

I entered images of a test-fired cartridge case from ME-09 into the National Integrated Ballistic Information Network (NIBIN), where they were searched against the current database. No database images that warrant additional work were found. The images will be maintained in the NIBIN database and will be searched against new cartridge case images. You will be notified if any identifications are made.

Item ME-9B is an empty magazine and six unfired .45 Auto caliber cartridges with Federal head stamps. The magazine has a capacity of seven cartridges and fits Item ME-09 properly. Five of the unfired cartridges have possible firing pin strikes on their primers. The bullets of two of the cartridges appear to be seated more deeply into their case than are the others.

Items RM09, RM10, RM12, RM13, RM14, and RM16 each consist of one expended .45 caliber jacketed hollow-point bullet. Each bullet has been fired through a barrel rifled with six land and grooves and a left-hand twist. A series of microscopic comparisons of these bullets to a test fired bullet from each of the two officers' Springfield Armory .45 Auto caliber pistols (CL01 and SL01) revealed sufficient correspondence of land impression striae to determine the following:

- RM09 was fired from SL01.
- RM10, RM12, RM13, RM14 and RM15 were fired from CL01.

Items ME-01 through ME-07, ME-13, ME-14, ME-16, ME-17, and ME-18 each consist of one expended .45 Auto caliber cartridge case with a Winchester head stamp. A series of microscopic comparisons of these cartridge cases among each other, and with a test fired cartridge case from one or both of the two officers' Springfield Armory .45 Auto caliber pistols (CL01 and SL01), revealed sufficient correspondence of breech face mark striae to determine the following:

- ME-01, ME-05, ME-06, and ME-07 were fired from SL01.
- ME-02, ME-03, ME-04, ME-13, ME-14, ME-16, ME-17, and ME-18 were fired from CL01.

I conducted no additional examinations at this time.

DISPOSITION

The test-fired components (CL01TF, SL01TF, and ME-09TF) will be retained at the laboratory for a minimum of five years, after which they will be transferred to the appropriate agency.

The two swabs of possible blood (ME-09SW1) from ME-09 will be retained in this laboratory's frozen storage for a minimum of five years pending DNA analysis, after which they will be transferred to the appropriate agency.

The two Springfield Armory .45 Auto caliber pistols (CL01 and SL01) were returned to the Riverside Police Department on 3/1/12, along with the magazines and unfired cartridges (CL01A and SL01A).

All remaining evidence items will be returned to the appropriate agency.

EXAMINED BY:

Brian L. Reinartz
Senior Criminalist

Date of Report: April 17, 2012

Technical review by: RJ Date: 5/19/12

Administrative review by: H. Williams Date: 4/20/12

BLR : blr