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WASHINGTON STATE PATROL

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CRIME LABORATORY REPORT

Agency: Thurston County Sheriff's Office

Laboratory No. 186-2827

Suspect: Cosden, William E. Jr.

Agency Case No. 73-17592-12

Victim:

303C

Officer: Sergeant Paul H. Barclift

Received and examined the following items:

- 1) One transparent plastic bag tagged "73-17592-12 #44 vaginal substance" containing one white gauze pad with an orange-brown stain on it. The stain was found to contain low levels of acid phosphatase (an enzyme found in high concentrations in semen and in low concentrations in vaginal secretions). No P30 (a semen specific protein) was found in the sample; however, spermatozoa heads were identified microscopically. The sample was also tested for the presence of ABH(O) antigenic substances with the H(O) antigen being detected.
- 2) One transparent plastic bag tagged "73-17592-12 #45 control swab for vaginal substance" containing one piece of white gauze material. A piece of this material was used as a control sample for Item #44. No semen was found on the portion tested.
- 3) One microscope slide box labeled "73-17592-12 46 Vag Smears" containing five (5) microscope slides each with a smear on one side.
- 4) One microscope slide box labeled "73-17592-12 47 anal smears" containing four (4) microscope slides each with a smear on one side.
- 5) One microscope slide box labeled "73-17592-12 48 oral smears" containing four (4) microscope slides each with a smear on one side.

One slide was chosen at random from each of the above three (3) items (46, 47, 48) and stained with a chemical stain. The slides were examined microscopically. Spermatozoa heads were identified in Item 48 (vaginal smear). Spermatozoa were not conclusively identified on Item 47 (anal smear) and no spermatozoa were found on Item 48 (oral smear). A second slide was chosen at random from each of the three items (46, 47, 48). The residue on each of these slides was washed off with water. These washings were tested for acid phosphatase, P30 and ABH(O) antigenic substances. The acid phosphatase levels on all three (3) items were very low and no P30 was detected in any of the samples. No ABH(O) antigenic substances were detected in Items 46 (vag smear) and Item 47 (anal smear). The H(O) antigenic substance was found in the oral smear.

D. C. MacLaren

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- 6) One vacutainer tube labeled "73-17592-12 #53 Blood" containing a small amount of reddish-brown residue reported to be an autopsy blood sample from **303C**. The blood was examined for ABO blood type with the H antigen being detected.
- 7) One sealed manila envelope labeled "73-17592-12 Known Saliva & Blood Sample of William E. Cosden Jr." containing two (2) manila envelopes:
- A) One manila envelope containing two (2) vacutainer tubes each holding a red liquid reported to be a blood sample from William E. Cosden Jr. One tube was selected at random and two (2) blood components were typed with the following results:

ABO - Group B

Lewis - a negative, b positive

- B) One manila envelope containing one white gauze pad bearing a residue reported to be a saliva sample from William E. Cosden Jr. The saliva sample was tested for ABH antigenic substances with the B and H antigens being detected.

Conclusions:

- 1) The presence of the H(O) antigen in the autopsy blood sample from **303C** indicates that her ABO blood type was Group O. The presence of the H(O) antigenic substance in the oral smear (Item 48) indicates that she was a Group O secretor.
- 2) Low concentrations of semen were found on the vaginal sample (Item #44). This sample was also found to contain the H antigenic substance. Since **303C** was of ABO Group O and was probably a secretor, the H antigenic substance detected may be from her vaginal secretions, from the semen, or from a mixture of both.
- 3) Because the semen concentration on the vaginal sample (Item #44) was so low, no useful information as to the ABO type or the secretor status of the semen donor could be obtained.
- 4) William E. Cosden Jr. is a Group B secretor. Since no information was obtained from the vaginal sample (Item #44) as to the ABO type and secretor status of the semen donor, William E. Cosden Jr. cannot be excluded as the source of that sample.

Donald C. MacLaren
Donald C. MacLaren, Supervising Criminalist

September 25, 1986