

PROJECT 10073 RECORD CARD

1. DATE DR July 1957	2. LOCATION Shiloh, Ohio	12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other <u>Stoney meteorite</u> ☐ Insufficient Data for Evaluation ☐ Unknown
3. DATE-TIME GROUP Local _____ GMT _____	4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	
5. PHOTOS ☐ Yes Physical ☒ No Specimen	6. SOURCE Civilian	
7. LENGTH OF OBSERVATION - - -	8. NUMBER OF OBJECTS one	9. COURSE found on ground
10. BRIEF SUMMARY OF SIGHTING Physical specimen sent to ATIC for analysis.		11. COMMENTS Physical analysis indicated that the object was a stoney type meteorite over 100 years old.

DISPOSITION FORM

SECURITY CLASSIFICATION (If any)

FILE NO.

SUBJECT

Examination of Meteorite

TO

AFCIN-4E4

FROM

AFCIN-4E2

DATE 15 July 1957

COMMENT NO. 1

ATTN: Capt. Gregory

AFCIN-4E2c/Naugle/mj
50193/Bldg. 263D

1. Reference is made to discussions between Captain Gregory relative to the meteorite left in the Air Weapon Materials Branch for examination.

2. The sample in our possession is unquestionably a meteorite, but appears to be at least 100 years old. An examination in this case would have no intelligence value from the standpoint of UFO.

3. Although there has been quite a bit of study on meteorites in connection with heat-transfer as applied to guided missiles, these studies have been made on metal meteorites and not the stony types such as the one submitted. However, aerodynamic flow patterns are being studied on all types of meteorites, and for this reason this sample will be submitted to White Stork.

4. Composition analysis does not appear warranted, since all of the stony meteorites fall into the same category. The Smithsonian Institution, Washington, D. C., can furnish the general analysis of all stony type meteorites.

5. White Stork will also be asked about the monetary value of this meteorite. Dr. H. H. Nininger, American Meteorite Museum, Sedona, Arizona, could make full assessment of the dollar value.

6. A full report will be furnished your office on receipt from White Stork.

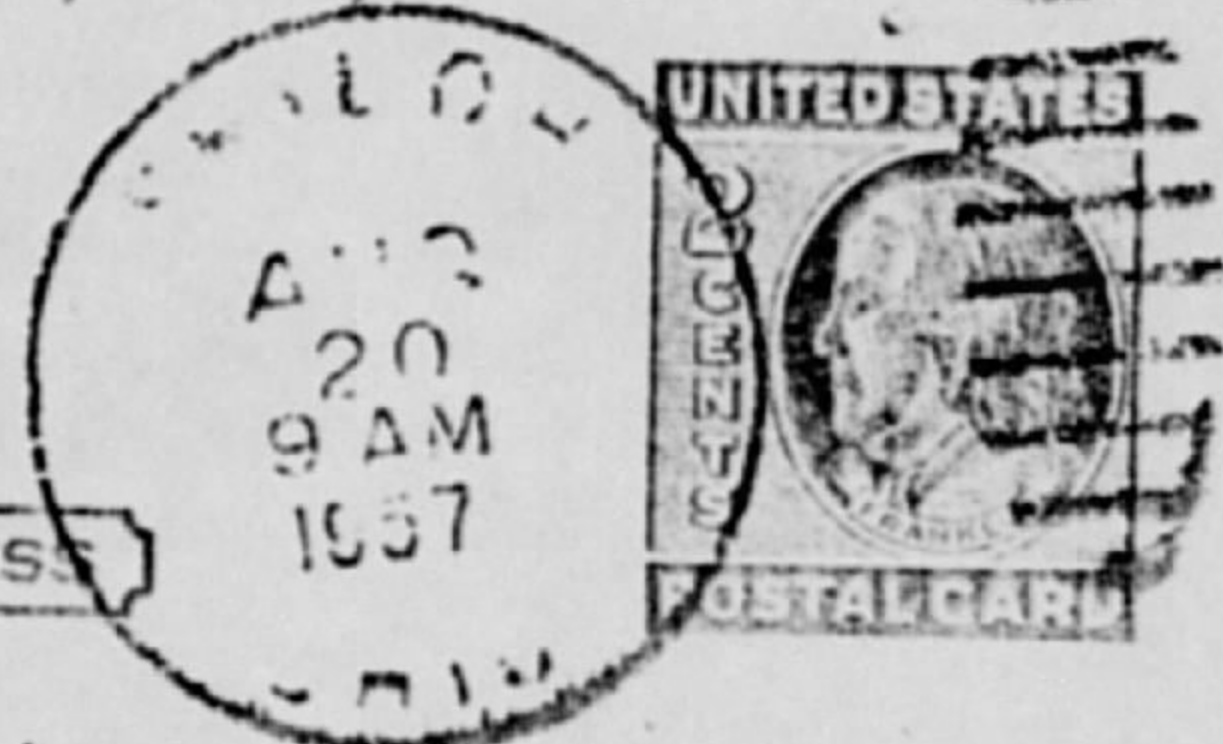
H. E. Martin
HOMER E. MARTIN
Acting Chief
AFCIN-4E2

Dr. Villians arrived ATIC from Ballhalla to examine meteorite on 24 July 1957. Brief conference held in Room 8. Discussed meteorite forwarded to Ballhalla previous day.

GTC

9089

THIS SIDE OF CARD IS FOR ADDRESS



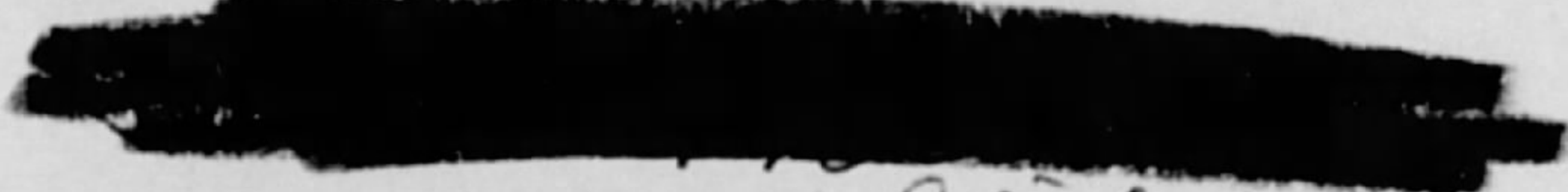
M/Sgt. Oliver D. Hill.
Air Technical Intelligence ^{Center}
Wright Patterson AFB, Ohio
Attention 4-4

Dear Sir,

Shiloh Ohio
Aug 19th

We have the oats Combined off of that
field now and you can come any time
We are anxious to hear what you
found out from the Meteorite!

County Commissioner
Office Mansfield
Ohio


Shiloh
Ohio

Shiloh O

Sept 16th

Off. Sgt Oliver D. Hill.

I wrote you some time ago
Concerning the Meteorite and also
told you the oats was off the field
and you could inspect the field
anytime. And would like to know
what you found out about the
Meteorite. As I have not heard
anything since you came after
it. And would like to have
you return it as soon as
possible as they have been
several interested people here to
see it and would like to inspect
it too. Respectfully

Shiloh O

ROUTING	COORDINATION
	AFOIN-4
	AFOIN-4X2bAFCIN-4E4
	Mr. [REDACTED]
	Commissioners' Office
	Richland County
	AFOIN-4X2C Mansfield, Ohio
	Dear Mr. [REDACTED]
	AFOIN-4X3
AFOIN-4X4	
AFOIN-4A	
AFOIN-4B	
AFOIN-4C	
AFOIN-4D	
AFOIN-4E	
AFOIN-4F	
OTHERS	

FILE CLASS: _____
OFFICIAL FILE COPY

OFFICE OF RECORD

18 OCT 1957

4E4/Capt Gregory/ltc
69216 17 Oct 57

Mr. [REDACTED]
Commissioners' Office
Richland County
Mansfield, Ohio

Dear Mr. [REDACTED]

AFOIN-4X3

In response to your letter of 16 September regarding the object which you so kindly made available to the Air Force, please be advised that our examinations have only recently been completed.

AFOIN-4A

The object which, at first glance, appeared to be a meteorite, was submitted to an analysis, the results of which completely discounts the meteorite possibility. The tentative conclusions are that the stone is not a meteorite but most probably a volcanic "bomb" thrown from the throat of an active volcano somewhere to the north and east of its final resting place. It is not improbable that it was transported to the spot of discovery by any of the several glaciers which passed over the volcanic area of the Canadian Shield - Appalachian diastrophic region.

AFOIN-4B

AFOIN-4C

We shall hold the stone pending instructions from you regarding its disposal.

The Air Force wishes to extend its appreciation for your assistance and cooperation in this matter.

AFOIN-4D

Sincerely,

WALLACE W. ELWOOD
Captain, USAF
Assistant Adjutant

AFOIN-4E

AFOIN-4F

OTHERS

PERM	
TEMP	
90 DAYS	
INITIAL	

Sheloh Ohio
Oct 23rd

Dear Mr. [REDACTED]:

Was glad to hear from the
Meteorite, and your analysis
of it, and want to thank you
for the trouble you have been
too. And regards to its disposal
I would like to have it returned
to my place as soon as possible
Again I thank you

Sincerely

[REDACTED]

Sheloh
Ohio

4E4/Dr. H.A. Miley/wm
70226

5 NOV

COORDINATION	AFOIN-4
	AFOIN-4X2b
	AFOIN-4E4
	Mr. [REDACTED]
	Shiloh,
	AFOIN-4X2c
	Ohio
	Dear Mr. [REDACTED]
	AFOIN-4X3
	AFOIN-4X4
	AFOIN-4A
	AFOIN-4B
	AFOIN-4C
AFOIN-4D	
AFOIN-4E	
AFOIN-4F	
OTHERS	

Your letter of 23 October 1957 has been received by this Center.

The return of your so-called "meteorite" will be scheduled before long. Contact will be made with you prior to the date of delivery.

Again we thank you for your cooperation.

Sincerely,

WALLACE W. ELWOOD
Captain, USAF
Assistant Adjutant

4E4 H.A. Miley 4 Nov. 57

PERM	
TEMP.	
90 DAYS	
INITIAL	

* Reclassified as result of conference between Chief, Air Weapons
Material Div. (Mr. Naylor) &
Capt. Gregory, 14 Oct 57. R
classified here.

EXAMINATION OF A STONE

A large, black stone, reported to be a stony meteorite, was received for examination, particularly from the standpoint of aerodynamic lines of flow.

The stone shows no signs of air-flow lines such as are found on meteorites. The markings visible on the surface of the stone represent material in the bedding planes of a sedimentary rock; ^{however} this material has a hardness somewhat greater than that of the matrix.

Meteorite flow lines have an appearance and arrangement that are completely different from the markings on the stone in question. On a meteorite, flow lines would not protrude so far from the surface; they would be arranged to radiate from the front and rear stagnation points. A skirt or crest region would be recognized. The front face would be smooth, with protuberances either melted off or with characteristic pits in front of them and behind them. The back face would show a typical mottled appearance due to shallow pitting. In none of these characteristics does the stone in question resemble a meteorite.

The stone is clearly of sedimentary origin. It shows bedding planes with pebbles; at least one of the planes is clearly granitic. It is concluded that the stone is indurated due to some inhomogeneity at the center, possibly a fossil, as is commonly observed in the sandstones found in the eastern part of Ohio. Weathering has removed the softer formation around the stone, leaving pebbles and intrusions between layers of the indurated sandstone, in bas relief. The matrix material is surmised to be a felspathic sandstone.

In composition, the rock does not resemble a meteorite; there is no granite in such bodies, but usually enstatite, olivine, forsterite, etc., are present. Meteorites do not contain pebbles.

~~CONFIDENTIAL~~

SUBJECT: Examination of "Stony Meteorite" (Continued)

TO: AFCIN-4E2 TO: AFCIN-4B4 DATE: 30 July 57 COMMENT NR 2
 (C. A. Naugle) (D. T. Williams)
Through: AFCIN-4B3

Attached is an informal report presenting the results of an examination of a large stone, as requested in Comment Nr 1. The examination was conducted by Drs. D. T. Williams and Charles B. Sclar, a mineralogist on our staff.

It is concluded that the stone in question is not a meteorite.

The attached report is considered to satisfy the requirements of Comment Nr 1. The stone is being returned under separate cover.

Howard C. Cross
Howard C. Cross

HCC:tr
Enclosure (4)

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

If more information on the composition of the stone is desired, a mineralogical study could be made based on a small sample broken from a side of the stone. However, it is believed that no further investigation is necessary to conclude that the stone is not a meteorite.

Institute Studies Meteorites For Missile Data

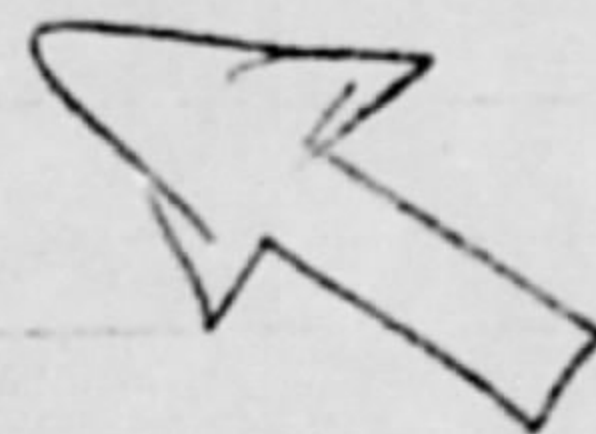
1 The remains of unguided missiles which have been bombarding earth from outer space since the beginning of time are being studied by technicians developing better guided missiles.

2 At the Battelle Institute in Columbus, working for the Wright Air Development Center, technicians are examining meteorites to see how they survived their descent to earth.

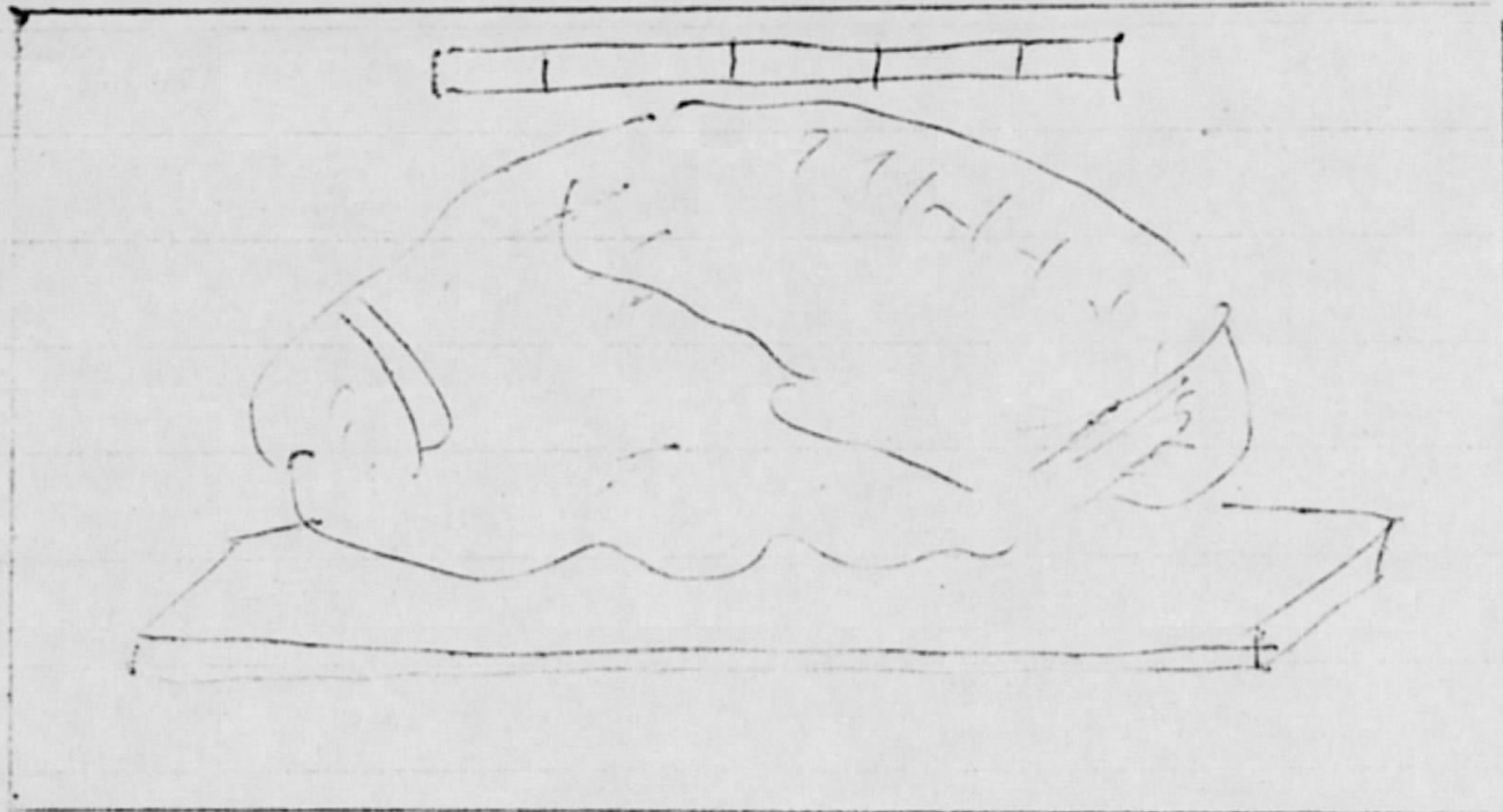
3 Guided missiles, traveling at high speeds in the friction-producing atmosphere, are subject to tremendous heat, and metallic alloys to withstand these temperatures have to be developed.

4 By subjecting the nickel and iron structures of the meteorites to microscopic analysis, they hope to be able to learn how the meteorites heated.

Battelle scientists are getting meteorites from museums and private collections.



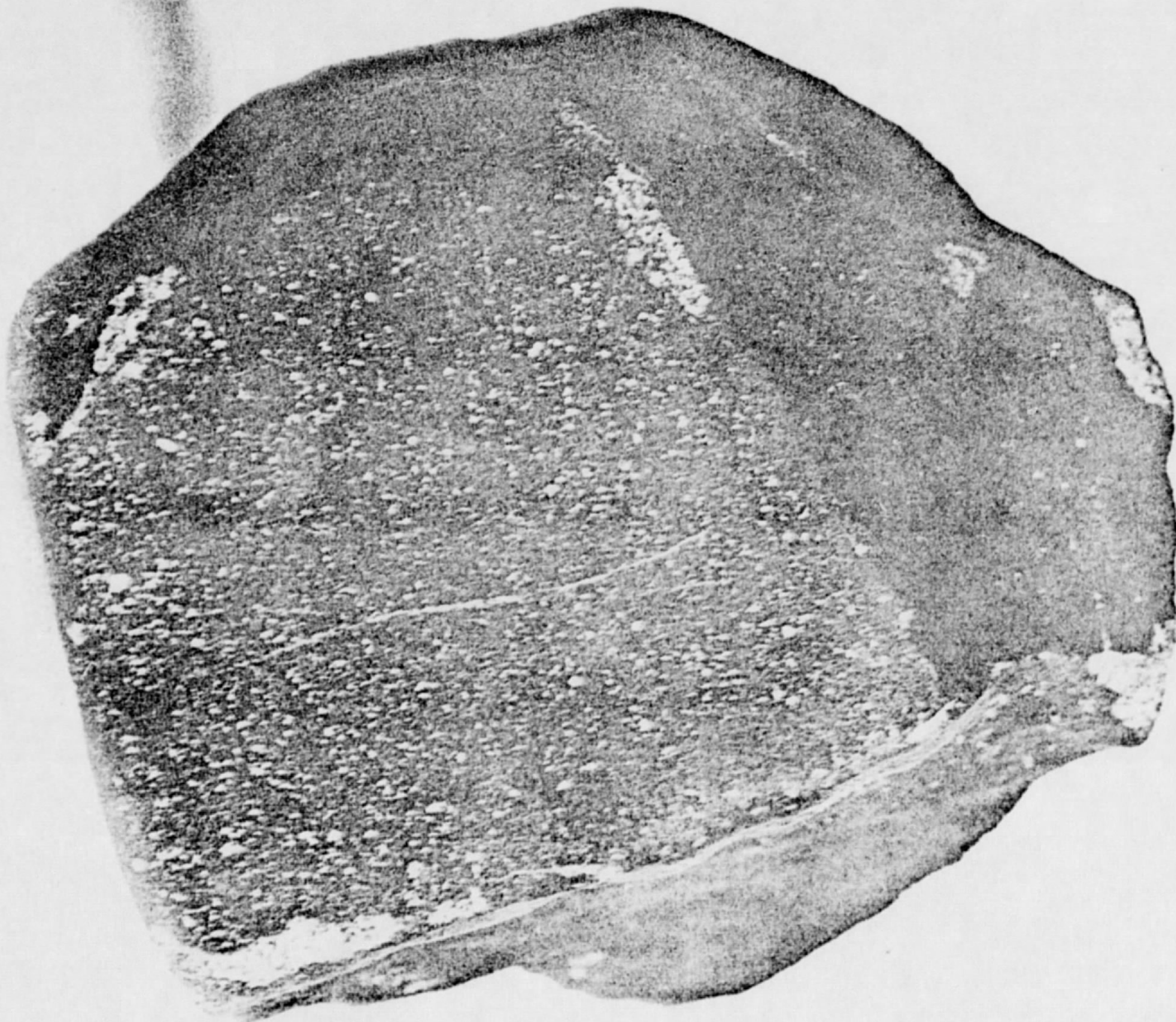
NOTE

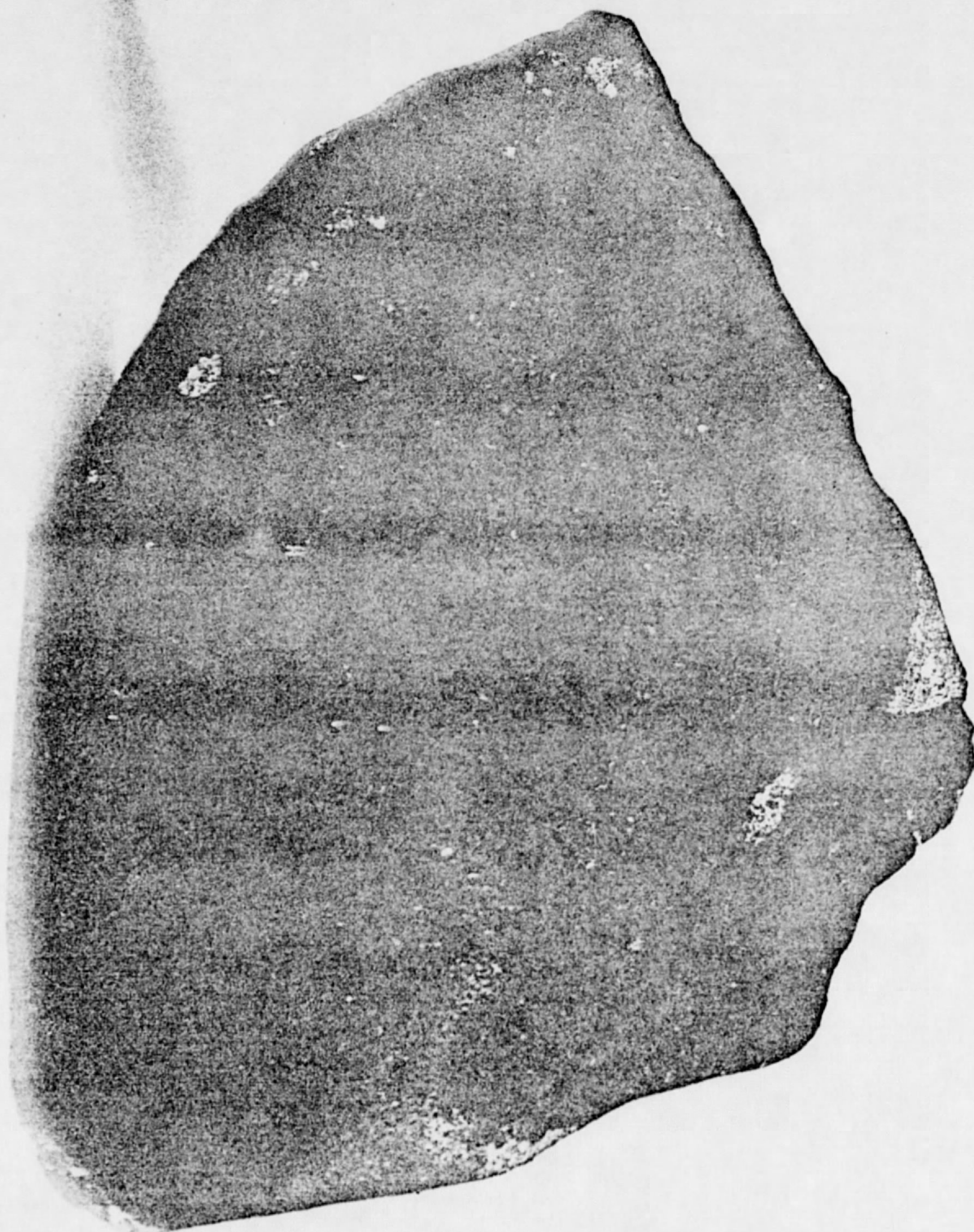
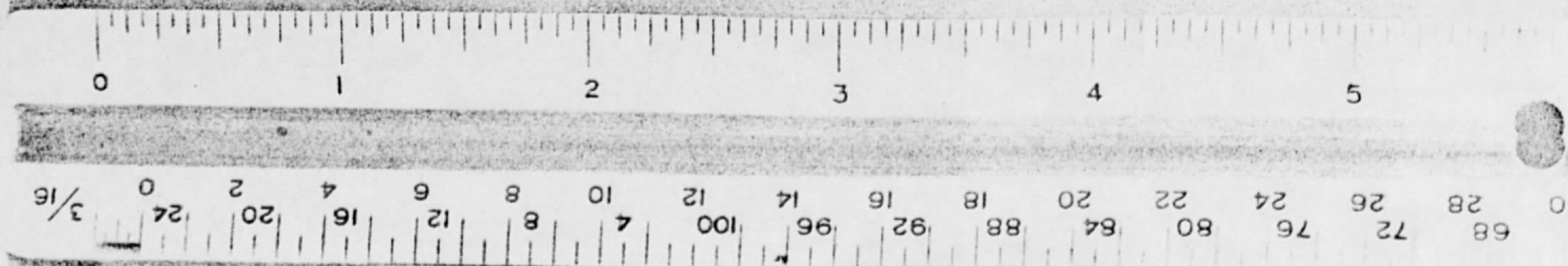


STATEMENT, COMMENT, EXPLANATION, ETC
NOT MORE THAN 9 INCHES WIDE - CAPS

This case contains 5 8"x10"
negatives and 11 8"x10" photos.

0 1 2 3 4 5
72 76 80 84 88 92 96 100 4 8 12 16 20 24 28 32







72 76 80 84 88 92 96 100 4 8 12 16 20 24 3
26 24 22 20 18 16 14 12 10 8 6 4 2 0
5 4 3 2 1 0

