

- 1 - Mr. Belmont
- 1 - Mr. Rosen
- 1 - Mr. Sullivan
- 1 - Mr. Malley
- 1 - Mr. Conrad

March 24, 1964

By Courier Service

#15

Honorable J. Lee Rankin
 General Counsel
 The President's Commission
 200 Maryland Avenue, Northeast
 Washington, D. C.

Assassination of President J. Kennedy

FBI REC'D. COMM. DIV. MAR 25 1964

MAR 24 2 02 PM '64

REC'D - READING ROOM

Dear Mr. Rankin:

Reference is made to your letter dated March 18, 1964, in which you requested a report of the results of the examination by the FBI of the President's automobile.

On the morning of November 23, 1963, a detailed search of the President's automobile was conducted at the White House Garage in Washington, D. C., by Laboratory personnel. This search was conducted for the purpose of locating any bullets or bullet fragments for examination. Three small metal fragments, Item C16, were found on the rear floor carpet of the automobile. Metallic residues, Item C17, were observed on the inside surface of the windshield at the cracked area and these residues were removed. It was subsequently determined by spectrographic analysis and was reported that the three metal fragments and metallic residues were similar in composition to the lead of the core of the bullet fragment, Item C2, which had previously been found on the front seat cushion by the Secret Service.

A dented area was located on the inside surface of the windshield chrome molding, at the top near the center, which was possibly produced by a bullet or bullet fragment.

Your request for a verbal description of the assassination scene and a contour map of the immediate area is being handled by separate letter.

Sincerely yours,

J. Edgar Hoover

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

105-82555

CLX: KO (8)

XEROX

MAR 30 1964

BY COURIER SVC.

50 MAR 24

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DO NOT

Silver Determinations: Using correction factor when count time is comparable to T_{1/2}

Sample	Weight mg	A _g PPM	Deviation from mean D	D ²	STANDARD DEVIATION
Q1 a	8.0	9.19	- .21	.0441	2.297
	5.7	9.61	+ .21	.0441	
	Avg	9.40			
Q2 a	11.8	8.09	+ .16	.026	2.912
	25.2	9.15	+ .22	.49	
	4.57	7.22	- .71	.50	
	3.89	7.24	-.69	.48	
Avg		7.93			
Q3 a	3.8	8.95	+ .48	.230	4.28
	13.0	8.33	- .14	.020	
	Lb 21.5	8.13	-.34	.1156	
	Avg	8.47			
Q4 a	2.3	9.21	- .04	.0016	0.57
	2.3	9.25	+ .04	.0016	
Avg		9.25			
Q14 a	10.9	8.63	+ .17	.03	.155
	8.5	8.40	- .06	.0036	
	Lb 4.7	8.34	-.12	.0144	
	Avg	8.46			

Antimony determination (cont'd) in lead specimen

Sample	Weight * Mg	Sb ppm	DEVIATION FROM MEAN	D	D ²	STANDARD DEVIATION
S	10.65	543	- 19		361	20.87
S(b)	9.70	582	+ 20		400	
Q14 La	5.78	546	- 16		256	
Lb	3.77	552	- 10		100	
Lc	2.85	587	+ 25		625	
Avg		562				

* Represents the weight after surface was assayed.

** Sample scrapped for second time and re-run.

$$\text{Standard Deviation} = \sqrt{\frac{\sum D^2}{n-1}}$$

REC-11

D.O.J

Antimony Determination
 Sb¹²⁴ - 60 days = T 1/2

Sample	weight * Mg.	Sb P.P.M.	Deviation from mean: D	D ²	Standard deviation
Q1	A 7.16	643	- 54	2916	
	B 4.2	636	- 61	3721	
	C 1.79	750	+ 53	2809	
	D 1.24	749	+ 52	2704	
	E 3.34	735	+ 8	64	
Avg		697			17.48
Q1 E**	1.16	749			
Q2	A 39.75	521	- 13	169	29.63
	B 21.6	521	- 13	169	
	C 3.84	578	+ 44	1936	
	D 3.68	515	- 19	361	
Avg		534			
Q4,5	S 3.22	555	- 6	36	
	L _a 6.85	552	- 9	81	
	L _b 21.15	532	- 29	841	
	L _c 8.25	606	+ 45	2025	
Avg.		561			31.52
Q9	A 1.92	690	+ 18	324	16.14
	B 2.07	662	- 14	196	
	S 1.34	677	+ 1	1	
Avg		676			

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72 C. Control


69 Fe Arc

- 66 - 1 From larger piece of Q4 + Q5 lead Head of JFK
63 - 2 From larger piece of Q4 + Q5 lead Head of JFK
60 - 3 From largest piece Q14 (rug in front of jump seat)
57 - 4 From largest piece Q14 (rug in front of jump seat)
54 - 5 From lead in Q9 (right arm of Gov.)
51 - 6 From lead in Q9 (right arm of Gov.)
48 - 7 Lead from car Q1
45 - 8 Lead from car Q2
42 - 9 Scrapings from inside Windshield Q15

Pb Pb Cu

PC-78243

Nov 23 1963



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Reference copy, JFK Collection: HSCA (RG 233)

Carbon

Fe	Pb	Sb	Mg	Sn	Pb	Cu	Ag	Fe	S
1		< .05 > .009	Mg ^{tr}	< .008	≤ .05	Cu .004	< .005	Fe ^{tr} < .001	
2		< .02 > .009	Mg ^{tr}	0	≤ .05	Cu .004	< .005	Fe ^{tr} < .001	
3		< .05 > .009	Mg ^{tr}	0	≤ .05	Cu .004	< .005	Fe ^{tr} < .001	
4		< .05 > .009	Mg ^{tr}	0	≤ .05	Cu .004	< .005	Fe ^{tr} < .001	
5	.0035	.009		-	.05	.041			
6	.007	.009		.008		.0015			
7	.007	.009		.008	.032	.0018			
	AS	Sb		Sn	Pb	Cu	Ag		

- (1) larger piece from Q4 & Q5
- (2) largest piece Q14
- (3) From head Q9
- (4) head from Q2
- (5) Std. A101
- (6) Std A104
- (7) Std A104

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10 sec Pre burn low Ar.
1 min 20 sec H Ar. Exposure

PC-78243

⊗

7-2

Lab. report
To C.O. - P. Dallas Nov 23, 1963

RECORDED
11/26/63 KO

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re **ASSASSINATION OF PRESIDENT
JOHN F. KENNEDY**

File #
Lab. # **PC-78243 BX JV G**

**Mr. Jesse E. Curry
Chief of Police
Dallas, Texas**

Examination requested by:

Examination requested: **Firearms - Spectro. -
Microscopic - Fingerprint**

Date received:

Result of Examination:

Examination by: **FRAZIER
STONBAUGH
GALLAGHER**

- 2 - Chief, U. S. Secret Service**
- 2 - FBI, Dallas**
- 1 - FBI, Washington Field**
- 1 - FBI, Richmond**
- 1 - FBI, Baltimore**
- 1 - FBI, Chicago**

Specimens submitted for examination

Evidence received from Special Agent Elmer L. Todd, Washington Field Office of the FBI on 11/22/63:

Q1 Bullet from stretcher

Evidence received from Special Agent Orin Bartlett of the FBI on 11/22/63:

- Q2 Bullet fragment from front seat cushion**
- Q3 Bullet fragment from beside front seat**

Evidence received from Special Agent James W. Sibert and Special Agent Francis O'Neill, Jr., of the Baltimore Office of the FBI on 11/23/63:

- Q4 Metal fragment from President's head**
- Q5 Metal fragment from the President's head**

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Evidence received from Special Agent Vincent E. Drain of the Dallas Office of the FBI on 11/23/63:

- Q6 6.5 mm Mannlicher-Carcano cartridge case from building
- Q7 6.5 mm Mannlicher-Carcano cartridge case from building
- Q8 6.5 mm Mannlicher-Carcano cartridge from rifle
- Q9 Metal fragment from arm of Governor John Connolly
- Q10 Wrapping paper in shape of a large bag
- Q11 Suspect's shirt
- Q12 Blanket
- ✓Q13 Bullet from Officer Tippett

- K1 6.5 mm Mannlicher-Carcano rifle, with telescope sight, Serial No. C2766
- K2 Paper and tape sample from shipping department, Texas Public School Book Depository
- K3 .38 Special Smith and Wesson revolver, Serial No. V510210, Assembly No. 65248

Evidence obtained by FBI Laboratory personnel during examination of the President's limousine:

- Q14 Three metal fragments recovered from rear floor board carpet
- Q15 Scraping from inside surface of windshield

Also Submitted: Photograph of rifle, K1
Finger and palm prints of Lee Harvey Oswald

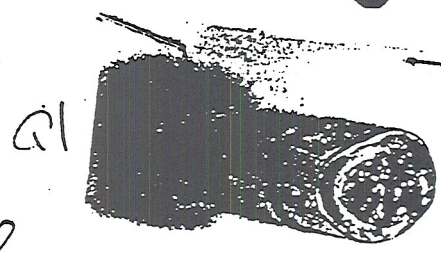
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NOV 23 1963

401

12

Killer
Frazier
Cunningham
243



Q1
D 43646) AX

11/22/63
11/23/63

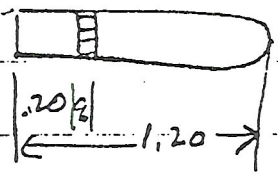
Q1
Bullet from stretcher
Wt - 158.6 grains

Q1

Type ^{MCC} (Non-subjected) 6.5mm Mammlicher-Carcano (Italian) Solid Pt
L & G - 4 Rt.

Land - .07

Groove - .13



07
13
20
29
80 US - .796
48

Mfg: ~ to W.C.C. gr

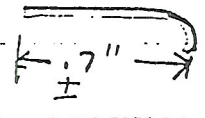
257
314
806

Q2
Bullet fragment from seat near driver

Wt 44.6 grains - No cannelure

Type None portion of MC-C with lead - Full metal jacket type

Land .07 ± 6.5mm
Gr .13 ± .25
20 x 4 = 80 = 6.5



21.0
65.6 gr

Q3
Bullet from beside front seat

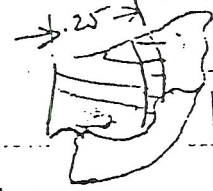
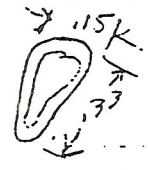
Wt = 21.0 gr

Q2 + Q3 should be from one or two bullets.

Type = MC Jacket - base only no lead - full metal jacket type

L & G - 4 Rt

Land .07



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DEC 1 1915

Groove $\frac{13}{20} \times 4 = 80$ US Dept of Chart for 6.5mm

Q4
Lead frag from head - 1.65 grains

Q5
" " " " @ 15 gr

(#1 from flooring left side jump seat @ 29 gr)
Q6 " " " " @ 27 gr

Q7 " " " " @ 27 gr

Q8 Lead frag - Signs - Gov. arm. @ 9 gr

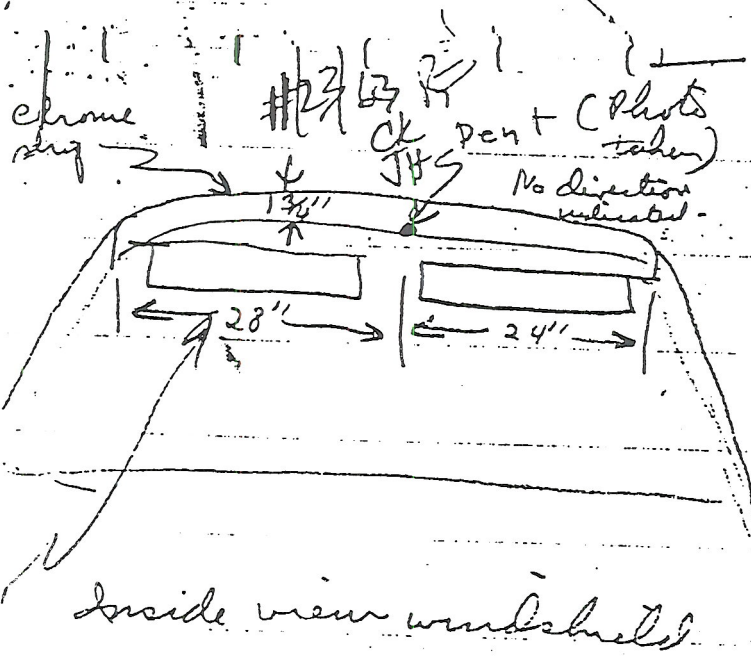
11/23 Bethesda. No Val. Spectro Kern

" " " " of Some - See G.H.

No Value W.S. Re. Hues + Q2 - For Q1.

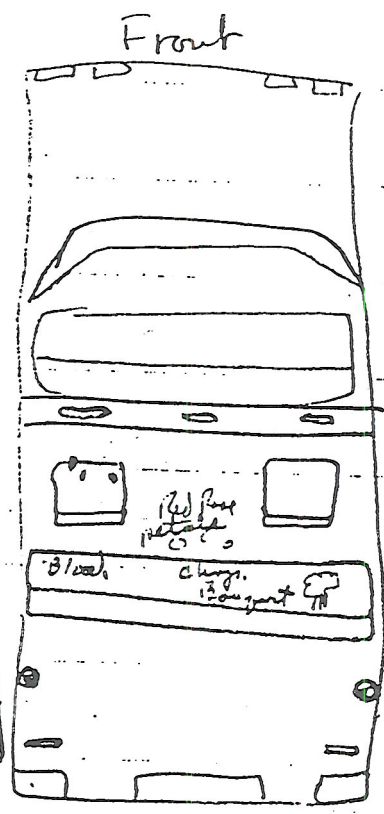
No Value (7) 14

Reference copy, JFA COLLECTION



Inside view windshield

sun visors

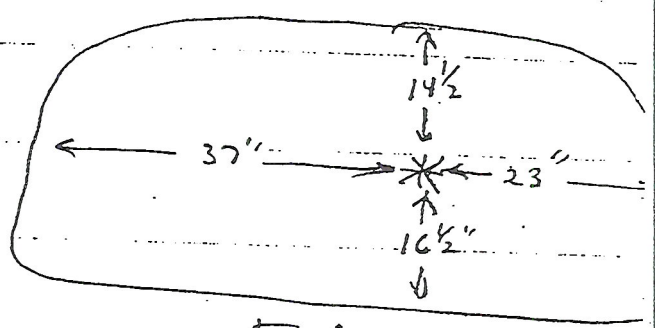


Blood, tissue or Bone frag. scattered over interior of car & on wood-on visors (both sides of Rt visor)

3 Frog Lead found on Rear floorboard.
2 in Rugs, 1 in seat hinge channel (Jump seat).
No other Frogs found in car.

No bullet holes found except front

11/23
1:30 am
Exam car -

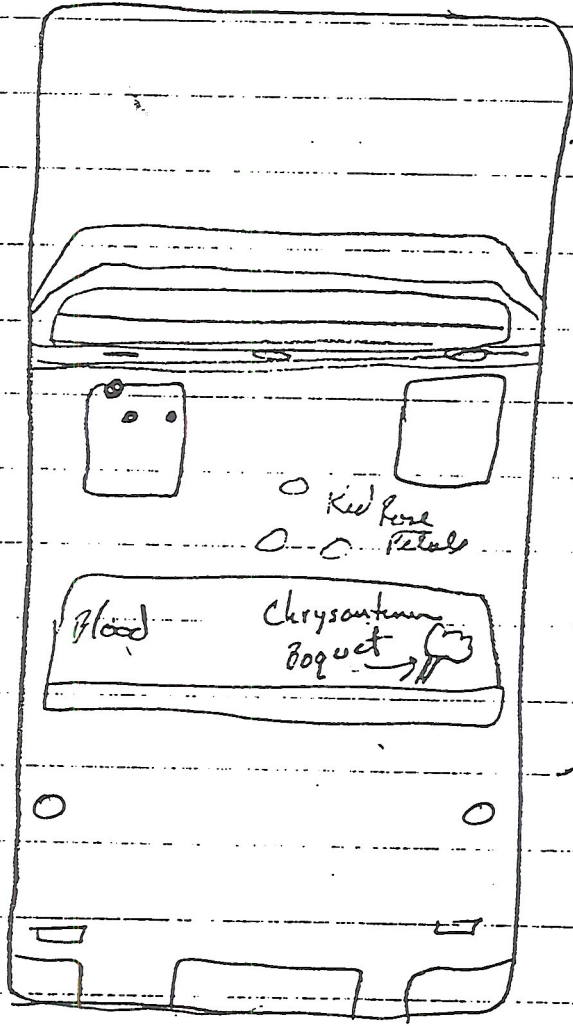
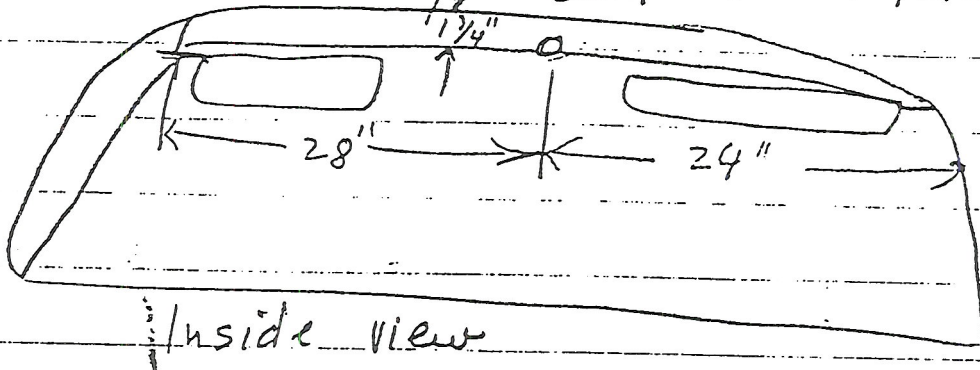


outside view

DEC 1 1915

DUJ

DC - Secret Serv. Gov. Lincoln Presid. business 1:30 AM 11/23/68
 chrome strip seat (Photo taken) No direction indicated



Blood, tissue or bone
 Frag. scattered over interior
 of car and on hood-on visors
 (both sides of rt visor)

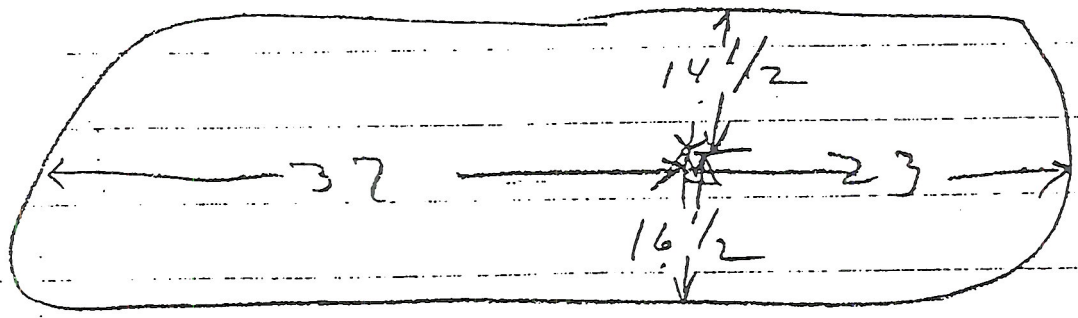
3 Frag. Lead found on rear
 floorboard, 2 on rug, 1 in
 seat hinge channel (Jump Seat)

No other frags. found in car -
 No bullet holes found

FROM

PC 28243BK
R

Linear dimension 11/23/63



- 1 Linear resembling lead on inside
- 2 Cracks on outside - stellate (radiating)
- 3 Minute fog missing from outside

Struck by projectile on inside surface.

Reference copy, page 1

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R1954

VI-C-5-D2

Record Number 157-10011-10108

4/5/77

EG

SENATE SELECT COMMITTEE REQUEST
November 21, 1975

November 6, 1975
Item #4

Reference copy, JFK Collection: HSCA (RG 233)

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