

LABORATORY REPORT
FA-D-P-C-FP-82-70
(DATED)

UNIT CASE NUMBER
70-CID023-10198

Comparison of the latent prints developed on Exhibits previously identified, and record prints submitted revealed:

- Exhibits P thru T - No matching impressions.
- Exhibit U-1 - The latent footprint was made by Mrs. C. MacDONALD's left foot.
- Exhibit U-2 - One latent fingerprint was made by Mrs. C. MacDONALD. One latent palm print was made by Cpt. J. MacDONALD.
- Exhibit U-3 - Eight latent fingerprints were made by Mrs. C. MacDONALD. Two latent palm prints were made by Mrs. C. MacDONALD and one latent palm print was made by Cpt. J. MacDONALD.
- Exhibit U-4 - Two latent fingerprints were made by Mrs. C. MacDONALD. One latent palm print was made by Cpt. J. MacDONALD.
- Exhibit U-5 - Seven latent fingerprints were made by Cpt. J. MacDONALD. and two latent fingerprints were made by Mrs. C. MacDONALD.
- Exhibit U-6 - One latent fingerprint was made by an investigator.

Remaining latent prints were not identified. However, due to lack of clarity in some areas of the record finger and palm prints of Cpt. and MacDONALD, a complete elimination/identification could not be made.

Foot impression, appearing on Exhibit D-215, matches in general shape, and size the record footprint of Cpt. J. MacDONALD. However, due to individual ridge characteristics in the photographs taken of this positive identification could not be made by the examiner.

Exhibits V-10 through V-71 submitted by Det B, 3rd MP GP (CI), Fort Bragg, record fingerprints and/or palm prints of possible subjects and other involved in this case. A listing of these personnel is found in Case 70-CID023-10198 of requesting agency.

Comparison of Exhibits V-10 through V-71 (record fingerprints and/or palm with the unidentified latent finger and/or palm prints developed in this not reveal any matching impressions.

Comparison of the identifiable latent prints developed on Exhibit L, (Esquire with the record prints Exhibits V-1 and V-2 revealed the following:

- Exhibit L-1 (advertisement page) - was made by the left ring finger of Captain MacDONALD.
- Exhibit L-4 (page 59) - was not identified.
- Exhibit L-9 (page 101) - was made by the left index finger of Captain MacDONALD.

FP-2

000106

LABORATORY REPORT
D-P-C-FP-32-70
(UNCLASSIFIED)

UNIT CASE NUMBER
70-CID023-10198

- Exhibit L-11 (page 102) - was made by the left thumb of Captain MacDONALD.
- Exhibit L-13 (page 104) - was made by the left middle finger of Captain MacDONALD.
- Exhibit L-15 (page 109) - was made by the right thumb of Captain MacDONALD.
- Exhibit L-19 (page 114) - was made by the right thumb of Mrs. MacDONALD.
- Exhibit L-20 (page 114) - is a partial latent palm print co-ordinated w/right thumb of Mrs. MacDONALD identified as Exhibit L-19.
- Exhibit L-23 (page 116) - was made by the right thumb of Mrs. MacDONALD.
- Exhibit L-24 (page 116) - was not identified.
- Exhibit L-25 (page 116) - was not identified.
- Exhibit L-26 (back cover page) - was not identified.

NOTE: Regarding the red stain on the edge of the Esquire magazine, attention is directed to paragraph 22 of the chemistry annex of this report which it is reported that the red stain is in fact blood and is of the Blood Group Type A or AB.

At the crime scene process, this magazine was found in one of the two stacks of magazines, newspapers and a cardboard box which was under the edge of the table located in the living room in front of the sofa.

The stain appeared to have been made by a person's finger due to its shape. However, it cannot be positively stated that it was made by a person's finger since definite ridge pattern formation was precluded by the separations between individual pages.

P-C-FP-82-70

(Fingerprints)

Following number of latent prints developed in this case belong to CPT MacDONA

- (19) latent fingerprints.
- (4) latent palm prints.
- three (3) total prints.

Following number of latent prints developed in this case belong to Mrs. MacDON

- (16) latent fingerprints.
- (1) latent palm prints.
- (1) latent footprint (on coffee table; originally carried as finger & palm pri
- (19) total prints excluding footprint.
- footprint

Following number of latent prints developed in this case have not been identif:

- (16) latent fingerprints
- (17) latent palm prints
- OR
- (15) latent fingerprints
- (18) latent palm prints

(One latent impression can be either from a finger or from a portion of a palm).

Three (3) of the latent prints developed in this case were made (identified) by investigators.

Latent prints developed in this case:	87
Latent prints identified in this case:	47*
Latent prints not identified to date:	33
Latent prints "lost" in this case:	7

LABORATORY REPORT
EXHIBIT FA-D-P-C-FP-82-70
(CONSOLIDATED)

UNIT CASE NUMBER
70-CID023-10198

Document Division Findings

Examination and comparison of the questioned handprinting appearing on Exhibit W-5 with the exemplars, Exhibits W-2 thru W-4 resulted in the following observations:

The questioned handprinting appearing on Exhibit W-5 was very probably made by a right handed person utilizing the index and middle fingers of the right hand.

The writers of the exemplars, Exhibits W-2 thru W-4 could neither be identified nor identified as having executed the questioned handprinting appearing on Exhibit W-5.

Firearms Division Findings

Assembly and examination of the components and locking devices submitted as Exhibits Y-1, Y-2, Y-3 revealed no markings or other indications of having been used or opened by any instrument other than a normal house key.

D-FA-1

C00109



DEPARTMENT OF DEFENSE
ARMED FORCES INSTITUTE OF PATHOLOGY
WASHINGTON DC 20306-6000



MARCH 14, 2006

Office of the Armed Forces
Medical Examiner - DNA Registry (40-31a)

Timothy D. Junkin, Esq. (Via Facsimile)
Law Offices of Moffett & Junkin, Chartered
800 South Frederick Avenue, Suite 203
Gaithersburg, MD 20877

Subject: USA v. Jeffrey R. MacDonald

Dear Mr. Junkin:

In response to your letter dated March 14, 2006 requesting descriptions AFDIL Specimen Numbers 58A(1), 75A, 91A and 51A(2), please find attached the Laboratory Notes from Grant Graham detailing his microscopic examinations of many samples for this case in 1999 and 2000.

If you have any questions, please free to contact me at (301) 319-0133 or via facsimile at (301) 295-5932.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly B. Murga".

Kimberly B. Murga
Assistant Technical Leader
Nuclear DNA Section
Armed Forces DNA Identification Laboratory

cc: Mr. Brian Murtagh, Esq. (Via Facsimile)
Mr. James Canik

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-0438

LAB CONTROL #: 99-09

NAME: Grant Graham

PAGE: 1

1403 26 Nov 99	Received three sets of slides contained in a heat sealed ziplock type bag from Susana Bassett/AFDIT. Bag is marked with AFDD case # 99C-0438 and slide code numbers: 45A, 46A, 48A, 51A, 52A, 55A, 56A, 58A, 62A, 63A, 75A, 76A, 91A, 93A, 94A, 98A, 104A, 112A, 113A, 115A. The package also bears "SMR 11.24.99" written across the heat seal at the top. Bag opened along left side.
1447 26 Nov 99	Photography started.
1524 26 Nov 99	Three bundles of slide containers were photographed. One bundle of two containers marked respectively: 99C-0438-45A, 46A and 99C-0438-55A-56A. Both containers secured with evidence tape. One bundle of seven containers marked respectively: 99C-0438-115A; 99C-0438-112A; 99C-0438-104A; 99C-0438-98A; 99C-0438-94A; 99C-0438-93A; 99C-0438-91A. All seven containers secured with evidence tape. One bundle of nine containers marked respectively: 99C-0438-113A; 99C-0438-52A; 99C-0438-51A; 99C-0438-48A; 99C-0438-76A; 99C-0438-75A; 99C-0438-63A; 99C-0438-62A; 99C-0438-58A. All nine containers secured with evidence tape.
1706 26 Nov 99	Initial photography complete. Evidence placed in evidence storage for safe keeping. All slide containers & slides marked via initials "GG".
1357 29 Nov 99	Slide 99C-0438-46A: One human hair, medium blond in color, approximately 71mm long, maximum approximate shaft diameter = 83.3µm. Root present with root sheath, follicular tag and attached tissue indicating hair was forcibly removed. Fracture of root sheath noted perpendicular to length of shaft, located toward tip of root. Unknown adhering tissue and/or debris noted along hair shaft. Fractures noted adjacent to root tip perpendicular to length of shaft. Unknown tissue and/or debris observed adhering along length of shaft at various locations.
1613 29 Nov 99	Slide 99C-0438-45A: No human hairs present. No possible blood or other tissue present.
1619 29 Nov 99	Slide 99C-0438-55A: No human hairs present. Contains fiber bundles and non-human hairs. No possible blood or other tissue present.
1725 29 Nov 99	Slide 99C-0438-56A: No human hairs present. Contains one fiber & one hair of non-human origin. No possible blood or other tissue present.

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-0438

PAGE: 2

LAB CONTROL #: 99-09

NAME: Grant Graham

1740 29 Nov 99	Evidence placed in evidence storage area for safekeeping.
0616 30 Nov 99	Slide 99C-0438-52A: Slide in poor condition with mounting medium (dried) on top of cover slip and scratch tape on two sides, holding the broken cover slip in place. Slide contains one human hair, with cuticle damage (splitting) noted along shaft. One broken section of the cover slip was observed to be under the main cover slip. To observe the hair root, a section of scratch tape was peeled back from the slide using a sterile scalpel. The root is present and bears tissue in the form of a follicular tag. Although the condition of the slide makes parts of the hair difficult to observe, there appears to be a red in color substance on the hair shaft that could be blood. Hair is $80\mu\text{m}$ wide and approximately 54mm long; medium blond in color.
0705 30 Nov 99	Slide 99C-0438-113A: Slide contains one human hair with no root. Shaft bears tissue that appears to be blood. Shaft has a break along the length. One end of the hair is split & broken, the other end is broken. There is a red in color fiber present along the shaft of the hair. The hair is approximately $70\mu\text{m}$ wide & approximately 82mm long; light blond in color.
0830 30 Nov 99	Slide 99C-0438-40A: Contains one human hair with root and small follicular tag. Contains one fiber fragment located along shaft. Diameter = approximately $70\mu\text{m}$. Length = approximately 141mm ; color is light blond.
0952 30 Nov 99	Slide 99C-0438-51A: Contains three human hairs. Hairs have no roots. Hairs numbered 1, 2 & 3 for better identification. Hair #1 has broken ends and is approximately $73.5\mu\text{m}$ wide, 23mm long and is light blond to golden brown in color. Also has two crushed areas. Hair #2 has a rounded tip and broken end. Also bears tissue that appears to be blood as well as unknown debris. Approximately $63.3\mu\text{m}$ wide, approximately 17mm long, and is medium blond to medium golden brown in color. Has fiber fragment adhering along shaft. Hair #3 has cut ends, is approximately $78.4\mu\text{m}$ wide, approximately 24mm long and is medium blond to medium golden brown in color.
1042 30 Nov 99	Slide 99C-0438-76A: Contains fibers and non-human hairs. No possible blood or other tissue present.
1056 30 Nov 99	Slide 99C-0438-63A: Slide in poor condition due to mounting medium being on top of cover slip. Slide contains fragments of hairs and fibers, however the poor condition of the slide prevents sufficient clarity to determine if the hair fragments are of human origin. The fragments are primarily located around a blue "X" at the center area of the slide.

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-0438

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LAB CONTROL #: 99-09

NAME: Grant Graham

1107 30 Nov 99	Slide 99C-0438-62A: Contains no human hairs. Contains fibers. No possible blood or other tissue present.
1186 30 Nov 99	Slide 99C-0438-75A: Contains 1 human hair with root & follicular tissue. Hair is approximately 132.3 μ m wide, approximately 63 mm long and medium blond to dark golden brown in color. Has splits along shaft & buckling.
1139 30 Nov 99	Slide 99C-0438-58A: Contains two human hairs. Both have roots but no tissue. Hair not marked with red dot is dark golden brown in color; end is cut. The hair marked with a red dot has a slightly rounded tip. The hair marked with a red dot is approximately 102.9 μ m wide and approximately 43 mm long. The other hair is approximately 73.5 μ m wide & approximately 5 mm long. For identification purposes, the hair not marked with a red dot is numbered "1" and the other hair is numbered "2."
1205 30 Nov 99	Slide 99C-0438-112A: Contains four human head hairs, two of which have been marked "1" & "2" for better identification. Hair marked "1" has a split end, has sustained cracking along the shaft and is broken at the other end. It is approximately 63.7 μ m wide and light to medium blond in color. Hair marked "2" has a broken end, is approximately 63.7 μ m wide, light blond in color. Other end of hair is observed to be on slide holder. Hair marked with black "X" has a root present and adhering tissue, forcibly removed, is light blond in color and approximately 73.5 μ m wide. Additional hair has no root, rounded tip and crushed end. It is located in the center of the slide area, is light blond ^o in color and is approximately 73.5 μ m wide. Length of the four hairs cannot be determined because the hairs are interwoven amongst each other, making length difficult to establish. Additionally, portions of the hairs extend into the opaque areas of the mounting medium edges.
1232 30 Nov 99	Slide 99C-0438-115A: Contains no human hairs. Contains fibers and non-human hairs (2). No possible blood or other tissue present.
1252 30 Nov 99	Slide 99C-0438-98A: Slide in poor condition due to mounting medium being atop of cover slip. Contains one human hair with root & associated follicular and sheath tissue. Root is elongated & forcibly removed. Virtually entire length of hair is encrusted with tissue that appears to be blood. Hair is approximately 63.7 μ m wide. There is a red in color fiber wrapped around shaft. Due to poor condition of the slide, viewing for length measurement is hampered, but hair is greater than 120 mm in length. Color is medium blond.

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-0438

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LAB CONTROL #: 99-09

NAME: Grant Graham

1316 30 Nov 99	Slide 99C-0438-104A: Contains two human hairs labeled 1&2 for further identification. Hair #1 has root with adhering follicular tissue. The hair is approximately 161.7µm wide and approximately 61mm long. The base is light blond to medium golden brown in color. Hair #2 has root with small amount of adhering tissue. The hair is approximately 137.2µm wide and approximately 51mm long. The hair is medium blond to medium golden brown in color.
1324 30 Nov 99	Slide 99C-0438-93A: Contains one human hair with root but no tissue. Hair is approximately 73.5µm wide and 17mm long. The color is light blond to medium golden brown. Tip of hair is rounded. Lint hair.
1342 30 Nov 99	Slide 99C-0438-94A: Contains fibers & non-human hairs.
1348 30 Nov 99	Slide 99C-0438-91A: Slide in poor condition due to mounting medium being atop of cover slip. Contains unknown debris & yellow fibrous material that has red in color substance adhering to it that could be blood. Fiber marked with black dot and "1" for better identification. Contains one human hair with root but no tissue. Hair is approx. 29.4µm wide, approx. 5mm long.
1736 30 Nov 99	Slides 99C-0438-45A, 46A, 48A, 51A, 52A, 55A, 56A, 58A, 62A, 63A, 75A, 76A, 91A, 93A, 94A, 98A, 104A, 112A, 113A, and 115A were sealed in their respective slide cases via evidence tape and released to Daniel E. Kite / AFEDL Analyst III in a sealed plastic bag.
1409 15 Dec 99	Received one (1) slide case marked "99C-0438-99A, 100A." Slide case received from Suzanne M. Barritt / AFEDL Supv Analyst sealed in plastic bag marked: "SMB 12.15.99 99C-0438-99A, 100A." Slide case sealed with evidence tape. Slide case and plastic bag placed in FTMAH evidence storage locker #1 for safe keeping.
0930 16 Dec 99	Retrieved slide case 99C-0438-99A, 100A from FTMAH Storage Evidence Locker #1 to conduct overall photography of item. Photography completed at 1043 hours. Bag, case and slides initialed "SM" and placed inside FTMAH Evidence Storage Locker #1.
0940 17 Dec 99	Retrieved slide case 99C-0438-99A, 100A from FTMAH Evidence Storage Locker #1 to examine slides.

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-0438

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LAB CONTROL #: 99-09

NAME: Grant Graham

0951 17 Dec 99	Slide 99C-0438-99A: Contains no human hairs. Contains manmade and animal hair fibers. Fibers of blue, green, yellow and purple colors can be seen in the slide. One animal hair fiber (wool) has a large amount of debris adhering to the shaft, some of which is red in color and could be blood. One area of the slide bears a green in color circle. Inside the green circle are green and yellow fibers that have a red in color substance adhering to their length that could be blood. Another area of the slide bears a black in color circle. The fibers inside the black circle have a red in color substance adhering along their length that could be blood. The green circle had been previously marked. The black circle was marked by me during examination.
1201 17 Dec 99	Slide 99C-0438-100A: Contains various fibers and non-human hairs. One area of slide bears a green circle. Inside the green circle are red, green, blue, yellow and transparent fibers that have red in color debris adhering along their length that could be blood. One yellow fiber has what appears to be a crushed area. Also, one animal hair (cat) is present that bears red in color debris that could be blood. Additional fibers that may bear blood are within a black circled area (made by me during examination). Black circle contains non-human hairs (cat & wool) that have adhering red substance that could be blood. Yellow, green and greenish-brown fibers are also in the black circle; these fibers also have adhering red substance that could be blood.
1507 17 Dec 99	Sealed Slide container 99C-0438-99A-100A with slides 99C-0438-99A and 99C-0438-100A inside, inside original plastic bag with evidence tape. Tape marked with date, time, initials. Bag and contents placed into FTMAI evidence storage locker #1.
1543 4 Jan 00	Received three slide containers in a plastic bag labeled "99C-0438-76A, 91A, 112A" from Suzanne Barrett / AFDIL. The bag contains three slide containers marked 99C-0438-76A, 99C-0438-91A and 99C-0438-112A respectively. The items were received in good condition and placed in FTMAI evidence storage locker #1. The bag was marked with date, time and initials.
1532 7 Jan 00	Opened "slide containers 99C-0438-76A & 99C-0438-112A to photograph close-ups of the slides for ease in measuring. Photos completed at 1646. Slides placed in FTMAI evidence storage locker #1.

AFIP/OAFME TRACE MATERIALS ANALYSIS

LABORATORY NOTES

AFIP #: 99C-φ438

LAB CONTROL #: 99-φ9

NAME: Grant Graham

2φJanφφ φ917	<p>A 5.5 times photographic enlargement of slide 99C-φ438-112A was obtained via an original 35mm color slide image utilizing a Fuji Piccastat. The resulting image was used to measure the hairs in Slide 99C-φ438-112A together with microscopic examination of the hairs. Length measurements (approximate) are as follows:</p> <ul style="list-style-type: none"> - Hair #1: approx 3.1 cm - Hair #2: approx 6.1 cm - Hair #3: approx 2.7 cm - Hair #4: approx greater than 14.5 cm. A more accurate measurement could not be made due to close intermingling of hairs on slide.
2 May φφ φR43	<p>By request of Dr. Holland (AFDIL) the top and bottom (underside) of slide 99C-φ438-63A was cleaned (mounting medium removed from outer surface) to facilitate better observation of the slide. Xylene on a sterile blood blotter pad was used to remove the mounting medium from the outer surface. The mounting medium inbetween the coverslip and slide was not disturbed. After cleaning, visibility of the slide was good. There are several fiber fragments visible and only one hair with root; no adhering tissue or possible blood visible. The hair is transparent with little pigment visible; scales are not visible. Tip is rounded & root bulbous. Hair is approximately 7mm in length and 29.4 μm wide, approximately. Due to lack of observable characteristics it cannot be determined if the hair is of human or animal origin. (human?)</p>
B Jan φφ 1322	<p>Slides 99C-φ438-99A; 100A; 112A; 75A; 93A; 51A; 45A; 46A; 55A; 56A; 91A; 76A; 113A; 98A; 94A; 104A; 63A; 52A; 50A; 48A; 115A and 62A were released to Suzanne M. Borritt (AFDIL) via DA Form 4137 (Evidence/Property Custody Document).</p>

AFIP/OAFME TRACE MATERIALS ANALYSIS

AFIP #: AFDIL * 99C-0438 LABORATORY NOTES

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LAB CONTROL #: 99-09

NAME: Grant Graham

10 July 00 1638	Received the following items from Suzanne Barrett (AFDIL Tech Leader): Slide * 99C-0438-51A, Slide * 99C-0438-63A, and hair exemplars in sealed containers: 99C-0438-04A, 99C-0438-05A, 99C-0438-131A, 99C-0438-156A, 99C-0438-31A. The above items were received in a sealed plastic bag bearing the above mentioned item numbers and initials/date (SMB/7-10-00). The items were received for via DA Form 4137 and placed in ETM&H evidence storage locker #1. Also received was a letter and copy of laboratory notes from Brian M. Murtogh.
9 Aug 00 1670	Called Dr. Deforest/defense expert concerning item 99C-0438-63A, which I had previously reported as; could not be determined if human or animal because of lack of observable characteristics. Dr. Deforest suggested observing the hair with a polarizing microscope under crossed polars at 45° with a 1/4 wave plate.
10 Aug 00 1604	Called Dr. Deforest and discussed item 99C-0438-63A while observing the item as described on 9 Aug 00 entry. Under crossed polars with 1/4 wave plate the following observations were made and described to Dr. Deforest over the phone: 45°; orientation from top right to lower left of viewing area hair appears yellow in color. At root end the yellow is lighter, turns darker yellow in center area of hair shaft and turns white toward the tip. No scale pattern visible, however some scales are observed to protrude outward from the shaft, more so toward the tip than at the root end. Cuticle thickness appears thicker at center area of the hair shaft. Root is bulbous and slightly elongated at tip of bulb. At 45°; orientation from top left to lower right of viewing area the hair appears dark blue-black at the outer margin along the hair shaft, with a more blue-gray color in the center area of the hair shaft. Cuticle margin is readily discernible along shaft to tip, but not in root area. Scales observed to protrude outward along shaft, more so toward tip. With crossed polars and no 1/4 wave plate the hair appears white in both orientations. At 180° horizontally it appears black at outer edges and blue in center area. No medulla is visible in any orientation. Based on the above information, my opinion as to the origin of the 63A hair has not changed.
18 Aug 00 0716	Reexamined 99C-0438-51A to determine which hair matches the hair described in a letter written by Mr. Brian M. Murtogh dated June 30 2000 and accompanying laboratory notes upon comparing morphological characteristics of the questioned hair described as E-5, described in the 30 June 00 letter by Murtogh and the copy of examination notes to the hairs on Slide 51A, the questioned hair is the hair mounted between two hairs as described by Murtogh in his letter and the examination notes. The questioned hair was labeled by myself as "2" with a red dot adjacent to the hair. The hairs described as known exemplars, which are on either side of the questioned hair, were labeled "1" & "3" for ease in identifying the location of the hairs.

AFIP/OAFME TRACE MATERIALS ANALYSIS

AFIP #: AFDEL# 99C-0438

LABORATORY NOTES

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LAB CONTROL #: 99-09

NAME: Grant Graham

18 Aug 06 1330	Initiated photography of items 99C-0438-04A, 05A, 131A, 151A, & 31. Completed 1448.
28 Aug 06 1500	Examined 99C-0438-156A labeled "Collette MacDonald, K-1 11:25 AM 9/17/74." to obtain samples suitable for DNA testing. Collected 5 hairs with roots. Roots appear elongated and also show signs of possible protraction in the root area. Additionally, tissue that could be blood is present on the root. The roots appear black in color. Entire sample had numerous areas of dried, dark red-brown in color debris adhering in clumps along the ends and shaft of the hairs. Hairs were blond in color. The 5 testing hairs were placed in a drugst fold and then into an envelope and sealed.
28 Aug 06 1640	Examined 99C-0438-04A labeled "Kristen MacDonald, NE19." to obtain samples suitable for DNA testing. Collected 5 hairs with roots. Roots appear elongated and also show signs of possible protraction. Additionally tissue that could be blood is present on the root. Roots appear black in color. Hairs were blond in color. The 5 hairs were placed in a drugst fold and then into an envelope and sealed.
18 Aug 06 1716	Examined 99C-0438-131A labeled "Kimberly MacDonald, 11:20 AM 9/17/74, K2. Collected 5 hairs with roots. Roots are dark with possible blood tissue adhering. Hairs were blond in color. The 5 hairs were placed in a drugst fold and then into an envelope and sealed.
28 Aug 06 1619	Examined 99C-0438-05A labeled "Known head hair of Helen Wanda Streckley." to obtain samples suitable for DNA testing. Collected 5 hairs with roots, but little tissue present. Roots are bulbous and show no signs of being forcibly removed. Appear to be telogen hairs. The 5 hairs were placed in a drugst fold and then into an envelope and sealed. Hairs were brown in color.
28 Aug 06	Examined 99C-0438-31. Contained 3 slide containers each with one slide inside containing hair or hairs. The slides were labeled with case # 99C-0438-51 and individually identified as "Item 1", "Item 2" and "Item 3" for better identification. Advised by Suzi Barrett / AFDEL no further examination is necessary.

IN THE UNITED STATES DISTRICT COURT
 FOR THE EASTERN DISTRICT OF NORTH CAROLINA
 FAYETTEVILLE DIVISION

UNITED STATES OF AMERICA,)
)
 v.) NO. 75-26-CR-3
)
 JEFFREY R. MacDONALD,)
)
 Defendant.)

TRIAL BEFORE
 THE HONORABLE FRANKLIN T. DUPREE, JR.
 UNITED STATES CHIEF DISTRICT JUDGE
 AND A JURY

AT RALEIGH: THURSDAY, JULY 26, 1979

PAGES 2403-2640 TRIAL DAY SIX



1 MR. BLACKBURN: Your Honor, just one
2 moment. No further questions, Your Honor.

3 MR. SMITH: No questions.

4 THE COURT: Call your next witness.

5 MR. BLACKBURN: Your Honor, we would
6 call Dr. William Hancock.

7 (Witness excused.)

8 (Whereupon,

9 DR. WILLIAM FRANKLIN HANCOCK, JR.

10 was called as a witness, duly sworn, and testified as
11 follows:)

12 DIRECT EXAMINATION 2:42 p.m.

13
14 BY MR. BLACKBURN:

15 Q Please state your name.

16 A William Franklin Hancock, Jr.

17 Q If you would, sir, speak loudly enough so
18 everyone can hear you. Dr. Hancock, where do you
19 presently reside?

20 A I presently reside in Glendon, North
21 Carolina.

22 Q How are you presently employed?

23 A Pardon me, sir?

24 Q How are you presently employed?

25 A I am just presently terminating an



1 four stab wounds that were clustered around the center
2 of the chest. Then there was a fifth stab wound which
3 is in the neck area. These were described basically
4 as gaping incised wounds.

5 The other lesions that I described--the
6 significant ones--were small, maybe less than a quarter
7 of an inch circular kind of bruises that--a few of these
8 occurred under the nipples, and then there was sort of an
9 ill-defined pattern extending along, I think, the right
10 side of the chest in sort of an "s-shaped" pattern.

11 There were approximately ten of these
12 circular small wounds, a few of which appeared to
13 penetrate through the skin. The others seemed to cause
14 superficial skin penetration with some bruising around
15 them. The major wounds were the central gaping incised
16 wounds.

17 Q With respect to the hands of Kristen
18 MacDonald, what, if anything, did you observe there, sir?

19 A There was multiple minor lacerations--cuts
20 basically--on both hands if I recall from reading my
21 protocol and, in addition, there was a more significant
22 wound. I think it was on the right hand--the right hand
23 on either the ring or middle finger. There was a fairly
24 large--it looked like an incised or cut wound--
25 approximately an inch and a half or so on the side of

1 the finger. But the hand also had some minor cuts on
2 it in other places which basically did not cause any
3 bleeding, but the large wound that I described was down
4 basically to the bone.

5 Q Do you have an opinion, sir, satisfactory
6 to yourself, as to the type or classification of the
7 wound that was on her finger?

8 A I would say as a general reference these
9 could be defined as defensive wounds or these could be
10 wounds incurred in the process of other type of wounds
11 happening. As a general statement, I would say that.

12 Q With respect to the back and shoulder area
13 of Kristen MacDonald, what did you observe there, sir,
14 during the autopsy?

15 A On the back and in the approximate mid-back
16 area, she had similar incised, slightly gaping wounds.
17 There were ten of these grouped in the center of the
18 back, and there were two others which were slightly off,
19 I believe, it was the left side, but there were ten in
20 the approximate central area of the back.

21 Then there were two incised wounds which
22 were sort of over one of the shoulder blades. A total of
23 12 of these incised wounds were on the back. There was
24 some minor other wounds. I cannot say definitely that
25 these occurred with the incised wounds. It might just



6-187

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76-10
P.C. 42-12
R₂ and R₃

(38)

Army
20 June 80
DOB
Horn + Fisher
- Woods -

multi strand cotton fibers identical to the
multi strand cotton thread used to sew
the seams of the pyjama jacket, Exhibit D-210
no bloodstains - One piece of long or
grass like vegetable matter & one blue
multi strand fiber, not identified. - Three
cut pieces of shag rug with bloodstains.
- One human head hair grossly similar
in all physical characteristics to the
head hair of Collette MacDonald.

Exhibit E-303 - Fibers and debris from
under the trunk and legs of Collette
MacDonald in MBR - Vial contained
numerous purple multi strand cotton fibers
similar to the purple multi strand thread
used to sew the seams of Exhibit D-210. also
several blue cotton/polyester multi strand
fibers identical to the cotton/polyester
material of Exhibit D-210* - one long
green/brown cotton fiber, bloodstained -
One human pubic or body hair, no
comparison due to a lack of known -

000154

277

6-170

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Army

20 March,

502

Have as follows

- Woods -

Ex
C-1
R2
R3

②39

Several pieces of wood identical to the wood of Exhibit A. - Two pieces of yellow tissue paper with bloodstains

Ex E-304 - One black sweatshirt, property of Capt MacDonald.

Removed several hairs from the sweat shirt - all were animal hair, similar to horse hair - Could find no hair to see as a known of Capt MacDonald.

Exhibit E-305 - One pair of rubber diver's gloves with cream colored paint. Removed paint and examined under the microscope.

Identical to the brown paint from Ex A, Ex 203, and Exhibit A4 in color and texture. Ran on D.C. and got good comparison on chemical composition. It is the opinion of the chemist that all of these paints could have originated from a common source.

C00155

202