



Florida Department of Law Enforcement

Gerald M. Bailey
Commissioner

Orlando Regional Operations Center
500 W. Robinson St.
Orlando, Florida 32801-1771
1-800-226-8521
www.fdle.state.fl.us

Rick Scott, Governor
Pam Bondi, Attorney General
Jeff Atwater, Chief Financial Officer
Adam Putnam, Commissioner of Agriculture

LABORATORY REPORT
March 08, 2012

TO: Chief Bill Lee
Sanford Police Department
815 W. 13th St.
Sanford, FL 32771

FDLE NUMBER: 20120501890
SUBMISSION: 1
AGENCY NUMBER: 201250001136

ATTN: C. SERINO

VICTIM(S): Trayvon Benjamin Martin

SUBJECT(S): George Michael Zimmerman

OFFENSE(S): Death Investigation
Seminole County
2/26/2012

SUBPOENAS PERTAINING TO THIS CASE SHOULD REFER TO THE FDLE NUMBER.

Amy L. Siewert

Amy L. Siewert
Crime Laboratory Analyst
Firearms Section

REFERENCE:

This report is in reference to the following evidence submitted to the Florida Department of Law Enforcement on March 01, 2012 by C. Taylor. This report may contain conclusions, opinions, and/or interpretations made by the author.


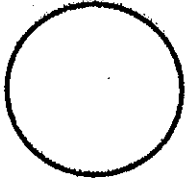
EVIDENCE:

FDLE Item#	Agency Exhibit#	Description
1	DMS-11	One fired 9mm Luger caliber cartridge case
7	ME-4	One fired bullet jacket portion, two fired bullet jacket fragments and one lead bullet core
8	TS-1	One 9mm Luger caliber Kel-Tec model PF-9 semiautomatic pistol, serial number RJY08, one 9mm Luger caliber cartridge, one holster and one magazine containing six 9mm Luger caliber cartridges

RESULTS:

1 DMS-11 The cartridge case was fired in the TS-1 pistol.



Exhibit #	DMS-11	
Container	1 splb & 1 SME & 1 cartridge case	
# of Specimens	1 fired cartridge case	
Trace Material?	dirt	
Condition	good	
Caliber	9mm Luger	
Case Material	(Br.) Cu, Ni, St, Al	Br, Cu, Ni, St, Al
Primer Material	(B) Cu, Ni	Br, Cu, Ni
Analyst Markings	Case# <u>12-1890</u> EX# <u>DMS11</u> Initials <u>ALS</u> Where <u>inside mouth</u>	Case# _____ EX# _____ Initials _____ Where _____
Headstamp and Class Characteristics	BFM: fine para + shapes FPI: hemi w/ circles + shapes para FPAS 	
Conclusion(s)	CMW and ⊕ ID to T3-T51 based on suff. corresp. of patterns of ind. char. in BFM and FPAS w/ ext. @ 6 o'clock	
Verification(s)	603 2/8/2012 BFM & FPAS	
NIBIN	Y <input checked="" type="checkbox"/> (N) Insuff Ind Char <input type="checkbox"/> BFM <input type="checkbox"/> FPI	Y / N Insuff Ind Char <input type="checkbox"/> BFM <input type="checkbox"/> FPI
CLEANED	<input checked="" type="checkbox"/> / N acetone	Y / N

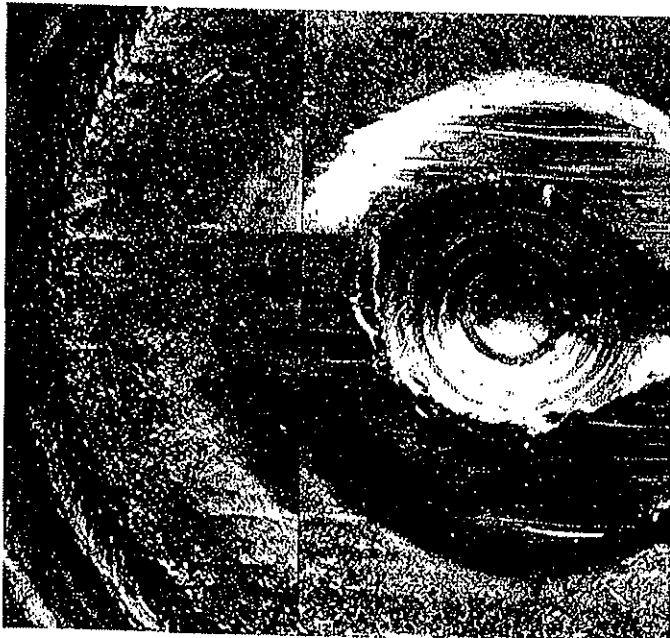
Remarks: Good corresp. seen also in FPI w/T3-T51; however, not needed for ID.



DMS-11 30X T3-TS1
BFM - Ext @ 6



DMS-11 30X T3-TS1
BFM - Ext @ 6



DMS-11 30X T3-TS1
FPAS - Ext @ 6



DMS-11 30X T3-TS1
FPAS - Ext @ 6

Exhibit #	ME-4 A	ME-4 B
Container	1 splb (SMEE 1 Pb core, 1 bullet jacket portion (A) (B) 1 bullet jacket fragment (C))	AS 3-7-12
# of Specimens	1 Fired bullet jacket portion	1 fired bullet jacket fragment
Trace Material?	app. blood	app. blood
Condition	damaged - base bent/warped, petals bent approx. 1/4" missing	damaged; bent + twisted
Caliber	9mm Luger (per ID to TSI pistol)	frag - unable to det.
Rifling	6 conventional (Rt) Lt	frag - cannot det # conventional (Rt) Lt
Type & Physical Characteristics	RN, SWC, WC, FMJ/TMJ, HP, SP, (JHP), SJHP, Other	RN, SWC, WC, FMJ/TMJ, HP, SP, JHP? SJHP, Other appears to be JHP can see nose slits
Jacket Material	Br / (Cu) St / Ni / Al	Br / (Cu) St / Ni / Al
Core Material	Pb / St no core present	Pb / St no core present
Cannelures	— Knurled — Groove (None)	— Knurled — Groove (None)
Weight (grains)	15.2	3.8
Diameter (in)	~0.353 - base damaged - measured in 1 location	N/A - frag
L/G remaining	4 LI; 2 partial LI / 4 GI; 2 partial GI	majority of 1 LI, 1 partial GI + very top of 1 LI
LIMP/GIMP (in)	0.071-0.074 1 0.110-0.111	unable to measure - N/A
Drawing/Diagram	bent petals back to expose rifling (See photo) *only able to measure 3 LI/3 GI due to damage + missing portions of jacket	(See photo)
Analyst Markings	Case# 12-1890 EX# ME4A Initials AS Where on base	Case# 12-1890 EX# ME4B Initials AS Where inside jacket frag
Conclusions	(MW and) (AS) ID to T4-T51 based on suff. corresp. of patterns of ind. char. in LI's (M/N INC) to ME4B + ME4C - observable class (rifling + twist) similar; however damage + poor qual/quant of marks on ME4B+C; no areas of corresp. noted signature of ind. char. similar NV (photo)	(M/N INC) to ME4A, ME4C and T5-1 tests - observable class (rifling-direction of twist) similar; however, damage + poor qual. quant. of marks on ME4 B+C; no areas of corresp. noted; signature of ind. char. similar NV (photo)
Index Mark	blue + green dots, nose right	
Verified by/Date	COG 3/8/2012	
Area of Verification	(LIMP) GIMP	LIMP GIMP
GRC	Yes (see attached) (No) / n/a	Yes (see attached) (No) / n/a
CLEANED	(Y) N soaked 10 min in isopropanol bullet cleaner	(Y) N soaked in isopropanol (10 min.) bullet cleaner

REMARKS:

FDLE Lab & Sub #: 20120501890 S.1

Initials: AS

Date: 3-7-12

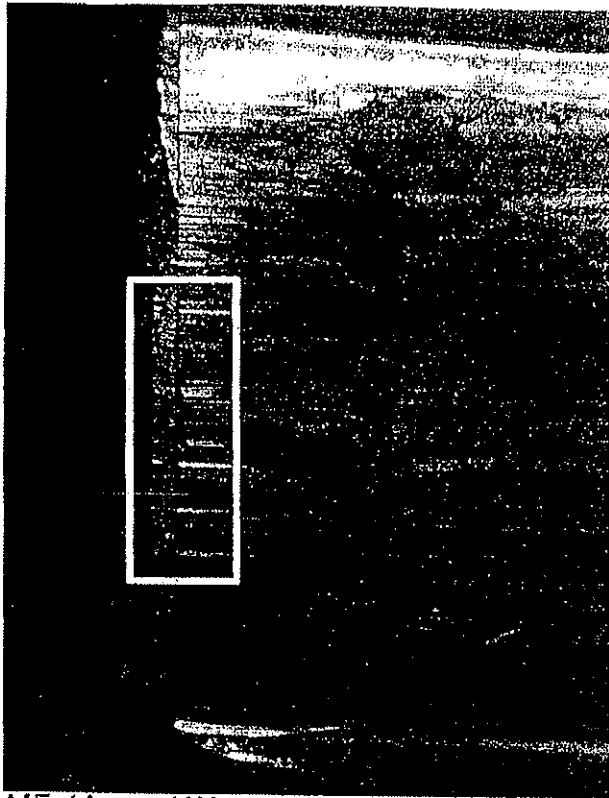
Exhibit #	ME-4C	ME-4D
Container	See ME-4A	ACS 3-7-12 →
# of Specimens	1 fired bullet jacket fragment	1 Pb ^{bullet} core _{MS 3-7-12}
Trace Material?	app. blood	app. blood
Condition	damaged - bent, fragment	base damaged, nose mushroomed, petals bent
Caliber	frag - unable to det.	core - appears to be 38 cal. class (approx.)
Rifling	unable to det. # - frag. Conventional (Rt) Lt	N/A Rt Lt
Type & Physical Characteristics	RN, SWC, WC, FMJ/TMJ, HP, SP, JHP, SJHP, Other ^{unable to determine, possibly JHP? visible 3-7-12}	RN, SWC, WC, FMJ/TMJ, HP, SP, JHP, SJHP, Other ^{N/A - core appears to be from HP}
Jacket Material	Br/Cu/St/Ni/Al	Br/Cu/St/Ni/Al no jacket present
Core Material	Pb/St no core present	Pb/St
Cannelures	Knurled Groove (None)	Knurled Groove (None)
Weight (grains)	1.8	94.2
Diameter (in)	N/A - fragment	0.344-0.355
L/G remaining	1 partial L / 1 partial G	no visible rifling = core
LIMP/GIMP (in)	N/A	N/A
Drawing/Diagram	qual. + quant. of marks very poor (See photo)	(See photo)
Analyst Markings	Case# 12-1890 EX# ME4C Initials ACS Where: inside jacket frag.	Case# 12-1890 EX# ME4D Initials ACS Where: on base
Conclusions	^{CMW and} (N/A) (INC) to ME4A and TS-1 tests - observable class ME4B (rifling - direction of twist) similar; however, damage and qual/quant of marks on ME4B/C; no areas of corresp. noted; signature of ind. similar _{MS 3-7-12} photo	(NV) no class or ind. char present for micro. comp. purposes → NFE photo
Index Mark		
Verified by/Date		
Area of Verification	LIMP GIMP	LIMP GIMP
GRC	Yes (see attached) / (No) / n/a	Yes (see attached) / No / (n/a)
CLEANED	(Y) N soaked 10 min. in isopropanol	(Y) N soaked 10 min. in isopropanol

REMARKS:

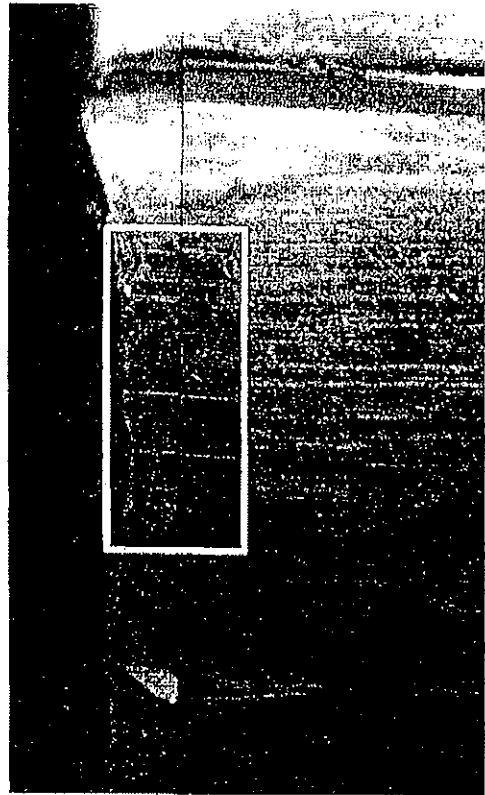
FDLE Lab & Sub #: 20120501890 S.I

Initials: ACS

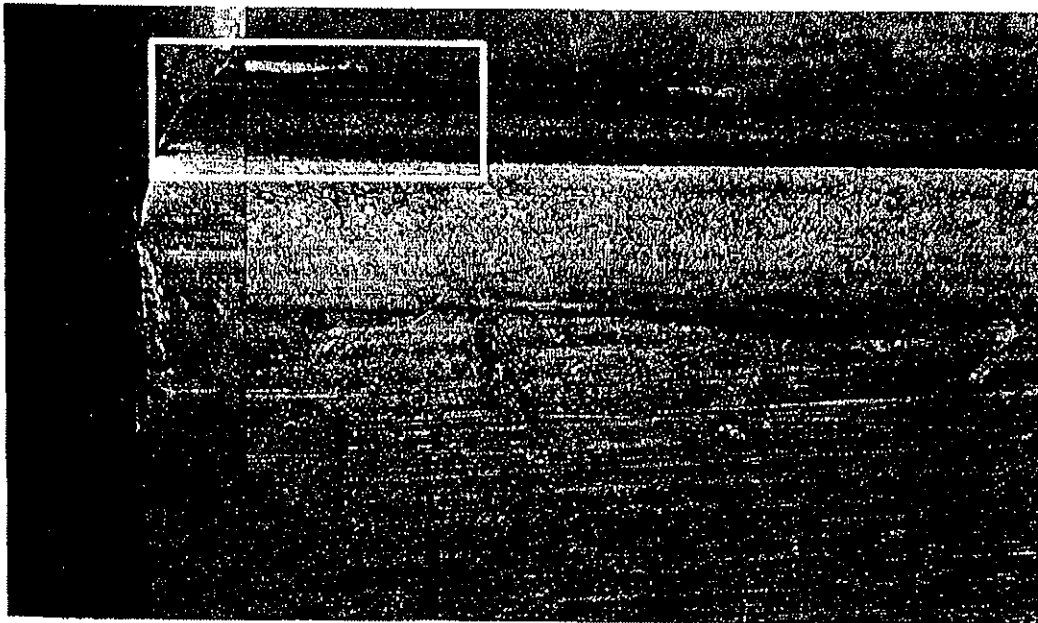
Date: 3-7-12



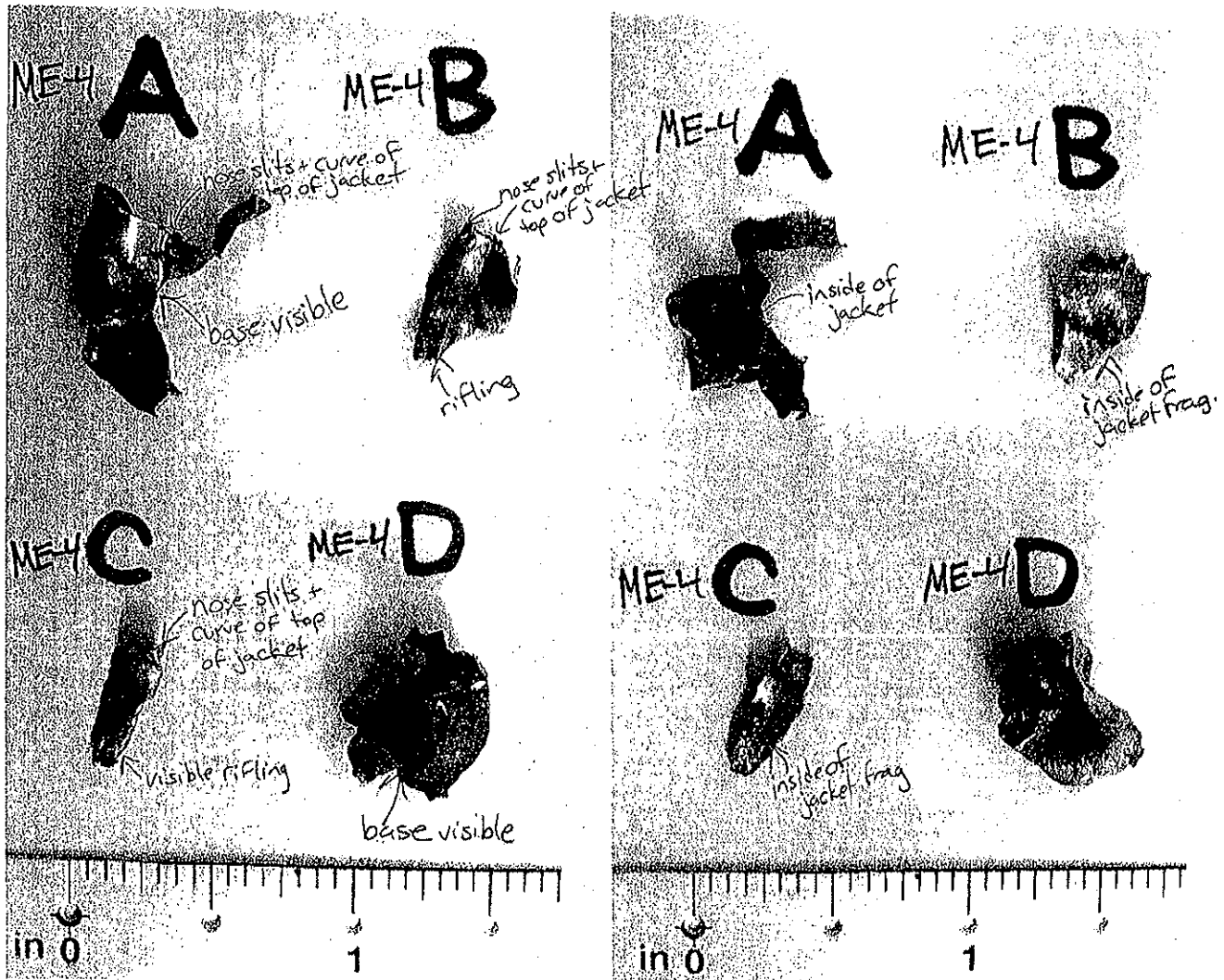
ME-4A 40X T4-TS1
LI - green dot @ base, nose right



ME-4A 30X T4-TS1
LI - blue dot @ base, nose right



ME-4A 40X T4-TS1
LI below blue dot @ base, nose right



Opposite sides of Exhibit ME-4 (A-D) as received

Multi Section Exams: Not Required Completed Transferred to Analyst

Exhibit #: TS-1 Packaging: 1 subbox ^{1 pistol} ^{1 splb} ^{1 dty and 1 mag} ^{5 6 dty's}

Caliber: 9mm Luger ^{1 holster → NFE}

Mfg/Brand: Kel-Tec Model: PF-9

SN/Loc: RJY08/on frame above backstrap Country/Imp: USA (Cocoo, FL)

Trace: Y / N Type/Loc: _____

Overall Condition/Finish: good/black metal slide + bbl, black poly. frame w/ black rubber grip

TYPE / OPERATING SYSTEM	ACTION	BARREL / OAL
<input checked="" type="checkbox"/> Pistol Revolver Rifle	<input checked="" type="checkbox"/> Semiauto Revolver Bolt	Obstruction: <u>Y</u> / <input checked="" type="checkbox"/> <u>N</u>
Shotgun	Full Auto Lever Slide/Pump	Length (in): _____ OAL (in): _____
Derringer	Break Open / Hinged _____	Condition / Residues: <u>dirty</u>
Other: _____	Other: _____	_____
Manual Blowback <input checked="" type="checkbox"/> Recoil Gas		
MAGAZINE / CAPACITY	CYLINDER <u>N/A</u>	TRIGGER / PULL
Ex# <u>TS-1</u> Qty: <u>1</u>	Cap: _____ Rotation: <u>CW</u> <u>CCW</u>	SA DA DAO Other: <u>hybrid</u>
Cap: <u>7</u> <input checked="" type="checkbox"/> Det Box Int Box	Flares: _____	SA _____ lbs
Tubular Drum Other: <u>7 on mag</u>		DA <u>4 1/2</u> <u>4 3/4</u> lbs

Manual: Thumb Decock Grip Lever Trigger	Internal: Rebound Slide Hammer Block Transfer Bar
Cross-Bolt Half Cock Sliding Button Tang	Magazine FP Block Drop Rebounding Hammer
Wing Key Other: _____	Hammer Intercept Notch Other: _____

SAFETY TYPES: Function: Y / N/A no safeties observed Hammer Push Off: Y / N / NA

TEST FIRING	FIRED CC / B CHARACTERISTICS	NIBIN
Test Fired: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> Ammo: <input checked="" type="checkbox"/> <u>Lab</u> <input checked="" type="checkbox"/> <u>Evid</u>	BFM: <u>five pairs + shapes</u>	CC-T#: <u>T3</u>
#/Brand/Type: <input checked="" type="checkbox"/> <u>Rex/Bell</u> <input checked="" type="checkbox"/> <u>F&J</u> <input checked="" type="checkbox"/> <u>PMC/B&B</u> <input checked="" type="checkbox"/> <u>F&B</u> <input checked="" type="checkbox"/> <u>F&T</u>	FPI: <u>hemi</u> FPM: <u>circles</u>	Cor Review: <input checked="" type="checkbox"/> <u>no associations 2-8-12</u>
Function: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> Using: <u>TS-1 mag</u>	Ext/Ejt: <u>3</u> / <u>8</u> o'clock	<input type="checkbox"/> Not imaged per NIBIN SOP
TFs returned w/ FA: _____	GRC: <u>BR conventional</u>	Insufficient individual characteristics:
T to T: <input checked="" type="checkbox"/> <u>CC</u> <input checked="" type="checkbox"/> <u>B</u>	LW/GW (10 ³ in): <u>0.071</u> / <u>0.108</u> <u>0.074</u> / <u>0.112</u>	<input type="checkbox"/> BFM <input type="checkbox"/> FPI

Analyst / FT Markings / Location: 20120501890 TS-1 A/S (@ frame + on mag) (on holster)

Comments: # used 1 evidence dty (TS-1) to test fire TS-1 pistol: ETS-TS1 seller + Bellot/B&B/F&T

FDLE Lab & Sub # 20120501890 S1 Initials A/S Date 3-7-12/3-8-12 ^{Start/End}



Case Details

Case Number: 20110501890
Site Name: FL-ORLDLE4
Case Ref. Number: 201250001136
High Profile:
Event Type: Homicide
Supervisor:
Law Agency: FL-SANFORD PD

Occurrence: 2/26/2012
Creation: 3/8/2012 12:08:42 PM
Created By: Amy L. Siewert
Modification: 3/8/2012 12:08:42 PM
Modified By: Amy L. Siewert

Comments:

Cartridge Case Exhibit Details

Exhibit Number: T3-TS1
Caliber: 9 mm Luger
Make: Pmc/eldorado cartridge corp.
Firing Pin Shape: Circle
Event Type: Test Fire
Firearm Exhibit: TS1

Creation: 3/8/2012 12:09:37 PM
Created By: Amy L. Siewert
Modification: 3/8/2012 12:09:37 PM
Modified By: Amy L. Siewert
Last Acq. Date: 3/8/2012 12:15:56 PM
Last Acq. By: Amy L. Siewert

Comments:

Cartridge Case Information
Firearm Information



Related Exhibit

Case Number: 20110501890
Site Name: FL-ORLDLE4
Exhibit Number: T3-TS1

Firearm Details

Exhibit Number: TS1
Caliber: 9 mm
Make: Keltec, Cnc Industries, Inc.
Model: PF-9
Type: Pistol
Serial Number: RJY08
Country Of Origin: United States

Creation: 3/8/2012 12:09:19 PM
Created By: Amy L. Siewert
Modification: 3/8/2012 12:09:19 PM
Modified By: Amy L. Siewert
Importer Name:
Importer State:
Registration Date:
Crime:

Physical Characteristics

Barrel Length: 0.00
Ammo Capacity: 0
Finish:

Recovery

Date:
City:
State:

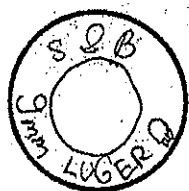

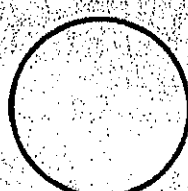
Possessor Name

Last:
First:
Middle:

Officer Name

Last:
First:

Comments:

Exhibit #	TS-1		
Container	see FA worksheet		
# of Cartridges	1	6	
Trace Material?	none observed	none observed	
Condition Received	IN MAG <u>LOOSE</u>	<u>IN MAG</u> LOOSE	IN MAG LOOSE
Condition of Cartridge	good	good	
Caliber	9mm Luger	9mm Luger	
Case Material	<u>Br</u> , Cu, Ni, St, Al	<u>Br</u> , Cu, Ni, St, Al	Br, Cu, Ni, St, Al
Primer Material	<u>Br</u> , Cu, Ni	<u>Br</u> , Cu, Ni	Br, Cu, Ni
Bullet Type	RN, SWC, WC, FMJ / TMJ, HP, SP, <u>JHP</u> SJHP, Other	RN, SWC, WC, FMJ / TMJ, HP, SP, <u>JHP</u> SJHP, Other	RN, SWC, WC, FMJ / TMJ, HP, SP, JHP, SJHP, Other
Bullet/Jacket Material	Pb, Br, <u>Cu</u> , Ni, St, Al	Pb, Br, <u>Cu</u> , Ni, St, Al	Pb, Br, Cu, Ni, St, Al
Analyst Markings	Case # <u>12-1890</u> EX# <u>TSI</u> Initials <u>ACS</u> Where <u>side of cc</u>	Case # <u>12-1890</u> EX# <u>TSI</u> Initials <u>ACS</u> Where <u>side of cc's</u>	Case # _____ EX# _____ Initials _____ Where _____
Headstamp			
Cleaned	Y <u>(N)</u>	Y <u>(N)</u>	Y / N

REMARKS: 6 ACS cc's ⇒ NFE, used 1 cc to test fire TSI pistol which is being returned in a labeled SME in box w/ pistol



ALS

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CASE TRACKING FORM



PRIMARY AGENCY INFORMATION

Sanford Police Department
Attn: C. SERINO
815 W. 13th St.
Sanford, FL 32771

Phone: (407) 688-5070

FDLE	Submitted By	C. Taylor
	Received By	Ricardo Rodriguez
	Received On	03/01/2012 11:10 EST
Case		20120501890
Submission		1
Packages with submission		8
		Sanford Police Department
ORI		FL0590500
Agency Case #		201250001136
Case References:		No

OFFENSE INFORMATION

County of Offense Seminole County
Offense Date February 26, 2012
Offenses Death Investigation

SUBJECTS
Zimmerman, George Michael
VICTIMS
Martin, Trayvon Benjamin - (JUV)

Cont.	FDLE Item No	Agency Item No.	Description of Evidence	Analysis Requested
	1	DMS-11	SPLB; cartridge case(s) - DMS-11; (1) 9mm cartridge case	FA-E
	2	DMS-12	SWE; gun shot residue kit - DMS-12; GSR kit from Zimmerman	GSR-G
	3	DMS-21	SWE; swab(s) - DMS-21; (4) swabs collected from the gun with in item # TS-1.	BIO-ID
	4	JR-2	SME; swab(s) - JR-2; (2) buccal swabs from Zimmerman	BIO-ID
	5	ME-2	SWE; fingernail scrapings/clippings - ME-2; fingernail scrapings from Martin	BIO-ID
	6	ME-3	SWE; blood standard - ME-3; FTA card from Martin	BIO-ID
	7	ME-4	SPLB; fired bullet(s) - ME-4; susepcted projectile and fragment	FA-E
	8	TS-1	SWBOX; handgun - TS-1; 9mm Keltek handgun and tests	FA-E

Comments



Florida Department of Law Enforcement

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Orlando, Florida 32801-1771
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CASE TRACKING FORM



Case 20120501890
Submission 1

Case Comments: See attached

Submission Comments: Please test fire the firearm and compare it with the cartridge case and projectile to determine if it came from the gun. Please analyze the swabs and fingernail scrapings collected from the firearm for DNA and compare to the Martin and Zimmerman's standards. Please analyze the GSR kit for possible GSR.

Submitted By:

C. Taylor

Received By:

Ricardo Rodriguez
Crime Laboratory Technician



Florida Department of
Law Enforcement

Gerald M. Bailey
Commissioner

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Adam Putnam, Commissioner of Agriculture

SUPPLEMENTAL LABORATORY REPORT
March 28, 2012

TO: Chief Bill Lee
Sanford Police Department
815 W. 13th St.
Sanford, FL 32771

FDLE NUMBER: 20120501890
SUBMISSION: 2
AGENCY NUMBER: 201250001136

ATTN: C. SERINO

SUBPOENAS PERTAINING TO THIS CASE
SHOULD REFER TO THE FDLE NUMBER.

VICTIM(S): Trayvon Benjamin Martin

SUBJECT(S): George Michael Zimmerman

OFFENSE(S): Death Investigation
Seminole County
2/26/2012

Amy L. Siewert
Crime Laboratory Analyst
Firearms Section

REFERENCE:

This report is in reference to the following evidence submitted to the Florida Department of Law Enforcement on March 20, 2012 by D. Smith. This report may contain conclusions, opinions, and/or interpretations made by the author.

EVIDENCE:

FDLE Item#	Agency Exhibit#	Description
12	DMS-16	One grey Layer 8 Performance long sleeve shirt
13	DMS-19	One orange and grey Free Country jacket

RESULTS:

12, 13 DMS-16, DMS-19 The shirt and jacket were visually, microscopically and chemically processed for the presence of gunshot residues. Chemical testing indicated one particle of lead on the upper back portion of the right sleeve of the jacket. No other residues were found on the jacket or the shirt.

REMARKS:

Tests generated are being returned in the DMS-19 container.

Questions regarding this report should be addressed to: amysiewert@fdle.state.fl.us.



DMS-16 ⇒ As received multiple cuttings taken by Biology CIA Gorgone,
*no holes in shirt prior to Biology examination
Layer 8 Performance shirt: size L 90% polyester 10% spandex (on tag)

DMS-19 ⇒ As received multiple cuttings taken by Biology CIA Gorgone,
*no holes in ^{jacket} shirt prior to biology examination

- Free Country Men's size XL jacket outershell: 93% polyester 7% spandex
- inner shell: 100% polyester, lining 100% polyester (inner shell / lining?) on tag
- based on what was on tags + appearance of jacket, it appears to be the inner shell
- Made a control test "T" on center of back collar above the "u" in "Free Country" to determine if direct application would be possible as well as blot ⇒ control was negative (fabric labeled: Water Resistant)
- Made a second control test "T" on the back collar, just left of the center to determine if the Bashinsky transfer method would work. Control for transfer was positive and the two sleeves (front + back of sleeves) and front of jacket were processed using the Bashinsky transfer method. The inside front portions of the jacket were processed using the direct application method. (control test was made on fabric due to the water-resistant label on the jacket)

Both DMS16 and DMS19 processed for presence of Pb residues
no holes were present on either exhibit.

*witnessed DMS16 and DMS19 opened by CIA Gorgone with no holes
in either garment as he received them.

Analysis Start Date: 3-27-12 Analysis End Date: 3-27-12

FDLE Lab & Sub # 20120501890 5.2 Initials ks Date: ^{Start / End} 3-27-12/3-27-12

Exhibit #: DMS-16 Container #: 12 Description: grey layer 8 Performance long sleeve shirt
Analyst Markings: Case # 12-5-1890 S.2 Item # DMS16 Initials ACS Where on tag inside lower left side of shirt

VISUAL/MICRO EXAM:

Size/Shape: no hole HOLE # ACS
Blackening: none observed
Bullet Wipe: n/a
Ripping/Tearing: n/a
Singeing/Burning: none observed
Gunpowder/Type: ACS none observed
Presumptive test: + -
Distance From Hole: n/a

Pattern Description: no visible pattern =>
no powder particles observed

Results: no Pb residues found

CHEMICAL EXAM:

Griess Test: n/a

Na Rho Test:

no Pb residues found (direct application to entire shirt: front, back + sleeves)

VISUAL/MICRO EXAM:

Size/Shape: _____ HOLE # _____
Blackening: _____
Bullet Wipe: _____
Ripping/Tearing: _____
Singeing/Burning: _____
Gunpowder/Type: _____
Presumptive test: + -
Distance From Hole: _____

Pattern Description: _____

Results: _____

CHEMICAL EXAM:

Griess Test: _____

Na Rho Test:

CONTROLS : Na Rho ⊕ - blank
- Mod Griess Test - blank-ACS

FDLE Lab & Sub #: 20120501890 S.2

Initials: ACS

Date: 3-27-12

DMS-16 as received



Grey "Layer 8 Performance" long sleeve shirt
On tag: size L, 90% Polyester 10% Spandex

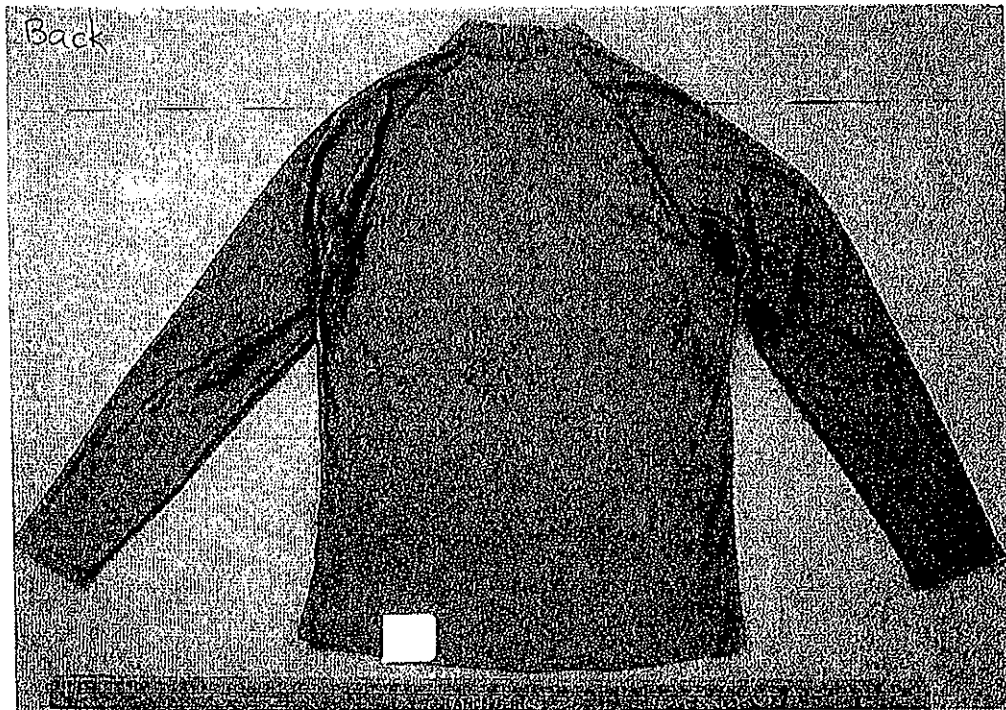


Exhibit #: DMS-19 Container #: 13 Description: Free Country orange/grey jacket

Analyst Markings: Case # 12-5-1890 S.3 Item # DMS19 Initials ACS Where on tag inside lower left side seam

VISUAL/MICRO EXAM:

Size/Shape: no hole HOLE # ACS
Blackening: none observed
Bullet Wipe: n/a
Ripping/Tearing: na
Singeing/Burning: none observed
Gunpowder/Type: none observed
Presumptive test: + n/a
Distance From Hole: n/a

CHEMICAL EXAM:

Griess Test: n/a

Na Rho Test:

1 piece of particulate Pb (upper half of back of (R) sleeve)

Pattern Description: no visible pattern - no powder particles observed

Results: Visual, microscopic + chemical testing revealed 1 piece of particulate Pb on the upper half of the back of the right sleeve

VISUAL/MICRO EXAM:

Size/Shape: _____ HOLE # _____
Blackening: _____
Bullet Wipe: _____
Ripping/Tearing: _____
Singeing/Burning: _____
Gunpowder/Type: _____
Presumptive test: + _____
Distance From Hole: _____

Pattern Description:

Results:

CHEMICAL EXAM:

Griess Test: _____

Na Rho Test:

Na Rho ⊕ - blank
Med Griess Test - blank / ACS

FDLE Lab & Sub #: 20120501890 S.2

Initials: ACS

Date: 3-27-12

DMS-19 as received

Front

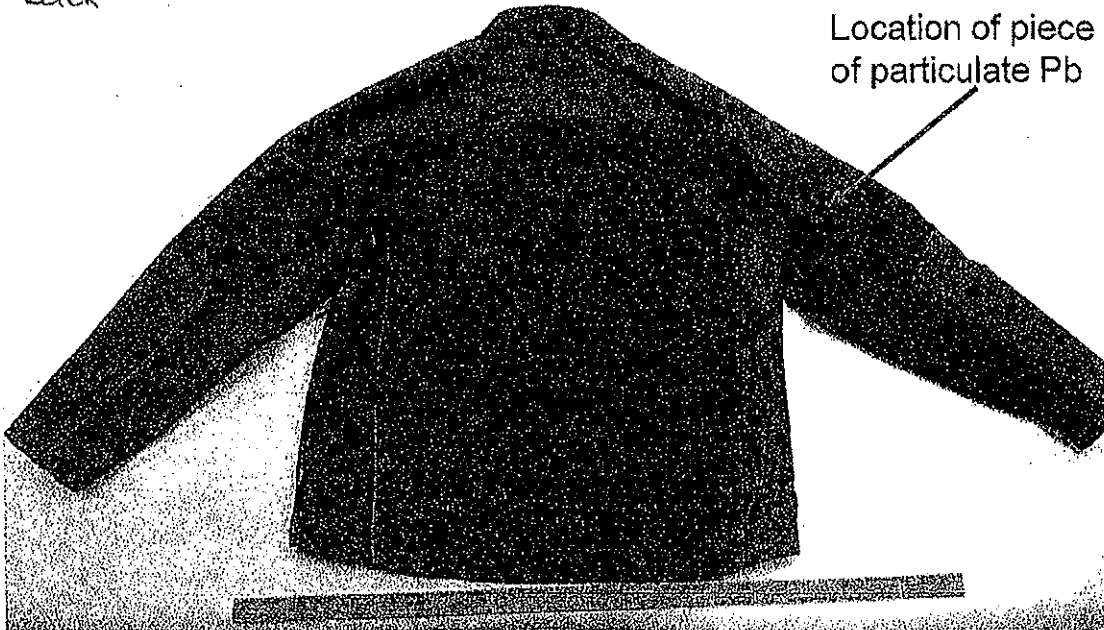


app. blood near
marked cuttings

Orange and grey "Free Country" jacket

On tag: Men's Size XL, Outer shell: 93% Polyester 7% Spandex
Inner shell: 100% polyester (Water Resistant) Lining: 100% polyester

Back



Location of piece
of particulate Pb



Florida Department of
Law Enforcement

Gerald M. Bailey
Commissioner

Orlando Regional Operations Center
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Orlando, Florida 32801-1771
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Rick Scott, Governor
Pam Bondi, Attorney General
Jeff Atwater, Chief Financial Officer
Adam Putnam, Commissioner of Agriculture

LABORATORY REPORT
March 22, 2012

TO: Chief Bill Lee
Sanford Police Department
815 W. 13th St.
Sanford, FL 32771

FDLE NUMBER: 20120501890
SUBMISSION: 2
AGENCY NUMBER: 201250001136

ATTN: C. SERINO

SUBPOENAS PERTAINING TO THIS CASE
SHOULD REFER TO THE FDLE NUMBER.

VICTIM(S): Trayvon Benjamin Martin

SUBJECT(S): George Michael Zimmerman

OFFENSE(S): Death Investigation
Seminole County
2/26/2012

Amy L. Siewert
Crime Laboratory Analyst
Firearms Section

REFERENCE:

This report is in reference to the following evidence submitted to the Florida Department of Law Enforcement on March 20, 2012 by D. Smith. This report may contain conclusions, opinions, and/or interpretations made by the author.

EVIDENCE:

FDLE Item#	Agency Exhibit#	Description
15	ME-8	One light grey Nike sweatshirt
18	ME-12	One dark grey Fruit of the Loom hooded sweatshirt

RESULTS:

15, 18 ME-8, ME-12 The sweatshirts each display a hole located in the upper left chest area. The areas around these holes were microscopically examined and chemically processed for the presence of gunshot residues. Both holes display residues and physical effects consistent with a contact shot.



Exhibit #: ME-8 Container #: 15 Description: 1 sabbot 1 red plb 1 light grey Nike sweatshirt
Analyst Markings: Case # 12-5-1890 S:2 Item # ME8 Initials AW Where back side of tag inside neck

VISUAL/MICRO EXAM: HOLE # 2
Size/Shape: 2" x 1/4"
Blackening: light sooting directly surrounding hole, heavier sooting inside sweatshirt
Bullet Wipe: none observed
Ripping/Tearing: stallate tearing
Singeing/Burning: yes - fibers around hole
Gunpowder/Type: few unburned/partially burned greenish-yellow flattened ball particles
Presumptive test: 1 particle tested w/ DPA
Distance From Hole: 1" below hole on inside of sweatshirt

CHEMICAL EXAM:
Griess Test: no visible pattern; several orange pinpoints above and to the right of the hole
Na Rho Test: vaporous Pb immediately surrounding hole

VISUAL/MICRO EXAM: HOLE #
Size/Shape: _____
Blackening: _____
Bullet Wipe: _____
Ripping/Tearing: _____
Singeing/Burning: _____
Gunpowder/Type: _____
Presumptive test: +
Distance From Hole: _____

CHEMICAL EXAM:
Griess Test: _____
Na Rho Test: _____

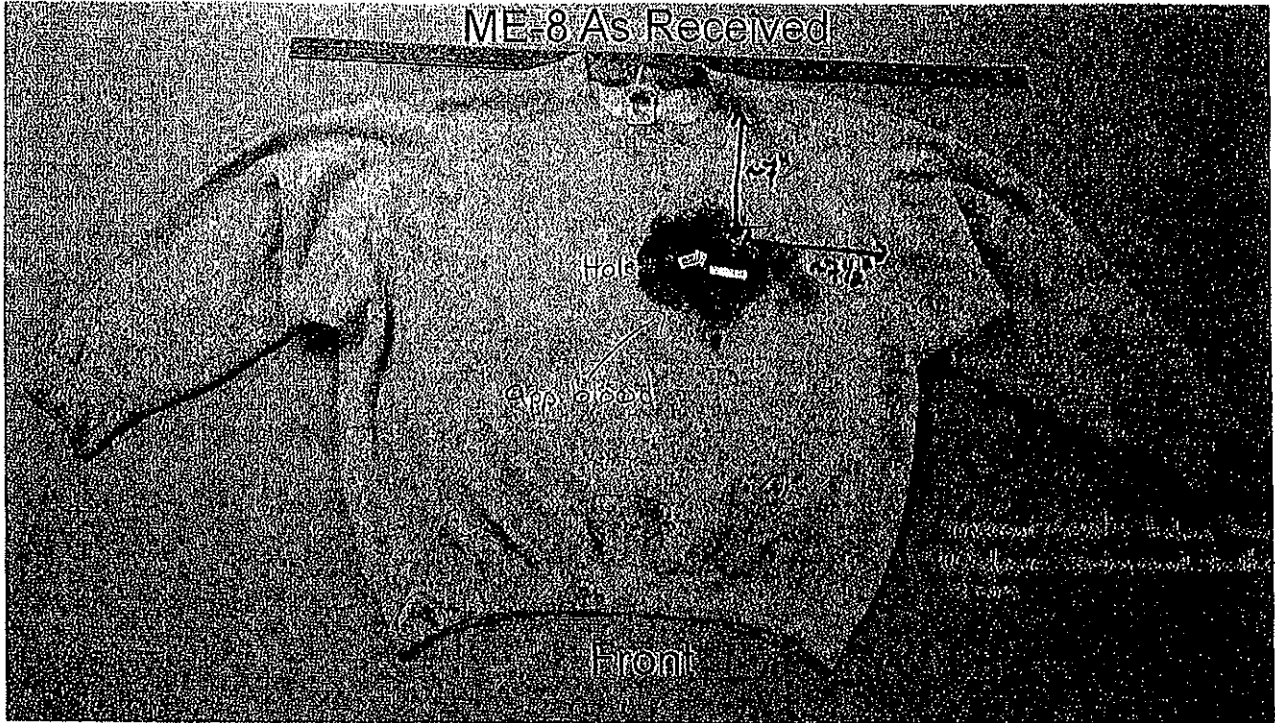
Pattern Description: no visible pattern; a few particles directly above and below hole on both inside + outside of sweatshirt
Results: Visually microscopic, Griess and Na Rho testing shows results consistent with a contact shot (tearing @ hole, sooting around hole, burning/singeing, no powder pattern, vaporous Pb directly surrounding hole)

Pattern Description: _____

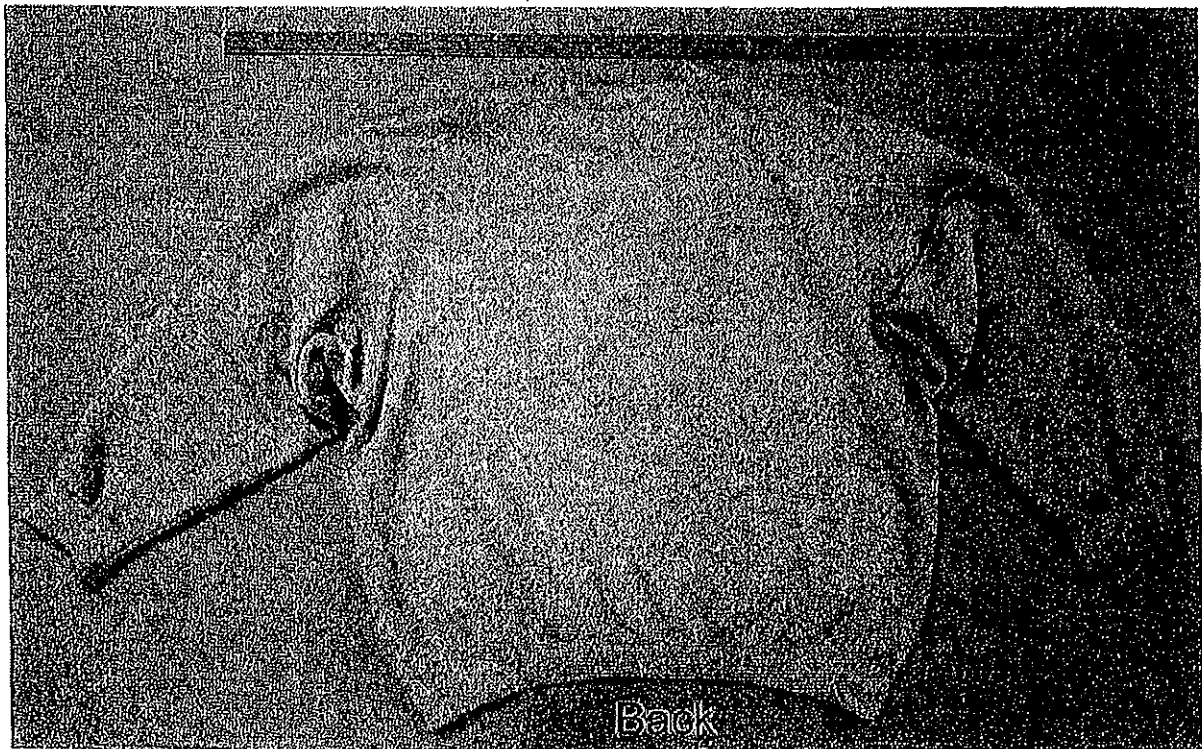
Results: _____

CONTROLS: Na Rho ⊕ - blank
: Mod Griess Test ⊕ - blank

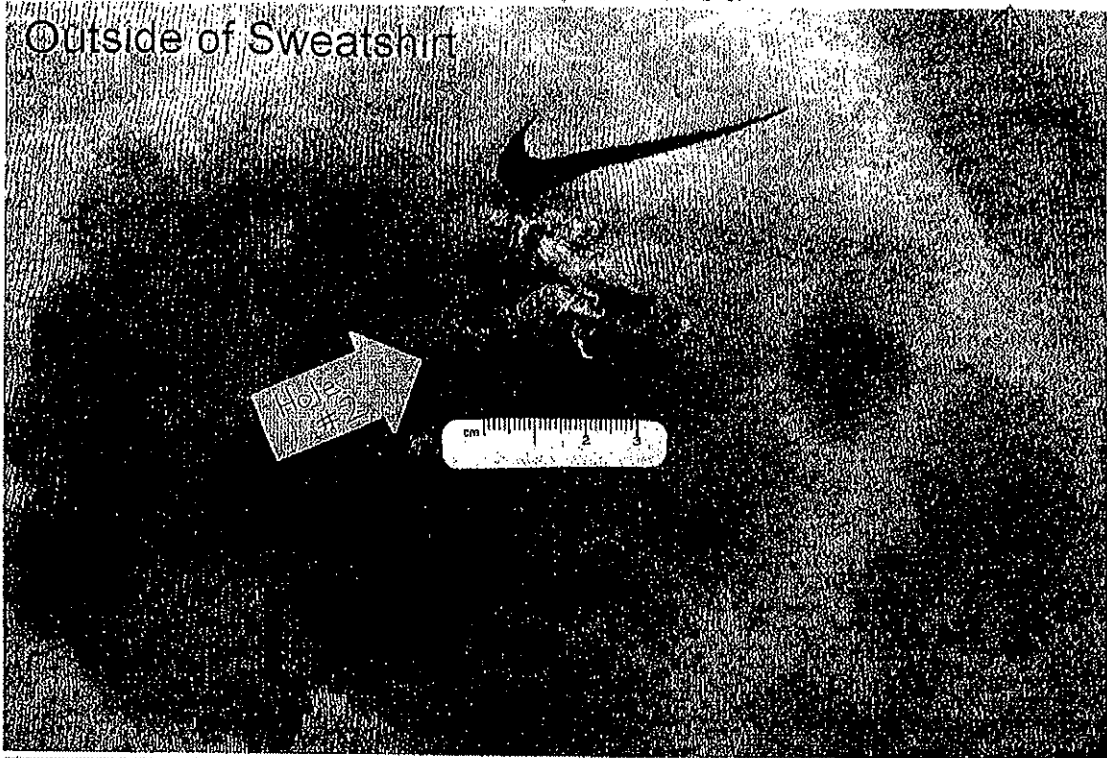
FDLE Lab & Sub #: 20120501890 S:2 Initials: AW Date: 3-21-12



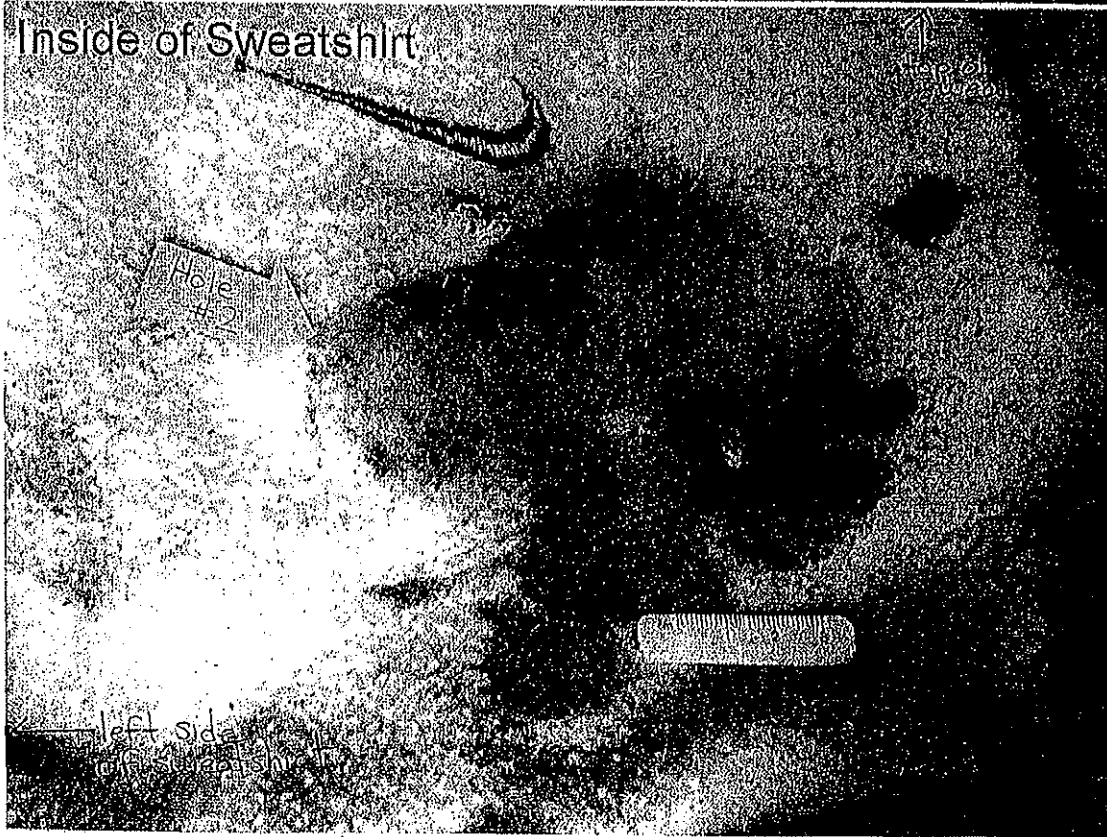
Nike Size L 70% cotton/30% polyester ⇒ on tag inside neck



ME-8 As Received



- light scorching surrounding hole
- Fibers around hole burned/singed
- stellate tearing



left side of sweatshirt

Exhibit #: ME-12 Container #: 18 Description: 1 Sph 7 red pb 7 1 dark grey Fruit of the Loom hooded sweatshirt
Analyst Markings: Case # 12-5-1890 S.2 Item # ME-12 Initials As Where tag inside bottom left of sweatshirt

VISUAL/MICRO EXAM:

Size/Shape: ~2" x 1" "L"-shaped HOLE# 1
Blackening: very light soot directly surrounding hole (both inside & outside of sweatshirt)
Bullet Wipe: none observed
Ripping/Tearing: "L" shaped tear
Singeing/Burning: yes - fibers around hole
Gunpowder/Type: few yellowish-green inside sweatshirt, possible on outside
Presumptive test: As
Distance From Hole: As

CHEMICAL EXAM:

Griess Test: no visible pattern

Na Rho Test:

Vaporous Pb immediately surrounding hole - both direct application + Roshinsky transfer done

VISUAL/MICRO EXAM:

Size/Shape: _____ HOLE# _____
Blackening: _____
Bullet Wipe: _____
Ripping/Tearing: _____
Singeing/Burning: _____
Gunpowder/Type: _____
Presumptive test: + _____
Distance From Hole: _____

CHEMICAL EXAM:

Griess Test: _____

Na Rho Test:

Pattern Description: no visible pattern, a few particles ~2" to the upper right of hole (inside sweatshirt), possible ~1/2" to upper right (on outside of sweat shirt)

Results: Visual, microscopic, Griess and Na Rho testing shows results consistent with a contact shot (tearing @ hole, sooting around hole, no powder pattern, vaporous Pb directly surrounding hole (also burning/singeing))

Pattern Description:

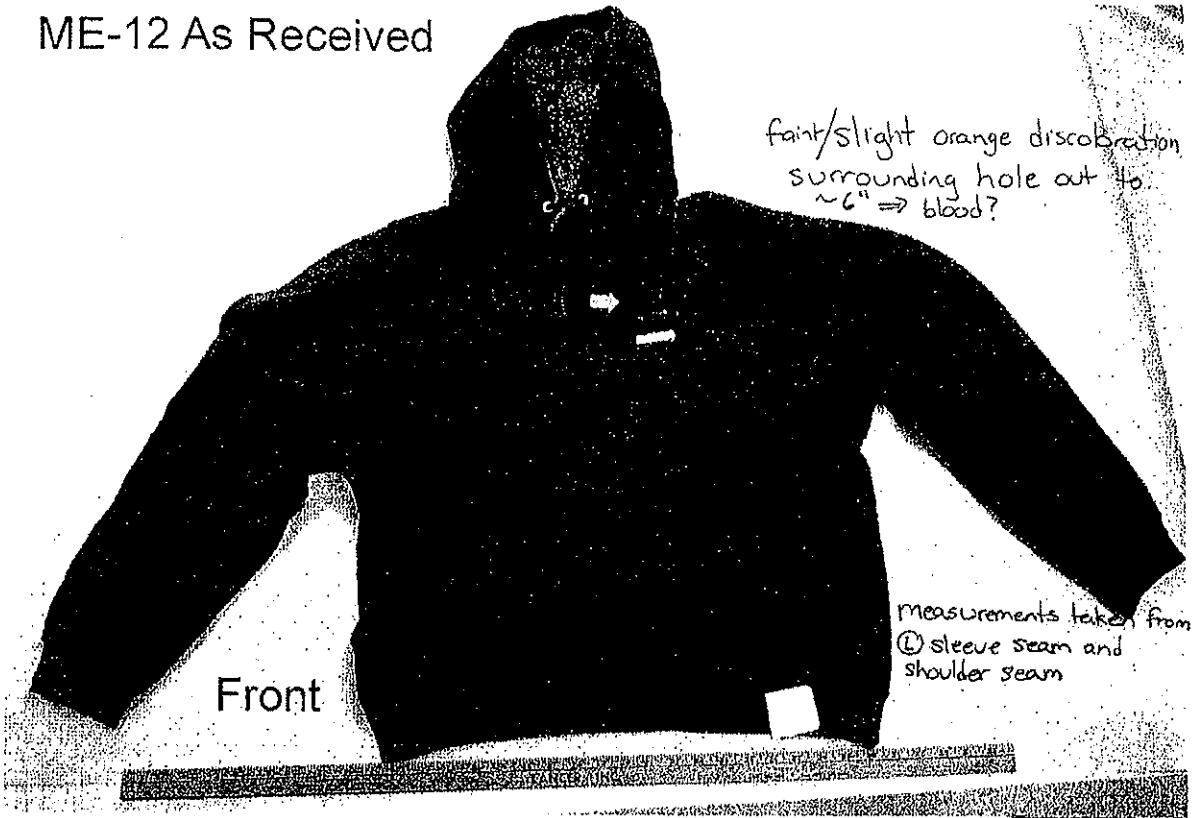
Results:

CONTROLS : Na Rho -
: Mod Griess Test - (blank)

FDLE Lab & Sub #: 20120501890 S.2

Initials: As Date: 3-21-12

ME-12 As Received

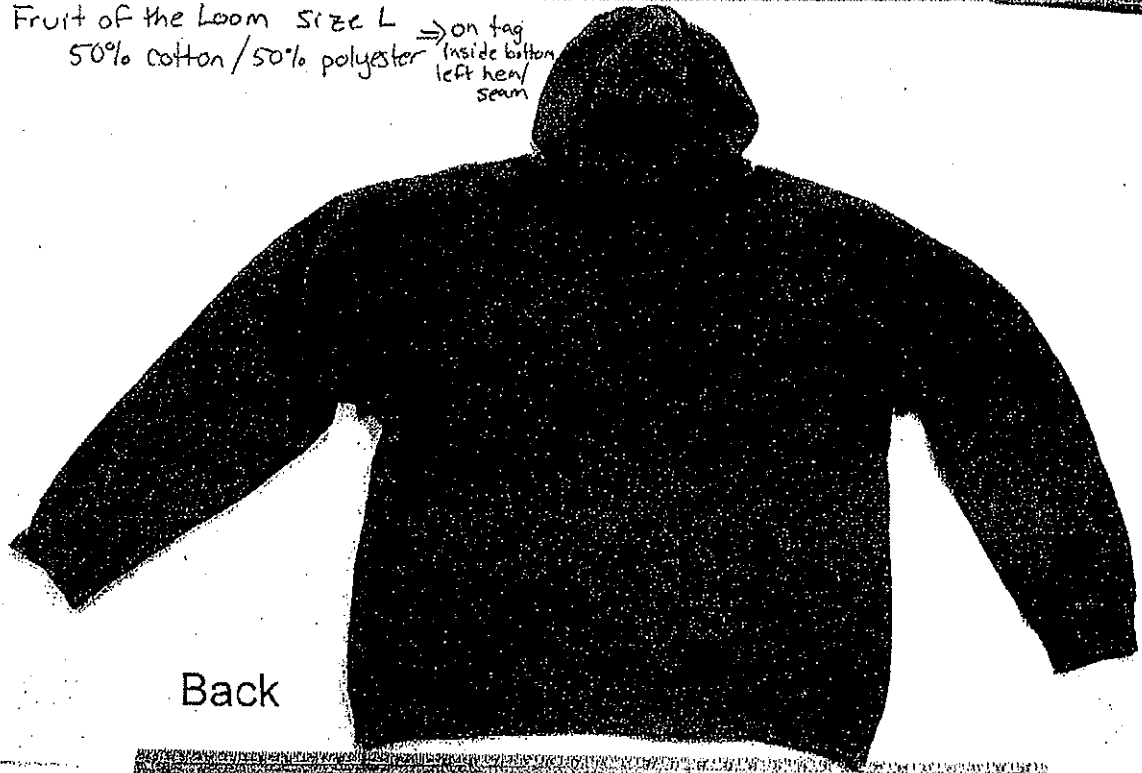


faint/slight orange discoloration
surrounding hole out to
~6" => blood?

Front

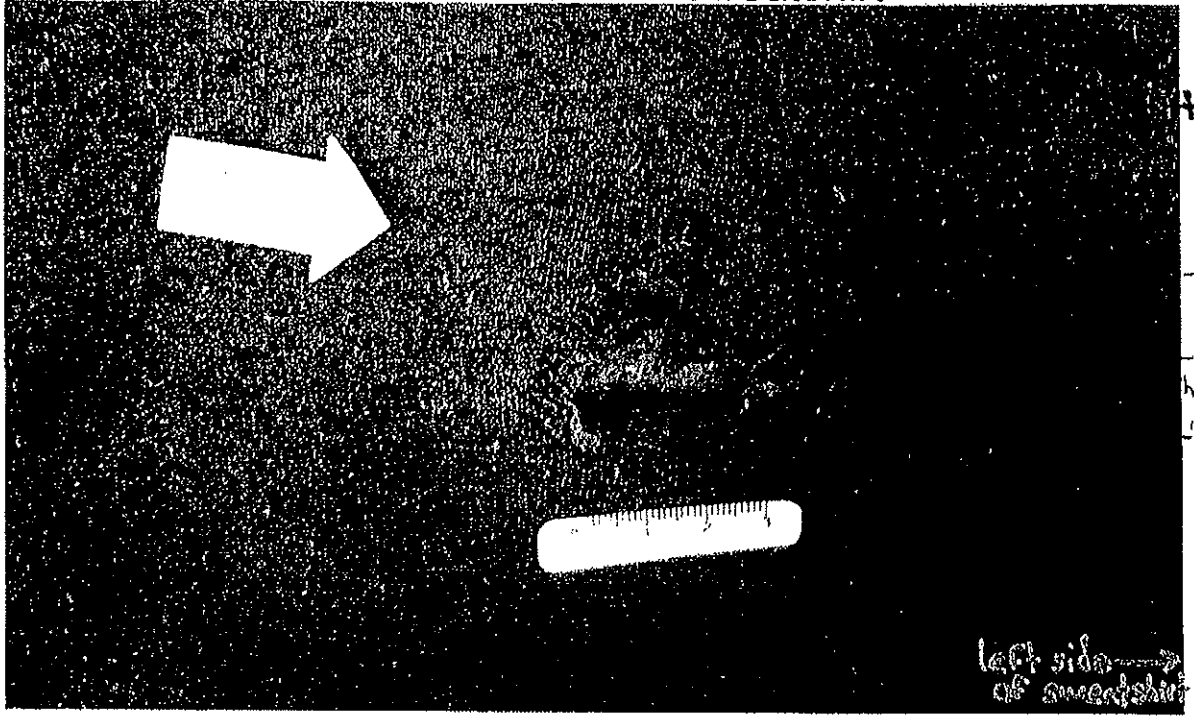
measurements taken from
① sleeve seam and
shoulder seam

Fruit of the Loom size L => on tag
50% cotton / 50% polyester
inside bottom
left hem
seam



Back

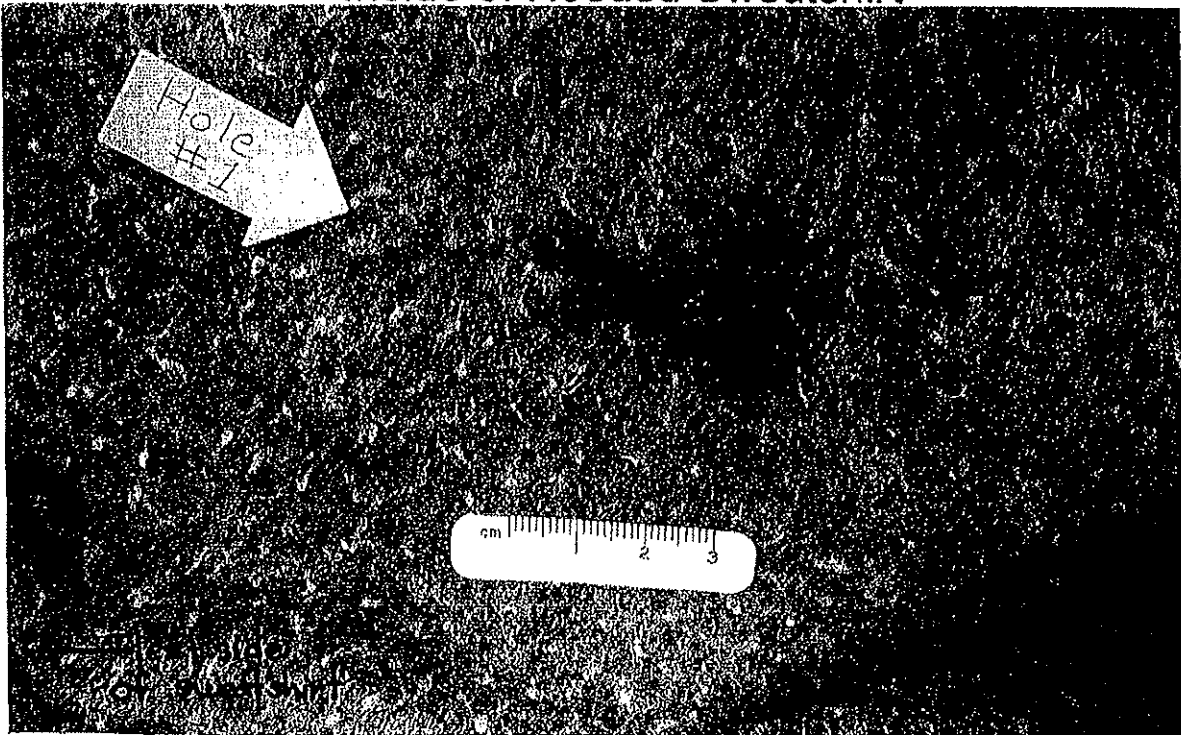
ME-12 As Received
Outside of Hooded Sweatshirt



-light sooting
surrounding hole
-fibers around
hole burned/singed
-"L" shaped tear

left side →
of sweatshirt

Inside of Hooded Sweatshirt



ME-8 ⇒ cuttings labeled A ⇒ E on the front lower half of the sweatshirt are samples taken by Biologist CLA Gorgone ⇒ NFE

ME-12 ⇒ cuttings labeled A ⇒ C (located on front-center near lower hem, @ sleeve @ elbow and @ mid-back near side seam) are samples taken by CLA Gorgone ⇒ NFE

As received, Ex ME-12 was damp/wet; distance examination/tests were performed w/ hooded sweatshirt in damp condition

Ex ME-12 hole was designated as Hole 1 due to information provided by SAS David Lee indicating that it was the outermost garment; therefore, the hole in Ex ME-8 was designated as Hole 2.

The location of Hole 1 in the upper left chest area corresponds with the location of Hole 2, also in the upper left chest area

Analysis Start Date: 3-22-12 Analysis End Date: 3-22-12

FDLE Lab & Sub # 20120501890 S.2 Initials ACS Date: 3-22-12

F/A & AMMO USED: Ex. TS-1 (Kel Tec PF9, 9mm Luger cal. Semi-auto pistol + submitted magazine)
 Ex. TS-1 ammunition used ⇒ Sellier & Bellot 9mm Luger cal. JHP

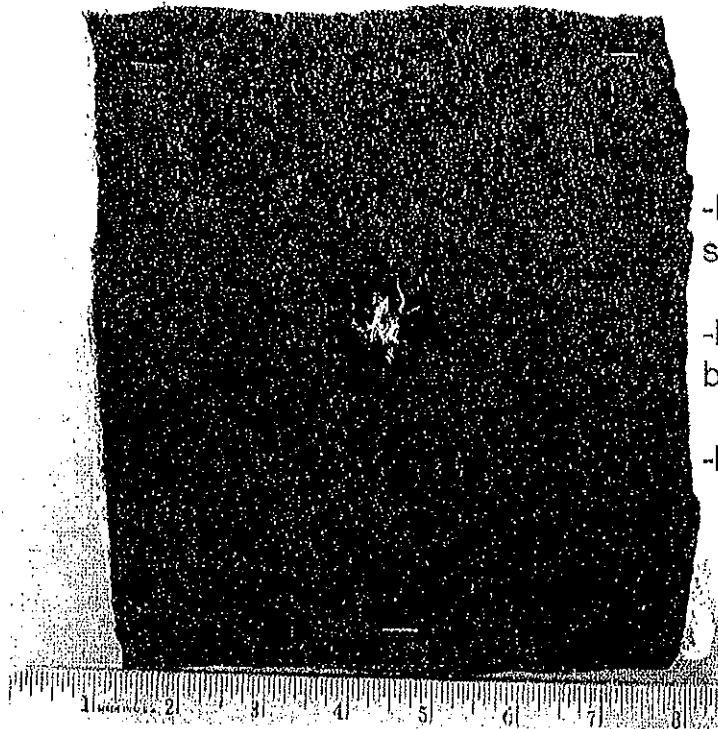
Comments: Cut squares of fabric from Ex. ME-12 and ME-8 (back lower right area on both) to use for testing; layered ME-12 square over ME-8 square to replicate the layering of the garments (as indicated per David Lee) in the incident

DISTANCE	Contact (top layer from ME-8)	Contact (bottom layer from ME-8)
Size & Hole Shape	~ 3/4" x 1" circle	~ 1 1/4" x 1"
Visual/Microscopic		
Blackening:	light sooting immediately surrounding hole	light sooting surrounding hole out to ~ 1/4"
Bullet Wipe:	Obscured by sooting	Obscured by sooting
Ripping/Tearing:	yes - diagonal through circle (see photo)	stellate tearing
Singeing/Burning:	yes - fibers around hole	yes - fibers around hole
Gunpowder/Type:	several unburned/partially burned yellow/greenish flattened ball	a few partially burned grey/black flattened ball
Pattern Description	No visible pattern, multiple particles directly above hole	No visible pattern, a few particles above hole
Griess Test: Control: ⊕ -	No visible pattern, heavy concentration of orange pinpoint 5 directly above + below hole	No visible pattern, several orange pinpoints w/in hole ⇒ on fibers?
Blank	no rxn., good blank	→
Sodium Rhodizonate Test: Control: ⊕ -	vaporous Pb	vaporous Pb

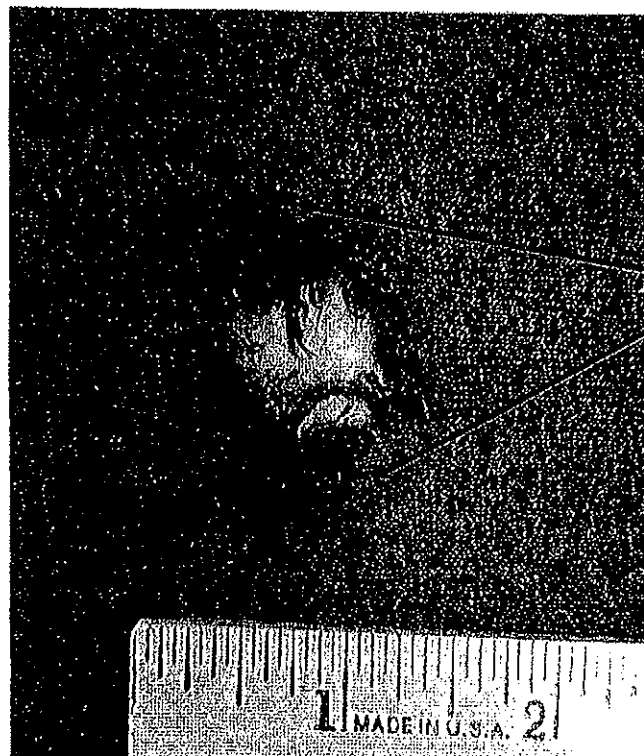
FDLE & Sub #: 20120501890 S-2

Initials: ACJ Date 3-21-12

ME-12 Contact Distance Test
(top layer)

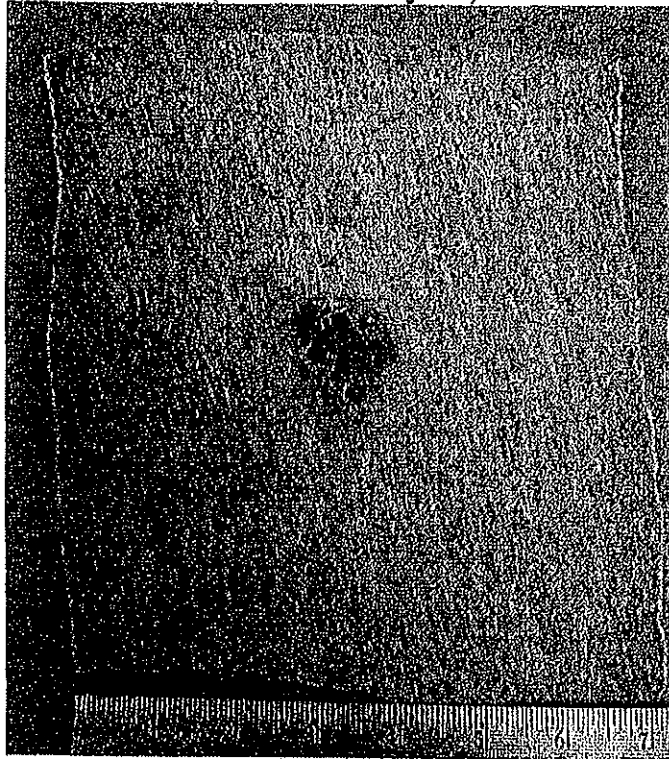


- Light sooting surrounding hole
- Fibers around hole burned/singed
- Diagonal tear



Diagonal tear

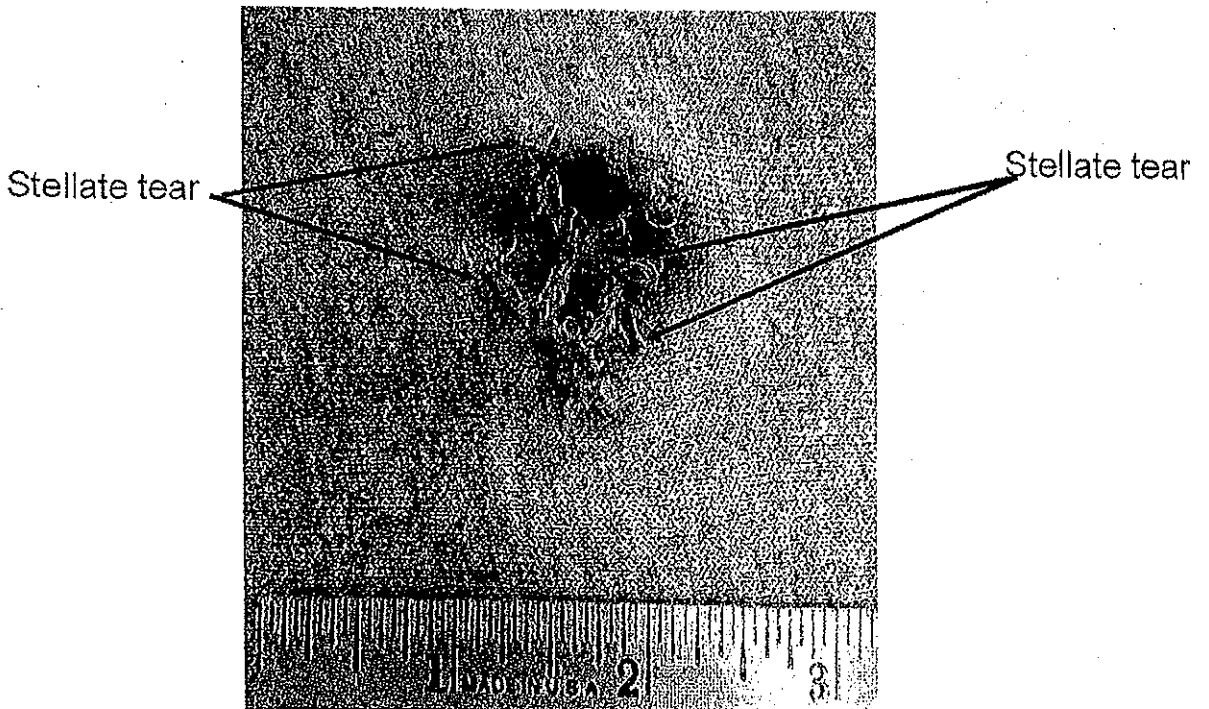
ME-8 Contact Distance Test
(bottom layer)



Light sooting
surrounding hole

Fibers around hole
burned/singed

Stellate tearing



Stellate tear

Stellate tear



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CASE TRACKING FORM



PRIMARY AGENCY INFORMATION

Sanford Police Department
Attn: C. SERINO
815 W. 13th St.
Sanford, FL 32771

Phone: (407) 688-5070

FDLE Submitted By D. Smith
Received By Jackie Blue
Received On 03/20/2012 9:42 EST
Case 20120501890
Submission 2
Packages with submission 14
Sanford Police Department
ORI FL0590500
Agency Case # 201250001136
Case References: No

OFFENSE INFORMATION

County of Offense Seminole County
Offense Date February 26, 2012
Offenses Death Investigation

SUBJECTS

Zimmerman, George Michael

VICTIMS

Martin, Trayvon Benjamin - (JUV)

Table with 5 columns: Cont., FDLE Item No., Agency Item No., Description of Evidence, Analysis Requested. Contains 8 rows of evidence items.



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CASE TRACKING FORM



Case 20120501890
Submission 2

Cont.	FDLE Item No	Agency Item No.	Description of Evidence	Analysis Requested
	15	ME-8	SBPB; clothing - ME-8; shirt from Martin	BIO-ID, FA-E, TR-F
	15.1	ME-8	SME; debris - Debris recovered from Ex. ME-8 - sweatshirt and Ex. ME-12 - hooded sweatshirt.	
	16	ME-9	SBPB; clothing - ME-9; pants from Martin	TR-F
	17	ME-10	SBPB; clothing - ME-10; underwear from Martin	TR-F
	18	ME-12	SBPB; clothing - ME-12; hoodie jacket from Martin	BIO-ID, FA-E, TR-F
	19	DMS-7	SPLB; cell phone(s) - DMS-7; cell phone belonging to Martin	LP-C

Comments

Case Comments: See attached

Submission Comments: Please examine all items for trace and examine the hoodie sweatshirt and Martin's shirt for DNA and ballistics. David Lee requested all of these items to be submitted.

Submitted By:

D. Smith

Received By:

Jackie Blue
Crime Laboratory Technician

ACS