

Recorded
8-7-64 cmj

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re: LEE HARVEY OSWALD, aka
IS - R - CUBA

Examination requested by: President's Commission (1)

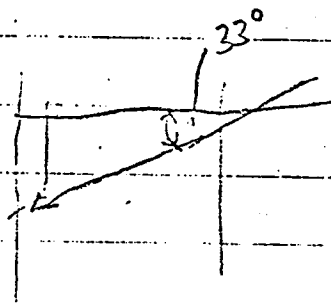
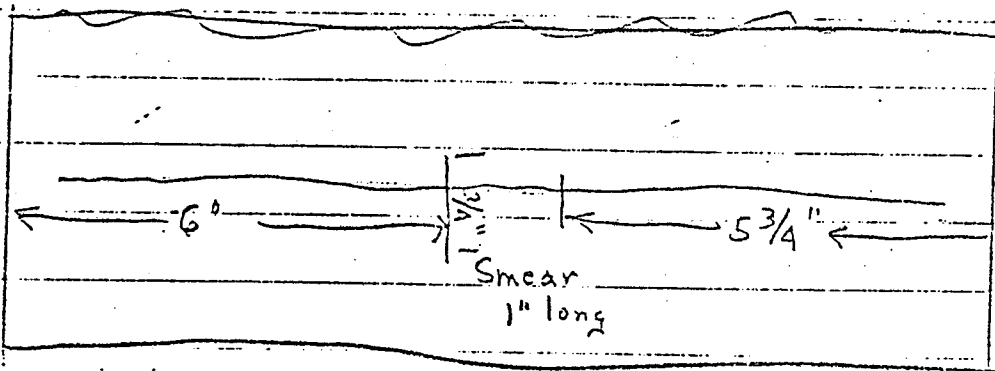
Examination requested: ~~Photographic~~ ^{Microscopic} ~~Microscopic~~

Result of Examination: Firearms

Specimens submitted for examination

609 ~~Request for location and examination of mark on curbing at assassin's~~
site Piece of curbing.

Small foreign metal smears (see attached for location) were microscopically (gunell-ash.) & found to be essentially lead with a trace of antimony - could be bullet metal. No copper observed.



stemmy 1st term
 5b 1st - 60 days = T 1/2

	mo. weight $\frac{1}{2}$ $\frac{1}{2}$	So ppm	Deviation from mean D	D =	Standard deviation
1	A 7.16	643	- 54	2916	
2	B 4.2	636	- 61	3721	
3	C 1.79	750	+ 53	2809	
4	Q ₁ D 1.24	749	+ 52	2754	
5	E 3.34	725	+ 18	64	
6	Arg	697			
7	Q ₁ = 1.16	749			1748
8	A 39.75	521	- 13	169	
9	B 21.6	521	- 13	169	
10	Q ₂ C 5.84	578	+ 44	1936	
11	D 3.68	515	- 19	361	
12	Aug	534			2903
13	Q ₃				
14	S 3.22	555	- 6	36	
15	L ₂ 6.85	552	- 9	81	
16	L ₃ 21.15	532	- 29	841	
17	L ₄ .825	606	+ 45	2025	
18	Aug	561			3152
19					
20	A 1.92	690	+ 18	324	
21	Q ₂ B 1.07	662	- 14	196	
22	S 1.38	677	+ 1	1	
23	Aug	671			1610

Continuation (cont'd) of lead

Weight Mg	Sb	Dev from	D	D ²	Σ D ²
10.65	543	-	19	361	
9.70	532	+	20	400	
5.78	546	-	16	256	
3.77	552	-	10	100	
2.85	587	+	25	625	
<u>avg</u>	<u>562</u>				<u>2087</u>

* Represents the weight after surface was scraped.

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

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

1. *Calculation of Unconstrained Least Squares*
 2. *and the corresponding T*

	weight	mg	ppm		D ²	
1	a	8.9	9.19	- .21	.0441	
2	b	5.7	9.61	+ .21	.0441	
3	Aug		9.90			.297
4	a	41.9	8.09	+ .16	.026	
5	Q ₂ b	25.2	9.15	+ .22	.149	
6	c	42.57	7.22	- .71	.50	
7	d	3.89	7.24	- .69	.548	
8	Aug		7.93			.912
9	S	3.8	8.75	+ .48	.230	
10	Q ₃ La	13.0	8.33	- .14	.020	
11	Lb	21.5	8.13	- .34	.1156	
12	Aug		8.47			.323
13	d					
14	Q ₄ a	2.3	9.21	- .04	.0016	
15	b	2.3	9.29	+ .04	.0016	
16	Aug		9.25			.057
17						
18	S	10.9	8.63	+ .17	.03	
19	Q ₅ La	8.5	8.40	- .06	.0036	
20	Lb	4.7	8.74	- .12	.0144	
21	Aug		8.66			.155