

of the

FBI
LABORATORY

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To: FBI, Memphis

Re: MURKIN

Date: April 29, 1968
FBI File No. _____
Lab. No. _____

Specimens received
4/5/68

For a complete listing of the evidence, refer to
previously submitted to the
Laboratory report
Memphis Office.

Results of examination:

The lead cores of the bullets in the five cartridges,
Q4 through Q8, were found to vary in composition even though
they were all from the same manufacturer.

The core portion of the Q64 bullet fragment from the
victim's body is similar in composition to the lead core of
the bullet in the cartridge designated Q4 and could have come
from a source such as represented by the lead core of the
bullet in Q4.

The bullet jacket portion of specimen Q64 is similar
in composition to the metal of the jackets of the bullets in
the Q4 through Q8 cartridges and could have come from the
source represented by those bullets.

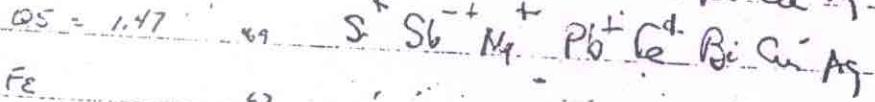
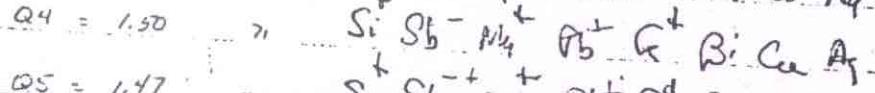
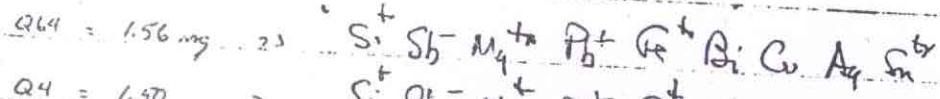
KING CASE
Bullet Laminis

C

77

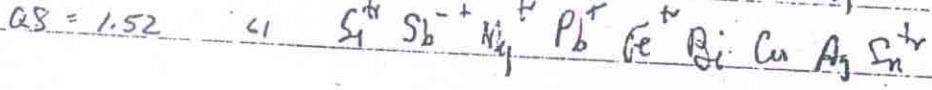
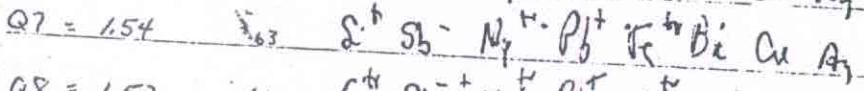
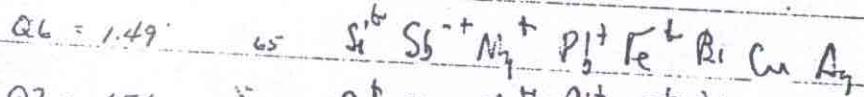
Fe

75



Fe

67



April 19 1958

A

KING CHSE
COPPER JACKETS

C

E

Q64 (1.87 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-

Q4 (1.80 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-

Q5 (1.81 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-

Fe

Q6 (1.79 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-

Q7 (1.81 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{vst} Cu^+ Ag^+ Zn^-

Q8 (1.80 mg) β^{tr} Ni^{tr} Si^{vst} Fe^{tr} Cu^+ Ag^+ Zn^-

April 19-1968

B

C 73

Fe 71

Q64 69 = 1.565 mg. $\text{Sb}^- \text{As}^{+4} \text{Mg}^{+2} \text{Pb}^{+2} \text{Si}^{+4} \text{Fe}^{+2} \text{Bi}^{+3} \text{Sn}^{+4}$

Q4 67 = 1.545 mg. $\text{Sb}^- \text{As}^{+5} \text{Mg}^{+2} \text{Pb}^{+2} \text{Si}^{+4} \text{Fe}^{+2} \text{Bi}^{+3} -$

Q64 65 = 1.670 mg. $\text{Sb}^- \text{As}^{+5} \text{Mg}^{+2} \text{Pb}^{+2} \text{Si}^{+4} \text{Fe}^{+2} \text{Bi}^{+3} -$

April 22 - 1968

C

SAMPLE	wt.	$\mu\text{g Sb}$	% Sb
Q61 A	9.86 mg.	132	1.34 }
Q64 B	10.54	133	1.26 }
Q64 C	8.49	127	1.50 } G = .12 Rel. S = 9%
Q4 A	9.90	156	1.58 }
Q4 B	9.06	131	1.45 }
Q4 C	8.14	124	1.52 } G = .07 Rel. G = 5%
Q5 A	9.54	207	2.17 }
Q5 B	9.46	199	2.10 }
Q5 C	8.50	175	2.06 } G = .06 Rel. G = 3%
Q6 A	9.68	220	2.27 }
Q6 B	9.63	228	2.37 }
Q6 C	9.60	214	2.23 } G = .07 Rel. G = 3%
Q7 A	10.00	68	.68 }
Q7 B	8.42	62	.74 }
Q7 C	9.75	70	.72 } G = .03 Rel. G = 4%
Q8 A	9.60	110	1.15 }
Q8 B	9.30	95	1.02 }
Q8 C	9.18	92	1.00 } G = .08 Rel. G = 8%

According to Pennington - Petting, then our
no spec. soil fair core lead.