

REPORT
of the

73-17592-12

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To: Mr. Don Redmond
Sheriff of Thurston County
Olympia, Washington 98507

January 29, 1974

AIRMAIL

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

Re: DAVID LEROY HEDGERS, SUSPECT;
101C VICTIM;
HOMICIDE

Clarence M. Kelley
Director

YOUR NO. 74-176-1, 73-17592-12

FBI FILE NO. 95-189995

LAB. NO. PC-K4581 MD MU

Examination requested by: Addressee

Reference: Letter 1/9/74

Examination requested: Microscopic Analyses - Chemical Analyses - Fingerprint

Specimen:

Q1 Hunting knife and sheath

Result of examination:

A few red woolen fibers found on specimen Q1 are suitable for significant comparison purposes and have been mounted on glass microscope slides.

No hairs of human origin were found on Q1.

Blood of the deer family origin was identified on the Q1 knife and sheath.

You are being advised of the results of the fingerprint examinations of specimen Q1 by a separate report. The submitted item is being returned to your office under separate cover by registered mail.



UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

WASHINGTON, D.C. 20535

73-17592-12

January 14, 1974

Mr. Don Redmond
To: Sheriff of Thurston County
Olympia, Washington 98507

AIRMAIL

In Reply, Please Refer to

File No. PC-K4581 MD MU

Re: DAVID LEROY HEDGERS, SUSPECT;
101C [REDACTED] VICTIM;
HOMICIDE

Case No. 74-176-1, 73-17592-12

From: Director, Federal Bureau of Investigation

The FBI Laboratory has received the evidence which you sent for examination in connection with the above-entitled case. A Laboratory report will be sent to you after the examination has been completed.

The examination is being made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

If any developments occur in this case such as dismissal of charges or guilty pleas which would eliminate the necessity for conducting the requested examinations, please advise the FBI Laboratory immediately.

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

DATE: 1/29/74

Re:

DAVID LEROY HEDGERS, SUSPECT;
101C [REDACTED] VICTIM;
HOMICIDE

TO: Mr. Don Redmond
Sheriff of Thurston County
Olympia, Washington 98507

73-17592-12

Invoice of Contents

Q1

REGISTERED MAIL

FBI File No. 95-189995

All items listed above are contained in this package. A detailed description of items will be found in Bureau communication dated

1/29/74 , # PC-K4581 MD MU

9 January 1974

73-17592-12

TO: Director, FBI
Attention: FBI Laboratory

FROM: Thurston County Sheriff's Department
Olympia, Washington
Our Case No. 74-176-1, 73-17592-12

RE: Suspect: David Leroy Hedgers
Victim: 101C
Offense: Homicide

Dear Sir:

The evidence described below is forwarded under separate cover for examination by the FBI Laboratory.

This evidence is being submitted in connection with an official investigation. It was not, nor will it be subjected to the same type of technical examination by other experts. The evidence is being shipped to you via Air Express, Special Handling.

Please forward results of your report and any evidence you do not retain to Lieutenant H. V. Beesen of this Department.

Sincerely,

Don Redmond
Sheriff

DR/eb

73-17592-12

DESCRIPTION OF EVIDENCE:

1. Hunting knife in leather sheath.

EXAMINATION REQUESTED:

Examine knife for the possibility of human blood, hair, fiber and any other substance on the knife.

Examine knife for the presence of latent fingerprints.

STATEMENT OF FACTS:

A search of the above-named suspect's residence was conducted and the submitted hunting knife and sheath was confiscated. The knife appears to have a great amount of stain and it appears to be blood.

During the search of this residence, newspaper clippings of a recent homicide in our county was discovered. It appeared the knife and the newspaper clippings were attempted to be hidden. Because of the suspicious circumstances of the above material, there may be a relationship of this evidence and the recent homicide in our county.

73-17592-12

9 January 1974

TO: Director, FBI
Attention: FBI Laboratory

FROM: Thurston County Sheriff's Department
Olympia, Washington
Our Case No. 74-176-1, 73-17592-12

RE: Suspect: David Leroy Hedgers
Victim: 101C
Offense: Homicide

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DZ/eb

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FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

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Olympia, Washington 98507

January 29, 1974

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Re: **DAVID LEROY HEDGERS, SUSPECT;**
101C **[REDACTED] VICTIM;**
HOMICIDE

Clarence M. Kelley
Director

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FBI FILE NO. 95-189995

LAB. NO. PC-E4581 MD MU

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STATE OF WASHINGTON
WASHINGTON STATE PATROL

2502 112th Street East, Room 273 • Tacoma, WA 98445-5104 • (253) 536-4280 • FAX (253) 536-4290

CRIME LABORATORY REPORT

AGENCY: Thurston County Sheriff's Office
OFFICER: Sgt. Phillips
VICTIM: 101C
SUSPECT: Unknown

LABORATORY NO.: 386-0808
AGENCY NO.: 73-17592-12
REQUEST NO.: 1 & 3

Items Examined:

- 14. One off-white blouse with heavy staining on the front
- 44. Gauze material bearing an orangish stain, reported to be a vaginal swab sample from 101C
- 53. One vial with red staining dried on the inside surface, reported to be blood from 101C
The vial also contains a syringe needle.

Examination Procedures and Results:

A cursory exam for blood was performed on the blouse. Stains, which appeared to be mixed with soil, gave positive indications for blood when tested with phenolphthalin. No further testing was performed on this item.

The red staining found inside item 53 also gave positive indications for blood when tested with phenolphthalin. A portion of the staining found inside the vial of item 53 was removed and extracted for DNA content.

Semen was identified on the vaginal sample via microscopic identification of spermatozoa. A cutting was removed and extracted for DNA using a procedure which attempts to separate non-spermatozoa DNA away from the spermatozoa cells by generating two sample fractions (termed sperm fraction and non-sperm fraction).

The extracted samples were quantified for human DNA levels, then amplified by the PCR (polymerase chain reaction) process using the Applied Biosystems AmpFISTR® Profiler Plus™ and COfiler™ amplification kits. The resulting STR (short tandem repeat) DNA products were analyzed using an ABI Prism™ 310 capillary electrophoresis unit.

The following DNA sites were examined during this analysis:

D3S1358	D8S1179	TH01	D5S818
vWA	D21S11	TPOX	D13S317
FGA	D18S51	CSF1PO	D7S820
D16S539	Amelogenin (a gender-determination site)		

Jeremy Sanderson
Jeremy D. Sanderson, Forensic Scientist

9/26/01
Date



AGENCY: Thurston County Sheriff's Office
OFFICER: Sgt. Phillips
VICTIM: 101C
SUSPECT: Unknown

LABORATORY NO.: 386-0808
AGENCY NO.: 73-17592-12
REQUEST NO.: 1 & 3

Conclusions:

The major DNA profile obtained from the sperm fraction of the vaginal sample was searched against the convicted felon databank maintained by the WSP Crime Laboratory. No matches were found between it and those in the databank. This profile will be compared to the databank routinely as more profiles are entered. It will also be searched against a national database. A separate report will be issued if a match is found in a subsequent search.

No complete profile was obtained from the reference blood sample of 101C for comparison purposes at this time.

Disposition of Evidence:

DNA extracts remaining from the vaginal swab gauze will be stored frozen at the WSP Tacoma Crime Laboratory. Other items submitted will be stored in the laboratory vault pending return to the Thurston County Sheriff's Office.

Glossary:

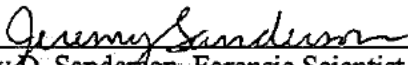
Capillary Electrophoresis: A method of separating DNA fragments by size.

DNA (deoxyribonucleic acid): Genetic material found in every nucleated cell.

PCR: (polymerase chain reaction): A process used to make many copies of short target segments of DNA which can subsequently be typed. This process is commonly referred to as "DNA amplification".

Phenolphthalin: A chemical test used to indicate the possible presence of blood.

STR (short tandem repeat): Short segments of DNA, of a particular sequence, which is repeated a variable number of times. STR's are differentiated and categorized based on size.


Jeremy D. Sanderson, Forensic Scientist

9/26/01
Date



STATE OF WASHINGTON
WASHINGTON STATE PATROL

2502 112th Street East, Room 273 • Tacoma, WA 98445-5104 • (253) 536-4280 • FAX (253) 536-4290

CRIME LABORATORY REPORT

AGENCY: Thurston County Sheriff's Office
OFFICER: Sgt. Gordon Phillips
VICTIM: 101C
SUSPECT: Cosden, William E. Jr.

LABORATORY NO.: 386-000808
AGENCY NO.: 73-17592-12
REQUEST NO.: 0004

Items Examined:

90. Two vials of red liquid, reported to be a reference blood sample from William Cosden.

Examination Procedures and Results:

A portion of the reference blood sample was preserved in the form of dried stains. A cutting from one stain was removed and extracted for DNA content.

The reference sample extract was quantified for human DNA levels, then amplified by the PCR (polymerase chain reaction) process using the Applied Biosystems AmpFISTR® Profiler Plus™ and COfiler™ amplification kits. The resulting amplified STR (short tandem repeat) DNA products were analyzed using an ABI Prism™ 310 capillary electrophoresis unit.

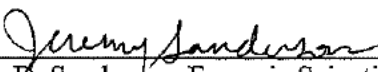
The following DNA sites were examined during this analysis:

D3S1358	D8S1179	TH01	D5S818
vWA	D21S11	TPOX	D13S317
FGA	D18S51	CSF1PO	D7S820
D16S539	Amelogenin (a gender-determination site)		

Conclusions:

An interpretable DNA profile for all of the sites examined was obtained from the reference blood sample of Cosden. This profile was compared to a profile generated previously from a sperm fraction extract of a vaginal swab reportedly collected from 101C please see WSP Report # 386-0808, Request 1 & 3, dated 9/26/01).

The DNA profile from William Cosden matches the profile of the major DNA component recovered from the sperm fraction of the vaginal swab at all of the sites examined. It can be estimated that not more than one person in the world's population, excluding identical twins, would have this profile [using frequency data compiled by the FBI and published in the Journal of Forensic Sciences 2001, 46 (3)].


Jeremy D. Sanderson, Forensic Scientist

11/13/01
Date



AGENCY: Thurston County Sheriff's Office
OFFICER: Sgt. Gordon Phillips
VICTIM: 101C
SUSPECT: Cosden, William E. Jr.

LABORATORY NO.: 386-000808
AGENCY NO.: 73-17592-12
REQUEST NO.: 0004

Disposition of Evidence:

The blood stain prepared reference sample of Cosden will be stored frozen at the WSP Tacoma Crime Laboratory. Other items submitted will be stored in the laboratory vault pending return to the Thurston County Sheriff's Office.

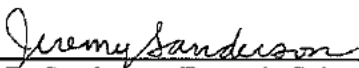
Glossary:

Capillary Electrophoresis: A method of separating DNA fragments by size

DNA (deoxyribonucleic acid): Genetic material found in every nucleated cell.

PCR: (polymerase chain reaction): A process used to make many copies of short target segments of DNA which can subsequently be typed. This process is commonly referred to as "DNA amplification".

STR (short tandem repeat): Short segments of DNA, of a particular sequence, which is repeated a variable number of times. STR's are differentiated and categorized based on size.



Jeremy D. Sanderson, Forensic Scientist

11/13/01

Date

CASE NUMBER	ITEM	ITEM DESCRIPTION	LOC
73-17592-12	1	BOTTLE, COCA COLA, EMPTY, 1 EA.	C
73-17592-12	2	BEER CAN, COORS, EMPTY, 1 EA.	C
73-17592-12	3	CHAIN, LINK.	C
73-17592-12	4	BEER CAN, RAINIER, 1 EA.	C
73-17592-12	5	ROPE, 3 PIECES.	C
73-17592-12	6	BAG, PAPER, BROWN, 2 EA.	C
73-17592-12	7	LIFE SAVER WRAPPER.	C
73-17592-12	8	BEER CAN, OLYMPIA, EMPTY, 1 EA.	C
73-17592-12	9	ROOT BEER CAN, EMPTY, 1 EA.	C
73-17592-12	12	BOOK MATCH, BURNT, 1 EA.	C
73-17592-12	13	COAT, MOCK FUR LINED. <i>LOOSE HAIR FROM COAT</i>	C
73-17592-12	14	BLOUSE. <i>14 A HAIR OFF BLOUSE 2 SLIDES</i>	C
73-17592-12	15	BRA.	C
73-17592-12	16	SHOE, RIGHT. <i>FIBER OFF SHOE ATTACHED</i>	C
73-17592-12	17	SOCKS.	C
73-17592-12	18	JEANS, BLUE. <i>18 A HAIR OFF JEANS 1 SLIDE</i>	C
73-17592-12	19	PANTIES. <i>19 A FIBER OFF PANTIES 1 SLIDE</i>	C
73-17592-12	21	BEER, OLYMPIA, SIX PACK, FULL.	C
73-17592-12	22	ROPE.	C
73-17592-12	23	METAL, 4 PCS.	C
73-17592-12	24	BAGGIE.	C
73-17592-12	25	BEER, OLYMPIA, 12 OZ BTL, FULL, 1 EA.	C
73-17592-12	26	HAIR FROM VICTIMS COAT COLLAR.	C
73-17592-12	27	GLASS, BROKEN.	C
73-17592-12	28	BEER CAN, OLYMPIA, EMPTY, 1 EA.	C
73-17592-12	29	SCARF.	C
73-17592-12	30	T SHIRT, WHITE.	C
73-17592-12	31	ROPE. <i>31 A HAIR OFF ROPE 1 SLIDE</i>	C
73-17592-12	32	HAIR FROM ROPE, ITEM 031.	C
73-17592-12	33	ROPE, 7 PCS'S.	C
73-17592-12	34	CHAIN LINK, 1 EA.	C
73-17592-12	35	BAG FROM VICTIMS HAND DURING TRANSPORT.	C

CASE NUMBER	ITEM	ITEM DESCRIPTION	LOC.
73-17592-12	36	BAG FROM VICTIMS HAND DURING TRANSPORT.	C
73-17592-12	37	BAG FROM VICTIMS BODY DURING TRANSPORT. <i>37A HAIR FROM BODY BAG</i>	C
73-17592-12	38	CAR SEAT COVER.	C
73-17592-12	39	ROCK W/LETTERING.	C
73-17592-12	40	EARTH FROM BELOW VICTIMS HEAD.	C
73-17592-12	41	EARTH FROM BELOW VICTIMS NECK.	C
73-17592-12	42	GROUND MATERIAL-WOOD;LEAVES;ETC W/HAIR&BLOOD	C
73-17592-12	43	EARTH W/BLOOD LIKE SUBST. NEAR BODY.	C
73-17592-12	44	VAGINAL SWAB.	F
73-17592-12	45	VAGINAL CONTROL SWAB.	F
73-17592-12	46	VAGINAL SMEARS, 4 EA.	F
73-17592-12	47	ANAL SMEARS, 4 EA.	F
73-17592-12	48	ORAL SMEARS, 4 EA.	F
73-17592-12	49	ANAL SWAB.	F
73-17592-12	50	VAGINAL SWAB.	F
73-17592-12	51	ORAL SWAB.	F
73-17592-12	52	ORAL SWAB, CONTROL SAMPLE.	F
73-17592-12	53	BLOOD SAMPLE FROM VICTIM.	F
73-17592-12	54	HEAD HAIR FROM VICTIM.	F
73-17592-12	55	FOREARM HAIR FROM VICTIM.	F
73-17592-12	56	LOOSE HAIR FROM VICTIMS ANUS AREA.	F
73-17592-12	57	PUBIC HAIR FROM VICTIM.	F
73-17592-12	58	PUBIC HAIR COMBING FROM VICTIM.	F
73-17592-12	59	FINGERNAIL POLISH FROM VICTIMS HANDS.	F
73-17592-12	60	FINGERNAIL SCRAPINGS FROM VICTIM.	F
73-17592-12	61	FINGERNAIL SCRAPINGS FROM VICTIM.	F
73-17592-12	62	METAL FRAGMENT FROM VICTIMS BODY.	F
73-17592-12	63	DENTAL CHART OF DECEASED.	C
73-17592-12	71	TEETH EXTRACTED FROM VICTIM, 7 EA.	C
73-17592-12	72	DENTAL CASTS OF VICTIM.	C
73-17592-12	73	DENTAL X-RAYS OF VICTIM.	C
73-17592-12	74	MOVIE FILM OF VICTIMS FUNERAL, 2 REELS.	C

CASE NUMBER	ITEM	ITEM DESCRIPTION	LOC
73-17592-12	76	DENTAL RECORD OF VICTIM 101C	C
73-17592-12	77	CHART WITH FOUR DENTAL X'RAYs.	C
73-17592-12	78	LETTER FROM DR PRINCE, DDS TO CORONER.	C
73-17592-12	79	TV TAPE OF PEOPLE ATTENDING FUNERAL OF VICTIM	C
73-17592-12	80	LISTS OF PEOPLE ATTENDING FUNERAL OF VICTIM	C
73-17592-12	83	WINE BOTTLE, RIPLE, EMPTY.	C
73-17592-12	84	BALL POINT PEN, "POINT TAVERN".	C
73-17592-12	85	NOTEBOOK PAPER, 1 SHEET W/HANDWRITING.	C
73-17592-12	86	BOOT PRINT FOR ELIMINATION.	C
73-17592-12	87	NOTEBOOK DIARY OF VICTIM.	C
73-17592-12	88	KNIFE, BUTCHER, BLACK HANDLE.	C
73-17592-12	89	SALIVA SAMPLE OF WLM E COSDEN JR.	F
73-17592-12	91	HAIR SAMPLES OF WLM E COSDEN JR.	F
73-17592-12	90	BLOOD SAMPLE OF WLM E COSDEN JR.	GR



GEORGE B. TELLEVIN
Chief

STATE OF WASHINGTON

WASHINGTON STATE PATROL

610 3rd Avenue, Public Safety Building, 2nd Floor • Seattle, Washington 98104-1820 • (206) 464-7038 • (SCAN) 576-7038

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: **101C**

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

Donald C. MacLaren

Laboratory No. 186-2827
Thurston County Sheriff's Office No. 73-17592-12
Suspect: Cosden, William E. Jr.
Victim: 101C

Page 2 of 2

- 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 101C. The blood was examined for 402
- 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:
- 401/401A
- 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 101C indicates that her ABO blood type was 402. The presence of the H(O) antigenic substance in the oral smear (Item 48) 402 that she was a 402
- 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 101C was of 402 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 401/401A. 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