



FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C.

- 1 - Mr. Belmont
- 1 - Mr. Rosen
- 1 - Mr. Sullivan
- 1 - Mr. Malley, Rm. 5710
- 1 - Mr. Conrad

To: FBI, Dallas (100-10461)

Date: March 6, 1964

Re: LEE HARVEY OSWALD  
IS - R

*J. Edgar Hoover*  
John Edgar Hoover, Director

FBI File No. 105-82555  
Lab. No. PC-78318 GH

Examination requested by: Dallas

Reference: Letters 11/27/63, 12/13/63, 12/21/63

Examination requested: Neutron Activation Analyses

Remarks:

The Laboratory has arbitrarily assigned the designation C41 to all the seven casts from Lee Harvey Oswald and these casts have been listed in the Laboratory report as Q53A through Q53G. The following "C" designations were assigned to the envelopes and paper sacks submitted along with the paraffin casts:

MAILED 12  
MAR 6 1964  
COMM-FBI

- C42 Q54
- C43 Q55
- C44 Q56
- C45 Q57
- C46 Q58

REC-6  
MAR 10 1964  
2384  
*(Section 94)*

No examinations were made of the copy of report dated 11/23/63, of the Dallas City-County Criminal Investigation Laboratory regarding examination of paraffin casts of right side of face, left hand and right hand of Oswald. All the above items were furnished with your letter dated 11/27/63, and listed under our Laboratory number PC-78318.

- Tolson
- Belmont
- Mohr
- Casper
- Callahan
- Conrad
- DeLoach
- Evans
- Gale
- Rosen
- Sullivan
- Tavel
- Trotter
- Tele. Room
- Holmes
- Gandy

Enclosures (2) (2 Lab report)

(continued on next page)

ADMINISTRATIVE PAGE

MAIL ROOM  TELETYPE UNIT

*14 (over)*  
*11 22 11 1964*

*7*  
*NAA Results on 70's paraffin casts*

*Early Evidence*

*Handwritten initials and scribbles*

The following items were received from your office with your letter dated 12/13/63, and no "C" designations were assigned to these items since the items were used only for control purposes.

OBTAINED FROM DALLAS POLICE DEPARTMENT, DALLAS, TEXAS

Maxwell House coffee can containing paraffin  
One and one-half inch paint brush  
Three one-fourth pound blocks of Gulfwax paraffin  
Sample of diphenylbenzidine used by personnel of  
Dallas City-County Criminal Investigation Laboratory,  
Dallas, Texas

The Gulfwax paraffin and diphenylbenzidine samples were not retained since they were not evidentiary items.

The following item was received from your office with your letter dated 12/21/63:

Plastic bottle containing tap water from Dallas, Texas. This water sample was similarly used only for control purposes and was not retained.

The paraffin casts, Q53A through Q53G, were analyzed by neutron activation analyses at Oak Ridge National Laboratories, Research Reactor Site, Oak Ridge, Tennessee. The Union Carbide Corporation personnel at this site who worked on the actual analyses of these specimens with the FBI Laboratory examiners were Dr. Frank F. Dyer and Mr. Joel P. Emery.

You have been previously furnished photographs of specimens Q53A through Q53G and Q54 through Q58. These are the only specimens which have been assigned "C" designations.

If a report has been previously submitted regarding any of the above exhibits, you should prepare a letterhead memorandum suitable for dissemination identifying the report in which the pertinent information is set forth.

If no investigative report has been submitted regarding these exhibits, then you should prepare one. Two copies should be designated for the President's Commission and the copy which is signed by the SAC will be retained as the Bureau's file copy.

It is to be noted that the Commission was previously furnished photographs of all items in this report which have been assigned "C" numbers.

Page 3  
PC-78318 GH

ADMINISTRATIVE PAGE



of the

FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C.

To: FBI, Dallas

Date: March 6, 1964

Re: LEE HARVEY OSWALD  
IS - R

FBI File No. 105-82555  
Lab. No. PC-78318 GH

Specimens received 11/27/63

PARAFFIN CASTS FROM LEE HARVEY OSWALD

- Q53A Back of right hand
- Q53B Front or palm side of right hand
- Q53C Back of left hand
- Q53D Front or palm side of left hand
- Q53E Long narrow section side of right thumb
- Q53F Long triangular section side of left thumb
- Q53G Thin slab from right cheek
  
- Q54 Paper envelope in which paraffin cast of right hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory
- Q55 Paper envelope in which paraffin cast of left hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory
- Q56 Paper envelope in which paraffin cast of right side of face of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory
- Q57 Paper sack in which seven pieces of paraffin casts were stored from 11/23/63, to 11/27/63
- Q58 Paper sack of the type in which the casts from Oswald were stored from 11/23/63, to 11/27/63

Results of examination:

The paraffin casts, Q53A through Q53G, were analyzed by neutron activation analyses to determine if these paraffin casts from Oswald, which were made, chemically treated and washed by the Dallas law enforcement authorities bore any deposits which could be specifically associated with the rifle cartridge cases found in the Texas School Book Depository Building following the President's assassination. As a

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- Holmes \_\_\_\_\_
- Gandy \_\_\_\_\_

Page 1

(continued on next page)

MAIL ROOM  TELETYPE UNIT

result of these examinations, the deposits found on the paraffin casts from the hands and cheek of Oswald could not be specifically associated with the rifle cartridges. Elements (barium and antimony) were found on the casts; however, these same elements were found in powder residues both from the above rifle cartridge cases and from the revolver cartridge cases which were fired from Oswald's revolver reportedly between the time of the assassination and the time of apprehension.

No characteristic elements were found by neutron activation analyses which could be used to distinguish the rifle from the revolver cartridges.

In view of the fact that the paraffin casts were not made until after the reported firing and handling of the fired revolver, no significance could be attached to the residues found on the casts other than the conclusion that barium and antimony in these residues are present in amounts greater than would be expected to be found on the hands of an individual who has not recently fired a weapon or handled a fired weapon.

No identifiable particles of powder residues were found in the envelopes and sacks, Q54 through Q58.

The submitted evidence is being retained.

Addendum: Mr. William S. Lyon, Dr. Frank F. Dyer and Mr. Joel F. Emery all of Union Carbide Corporation, Oak Ridge, Tennessee, who have studied data from Oswald's casts concurred in conclusion of this Laboratory report.