did you make examination of any sort of the robe 9 to determine whether or not there were any pubic hairs 10 present in that robe? 11 Examined the robe, and according to my note, hairs are Α 12 not mentioned, so none were found. 13 Q Well, I ask you, sir, do you recall whether or not 14 you specifically did the checking? 15 Yes, I did. Α 16 Did you go to the crime scene? 17 Α Yes. 18 Some of these items, did you take them into your own --Q 19 your possession personally? 20 The items that I mentioned earlier were brought to the Α 21 laboratory by the police. I did not collect them at the 22 scene at that time. The items that I collected at the 23 scene consisted of the cardboard box which -- two boxes 24

actually, which I took back to the laboratory to check

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1 for the presence of fingerprints. 2 Do you work in the Fingerprint Division also? 3 We do chemical tests for development of latent 4 If by those chemical tests we do bring out any 5 prints, then we take them to the Identification Section 6 for evaluation. 7 In other words, there are tests that can be performed 8 even on cardboard that would -- that could bring out 9 fingerprints? 10 Α Yes. 11 Those boxes that you brought back -- strike that. 12 When you went to the apartment personally did you go alone or were you with someone else? 13 14 I went with somebody else. Was that one of the victims in this matter? 15 I know I was there with Detective -- Officer Powers, 16 17 William Powers, from the Identification Section. And my 18 recollection is that was there. Q When was there did she point out some items 19 that might be of interest to you as a criminologist? 20 I don't recollect. Α 21 Do you recall whether or not you went through the entire Q 22 apartment? 23 Α Yes, I did. 24

Did you examine the beds in the apartment?

A Yes.

Q Did you examine the beds for stains?

A My recollection is that I did examin

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- A My recollection is that I did examine the beds. I would have looked for stains at the time. The bedding that was brought to the laboratory was brought there before I went to the apartment.
- Q So do I understand it, sir, that the bedding had already been removed by the time you arrived at the crime scene?
- A Yes. Right.
- Q Did you make -- I ask you again, do you recall whether you made any further examinations of the bedding or the beds themselves for stains of any sort?
- A My recollection is that I did look at the beds when I was there.
- Q Just a fast visual check?
- 17 A I looked -- yes.
 - Q Do you recall whether you found anything of interest to you?
 - A I have no note to the effect that anything was found, so my recollection -- so I would say that I did not see anything.
 - You don't have much recollection of the actual duties, is that correct -- I mean, what you did that day, other than what's in your notes?

Α I can picture the apartment. I remember being there and 2 looking at the beds. I can't remember specifically 3 details further than that. 4 You were given some bedding to examine, is that correct? 5 Α That's correct. 6 What types of bedding were received by you? Q 7 Ά The bedding consisted of a bed sheet, pillowcases. That was the actual -- and an afghan. 8 Did you make an examination of this bedding to determine Q 9 whether or not any hair was found in this bedding? 10 11 Α Yes. Do you recall whether or not you found any hair in this Q 12 bedding? 13 No, I did not. Α 14 Is there a standard procedure in the Boston Police 15 Department or was there at that time as to preservation 16 of this type of evidence? In other words, is there some 17 set procedure that officers are to follow when they're 18 examining or gathering evidence at a crime scene such as 19 this? 20 You mean if a police officer goes to a scene and examines A 21 the scene and collects evidence? 22 Yes, particularly in a rape case of this nature. Q 23 He will try to collect anything that he determines to be Α 24 of evidential value, try to collect the evidence in such 25

a way that one bit of evidence is not contaminated by another. He would, for example, package things that 3 were separated at the scene in separate packages; so 4 that evidence of one type, whatever it might be couldn't be transferred from one item to another. 5 Q To the best of your knowledge was this procedure followed 6 in this case? 7 Α This procedure has been followed rather closely in 8 recent years by the officers examining scenes. 9 recollection is that there was nothing incorrect in the 10 handling of the evidence when it was brought to the 11 laboratory. 12 So to the best of your recollection, this procedure was 13 followed; that items taken together were segregated from 14 each other so they wouldn't contaminate the other? 15 Yes. Α 16 Q Were they delivered to you in a plastic bag of some 17 sort? 18 A I cannot tell you whether they were in a plastic bag or 19 a paper bag or a shopping bag; I don't remember. 20 Q But they're normally delivered in some kind of 21 container? 22 Α Yes. 23 Q Were they delivered in a different container than those 24

shown you by the Assistant District Attorney?

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Caucasian pubic hair?

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Α Yes. Those are the bags, plastic bags, in which we 2 package our evidence for storage. 3 So the bags that were delivered to you would be 4 different than what we see today? 5 Α They might or they might not be. Sometimes we give 6 police officers a number of plastic bags. When they 7 have investigatory duties very often they like to have 8 bags available. Otherwise, they have to find some 9 suitable container. 10 0 So you try to provide your investigators with some tools to investigate a crime scene? 11 Well, if they come up and ask, yes, we will. Α 12 Q Do you recall whether or not you would have examined 13 the container that these materials came to you in? 14 A Yes, I would have. 15 To see if maybe there was some hair in there or something Q 16 like that? 17 Α Definitely. 18 So you would have made that type of examination? 19 Α Yes. 20 You found none in any of the items that you -- that were Q 21 presented to you, is that correct? 22 That is correct. Α 23 Is there a difference between Negroid pubic hair and

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1 Yes. A What's that difference? 2 There's a difference between Negroid hair and 3 Caucasian hair, and this difference extends to different 4 types of body hair. The difference is basically in the 5 appearance and color of the pigment, the presence in 6 pigment, how it's located, the size of the particles, 7 density and so forth. 8 Did you take a sample of the defendant's hair, or were 9 you provided with a sample of the defendant's hair? 10 I was provided with a sample of the defendant's -- no, 11 no, I'm sorry. I was not. 12 You were not. But you were present when samples of his Q 13 blood and saliva were given to a medical person, is that 14 correct? 15 Yes, I was. 16 And you took those samples into your custody and tested Q 17 them, is that correct? 18 That is correct. A 19 Now, when you say there was nothing remarkable about an Q 20 item what does that mean? 21 I didn't detect anything that I considered to be of Α 22 evidential value. 23

What types of things would you consider to be of

evidential value?

- 7-42 Α Fingerprints, hairs, stains, holes, tears, rips, things of that nature. You say you received two rape kits? Α Yes. I believe one was of and one was of , is that correct?
 - A That's correct.

- Q What is a rape kit?
- When a rape victim goes to the hospital they're usually examined in the emergency ward. At the present time they have special personnel for treating and examining these persons.

A rape kit is usually a prepared type of box containing certain envelopes and swabs and so forth, slides, for the purpose of collecting any type of evidence from the person that might be of use in evaluating the situation.

The particular rape kit, I believe, that we received was -- I think was called the Johnson Rape Kit. In this kit, which is a plastic box, there are envelopes for collecting known samples of the victim's pubic hair, for collecting combings of the victim's pubic region. The theory being that if there are any loose hairs included among the victim's in the victim's pubic region, that they might not be from the victim.

Swabs are taken of the vaginal area. If the circumstances dictate, swabs are taken, rectal swabs and oral swabs. Slides are made from those swabs. In other words, the material swabbed for the various body openings are smeared on slides and allowed to dry. The swabs themselves are also included in the kit.

So we have samples of hair, swabs, slides, and in some of the newer rape kits they also include things like fingernail -- envelopes for fingernail clippings or scrapings. They include tubes for samples of blood of the victim.

Some of the newer kits are getting even more extensive. I don't know what else; there may be other envelopes. There are extensive directions inside the kit.

The rape personnel in the hospital collects these various types of evidence as indicated, includes them in the kit. The police officer transmits that kit from the hospital to the laboratory.

- Q After that material comes to you -- and I believe you said you used the Johnson Rape Kit -- you believe that the Johnson --
- A I believe it was a Johnson Rape Kit, yes.
- Q So at least you had combings from the pubic area of each of those two victims; you would have a known sample of

the pubic hair of each of those victims; you would have swabs probably from each of those victims; you might have a slide taken from that swab; is that correct?

I might have; I might not. I mean, the procedure is not completely uniform. We're trying very hard. We consult with the various rape personnel and try to get them to include things in a way that is of value to us.

According to my notes here, these rape kits each contained samples of hair known and possibly strange, or hairs that might not belong to the victim.

I don't have any note as to there being anything else.

So it's possible they just included hairs in those kits.

So it's your testimony that both of those -- the rape kits on both of those young women contained no Negroid hairs?

- A That is my testimony.
- Q And your testimony is that no stains that you examined were from a Type B secreter?
- A That is correct.

MR. GILDEN: I have no further questions
Redirect Examination by Mr. Campo:

- Q Mr. Bogdan, with regard to the sheet, in your testing of the sheet blood grouping you found that the stains were deposited by a Group O secreter?
- A That is correct.

1	Q	And with regard to the bathrobe, you examined that and
į		found that the stains on the bathrobe came from a
3		Group O secreter?
4	A	That is correct.
5	Q	With regard to , would you tell us once
6		again what blood grouping is?
7	A	She was a Group O secreter.
8		MR. CAMPO: Thank you. Nothing further.
9		MR. GILDEN: I have no further questions.
10		THE COURT: Thank you, sir.
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12		JOHN COPE ABBOTT, Sworn
13		Direct Examination by Mr. Campo:
14	Q	Would you please state your name?
15	A	John Cope Abbott, A-b-b-o-t-t.
16	Q	Mr. Abbott, would you tell us what your occupation is?
17	A	I'm a forensic serologist with Serological Research
18		Institute, East Coast Office, Burlington, Massachusetts
19	Q	Would you tell us what your educational background is
20		with regard to qualifying you in the field of serology?
21	A	I have a Bachelor of Arts degree in premedical and
22		professional biology from Gordon College in Wenham,
23		Massachusetts. I have a Master of Science degree in
24		forensic chemistry from Northeastern University in
25		Boston. I'm a registered medical technologist.

Would you tell us, sir, what your practical experience has been in the field?

As a registered medical technologist and courses I took in that area, after my graduation from Gordon College, I was employed by Carnegie Institute in Boston, a school of medical technology, where I was senior lecturer in immunohematology and hematology, which is the identification of blood and blood diseases, the identification of blood groups, cross-matching of blood, identifying blood antibodies and antigents, the proteins in their cross-matching, purposes for medical transfusion.

A number of additional courses I taught there. At the same time, near the end of my tenure with Carnegie Institute, I got my degree through Northeastern University and subsequent to that was employed by the Michigan Department of Police as a forensic serologist at the Bridgeport Laboratory in Bridgeport, Michigan.

I spent two years there, from January 1978 until November 1979, attached to the Microchemical Unit, specializing in forensic serology.

From November 1979 until December 1982 I was employed -- 1981 -- I was employed by the Commonwealth of Massachusetts Department of Public Safety at 1010 Commonwealth Avenue, the chemical laboratory there

commonly referred to as State Police Chemical Lab. I was the forensic serologist for that department.

In January of 1982 I was employed by

Serological Research Institute. I went to the home

office in Emoryville, California; spent seven months

there, and then returned to Massachusetts to open the

East Coast Office in Burlington, where I am the

forensic serologist and office manager.

- Q Would you tell us if you have any professional affiliations or titles?
- A Yes, I do, sir.
- Q Would you tell us what those are, sir?
- A I am a registered medical technologist with American

 Medical Technologists. I am the president of the

 Massachusetts State Society, American Medical

 Technologists. I am a commissioner with the Accrediting

 Bureau of Health Education Schools.

I am a member of the Northeastern Association of Forensic Scientists, the Midwestern Association of Forensic Scientists.

- Q Would you tell us how many times you've been qualified to testify as an expert in serology in the courts of Massachusetts?
- In the Commonwealth of Massachusetts I have testified approximately 40 times.

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Q How many times have you been qualified to testify in 1 other states? 2 In other states, approximately 30 to 40 times. 3 Α Would it be fair to say that you've testified for the 4 prosecution and for the defense? 5 Α Yes, sir. 6 MR. CAMPO: Your Honor, I would submit 7 Mr. Abbott as an expert in the field of serology, and 8 would again ask that he be recognized as such. 9 MR. GILDEN: No problem, Your Honor. 10 THE COURT: He may so testify. 11 Q Mr. Abbott, would you tell us exactly what the field of 12 serology entails? 13 Well, forensic serology in specific is that science Α 14 dealing with blood and other body fluid analysis, 15 paying particular attention to the identification of 16 the item; what is the fluid; is it blood; is it semen; 17 is it saliva; is it vaginal fluid; tears; nasal 18 secretions; any type of body fluid. And could it be 19 human or animal in origin. And if it is human, then 20 from whom may that fluid have derived. 21 Q Mr. Abbott, were you asked to examine certain bedding 22 and clothing regarding a rape that occurred at 23 1626 Commonwealth Avenue? 24

I'm not sure whether that was the address, but I was

1		asked to examine bedding and clothing, yes, sir.
2	Q	I show you Exhibits 18 and 19 and ask you to look at
3		those.
4	A	Yes, sir.
5	Q	Would you tell us if you've seen those two items before?
6	A	Yes, I have, sir.
7	Q	Where would that be?
8	A	I saw them at my laboratory on January 12th, 1984.
9	Q	Could you tell us for what purposes you were asked to
10		examine those two items?
11	A	I was asked to examine those items to determine whether
12		there was any staining present and if that staining
13		could be seminal fluid.
14	Q	Now, did you in fact strike that.
15		Would you tell us what tests are conclusive
16		for the presence of semen?
17	A	There are only two tests considered conclusive for the
18		presence of semen.
19	Q	What is the most conclusive test?
20	A	The most conclusive test for the presence of semen is
21		the finding of spermatozoa, the male reproductive cells.
22		Since women do not produce spermatozoa only men are
23		capable of that the finding of spermatozoa is beyond
24	i	question proof of the presence of semen.
25	Q	Did you examine both the sheet and the bathrobe
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- 1 microscopically for the presence of semen? 2 Yes, I did, sir. 3 Would you tell us what the result of your examination 4 was? I did not find spermatozoa present on any of the areas 5 I examined. 6 Q What is the second test that is conclusive for the 7 presence of semen? 8 The second test that is considered conclusive for the 9 presence of semen is a protein test known as P-30. 10 is a test of fairly recent development. It is a protein 11 which is found only in human seminal fluid -- or in 12 seminal fluid. 13 Did you conduct such a test on the bathrobe and the 14 sheet? 15 Yes, I did, sir. A 16 Could you tell us the results of that test? 17 I did not detect any protein P-30 in any of the areas 18 I examined on those two items. 19 Q Now, as a result of your testing both items, based on 20 your education and experience, can you give us an 21 opinion as to whether or not the stains that appear on 22 the bathrobe and on the sheet are semen? 23
- A Yes, sir.

Q What is that opinion, sir?

A The stains on the bathrobe and the bed sheet are not seminal fluid or not consistent with seminal fluid.

MR. CAMPO: Thank you. Your witness.

Cross-Examination by Mr. Gilden:

- Q Sir, the P-30 test, what is its degree of reliability?

 Has a percentage reliability been established for that test?
- I do not know whether a percentage has -- an exact figure of percentage has been applied. But using verbal predicates, a recent article published in January 1984 from the Metropolitan Police Laboratory in London, which is commonly called Scotland Yard, has reviewed the P-30 test and compared that with acid phosphotase techniques. One of their conclusions was that the P-30 technique is conclusive for the presence of semen as opposed to the even the quantitative acid phosphotase test.
- Q What is the quantitative acid phosphotase?
- A There are two ways of doing acid phosphotase tests. One way is a qualitative, which means you simply look for a color. You apply chemicals to a stained area or extract a stain and apply chemicals. If a purple color develops it means acid phosphotase is present. It gives you very little, if any, idea of quantity; just that there is acid phosphotase present.

The quantitative technique is to extract the

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7-52 stain and actually attempt to determine how much 1 acid phosphotase is present; not only is it present, but 2 The quantitative test has been until recently how much. 3 considered a reasonable technique for the identification 4 or indication of semen, but still not conclusive. 5 Q Now, when you received the items from the -- I assume 6 from the District Attorney's Office, or whoever you 7 received those items from -- did you receive any other 8 items for comparison purposes? 9 Α I do not recall receiving any other items, sir. 10 Did you receive any other information for purposes of Q 11 comparison? 12 I believe I received some information concerning prior Α 13 testing that may have been done on those items. 14 15 capable of doing whether or not a particular person was 16 17

- Did you -- can you determine from the tests that you are the secreter of the stains that you find on a piece of cloth?
- The particular tests which I did, you cannot make such a determination.
- Q You were not asked to make that determination, is that correct?
- Α No, I was not, sir.
- So all you were asked to do is find out whether or not Q in your professional opinion based on the tests that

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1		you're capable of performing, semen was present on the
2		items that you received?
3	A	That is correct, sir.
4	Q	And you found none?
5	A	I found no semen present, sir.
6		MR. GILDEN: Okay. Thank you very much.
7		Redirect Examination by Mr. Campo:
8	Q	Just one other question with regard to acid phosphotase,
9		Mr. Abbott, would you tell us what other body fluids
10		acid phosphotase is found in?
11	A	The predominant other body fluid is vaginal fluid.
12		MR. CAMPO: I have nothing further. Thank you
13		THE COURT: Thank you.
14		THE WITNESS: Am I excused, Your Honor?
15		THE COURT: Yes, you are.
16		(Bench conference:)
17		MR. CAMPO: I am about to conclude the
18		Government's case. There are several points that
19		Mr. Gilden and I have agreed to by way of stipulation.
20		If Your Honor would consider taking the morning recess
21		now, we can work out any final details. Then we can
22		submit that, and I will rest.
23		MR. GILDEN: That's fine. I'm taken a little
24		bit by surprise. I may have some problems, because I

expected not to start any testimony until tomorrow