

#1709 2151

# ALAMEDA COUNTY SHERIFF'S OFFICE CRIME LABORATORY EXAMINATION REPORT

2901 Peralta Oaks Court, 3<sup>rd</sup> Floor, Oakland, CA 94605  
Phone (510) 382-3300, FAX (510) 382-3344

SUBMITTING AGENCY Emeryville Police Department		LABORATORY NUMBER L17-2357-1
EXAMINATION REQUESTED BY Detective Mayorga	VICTIM OR SUSPECT (S): HODGE, Demilo	CASE NUMBER 1709-2151
LABORATORY CLASSIFICATION Firearms	DATE OF REPORT November 14, 2017	OFFENSE 664 / 187 PC

## Examination Results and Conclusions

The following tables summarize which cartridge cases or bullets were fired from which test-fired firearm (firearms were previously test-fired by the Contra Costa County Sheriff's Office Crime Lab, laboratory number 17-004614).

**Item 67-021-01-A Accuracy International AT308 .308 caliber rifle bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
44	Cartridge case "[REDACTED]"	Breechface marks

**Item 67-022-01-A Remington 870 Police 12 GA shotgun bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
22	Shotshell, 12 GA "12 GA MADE IN U.S.A."	Breechface marks
23	Shotshell, 12 GA "12 GA MADE IN U.S.A."	Breechface marks

**Item 67-023-01-A Colt M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
27-1	Cartridge case [REDACTED]	Firing pin impression
30	Cartridge case [REDACTED]	Firing pin impression

**Item 68-003-01-A Nighthawk Custom 1911 GRP .45 Auto caliber pistol bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
1	Cartridge case [REDACTED]	Breechface marks
5	Cartridge case [REDACTED]	Breechface marks
14	Cartridge case [REDACTED]	Breechface marks
15	Cartridge case [REDACTED]	Breechface marks

EXAMINER'S NAME Cary Wong	EXAMINER'S SIGNATURE 	TITLE Criminalist III
TECHNICAL REVIEWER'S SIGNATURE 	DATE 11/16/17	FILE NAME 00199062.DOC
ADMINISTRATIVE REVIEWER'S SIGNATURE 	DATE 11-16-17	Page 1 of 12

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**Item 68-005-01-A Wilson Combat CQB .45 Auto caliber pistol bearing the serial number [REDACTED]**

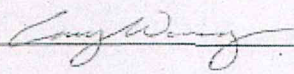
Item Number	Description	Areas Compared
24	Cartridge case [REDACTED]	Breechface marks
46	Cartridge case [REDACTED]	Breechface marks
47	Cartridge case [REDACTED]	Breechface marks
48	Cartridge case [REDACTED]	Breechface marks
49	Cartridge case [REDACTED]	Breechface marks
66	Cartridge case [REDACTED]	Breechface marks
78*	Copper-jacketed bullet	Land impression toolmarks*

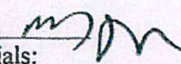
**Item 68-007-01-A Kimber 1911 Custom TLE/RL11 .45 Auto caliber pistol bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
56	Cartridge case [REDACTED]	Breechface marks
57	Cartridge case [REDACTED]	Breechface marks
58	Cartridge case [REDACTED]	Breechface marks
59	Cartridge case [REDACTED]	Breechface marks
60	Cartridge case [REDACTED]	Breechface marks
61	Cartridge case [REDACTED]	Breechface marks
62	Cartridge case [REDACTED]	Breechface marks
80*	Copper-jacketed hollow-point bullet	Land impression toolmarks*
81*	Copper-jacketed hollow-point bullet	Land impression toolmarks*

**Item 68-009-01-A Colt M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]**

Item Number	Description	Areas Compared
25	Cartridge case [REDACTED]	Ejector mark, firing pin impression
26	Cartridge case [REDACTED]	Chamber marks
64	Cartridge case [REDACTED]	Ejector mark
65	Cartridge case [REDACTED]	Firing pin impression
71*	Copper jacket fragment	Land impression toolmarks*
79*	Copper jacket fragment	Land impression toolmarks*

  
Cary Wong  
Criminalist III

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Item 68-012-01-A *Colt M4 Carbine .223 Rem. caliber rifle* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
50	Cartridge case [REDACTED]	Breechface marks, firing pin impression
52	Cartridge case [REDACTED]	Breechface marks, firing pin impression
53	Cartridge case [REDACTED]	Breechface marks, firing pin impression
73*	Copper jacket fragment	Land impression toolmarks*

Item 69-013-01-A *Glock 17 9mm Luger caliber pistol* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
31	Cartridge case [REDACTED]	Firing pin aperture shear marks
32	Cartridge case [REDACTED]	Firing pin aperture shear marks
33	Cartridge case [REDACTED]	Firing pin aperture shear marks
36	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-1	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-2	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-3	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-4	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-5	Cartridge case [REDACTED]	Firing pin aperture shear marks
39-6	Cartridge case [REDACTED]	Firing pin aperture shear marks
40	Cartridge case [REDACTED]	Firing pin aperture shear marks
41	Cartridge case [REDACTED]	Firing pin aperture shear marks
42	Cartridge case [REDACTED]	Firing pin aperture shear marks
43	Cartridge case [REDACTED]	Firing pin aperture shear marks
75*	Copper-jacketed hollow-point bullet	Land impression toolmarks*

Item 69-014-01-A *Glock 17Gen4 9mm Luger caliber pistol* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
3	Cartridge case [REDACTED]	Firing pin aperture shear marks
8	Cartridge case [REDACTED]	Firing pin aperture shear marks
9	Cartridge case [REDACTED]	Firing pin aperture shear marks
11	Cartridge case [REDACTED]	Firing pin aperture shear marks
16	Cartridge case [REDACTED]	Firing pin aperture shear marks
18	Cartridge case [REDACTED]	Firing pin aperture shear marks
45	Cartridge case [REDACTED]	Firing pin aperture shear marks

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Item 70-016-01-A *Colt M4 Carbine .223 Rem. caliber rifle* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
54	Cartridge case [REDACTED]	Chamber marks
55	Cartridge case [REDACTED]	Chamber marks

Item 70-018-01-A *Colt M16A2 Commando .223 Rem. caliber rifle* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
2	Cartridge case [REDACTED]	Chamber marks
4	Cartridge case [REDACTED]	Chamber marks
6	Cartridge case [REDACTED]	Chamber marks
7	Cartridge case [REDACTED]	Chamber marks
10	Cartridge case [REDACTED]	Chamber marks
12	Cartridge case [REDACTED]	Chamber marks
13	Cartridge case [REDACTED]	Chamber marks
17	Cartridge case [REDACTED]	Chamber marks
19	Cartridge case [REDACTED]	Chamber marks
20	Cartridge case [REDACTED]	Chamber marks
21	Cartridge case [REDACTED]	Chamber marks
51-1	Cartridge case [REDACTED]	Chamber marks
51-2	Cartridge case [REDACTED]	Chamber marks
51-3	Cartridge case [REDACTED]	Chamber marks
72*	Copper-jacketed bullet	Land impression toolmarks*
77*	Copper-jacketed bullet	Land impression toolmarks*

Item 70-019-01-A *Colt M4 Commando .223 Rem. caliber rifle* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
34	Cartridge case [REDACTED]	Ejector mark
35	Cartridge case [REDACTED]	Ejector mark
37	Cartridge case [REDACTED]	Ejector mark
38	Cartridge case [REDACTED]	Ejector mark

Item 82-001-01-F *Springfield Armory XD-40 .40 S&W caliber pistol* bearing the serial number [REDACTED]

Item Number	Description	Areas Compared
63	Cartridge case "WIN 40 S&W"	Firing pin aperture shear marks, firing pin drag mark

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The Item 74 copper jacket fragment may have been fired from any of the submitted .223 Rem. caliber rifles. The results of the comparisons were inconclusive, due to insufficiency of the toolmarks on the fragment. The fragment was not fired from any of the other caliber firearms due to a difference in class characteristics (rifling widths).

\*The bullets and fragments may have been fired from the firearm reported above or from different firearms that were rifled using the same tool in the same approximate state of wear. Without evaluating the firearm barrel that may have fired the bullets and fragments, it could not be determined whether the toolmarks in the land impressions were individual characteristics or potential subclass characteristics. If the firearm were submitted for examination, the potential for subclass influence may be evaluated.

Request for Examination

Intercompare the submitted fired evidence to determine which firearm fired which bullets and cartridge cases.

Chain of Custody

sealed envelopes (Items 1 ), identified by the above case information, were received into the Laboratory on October 5, 2017 from Volunteer Tso by Sheriff's Technician Overcash. Three sealed envelopes (Items ), identified by the above case information, were received into the Laboratory on October 10, 2017 from Property Clerk Brush by Sheriff's Technician Overcash. Twelve sealed envelopes (Items ), identified by the above case information, were received into the Laboratory on October 20, 2017 from Detective Mayorga by Sheriff's Technician Bates. One sealed box (Item ), identified by the above case information, was received into the Laboratory on October 25, 2017 from Detective Mayorga by Sheriff's Technician Bates.

Evidence Description

Items through and One .45 Auto caliber cartridge case. Item 15 had the headstamp " " and Item had the headstamp . The remaining cartridge cases had the headstamp .

Items 2, 4, 6, 7, 10, 12, 13, 17, 19 through 21, 25, 26, 27-1, 30, 34, 35, 37, 38, 50, 51-1 through 51-3, 52 through 55, 64, and 65: One .223 Rem. caliber cartridge case. Items 2, 4, 6, 7, 10, 12, 13, 17, 19 through 21, and 51-1 through 51-3 had the headstamp " ", Items 25, 26, 27-1, 30, 34, 35, 37, 38, 54, 55, 64, and 65 had the headstamp , and Items 50, 52, and 53 had the headstamp .

Items 3, 8, 9, 11, 16, 18, 31 through 33, 36, 39-1 through 39-6, 40 through 43, and 45: One 9mm Luger caliber cartridge case. Items 3, 8, 9, 11, 16, 18, and 45 had the headstamp " " and Items 31 through 33, 36, 39-1 through 39-6, and 40 through 43 had the headstamp .

Items 22 and 23: One 12 Gauge shotshell bearing the headstamp "12 GA MADE IN U.S.A." with possible markings ' ' barely visible on the hull.

Cary Wong  
Criminalist III

Technical Reviewer's Initials: *md*  
Administrative Reviewer's Initials: *jn*

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Items 27-2 and 28: One *Defense Technology* eXact iMPact 40mm caliber cartridge case with part number 6325. The cartridge cases were not further examined, per Detective Mayorga.

Item 29: One *Defense Technology* Ferret CS 40mm caliber cartridge case with part number 1262. The cartridge case was not further examined, per Detective Mayorga.

Item 44: One .308 Win. caliber cartridge case bearing the headstamp [REDACTED]

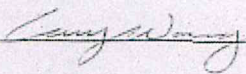
Item 63: One .40 S&W caliber cartridge case bearing the headstamp [REDACTED]

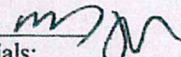
Item 67:

- Items 67-021-01-A-1 through 67-021-01-A-3: Three .308 Win. caliber cartridge cases bearing the headstamp [REDACTED] and multiple copper jacket fragments and bullet lead cores (not further examined). The test-fires were reportedly from an *Accuracy International* AT308 .308 Win. caliber rifle bearing the serial number [REDACTED]
- Items 67-022-01-A-1 and 67-022-01-A-2: Two 12 Gauge shotshells bearing the headstamp "12 GA MADE IN U.S.A." The test-fires were reportedly from a *Remington* 870 Police 12 Gauge shotgun bearing the serial number [REDACTED]
- Items 67-023-01-A-1 through 67-023-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED] bullets, one copper-jacketed fragment and one bullet lead core (not further examined). The test-fires were reportedly from a *Colt* M4 Commando [REDACTED] rifle bearing the serial number [REDACTED]

Item 68:

- Items 68-003-01-A-1 through 68-003-01-A-3: Three .45 Auto caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed round-nose bullets (not further examined). The test-fires were reportedly from a *Nighthawk Custom* 1911 GRP .45 Auto caliber pistol bearing the serial number [REDACTED]
- Items 68-005-01-A-1 through 68-005-01-A-3: Three .45 Auto caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed round-nose bullets engraved with six lands and grooves with a left hand twist (6L). The test-fires were reportedly from a *Wilson Combat* CQB .45 Auto caliber pistol bearing the serial number [REDACTED]
- Items 68-007-01-A-1 through 68-007-01-A-3: Three .45 Auto caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed round-nose bullets engraved with six lands and grooves with a left hand twist (6L). The test-fires were reportedly from a *Kimber* 1911 Custom TLE/RL11 .45 Auto caliber pistol bearing the serial number [REDACTED]

  
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- Items 68-009-01-A-1 through 68-009-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED], multiple copper jacket fragments, and multiple bullet lead cores. The most complete fragment was engraved with six lands and grooves with a right hand twist (6R). The test-fires were reportedly from a *Colt* M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Items 68-012-01-A-1 through 68-012-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED] copper jacket fragments, and three copper-jacketed boat-tail bullets engraved with six lands and grooves with a right hand twist (6R). The test-fires were reportedly from a *Colt* M4 Carbine .223 Rem. caliber rifle bearing the serial number [REDACTED]

## Item 69:

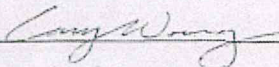
- Items 69-013-01-A-1 through 69-013-01-A-3: Three 9mm Luger caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed hollow-point bullets engraved with six polygonally-rifled lands and grooves with a right hand twist (6R, poly). The test-fires were reportedly from a *Glock* 17 9mm Luger caliber pistol bearing the serial number [REDACTED]
- Items 69-014-01-A-1 through 69-014-01-A-3: Three 9mm Luger caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed hollow-point bullets (not further examined). The test-fires were reportedly from a *Glock* 17Gen4 9mm Luger caliber pistol bearing the serial number [REDACTED]

## Item 70:

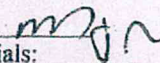

- Items 70-016-01-A-1 through 70-016-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED], multiple copper jacket fragments, and multiple bullet lead cores (not further examined). The test-fires were reportedly from a *Colt* M4 Carbine .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Items 70-018-01-A-1 through 70-018-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED] and three copper-jacketed boat-tail bullets engraved with six lands and grooves with a right hand twist (6R). The test-fires were reportedly from a *Colt* M16A2 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Items 70-019-01-A-1 through 70-019-01-A-3: Three .223 Rem. caliber cartridge cases bearing the headstamp [REDACTED], multiple copper jacket fragments, and multiple bullet lead cores (not further examined). The test-fires were reportedly from a *Colt* M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]

Item 71: One .223 Rem. caliber copper jacket fragment engraved with six lands and grooves with a right hand twist (6R), two smaller copper jacket fragments and one lead core fragment (not further examined).

Item 72: One flattened and deformed .223 Rem. caliber copper-jacketed Spitzer bullet engraved with six lands and grooves with a right hand twist (6R).



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Item 73: One .223 Rem. caliber copper jacket fragment engraved with six lands and grooves with a right hand twist (6R).

Item 74: One unknown caliber copper jacket fragment (missing large portions of the jacket) engraved with four visible lands and grooves with a right hand twist, one smaller copper jacket fragment and one lead core fragment (not further examined).

Item 75: One expanded 9mm Luger caliber copper-jacketed hollow-point bullet engraved with six polygonally-rifled lands and grooves with a right hand twist (6R, poly) and one small copper jacket fragment with no rifling impressions (not further examined).

Item 76: One damaged and deformed copper jacket fragment with no rifling impressions (not suitable for comparisons and not further examined).

Item 77: One flattened and deformed .223 Rem. caliber copper-jacketed Spitzer bullet engraved with six lands and grooves with a right hand twist (6R).

Item 78: One damaged and deformed .45 Auto caliber copper-jacketed bullet engraved with six lands and grooves with a left hand twist (6L) and one lead core fragment (not further examined).

Item 79: One damaged .223 Rem. caliber copper jacket fragment engraved with six lands and grooves with a right hand twist (6R), three copper jacket fragments, and three lead core fragments (not further examined).

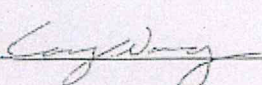
Item 80: One expanded .45 Auto caliber copper-jacketed hollow-point bullet engraved with six lands and grooves with a left hand twist (6L).

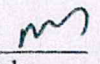
Item 81: One expanded .45 Auto caliber copper-jacketed hollow-point bullet engraved with six lands and grooves with a left hand twist (6L).


All bullets and fragments (Items 71 through 81) had red-brown stains and apparent biological material (cleaned with water and detergent and discarded).

Item 82:

- Items 82-001-01-F-1 through 82-001-01-F-2: Two .40 S&W caliber cartridge cases bearing the headstamp "WIN 40 S&W", two copper-jacketed hollow-point bullets, and multiple lead fragments (not further examined). The test-fires were reportedly from a *Springfield Armory* XD-40 pistol bearing the serial number [REDACTED]

  
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- One pistol, one cardboard box, and four sealed envelopes (not further examined, all items reportedly examined/generated by the Contra Costa County Sheriff's Office Crime Lab).

Evidence Examination

**Cartridge Case Comparisons**

The test-fired cartridge cases from the Item 67-021-01-A *Accuracy International* AT308 .308 caliber rifle bearing the serial number [REDACTED] and the Item 44 .308 Win. caliber cartridge case were microscopically examined and compared to each other. Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks), it was determined that the cartridge case was fired from the submitted rifle.

The test-fired shotshells from the Item 67-022-01-A *Remington* 870 Police 12 GA shotgun bearing the serial number [REDACTED] and the Items 22 and 23 12 GA shotshells were microscopically examined and compared to each other. Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks), it was determined that the shotshells were fired from the submitted shotgun.

The test-fired cartridge cases from the .223 Rem. caliber rifles and the .223 Rem. caliber cartridge cases were microscopically examined and compared to each other:

- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (firing pin impression), it was determined that the Items 27-1 and 30 cartridge cases were fired from the Item 67-023-01-A *Colt* M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (firing pin impression, ejector mark, and chamber marks), it was determined that the Items 25, 26, 64, and 65 cartridge cases were fired from the Item 68-009-01-A *Colt* M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks and firing pin impression), it was determined that the Items 50, 52, and 53 cartridge cases were fired from the Item 68-012-01-A *Colt* M4 Carbine .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (chamber marks), it was determined that the Items 54 and 55 cartridge cases were fired from the Item 70-016-01-A *Colt* M4 Carbine .223 Rem. caliber rifle bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (chamber marks), it was determined that the Items 2, 4, 6, 7, 10, 12, 13, 17, 19 through 21, and 51-1 through 51-3 cartridge cases were fired from the Item 70-018-01-A *Colt* M16A2 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]

Cary Wong  
Criminalist III

Technical Reviewer's Initials: mw

Administrative Reviewer's Initials: Dr

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- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (chamber marks), it was determined that the Items 34, 35, 37, and 38 cartridge cases were fired from the Item 70-019-01-A *Colt M4 Commando* .223 Rem. caliber rifle bearing the serial number [REDACTED]

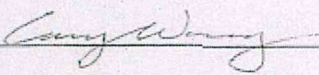
The test-fired cartridge cases from the .45 Auto caliber pistols and the .45 Auto caliber cartridge cases were microscopically examined and compared to each other:

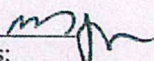
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks), it was determined that the Items 1, 5, 14, and 15 cartridge cases were fired from the Item 68-003-01-A *Nighthawk Custom* 1911 GRP .45 Auto caliber pistol bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks), it was determined that the Items 24, 46 through 49, and 66 cartridge cases were fired from the Item 68-005-01-A *Wilson Combat* CQB .45 Auto caliber pistol bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (breechface marks), it was determined that the Items 56 through 62 cartridge cases were fired from the Item 68-007-01-A *Kimber* 1911 Custom TLE/RL11 .45 Auto caliber pistol bearing the serial number [REDACTED]

The test-fired cartridge cases from the 9mm Luger caliber pistols and the 9mm Luger caliber cartridge cases were microscopically examined and compared to each other:

- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (firing pin aperture shear marks), it was determined that the Items 31 through 33, 36, 39-1 through 39-6, and 40 through 43 cartridge cases were fired from the Item 69-013-01-A *Glock* 17 9mm Luger caliber pistol bearing the serial number [REDACTED]
- Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (firing pin aperture shear marks), it was determined that the Items 3, 8, 9, 11, 16, 18, and 45 cartridge cases were fired from the Item 69-014-01-A *Glock* 17Gen4 9mm Luger caliber pistol bearing the serial number [REDACTED]

The test-fired cartridge cases from the Item 82-001-01-F *Springfield Armory* XD-40 .40 S&W caliber pistol bearing the serial number [REDACTED] and the Item 63 .40 S&W caliber cartridge case were microscopically examined and compared to each other. Based on the agreement of all discernible class characteristics and sufficient agreement of individual characteristics (firing pin aperture shear marks and firing pin drag mark), it was determined that the cartridge case was fired from the submitted pistol.

  
Cary Wong  
Criminalist III

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### Bullet and Fragment Comparisons

The test-fired bullets from the .223 Rem. caliber rifles and the .223 Rem. caliber bullets and fragments were microscopically examined and compared to each other:

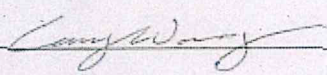
- There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions between the Items 71 and 79 copper jacket fragments and the test-fired bullets from the Item 68-009-01-A *Colt* M4 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]
- There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions between the Item 73 copper jacket fragment and the test-fired bullets from the Item 68-012-01-A *Colt* M4 Carbine .223 Rem. caliber rifle bearing the serial number [REDACTED]
- There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions between the Items 72 and 77 copper-jacket bullets and the test-fired bullets from the Item 70-018-01-A *Colt* M16A2 Commando .223 Rem. caliber rifle bearing the serial number [REDACTED]



The test-fired bullets from the Item 69-013-01-A *Glock* 17 9mm Luger caliber pistol bearing the serial number [REDACTED] and the Item 75 copper-jacketed hollow-point bullet were microscopically examined and compared to each other. There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions.

The test-fired bullets from the .45 Auto caliber pistol and the .45 Auto caliber bullets were microscopically examined and compared to each other:

- There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions between the Item 78 copper-jacketed bullet and the test-fired bullets from the Item 68-005-01-A *Wilson Combat* CQB .45 Auto caliber pistol bearing the serial number [REDACTED]
- There was agreement of all discernible class characteristics and sufficient agreement of toolmarks in the land impressions between the Items 80 and 81 copper-jacketed hollow-point bullets and the test-fired bullets from the Item 68-007-01-A *Kimber* 1911 Custom TLE/RL11 .45 Auto caliber pistol bearing the serial number [REDACTED]

\*The bullets and fragments may have been fired from the firearm reported above or from different firearms that were rifled using the same tool in the same approximate state of wear. Without evaluating the firearm barrel that may have fired the bullets and fragments, it could not be determined whether the toolmarks in the land impressions were individual characteristics or potential subclass characteristics. If the firearm were submitted for examination, the potential for subclass influence may be evaluated.

  
Cary Wong  
Criminalist III

Technical Reviewer's Initials:   
Administrative Reviewer's Initials: 

25 JAN '18 7:01

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Emeryville Police Department 1709-2151

(S): HODGE, Demilo

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The Item 74 fragment was microscopically examined and compared to all the other fired .223 Rem. caliber bullets and fragments. Although there was agreement of all discernible class characteristics, there was neither agreement nor disagreement of toolmarks in the land impressions due to insufficiency of toolmarks on the fragment. Due to a difference in class characteristics (rifling widths), the Item 74 fragment was eliminated as having been fired from any of the other caliber firearms.

Photographs taken during the examination were archived onto five DVDs and sealed into an envelope (Item 83).

Disposition of Evidence

Items 1 through 82 were resealed in the original evidence packaging and prepared for release to the submitting agency. Item 83 will be secured in the Laboratory's evidence locker.



Cary Wong  
Criminalist III

Technical Reviewer's Initials: mm  
Administrative Reviewer's Initials: fn

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