



OKLAHOMA STATE BUREAU OF INVESTIGATION

Southwestern Regional Office and Laboratory
5 N.E. 22nd
Lawton, Oklahoma 73507
(580) 355-6144



Accredited Since
2001

CRIMINALISTICS EXAMINATION REPORT

LAB NO.:	2010-001307 Report# 2	Reported To:	Chris Lemons
		Address:	Stephens County Sheriff's Office 101 S. 11 th Street, Room 104 Duncan, OK 73533
Date Received:	January 14, 2010		
Date Reported:	May 18, 2010		
Classification of Case:	SEX OFFENSES	Submitted By:	Chris Lemons, Stephens County Sheriff's Office
Subject(s):	Charles DYER, W/M, 08/17/1980	Victim(s):	Haley DYER, W/F, 11/25/2002

Reference: Stephens County Sheriff's Office Case#: 10-0034
OSBI Criminalistics Report# 1 dated 4/14/2010 by Sara Ferrero

Description of Evidence:

- 2D Stain from flat sheet
- 2G Stain from flat sheet
- 3B Stain from comforter
- 15A Known from H. Dyer
- 15B Known from C. Dyer
- 15C Known from A. Monsalve
- 15D Known from I. Chrzanowski

Analysis of Evidence:

Deoxyribonucleic Acid (DNA) was isolated from the following items in the attached table and characterized through the Polymerase Chain Reaction (PCR) at the Short Tandem Repeat (STR) genetic loci tested. Analysis of stain from flat sheet (Item 2D), stain from flat sheet (Item 2G) and stain from comforter (Item 3B) consisted of separating the samples into epithelial cell fractions, items 2DE, 2GE and 3BE, respectively, and sperm cell fractions, items 2DS, 2GS and 3BS, respectively.

Item 2DE:

The DNA profile obtained from stain from flat sheet epithelial fraction (Item 2DE) appears to be a partial indistinguishable mixture. The sources of known from C. Dyer (Item 15B), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D) cannot be excluded as potential contributors to the mixture obtained from stain from flat sheet epithelial fraction (Item 2DE). The probability of selecting an unrelated individual at random from the population who could be a potential contributor to this mixture is approximately one (1) in 2.28 thousand in Caucasians, one (1) in 3.42 thousand in African Americans, and one (1) in 2.04 thousand in Southwest Hispanics.

The source of known from H. Dyer (Item 15A) is excluded as a potential contributor to this mixture.

LAB NUMBER: 2010-001307 **Report Number:** 2

Analysis of Evidence: continued...

Item 2DS:

The DNA profile obtained from stain from flat sheet sperm fraction (Item 2DS) matches the DNA profile obtained from known from C. Dyer (Item 15B) at all of the genetic loci tested. Assuming a single donor, the probability of selecting an unrelated individual at random from the population having this DNA profile is approximately one (1) in 585 trillion in Caucasians, one (1) in 3.80 quadrillion in African Americans, and one (1) in 2.44 quadrillion in Southwest Hispanics.

The DNA profile obtained from stain from flat sheet sperm fraction (Item 2DS) does not match the DNA profiles obtained from known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D). The sources of known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D) are excluded as potential donors of stain from flat sheet sperm fraction (Item 2DS).

Item 2GE:

The DNA profile obtained from stain from flat sheet epithelial fraction (Item 2GE) matches the DNA profile obtained from known from A. Monsalve (Item 15C) at all of the genetic loci tested. Assuming a single donor, the probability of selecting an unrelated individual at random from the population having this DNA profile is approximately one (1) in 750 trillion in Caucasians, one (1) in 10.9 quadrillion in African Americans, and one (1) in 1.18 quadrillion in Southwest Hispanics.

The DNA profile obtained from stain from flat sheet epithelial fraction (Item 2GE) does not match the DNA profiles obtained from known from H. Dyer (Item 15A), known from C. Dyer (Item 15B) and known from I. Chrzanowski (Item 15D). The sources of known from H. Dyer (Item 15A), known from C. Dyer (Item 15B) and known from I. Chrzanowski (Item 15D) are excluded as potential donors of stain from flat sheet epithelial fraction (Item 2GE).

Item 2GS:

The DNA profile obtained from stain from flat sheet sperm fraction (Item 2GS) appears to be a mixture consisting of a major component and a minor component.

Major:

The DNA profile obtained from the major component of this mixture matches the DNA profile obtained from known from C. Dyer (Item 15B) at all of the genetic loci tested. Assuming a single donor, the probability of selecting an unrelated individual at random from the population having this DNA profile is approximately one (1) in 585 trillion in Caucasians, one (1) in 3.80 quadrillion in African Americans, and one (1) in 2.44 quadrillion in Southwest Hispanics.

The DNA profile obtained from the major component of this mixture does not match the DNA profiles obtained from known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D). The sources of known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D) are excluded as potential donors of the major component of the mixture obtained from stain from flat sheet sperm fraction (Item 2GS).

LAB NUMBER: 2010-001307 **Report Number:** 2

Analysis of Evidence: continued...

Item 2GS: continued...

Minor:

The source of known from A. Monsalve (Item 15C) cannot be excluded as a potential contributor of the alleles detected in the minor component of the mixture obtained from stain from flat sheet sperm fraction (Item 2GS) at the genetic loci D3S1358, vWA, D8S1179, D21S11, D18S51, D5S818, D13S317, D7S820, TH01, TPOX and CSF1PO. The probability of selecting an unrelated individual at random from the population who could be a potential contributor to the minor component of this mixture is approximately one (1) in 5.86 thousand in Caucasians, one (1) in 6.21 thousand in African Americans, and one (1) in 2.51 thousand in Southwest Hispanics.

The sources of known from H. Dyer (Item 15A), known from C. Dyer (Item 15B) and known from I. Chrzanowski (Item 15D) are excluded as potential contributors to the minor component of the mixture obtained from stain from flat sheet sperm fraction (Item 2GS).

Item 3BE:

The DNA profile obtained from stain from comforter epithelial fraction (Item 3BE) appears to be a mixture consisting of a major component and a minor component.

Major:

The DNA profile obtained from the major component of this mixture matches the DNA profile obtained from known from A. Monsalve (Item 15C) at all of the genetic loci tested. Assuming a single donor, the probability of selecting an unrelated individual at random from the population having this DNA profile is approximately one (1) in 750 trillion in Caucasians, one (1) in 10.9 quadrillion in African Americans, and one (1) in 1.18 quadrillion in Southwest Hispanics.

The DNA profile obtained from the major component of this mixture does not match the DNA profiles obtained from known from H. Dyer (Item 15A), known from C. Dyer (Item 15B) and known from I. Chrzanowski (Item 15D). The sources of known from H. Dyer (Item 15A), known from C. Dyer (Item 15B) and known from I. Chrzanowski (Item 15D) are excluded as potential donors of the major component of the mixture obtained from stain from comforter epithelial fraction (Item 3BE).

Minor:

The source of known from C. Dyer (Item 15B) cannot be excluded as a potential contributor of the alleles detected in the minor component of the mixture obtained from stain from comforter epithelial fraction (Item 3BE) at the genetic loci D3S1358, vWA, FGA, Amelogenin, D21S11, D18S51, D5S818, D13S317, D7S820, TH01 and TPOX. The probability of selecting an unrelated individual at random from the population who could be a potential contributor to the minor component of this mixture is approximately one (1) in 15.1 thousand in Caucasians, one (1) in 20.4 thousand in African Americans, and one (1) in 8.32 thousand in Southwest Hispanics.

The sources of known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D) are excluded as potential contributors to the minor component of the mixture obtained from stain from comforter epithelial fraction (Item 3BE).

Item 3BS:

The DNA profile obtained from stain from comforter sperm fraction (Item 3BS) matches the DNA profile obtained from known from C. Dyer (Item 15B) at all of the genetic loci tested. Assuming a single donor, the probability of selecting an unrelated individual at random from the population having this DNA profile is approximately one (1) in 585 trillion in Caucasians, one (1) in 3.80 quadrillion in African Americans, and one (1) in 2.44 quadrillion in Southwest Hispanics.

LAB NUMBER: 2010-001307 **Report Number:** 2

Analysis of Evidence: continued...

Item 3BS: *continued...*

The DNA profile obtained from stain from comforter sperm fraction (Item 3BS) does not match the DNA profiles obtained from known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D). The sources of known from H. Dyer (Item 15A), known from A. Monsalve (Item 15C) and known from I. Chrzanowski (Item 15D) are excluded as potential donors of stain from comforter sperm fraction (Item 3BS).

LAB NUMBER: 2010-001307 Report Number: 2

Results Table:

Sample Name/ Number	D3S1338	vWA	FGA	Amelogenin	D8S1179	D21S11	DI8S51	D5S818	D13S317	D7S820	DI6S539	TH01	TPOX	CSF1PO
ZDE Stain from flat sheet epithelial fraction	14,15,16,18	14,15,16	21,22	XY	13,14*	27,29,30	NR	11,12,13	9,10,11, 12	NR	11,12	6,7,9,3,*	8,9,11	10,*
ZDS Stain from flat sheet sperm fraction	14,15	14,15	21,22	XY	13,13	29,30	13,15	11,12	10,11	8,10	11,12	6,7	9,11	10,10
ZGE Stain from flat sheet epithelial fraction	16,18	16,16	21,21	XX	13,14	27,29	14,18	12,13	9,12	11,11	11,12	7,9,3	8,8	10,11
ZGS Stain from flat sheet sperm fraction	14,15 (16,18)	14,15 (16)	21,22	XY	13,13 (14)	29,30 (27)	13,15 (14,*)	11,12 (13)	10,11 (9,12)	8,10 (11)	11,12	6,7 (9,3)	9,11 (8)	10,10 (11)
ZBE Stain from comforter epithelial fraction	16,18 (14,15)	16,16 (14,15)	21,21 (22)	XX (Y)	13,14	27,29 (30)	14,18 (13,15)	12,13 (11)	9,12 (10,11)	11,11 (8,10)	11,12	7,9,3 (6)	8,8 (9,11)	10,11
ZBS Stain from comforter sperm fraction	14,15	14,15	21,22	XY	13,13	29,30	13,15	11,12	10,11	8,10	11,12	6,7	9,11	10,10
15A Known from H. Dyer	15,17	15,17	21,22	XX	10,13	30,32,2	11,13	10,12	9,11	8,11	12,12	6,10	8,11	10,10
15B Known from C. Dyer	14,15	14,15	21,22	XY	13,13	29,30	13,15	11,12	10,11	8,10	11,12	6,7	9,11	10,10
15C Known from A. Monsalve	16,18	16,16	21,21	XX	13,14	27,29	14,18	12,13	9,12	11,11	11,12	7,9,3	8,8	10,11
15D Known from I. Chirzanowski	15,18	16,16	21,22	XX	8,14	27,30	18,21	12,12	9,9	10,11	11,12	9,9,3	8,8	10,11

NR = No Results
 () = Minor Component
 * = Peaks/Artifacts do not meet reporting standards. This/dthese locus/loci not used in calculations.

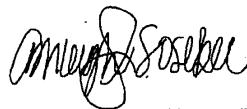
LAB NUMBER: 2010-001307 **Report Number:** 2

Disposition of Evidence:

The by-products of the DNA analysis process from stain from flat sheet (Item 2D) will be retained frozen at the Southwest Regional Laboratory. The remaining portions of this item, as well as all other items submitted in this case will be returned to the submitting agency, Stephens County Sheriff's Office, for retention.

All of the DNA profiles generated in this case will be forwarded to the OSBI Combined DNA Index System (CODIS) Unit for determination of eligibility for entry into the CODIS database.

Pursuant to Title 22 O.S., Section 751, I hereby certify that I am the maker of this document, and that it is a true and correct report of the finding of the Oklahoma State Bureau of Investigation Criminalistics Laboratory.



Ashleigh S. Sosebec
Criminalist

cc: Stephens County District Attorney's Office
attn: Josh Creekmore