PROJECT 10073 RECORD CARD

1. DATE 2 May 1957	**2. LOCATION** See also: Film 7-3745-343 Edwards AFB, California	**12. CONCLUSIONS** ☒ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☐ Other_____ ☐ Insufficient Data for Evaluation ☐ Unknown
3. DATE-TIME GROUP Local _____ GMT 02/1455Z	**4. TYPE OF OBSERVATION** ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	
5. PHOTOS ☐ Yes ☐ No	**6. SOURCE** Civilian	
7. LENGTH OF OBSERVATION 25 minutes	**8. NUMBER OF OBJECTS** one	**9. COURSE** Easterly

10. BRIEF SUMMARY OF SIGHTING

One aluminum or metallic disk shaped object the size of a basketball at arm's length. Object had translucent glow. Object traveled in an easterly direction for 25 minutes.

See Also: Film 7-3745-343

SMC

11. COMMENTS

Confirmed balloon.
See case file.

1

Director
Aerospace Studies Inst
ATTN: Archives Branch
Maxwell AFB, Alabama

RETURN TO:

AFCIN-3 6 OCT 1
6 MAY 1957

ATIC FORM 329 (REV 26 SEP 52)

Edwards AFB Calif
2 May 1957

PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION See also: Film 7-3745-343	12. CONCLUSIONS
2 May 1957	Edwards AFB, California	☒ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT 02/1455Z	**4. TYPE OF OBSERVATION** ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☒ Yes ☐ No	**6. SOURCE** Civilian	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION	**8. NUMBER OF OBJECTS** / **9. COURSE**	☐ Other _____ ☐ Insufficient Data for Evaluation ☐ Unknown
25 minutes	one / Easterly	

10. BRIEF SUMMARY OF SIGHTING

One aluminum or metallic disk shaped object the size of a basketball at arm's length. Object had translucent glow. Object traveled in an easterly direction for 25 minutes.

See Also: Film 7-3745-343

11. COMMENTS

Confirmed balloon.
See case file.

Director
Aerospace Studies Inst
AUTN: Archives Branch
Maxwell AFB, Alabama

RETURN TO:

ATIC-3.2012
MAY 1957

ATIC FORM 329 (REV 26 SEP 52)

d. Edwards AFB Case (2 May 1957):

This case received nation-wide publicity because the UFO was observed over the so-called "United States secret testing grounds", and had been photographed officially by high-speed cameras, specially designed to track aircraft and missiles, by AF personnel.

The object was observed by the camera crews, who, took a series of photographs after it had moved some distance away. They later described it as disc shaped to interrogators, after they brought the matter to the attention of others. A study 32 photographs taken, and highly magnified disclosed the object to the size of a match head, but changing shape from round to elliptical, as the early sun's rays played upon its surface. A wind pbt, correlated with the reported speed and movements of the object, practically coincided. This pointed to the object being a balloon. Further investigations not only disclosed that a balloon was released in the vicinity, but precise theodolite measurements coincided with the observer's report as to times, elevations and bearings.

This case is considered as having been improperly handled. It did not come to the attention of ATIC until well after the press had received it; the Edwards AFB PIO officer made statements to the press that it was "unknown", when investigations disclose that he was informed it was a balloon; and the local commander could have solved the case by making local inquiries of his various units.

length. A simple demonstration will quickly indicate that a basketball held in front of one's eyes at this distance will cover almost half of the visible sky, and would be an indication that the object would be tremendous in size, if as stated, observed at 5,000 feet distance. The object, in actuality, would be almost 1/2 mile wide.

b. Belief in "Flying Saucers"

(1) One observer has given strong indications that he is a believer in the so-called "flying saucers."

(2) Stated that he observed a "disc" almost half the size of a football field hanging over a house for twenty minutes. Time and place was Rosamond, California, 0930 p.m. in January '50. Files disclose no report within that general time and area.

(3) No comment is considered necessary regarding an object that size over a small town for almost one-half hour and not being seen by any other persons or aircraft, or by radar that scans that area 24 hours a day.

(4) The observers were specialists in a field of photography. It should therefore be apparent to them that even a previously known object would be difficult to estimate as being 60 miles, much less it appearing as a readily identifiable object on the prints if it could be photographed at that distance with the equipment used.

5. Conclusions: Therefore, on the basis of the above, and particularly in consideration of the factual data presented, singly or collectively, there is no compelling reason to conclude that the object was other than the balloon released only a few minutes prior to the sighting.

6. This Center considers it unfortunate that its knowledge of this incident was third-hand; it was brought to both the public and press's attention days before an unofficial UFO organization queried this Center on the sighting. Experience has proven that a denial or explanation is never given the same publicity or attention as the original story.

6 Incls
1. UFO Rpt, dtd 14 May 57
2. UFO Questionnaire (dup)
3. Photos, 25 prints
4. Time-track plot
5. Balloon Check, Edwards AFB
6. Analysis of Photos

WALLACE W. [illegible]
Captain, USAF
AFOIN-4X2a

COVER SHEET	SUSPENSE
ORIGIN OF BASIC	DATE
	ASSIGNED BY
DATE 27 May 1957 / TYPE letter	NO.

SUBJECT

Detailed Analysis of Edwards Air Force Base UFO Sighting - 2 May 1957

ROUTING

Initial "IN" column to denote review prior to action. Initial "OUT" column to denote review of completed action. (X for action; ✓ for coordination.)

IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT
	OIN-1			OIN-2			OIN-3			OIN-4			AFOIN	
	OIN-1X			OIN-2X			OIN-3X			OIN-4X			AFOIN-X	
													AFOIN-X	
													AFOIN-X1	
													AFOIN-X2	
													AFOIN-X3	
													AFOIN-X4	
													AFOIN-X5	
													AFOIN-Z	
													CABLES	
												M & R	FILE	
													DISPATCH	

TO: AFOIN-X1 (Mr. [redacted])

DATE 27 May 1957

FROM: AFOIN-4E4

COMMENT NO. 1

COMMENTS *(Use reverse, if necessary)*

AFOIN-4E4/Capt Gregory/
Ext: 70246

1. General: This analysis is based on a careful review and study of all facts and pertinent information submitted on this case. The analysis is in three basic parts:

a. Study of the observer's UFO questionnaire, the official UFO report from Edwards AFB, airborne objects known to have been in the area at the time, geographical factors, and the elements of time, elevations, bearings and meteorological conditions pertinent to the sighting.

b. Analysis of theodolite photographs submitted, with correlation to the known facts.

c. Evaluation of the sources (observers).

2. Analysis of UFO Report and Questionnaire Data:

a. UFO report, photographs, and questionnaire as accomplished by the observers was not received by this Center until 23 May 1957, (see inclosure #1, #2, and #3) and a considerable time after the incident had reached both the press and the public.

b. Reference page 3, item (11)(a) of UFO report. The attempted analysis of this sighting by the officer preparing the report to the effect that the object could

not have been a balloon is not valid. In fact, the data supplied throughout the report (exact geographical locations of balloon site, observers' positions, metro data, precise computations as to angles or elevation, bearings and altitude, among others) indicate that it is highly improbable that the object was other than a balloon.

c. A comparative analysis of the data from the UFO questionnaire and the data derived from scientific instruments and actual official time-tracks of the balloon launched indicate the following:

(1) Testimony given by both observers is that the time of their sighting was between 0755 and 0820 (see attached copy of UFO Questionnaire, Form 164).

(2) A rawinsonde balloon was released by the Edwards AFB weather station, west of the observers, at 0740 hours and accurately tracked until 0820 hours (UFO Report, 14 May 1957).

(3) Observers both estimate the bearing of the object to be 75 degrees when it first appeared, presumably at 0755.

(4) Official time-tracking of the balloon (UFO Report, 15 May 57) was as follows:

(a) 0750: True Bearing - 70 degrees

(b) 0800: True Bearing - 80 degrees

(c) 0810: True Bearing - 60 degrees

(5) Therefore, interpolating for the first two time-tracks, the bearing is exactly 75 degrees. Using an average of all three, the results are 70 degrees.

(6) Observers' state that when first observed, their estimated angle of elevation of the object was 45 degrees, and 15 degrees when it disappeared.

(7) A trigonometrical treatment of the data in the official UFO Report (paragraph 1a(11)) indicates that the angle of elevation during the periods given by the observers was approximately 30 degrees and 23 degrees respectively.

d. It hasbeen repeatedly proven that without accurate instruments and devices, a person seldom can estimate angles of elevation against the sky within 10 to 20 degrees of the actual elevations, particularly in areas other than directly overhead or on the horizon.

e. Therefore, allowing for the known inability of the average person to correctly estimate angles and time, the officially computed times, bearings and elevations of the balloon released, almost perfectly coincide with the figures given by the observers.

f. Further factual data to support hypothesis that object was balloon:

(1) Reference balloon launching site and observers' location given in UFO report. These two points are approximately 20,000 yards apart. It is significant to note that the observers were almost due east and slightly south of the balloon launching site (see sketch, inclosure #4).

(2) Reference winds aloft in UFO report. The prevailing winds at that time were blowing due east.

(3) Reference paragraph 1a(2), azimuths of first sighting. If a time-track of the balloon released, due east, is plotted from the weather station to and east of observers' location at the time given in the UFO report (which states the observers first saw the object at due north) the object would have passed exactly due north of their location (see sketch, inclosure #4).

(4) Reference paragraph 1a(11)(d) of UFO report. Object traveled in easterly direction at all times. It appeared to stand still, change shape and pulsate. These are the typical characteristics of balloons, and supported by hundreds of UFO reports found to be balloons.

g. At 1030 hours, 24 May 1957, M/Sgt O. D. Hill, NCOIC, Aerial Phenomena Group, contacted Detachment #21, 4th Weather Group, Edwards AFB, regarding further details on the balloon aspects of the case. In conversations with Major Wininger, the following were disclosed:

(1) The balloon released at 0740 on that date measures approximately 6 to 7 feet at launching, and can expand to 70 to 90 feet at 60,000 feet.

(2) Major Wininger stated that the alleged UFO was obviously this balloon.

(3) Further, Major Wininger stated that this information was given to the Information Services Officer of Edwards AFB. (M/Sgt Hill's report is attached as inclosure #5).

h. Of significance is the fact that the radar unit for that locality reported that there was no unidentified object in the air at that time.

3. Analysis of Theodolite Photographs of UFO: Based on a study and analysis of the series of theodolite photographs submitted to this Center, the following are considered comments pertinent to the incident:

a. In the UFO questionnaire, both observers report that the object was about 150 to 175 feet in diameter. Yet the object on the photographs, after being photographed and the photo enlarged 7 diameters, was scarcely larger than the width of the cross hairs.

b. It is difficult to understand why it was decided to photograph an object that was in sight for almost 30 minutes, after it was a mere speck in the sky.

c. Both observers state object 5,000 feet away when first seen, and approximately 60 miles away when last seen. A photo analysis based on the image sizes on the photos, known magnifications, focal lengths of lenses, and other data, using standard optical formulas and equations for distances up to 60 miles show that an object must be a minimum of 92 feet in diameter to be seen even as a speck at a 60 mile distance, assuming ideal atmospheric conditions and the ability of the lens to resolve the image.

d. Using a more realistic distance, 9 to 12 miles, the object would need be a minimum of 5 to 7 feet in diameter. This correlates with the diameter of the balloon actually released. (Analysis of the theodolite photography is attached; see inclosure #6).

e. It should be noted that practically half of the image sizes are .013 of a foot at their longest dimension. Plotting a number of points along the .013 line, from 60 down to 6 miles, indicates that the minimum object size discernible, ranges from approximately 80 feet to 6 feet. This correlates well with the data given this Center by the 4th Weather Group at Edwards AFB. See paragraph 2f(3) above.

f. A study of 25 consecutive enlargements reveal that the tiny white object alternately changes from elliptical (described as a disc by observers) to round in shape. No clear features are discernible. The changing shapes are generally similar to photographs taken of balloons over desert or bright daylight areas. It should be noted that the sun was due east at this time and not too far above the horizon. The effects of specular reflection of light on rounded surfaces is well known. Weird and unusual appearances can be created.

4. Comments Regarding Sources: Consistent with the principles of commenting on the source in any UFO analysis or conclusions, the following points are considered pertinent:

a. Inconsistencies

(1) In their personal report as given in the UFO questionnaire, both observers state the object was at a bearing (azimuth) of 75 degrees when first seen, and when it disappeared.

(2) The UFO report from Edwards AFB quotes the observers as saying that they first observed the object at due north, (0 degrees azimuth) and that when it disappeared, it was also at due north. All points have been resolved satisfactorily, except the last, in which both observers state (in their questionnaire) that the object disappeared to the east.

(3) In both the official UFO report and their questionnaire, they stated that the object was the size of a basketball held at arms

Film
May 2, 1957
Edwards AFB, Cal.
Gettys - Bittick
File # 1003460
In custody of Audio-Visual Division

Edwards AFB Calif
2 May 1957

PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION	12. CONCLUSIONS
2 May 1957	Edwards AFB, California	☒ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT 02/1155Z	**4. TYPE OF OBSERVATION** ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☒ Yes ☐ No	**6. SOURCE** Civilian	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 25 minutes	**8. NUMBER OF OBJECTS** one	**9. COURSE** Easterly
		☐ Other _____ ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

One aluminum or metallic disk shaped object the size of a basketball at arm's length. Object had translucent glow. Object traveled in an easterly direction for 25 minutes.

11. COMMENTS

Confirmed balloon.
See case file.

Director
Aerospace Studies Inst
ATTN: Archives Branch
Maxwell AFB, Alabama

RETURN TO:
ATIC (TIAA)
WPAFB, OHIO

ATIC FORM 329 (REV 26 SEP 52)

d. Edwards AFB Case (2 Nov 1957):

This case received nation-wide publicity because the UFO was observed over the so-called "United States secret testing grounds", and had been photographed officially by high-speed cameras, specially designed to track aircraft and missiles, by AF personnel.

The object was observed by the camera crews, who, took a series of photographs after it had moved some distance away. They later described it as disc shaped to interrogators, after they brought the matter to the attention of [illegible]. A study of photographs taken, and highly magnified disclosed the object to the size of a match head, but changing shape from round to elliptical, as the early sun's rays played upon its surface. A wind pbt, correlated with the reported speed and movements of the object, practically coincided. This pointed to the object being a balloon. Further investigations not only disclosed that a balloon was released in the vicinity, but precise theodolite measurements coincided with the observer's report as to times, elevations and bearings.

This case is considered as having been improperly handled. It did not come to the attention of AFIC until well after the press had received it; the Edwards AFB PIO officer made statements to the press that it was "unknown", when investigations disclose that he was informed it was a balloon; and the local commander could have solved the case by making local inquiries of his various units.

SHIPPING CONTAINER TALLY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

m1

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NO.
1		26 Feb 75	5-CDV-719

1. FROM: Hq AAVS/DOSDR/BLDG 248
Norton AFB, CA 92409

2. TO: Secretary of the Air Force/OIPL
Washington, DC 20330

7. DATE MATERIEL REQUIRED:

8. PRIORITY:

9. AUTHORITY OR PURPOSE: Telecon from Capt Kuninecz

10. SIGNATURE:

11a. VOUCHER NUMBER AND DATE:

3. SHIP TO - MARK FOR: M/F Capt Kuninecz

12. DATE SHIPPED: 2/26/75

b. VOUCHER NUMBER AND DATE:

13. MODE OF SHIPMENT: Air Mail

14. BILL OF LADING NUMBER:

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER:

4. ACCOUNTING AND FUNDING DATA

Project 65/E-400 TERMINATION

a ITEM NO.	b FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES	c UNIT OF ISSUE	d QUANTITY REQUESTED	e SUPPLY ACTION	f TYPE CONTAINER	g CONTAINER NOS.	h UNIT PRICE	i TOTAL COST
	Seven (7) rolls of UFO film as follows: K243.6012-1 1 Aug 65 Topeka, KS No 1 7-3745-338, 2 May 57 Edwards AFB #1 7-3745-343, 1 Aug 65 Topeka, KS No 2 7-3745-339; 6-7 Oct 62 Naha, Okinawa 7-3745-437; 1 Mar 66 Australian Life Photos 7-3745-472 and 2 Aug 65 Tulsa, Ok 7-3745-473 Copy of receipt sent to Simpson Historical Research Center Maxwell AFB AL.							

IMPORTANT
TO AVOID TRACER ACTION
Please Sign and Return This Copy Within 24 Hours

16. TRANSPORTATION VIA MATS OR MSTS CHARGEABLE TO

17. SPECIAL HANDLING

RECAPITULATION OF SHIPMENT

18.	ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
	Marvyn J. Lester					
	CHECKED BY					
	Donald Loucks					
	PACKED BY					
			←	TOTAL →		

RECEIPT

19.		DATE	BY	
	CONTAINERS RECEIVED EXCEPT AS NOTED			SHEET TOTAL
	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
	POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO.

DD FORM 1 MAR 58 1149 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED

EDWARDS AFB, CA

2 MAY 57

CASE CONTAINS 35 mm

FILM IN FOLLOWING FOLDER

64-0075

SUBJECT: Detailed Analysis of Edwards Air Force Base UFO Sighting - 2 May 57

TO: Directorate of Intelligence
Headquarters, USAF
ATTN: AFOIN-X1
(Mr. Sanderson)

1. General: This analysis is based on a careful review and study of all facts and pertinent information submitted on this case. The analysis is in three basic parts:

a. Study of the observer's UFO questionnaire, the official UFO report from Edwards AFB, airborne objects known to have been in the area at the time, geographical factors, and the elements of time, elevations, bearings and meteorological conditions pertinent to the sighting.

b. Analysis of theodolite photographs submitted, with correlation to the known facts.

c. Evaluation of the sources (observers).

2. Analysis of UFO Report and Questionnaire Data:

a. UFO report, photographs, and questionnaire as accomplished by the observers was not received by this Center until 23 May 1957, (see inclosure #1, #2, and #3) and considerably after the incident had reached both the press and the public.

b. Reference page 3, item (11)(a) of UFO report. The attempted analysis of this sighting by the officer preparing the report to the effect the object could not have been a balloon is not valid. In fact, the data supplied throughout the report (exact geographical locations of balloon site, observers' positions, metro data, precise computations as to angles or elevation, bearings and altitude, among others) indicate that it is highly improbable that the object [redacted] was other than a balloon.

c. A comparative analysis of the data from the UFO questionnaire and the data derived from scientific instruments and actual official time-tracks of the balloon launched indicate the following:

(1) Testimony given by both observers is that the time of their sighting was between 0755 and 0820 (see attached copy of UFO Questionnaire, Form 164).

(2) A rawinsonde balloon was released by the Edward AFB weather station, west of the observers, at 0749 hours and accurately tracked until 0810 hours (UFO Report, 14 May 1957).

(3) Observers both estimate the bearing of the object to be 75 degrees when it first appeared, presumably at 0755.

(4) Official time-tracking of the balloon (UFO Report, 15 May 57) was as follows:

(a) 0750: True Bearing - 70 degrees

(b) 0800: True Bearing - 80 degrees

(c) 0810: True Bearing - 60 degrees

(5) Therefore, interpolating for the first two time-tracks, the bearing is exactly 75 degrees. Using an average of all three, the results are 70 degrees.

(6) Observers' state that when first observed, their estimated angle of elevation of the object was 45 degrees, and 15 degrees when it disappeared.

(7) A trigonometrical treatment of the data in the official UFO Report (paragraph 1a(11)) indicates that the angle of elevation during the periods given by the observers was approximately 30 degrees and 23 degrees respectively.

d. It has been repeatedly proven that without accurate instruments and devices, a person seldom can estimate angles of elevation against the sky within 10 to 20 degrees of the actual elevations, particularly in areas other than directly overhead or on the horizon.

e. Therefore, allowing for the known inability of the average person to correctly estimate angles and time, the officially computed times, bearings and elevations of the balloon released, almost perfectly coincide with the figures given by the observers.

f. Further factual data to support hypothesis that object was balloon:

(1) Reference balloon launching site and observers' location given in UFO report. These two points are approximately 20,000 yards apart. It is significant to note that the observers were almost due east and slightly south of the balloon launching site (see sketch, inclosure #4).

(2) Reference winds aloft in UFO report. The prevailing winds at that time were blowing due east.

(3) Reference paragraph 1a(2), azimuths of first sighting. If a time-track of the balloon released, due east, is plotted from the weather station to and east of observers' location at the time given in the UFO report (which states the observers first saw the object at due north) the object would have passed exactly due north of their location (see sketch, inclosure #4).

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g. At 1030 hours, 24 May 1957, M/Sgt O. D. Hill, NCOIC, Aerial Phenomena group, contacted Detachment #21, 4th Weather Group, Edwards AFB, regarding further details on the balloon aspects of the case. In conversations with Major Wininger, the following were disclosed:

(1) The balloon released at 0740 on that date measures approximately 6 to 7 feet at launching, and can expand to 70 to 90 feet at 60,000 feet.

(2) Major Wininger stated that the alleged UFO was obviously this balloon.

(3) Further, Major Wininger stated that this information was given to the Information Services Officer of Edwards AFB. (M/Sgt Hill's report is attached as inclosure #5.)

3. Analysis of Theodolite Photographs of UFO: Based on a study and analysis of the series of theodolite photographs submitted to this Center, the following are considered comments pertinent to the incident:

a. In the UFO questionnaire, both observers report that the object was about 150 to 175 feet in diameter. Yet the object on the photographs, after being photographed and the photo enlarged 7 diameters, was scarcely larger than the width of the cross hairs.

b. It is difficult to understand why it was decided to photograph an object that was in sight for almost 30 minutes, after was a mere speck in the sky.

c. Both observers state object 5,000 feet away when first seen, and approximately 60 miles away when last seen. A photo analysis based on the image sizes on the photos, known magnifications, focal lengths of lenses, and other data, using standard optical formulas and equations for distances up to 60 miles show that an object must be a minimum of 92 feet in diameter to be seen even as a speck at a 60 mile distance, assuming ideal atmospheric conditions and the ability of the lens to resolve the image.

d. Using a more realistic distance, 9 to 12 miles, the object would need be a minimum of 5 to 7 feet in diameter. This correlates with the diameter of the balloon actually released. (Analysis of the theodolite photography is attached; see inclosure #6).

e. It should be noted that practically half of the image sizes are .013 [redacted] feet at their longest dimension. Plotting a number of points along

the .013 line, from 60 down to 6 miles, indicates that the minimum object size discernible, ranges from approximately 80 feet to 6 feet. This correlates well with the data given this Center by the 5th Weather Group at Edwards AFB. See paragraph 2f(3) above.

f. A study of 25 consecutive enlargements reveal that the tiny white object alternately changes from elliptical (described as a disc by observers) to round in shape. No clear features are discernible. The changing shapes are generally similar to photographs taken of balloons over desert or bright daylight areas. It should be noted that the sun was due east at this time and not too far above the horizon. The effects of specular reflection of light on rounded surfaces is well known. Weird and unusual appearances can be created.

4. Comments Regarding Sources: Consistant with the principles of commenting on the source in any UFO analysis or conclusions, the following points are considered pertinent:

a. Inconsistencies

(1) In their personal report as given in the UFO questionnaire, both observers state the object was at a bearing (azimuth) of 75 degrees when first seen, and when it disappeared.

(2) The UFO report from Edwards AFB quotes the observers as saying that they first observed the object at due north, (0 degrees azimuth) and that when it disappeared, it was also at due north. All points have been resolved satisfactorily, except the last, in which both observers state (in their questionnaire) that the object disappeared to the east.

(3) In both the official UFO report and their questionnaire, they stated that the object was the size of a basketball held at arms length. A simple demonstration will quickly indicate that a basketball held in front of one's eyes at this distance will cover almost half of the visible sky, and would be an indication that the object would be tremendous in size, if as stated, observed at 5,000 feet distance. The object, in actuality, would be almost a 1/2 mile wide.

b. Belief in "Flying Saucers"

(1) One observer has given strong indications that he is a believer in the so-called "flying saucers."

(2) Stated that he observed a "disc" half the size of a football field hanging over a house for twenty minutes. Time

and place was Rosamond, California, 0930 P.M. in Januray 50. Files disclose no report within that general time and area.

(3) No comment is considered necessary regarding an object that size over a small town for almost one-half hour and not being seen by any other persons or aircraft, or by radar that scans that area 24 hours a day.

(4) The observers were specialists in a field of photography. It should therefore be apparent to them that even a previously known object would be difficult to estimate as being 60 miles, much less it appearing as a readily identifiable object on the prints if it could be photographed at that distance with the equipment used.

5. Conclusions: Therefore, on the basis of the above, and particularly in consideration of the factual data presented, singly or collectively, there is no compelling reason to conclude that the object was other than the balloon released nearly a few minutes prior to the sighting.

6. This Center considers it unfortunate that its knowledge of this incident was third-hand; it was brought to both the public and press's attention days before an unofficial UFO organization queried this Center on the sighting. Experience has proven that a denial or explanation is never given the same publicity or attention as the original story. ~~Where denials and explanations, supported by facts, are attempted, they are often found to be unacceptable.~~

GEORGE T. GREGORY
Captain, USAF

COORDINATION:

AFOIN-4D2a H.W. Pruett DATE 27 May 57
Maj William F. Willner

AFOIN-4E1 _____ DATE _____ ← Suggest slight revision
Dr Henry A. Miley

AFOIN-4E _____ DATE _____
Col H. K. Gilbert

AFOIN-4X1 _____ DATE _____
Mr. F. A. Arcier

43

[redacted]
Denver 8, Colorado
August 20, 1957

Dear Sir:

I am a member of the NATIONAL INVESTIGATIONS COMMITTEE ON AERIAL PHENOMENA, and my interest in flying saucers is very great.

About the sighting of a UFO photographed at Edwards Air Force Base May 3 by two theodolite operators at the test center. Officials at Edwards have admitted the UFO was tracked by special camera equipment, and that the films were immediately dispatched to Air Technical Intelligence Center in Dayton, Ohio.

Well, to me, the films of the UFO should be sensational. I would like to know what ATIC thinks about the films? If they do show that UFO's exist when will the public be told?

Also I have learned that well-known magazine writer was assigned by a national magazine to do an unbiased, objective and straightforward reporting piece on the truth about flying saucers from the standpoint of the Air Force. But he was turned down by ATIC at Dayton.

I just can not understand why ATIC turned down the offer to print "the truth about flying saucers?" For once the public could have got a break and learned some "true facts" about the saucers, for this new evidence of an official censorship on UFO information is getting to be more fantastic than the UFO's. My "god" when will the American public ever be "told" the tremendous facts concerning the UFO?

Most Sincerely,

[redacted]

AIR TECHNICAL INTELLIGENCE CENTER
Wright-Patterson Air Force Base
Dayton, Ohio

ROUTING / COORDINATION

AFOIN-4

AFOIN-4X2b

AFOIN-4X2c

AFOIN-4X3

AFOIN-4X4

AFOIN-4A

AFOIN-4B

AFOIN-4C

AFOIN-4D

AFOIN-4E

AFOIN-4F

OTHERS

C O PY

FILE CLASS: _____
OFFICIAL FILE COPY
Oct 2-5
OFFICE OF RECORD

29 AUG 1957

AFCIN-4X3/Mr Hieatt/dmt/55266

Mr. [redacted]
[redacted] Street
Denver 8, Colorado

Dear Mr. [redacted]-

The UFO photographed at Edwards Air Force Base in May was a balloon which had been released at a nearby launching site.

The Air Force does not have sufficient personnel to furnish detailed information from thousands of case files to the many persons who wish to write for profit on the subject of UFO's. Any attempt to furnish such details would seriously curtail the essential operations of our intelligence units, and would require an unwarranted expenditure of public funds. You may recall however, that some time ago the Air Force, in the interest of public information, cooperated with the national magazines, Life and Saturday Evening Post, in the preparation of articles on the subject of UFO's.

Sincerely,

WALLACE W. ELWOOD
Captain, USAF
Assistant Adjutant

COORDINATION: [signature] DATE 28 Aug 57
AFCIN-4X3

[signature] DATE 28 Aug 57
AFCIN-4E4

DISPATCHED

PERM	
TEMP	
90 DAYS	
INITIAL	

ATIC FORM 144 (REV 20 FEB 56) ROUTING AND COORDINATION SHEET AF-WP-O-30 NOV 56 25M

ROUTING — COORDINATION

AFOIN-4
AFOIN-4X2b
AFOIN-4X2c
AFOIN-4X3
AFOIN-4X4
AFOIN-4A
AFOIN-4B
AFOIN-4C
AFOIN-4D
AFOIN-4E
AFOIN-4F
OTHERS

FILE CLASS: _____
OFFICIAL FILE COPY
Sec 2-5
OFFICE OF RECORD

C O PY

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2 f 18

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COORDINATION: [signature] DATE 28 Aug 57
AFCIN-4X3

[signature] DATE 28 Aug 57
AFCIN-4E4

DISPATCHED
VHC 52 10 00 21
VLIC

PERM	
TEMP	
90 DAYS	
INITIAL	

1952

COVER SHEET

SUSPENSE

ORIGIN OF BASIC

DATE

ASSIGNED BY

DATE | TYPE | NO.

SUBJECT

Suggested Reply - Letter from "Flying Saucers - International" on Edwards AFB Incident

ROUTING

Initial "IN" column to denote review prior to action. Initial "OUT" column to denote review of completed action. (X for action; ✓ for coordination.)

IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT	IN	OFFICE	OUT
	OIN-1			OIN-2			OIN-3			OIN-4			AFOIN	
	OIN-1X			OIN-2X			OIN-3X			OIN-4X			AFOIN-X	
													AFOIN-X	
													AFOIN-X1	
													AFOIN-X2	
													AFOIN-X3	
													AFOIN-X4	
													AFOIN-X5	
													AFOIN-Z	
													CABLES	
												M & R	FILE	
													DISPATCH	

TO: AFOIN-X1, Maj Byrnes

DATE: 4 June 1957

FROM: AFOIN-4

COMMENT NO.: 1

COMMENTS *(Use reverse, if necessary)*

AFOIN-4E4/Capt G.T. Gregory/69216

1. Reference D/I-ATIC conference, 5 March 1957, on the UFO Program, regarding the recommendations made by your office that UFO correspondence of potentially dangerous or controversial nature, publicity wise, should be reviewed by the Directorate, and that it be released over the signature of Headquarters USAF, preferably the Office of Information Services.

2. Accordingly, attached is a suggested reply to subject UFO organization's request for the film and information on the recent Edwards AFB incident. It is interesting to note that the Center did not receive the photos and UFO reports, until more than two weeks after the date of the request.

3. A detailed analysis of this case was just completed, and forwarded to your office. The original film is in repository with the UFO files. Any decision to release the film and detailed data to this organization must come from higher levels. In our opinion, any exception made in favor of one individual or organization will undoubtedly result in a flood of requests from the others. The suggested reply was drafted with this in mind.

AFHQ 0-86, 4 Jun 57, Subj: Suggested Reply - Ltr fr "Flying Saucers - International" on Edwards AFB Incident

4. Please be informed that Mr. [redacted] the director of this organization has just completed a book entitled "Flying Saucers," which is now on the market. It is particularly vitriolic, and contains a statement by a former UFO project officer, Capt Ruppelt repudiating the Air Force findings. A copy with appropriate comments and notations will be forwarded.

1 Incl
Draft - Suggested Reply

Wallace W. Kellwood
WALLACE W. KELWOOD
Captain, USAF
AFOIN-4X2a

[redacted]

3 MAY 58
C 4,1 P

SAFIS-3/Maj Tacker/jd/73328

14 April 1958

Dear Mr. [redacted]

Captain Marley has requested that we answer your letter of 11 March 1958, since some of the information you request is in our area of responsibility.

First, regarding your request for the procedure to procure stock footage from the military services for motion picture films -- footage may be purchased by representative of recognized motion picture and television agencies, on the basis of scripts submitted to the Department of Defense and approved in advance of film production. Approved scripts are forwarded to the appropriate film depository where the producer may select for purchase such footage as is commensurate with the production of the specific script.

I should caution you again, that good motion picture footage of UFO is not available from any official sources. As was pointed out in earlier correspondence, exhaustive research was conducted by and for the producers of the Armstrong Circle Theatre with no success in finding even a small piece of film that would register on a television screen.

If you will re-read your correspondence, dated 11June 1957, from Major Robert F. Spence, you will note that there is not any mention of motion picture footage of the Edwards incident. I should also add, since you cited Mr. Ruppelt's book, that it was cleared only for security purposes and in fact a disclaimer for factual accuracy was made at that time by the Department of Defense.

Sincerely,

LAWRENCE J. TACKER
Major, USAF
Executive Officer
Public Information Division
Office of Information Services

Mr. [redacted]
Director
Flying Saucers International
[redacted] Drive
Los Angeles 19, California

COMEBACK-SAFIS-3
READER-SAFIS-1
STAYBACK-SAFIS-3

1420 S. Alugsiay [illegible]
Los Angeles 19, Calif.

March 11, 1958

Captain Wallace C. Marley, USA
Production Branch
Audio-Visual Division, OPI, OASD(PA)
Office of the Assistant Secretary of Defense
Washington 25, D. C.

Dear Captain Marley:

Thank you for your cordial and informative communication of 28 February. Your continued cooperation - and patience - is appreciated.

Naturally, I shall keep in touch with your office as the script to my projected documentary progresses. However, the narrative will gradually develope as the material for the production is successively screened, edited and timed. Therefore, much of script of this post-narrated film will depend precisely on what film is available, including the stock footage to be made available by the Department of Defense.

So you can see that I am in a rather nebulous position at the moment. But I am certain that time will resolve everything. I would wonder if you would be kind enough to tell me just what the purchase of stock footage entails? Thank you.

There is another point that I wish you would clarify. With reference to my inquiry into the availability of four motion pictures of UFO's reportedly in the possession of the Air Force, you responded: "...The specific footage that you have requested has been checked by the Department of the Air Force and there is no record of its existence."

This reply has me a bit mystified. One of the films about which I inquired was allegedly taken by a cine-theodolite crew at Edwards AFB, Calif., on 3 May, 1957, and I have a letter from Major Robert F. Spence, USAF, describing the film in some detail.

As to the gun-camera shot near Wright-Patterson AFB on 20 August, 1952, let me here quote the caption to frames from this movie as reproduced in True Magazine for December 1952: "Hovering object that was scanned by radar and seen by ground watchers was caught on film by a climbing jet pilot. These unretouched [illegible] gun-camera movie frames released to TRUE by the Air Force,

1420 S. Ridgeley Dr. 19
Los Angeles 19, Calif.

March 11, 1958

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Audio-Visual Division, OPI, OASD(PA)
Office of the Assistant Secretary of Defense
Washington 25, D. C.

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As to the gun-camera shot near Wright-Patterson AFB on 20 August, 1952, let me here quote the caption to frames from this movie as reproduced in True Magazine for December 1952: "Hovering object that was scanned by radar and seen by ground watchers was caught on film by a climbing jet pilot. These unretouched 35 mm. gun-camera movie frames, released to TRUE by the Air Force, were taken at 30,000 feet, near Wright Field, at 11 a.m. on August 20, 1952." From the appearance of the enlarged frames, I believe the movie was shot on 16mm and not 35mm film.

And the White Sands cine-theodolite films were referred to by Edward J. Ruppelt, Capt., USAFR, former chief of Project Blue Book in his book, The Report on Unidentified Flying Objects (p. 279: "...We had or knew about four strips of movie film that fell into the 'Unknown' category. Two were the cinetheodolite movies that had been taken at White Sands Proving Ground in April and May of 1950..."). Capt. Ruppelt's book was supposedly cleared by DOD Security and Review on 5 December, 1955.

Again, thank you for your cooperation in this matter.

Sincerely,

[redacted]

[redacted]

9 MAY 57

CALIF.

11 June 1957

Dear Mr. [redacted]

We are in receipt of your letter dated 10 May 1957 requesting photographic prints and a copy of the photo-analysis report made on a UFO recently reported over Edwards Air Force Base, California.

We feel certain that you will understand that it would be extremely difficult to make exceptions for one person by granting him access to official files, reports and photographic material on this subject without making them available to all.

Any attempt to meet the individual demands of the hundreds who may desire specific reports and material would be an almost impossible undertaking; the man hours and cost would be exorbitant; and, most important, the constant interference with the Air Force's normal missions and operations would be unjustified.

Notwithstanding this, reply to your correspondence was withheld pending a complete study of the photographs and other data from investigations, in order that we may give you some general results of our findings. Briefly, please be informed of the following:

a. The alleged UFO was conclusively identified as a balloon released from a weather unit a few miles west of the observer's location.

b. This was corroborated by an independent report which disclosed that this balloon was being tracked at that time with precision recording devices. The data show that the balloon passed the observer's location at almost the precise time, bearings, elevations and speed reported by them.

c. The radar unit for that area reported that there was nothing unusual or unidentified in the air over Edwards Air Force Base at the times in question.

d. Objects in the photographs, even after magnification, were found to be small white specks, alternately changing from elliptical

SAFIS-3c/Maj Spence/jmd/55809

to round in shape. These are typical of a number of similar reports received by the Air Force, which upon investigation were found to be balloons, the odd appearances being caused by specular reflection of sunlight and other atmospheric conditions peculiar to desert regions.

It is the opinion of the Air Force that any attempt to attribute anything unusual or mysterious to the incident is unwarranted and not supported by the facts.

Sincerely,

ROBERT F. SPENCE
Major, USAF
Deputy Chief, Operations Branch
Public Information Division
Office of Information Services

Mr. [redacted]
Director
Flying Saucers International
[redacted]
Los Angeles 35, California

OSVA
OFFICE OF INFO SERVICES

JUL 11 13 35

2

CM1

COMEBACK-SAFIS-3c
READER-SAFIS-1
STAYBACK-SAFIS-3c

FLYING SAUCERS INTERNATIONAL
P. O. Box 35034 — Los Angeles 35, California
Telephone WEbster 8-9990

May 10, 1957

Brigadier General Harold E. Watson
Commander
Air Technical Intelligence Center
Dayton, Ohio

Dear General Watson:

On Thursday, May 9, 1957, The Los Angeles Times reported the following:

"AIR FORCE STUDIES PHOTOS --- Cameras Track Flying Object Over Desert ---

"Camera Studies of an unidentified flying object photographed at Edwards Air Force Base last Friday are being analyzed by the Air Technical Intelligence Center at Wright-Patterson AFB, Dayton, O., The Times learned yesterday.

"Spokesmen at the secret desert test center north of Los Angeles would say only that the object was spotted by two civilian photo theodolite operators.

"They tracked the object and took pictures with the specialized camera equipment. Films and information were dispatched immediately to the intelligence center.

"Unofficial reports said the object appeared round, that it caught the morning sun and that it moved but not at any great speed. There were no estimates as to its size or altitude.

"Edwards officers would not hazard a guess as to what the object was, although one said it could have been a weather balloon.

"'This desert air does crazy thing,' he said."

A request is hereby made for prints from the negative film shot of the UFO. If this is prohibited by costs, I will compensate the Air Force for the expense involved for such duplication. If the ATIC wishes to retain the film, I will be happy to observe it on a short-loan basis, or through the local USAF OPI.

Also, the writer hereby requests a copy of the photo-analysis made - or to be made - by ATIC of this film. I feel that such cooperation between the Air Force and a civilian organization may initiate better public relations and create or enhance the public's understanding of USAF with reference to UFO research.

"I will shew wonders in the heavens . . ." —JOEL 2:30

Thank you for your cooperation in this matter.

An early reply will be gratefully appreciated.

Sincerely,

[redacted]

Director
FLYING SAUCERS INTERNATIONAL

Information Only
Source: CSI Bulletin # 20, 25 July 57

3 May 1957
Edwards AFB, Calif.

EDWARDS AFB PHOTOGRAPHS UFO

May 3, 1957: An unidentified object was spotted by two civilian photo-theodolite operators at Edwards Air Force Base in California. They tracked the object and took pictures with the "specialized camera equipment;" results were dispatched immediately to Wright-Patterson AFB at Dayton, Ohio. Unofficial reports said the object appeared round, that it caught the morning sun, and that its speed was not great. There were no estimates as to its size of altitude. Edwards officers would not hazard a guess as to what the object was, although one said it could have been a weather balloon. "This desert air does crazy things," he added. — L. A. Times, 5/9; N. Y. Journal-American, 5/10 (INS). (Credit: Mrs. Idabel Epperson, of L.A., for California clipping.)

MEMO ROUTING SLIP	NEVER USE FOR APPROVALS, DISAPPROVALS, CONCURRENCES, OR SIMILAR ACTIONS		
1 NAME OR TITLE Mr Arcier	INITIALS		CIRCULATE
ORGANIZATION AND LOCATION AFOIN-4X	DATE		COORDINATION
2			FILE
			INFORMATION
3			NECESSARY ACTION
			NOTE AND RETURN
4			SEE ME
			SIGNATURE

REMARKS

1. Per your instructions "immediate attention" tag given this.
2. This completes the last of the 5 UFO cases requested by D/I.
3. Request pre-coordination of drafts to preclude retyping after official coordination by intermediate channels have been made.
4. Desirable that the "[redacted]" answer get to D/I together with the analysis of the Edwards AFB case, as they are related topics.
5. Edw. AFB analysis was prepared in accordance with standard ATIC format - but was inadvertantly typed on a HQ USAF cover sheet.

FROM NAME OR TITLE Capt G.T. Gregory	DATE 4 May 59
ORGANIZATION AND LOCATION 4E4	TELEPHONE 69216

DD FORM 1 FEB 50 95 Replaces DA AGO Form 895, 1 Apr 48, and AFHQ Form 12, 10 Nov 47, which may be used.

16—48487-4 OPO

MEMO ROUTING SLIP

NEVER USE FOR APPROVALS, DISAPPROVALS, CONCURRENCES, OR SIMILAR ACTIONS

	INITIALS		
1 NAME OR TITLE ~~Maj Willner~~	AW		CIRCULATE
~~ORGANIZATION~~ AND LOCATION 4D2a	DATE 20 May '57		COORDINATION 1-4
2 Dr. Miley	Hm		FILE 5
4E4	5/23		INFORMATION
3 Col Gilbert			NECESSARY ACTION
4E			NOTE AND RETURN
4 Mr. Arcier			SEE ME
4X1			SIGNATURE

REMARKS

5. Capt Gregory
4E4

1- The Edwards UFO Case which has been given publicity by the press and wire services, and on which Gen. Lewis personally requested AFOIN-X to have ATIC get in it immediately. The Press has queried on CSAF two separate instances on this case.

2. Coordination signature blocks on last page of top copy.

FROM NAME OR TITLE	DATE
Capt Gregory	
ORGANIZATION AND LOCATION 4E4	TELEPHONE 70246

DD FORM 1 FEB 50 95 Replaces DA AGO Form 895, 1 Apr 48, and AFHQ Form 12, 10 Nov 47, which may be used.

16—48487-4 GPO ☆

ROUTING	COORDINATION
AFOIN-4	
AFOIN-4X1	Suggested Reply - Letter from "Flying Saucers - International" on Edwards AFB Incident
AFOIN-4X2c	
AFOIN-4X3	
AFOIN-4X4	
AFOIN-4A	
AFOIN-4B	
	AFOIN-X1, Maj Byrnes
	AFOIN-4
AFOIN-4C	
AFOIN-4E	
AFOIN-4F	
OTHERS	

FILE CLASS: _____
OFFICIAL FILE COPY

_____
__OFFICE OF RECORD

4 June 1957

1

AFOIN-4E4/Capt G.T. Gregory/69216

1. Reference D/I-ATIC conference, 5 March 1957, on the UFO Program, regarding the recommendations made by your office that UFO correspondence of potentially dangerous or controversial nature, publicity wise, should be reviewed by the AFOIN-4 Directorate, and that it be released over the signature of Headquarters USAF, preferably the Office of Information Services.

2. Accordingly, attached is a suggested reply to subject UFO organization's request for the film and information on the recent Edwards AFB incident. It is interesting to note that the Center did not receive the photos and UFO reports, until more than two weeks after the date of the request.

3. A detailed analysis of this case was just completed, and forwarded to your office. The original film is in repository with the UFO files. Any decision to release the film and detailed data to this organization must come from higher levels. In our opinion, any exception made in favor of one individual or organization will undoubtedly result in a flood of requests from the others. The suggested reply was drafted with this in mind.

PERM	
TEMP	
90 DAYS	
INITIAL	

EDWARDS AFB CASE
2 MAY, 1957

FILE CLASS: _____
OFFICIAL FILE COPY

OFFICE OF RECORD

AFOIN-2		
	COORDINATION	
	AFOIN-4	4 Jun 57, Subj: Suggested Reply - Ltr fr "Flying Saucers - International" on Edwards AFB Incident
		1. Please be informed that Mr. [redacted] the director of this organization has just completed a book entitled "Flying Saucers," which is now on the market. It is particularly vitriolic, and contains a statement by a former UFO project officer, Capt Ruppelt repudiating the Air Force findings. A copy with appropriate comments and notations will be forwarded.
AFOIN-4X2b		
AFOIN-4X2c		
AFOIN-4X3		Suggested Reply
AFOIN-4X4		
AFOIN-4A		
AFOIN-4B		
AFOIN-4C		
AFOIN-4D		
AFOIN-4E		
1	4E4	T. Gregory 4 June 57
2	4E4	H. Hawley 4 June 57
AFOIN-4F		
OTHERS		

WALLACE W. ELWOOD
Captain, USAF
AFOIN-4X2a

PERM	
TEMP	
90 DAYS	
INITIAL	

ATIC FORM 144 (REV 20 FEB 56) ROUTING AND COORDINATION SHEET AF-WP-O-30 NOV 56 25M

TWX

Det 21, 4th Weather Group
Hqs Air Force Ft Test Center
Edwards AFB, California

Request information concerning any balloon launchings between 0700 to 0830 hours on 2 May 1957 involving large plastic balloons of 45 to 75 foot size. Information available here indicates your unit may use, or have knowledge of tests involving such balloons. Also winds aloft, data from your records from 1500 to 5000 ft for this time period, to include knowledge of any other balloons released, or known to have been in your area. Weekly track charts from 1110 Sup Gp, Hedcom, USAF, show balloon S-321, from Vernallis, passed north your area, moving west to east on same date. Immediate reply desirable.

Long-distance phone call made to this unit by M/Sgt Hill, NCOIC, Aerial Phenomena Group at 1030 hrs, 24 may 1957. Report on results of query attached. See attached report by M/Sgt Hill.

G E G

Declassified

INFORMATION REGARDING THIS CASE REQUESTED IN TELEGRAM TO GEN KELLY 21 May 1957 BY KEYHOE

2. THE SIGHTING OF A UFO PHOTOGRAPHED AT EDWARDS AIR FORCE BASE, MAY 3, BY TWO THEODOLITE OPERATORS AT THE TEST CENTER. OFFICIALS AT EDWARDS HAVE ADMITTED THE UFO WAS TRACKED BY SPECIAL CAMERA EQUIPMENT, AND THAT THE FILMS WERE IMMEDIATELY DISPATCHED TO AIR TECHNICAL INTELLIGENCE CENTER, DAYTON.

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

This questionnaire has been prepared so that you can give the U. S. Air Force as much information as possible concerning the unidentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will be used for research purposes, and will be regarded as confidential material. Your name will not be used in connection with any statements, conclusions, or publications without your permission. We request this personal information so that, if it is deemed necessary, we may contact you for further details.

1. When did you see the object?

2	May	1957
Day	Month	Year

2. Time of day: 07 (Hour) 55 (Minutes)

(Circle One): (A.M) or P.M.

3. Time zone:

(Circle One): a. Eastern
b. Central
c. Mountain
(d. Pacific)
e. Other _____

(Circle One): (a. Daylight Saving)
b. Standard

4. Where were you when you saw the object?

Edwards Air Force Base (Nearest Postal Address) _____ (City or Town) California (State or Country)

Additional remarks: Ballistic Test Facility

5. Estimate how long you saw the object. 0 (Hours) 25 (Minutes) 0 (Seconds)

5.1 Circle one of the following to indicate how certain you are of your answer to Question 5.

(a. Certain)
b. Fairly certain
c. Not very sure
d. Just a guess

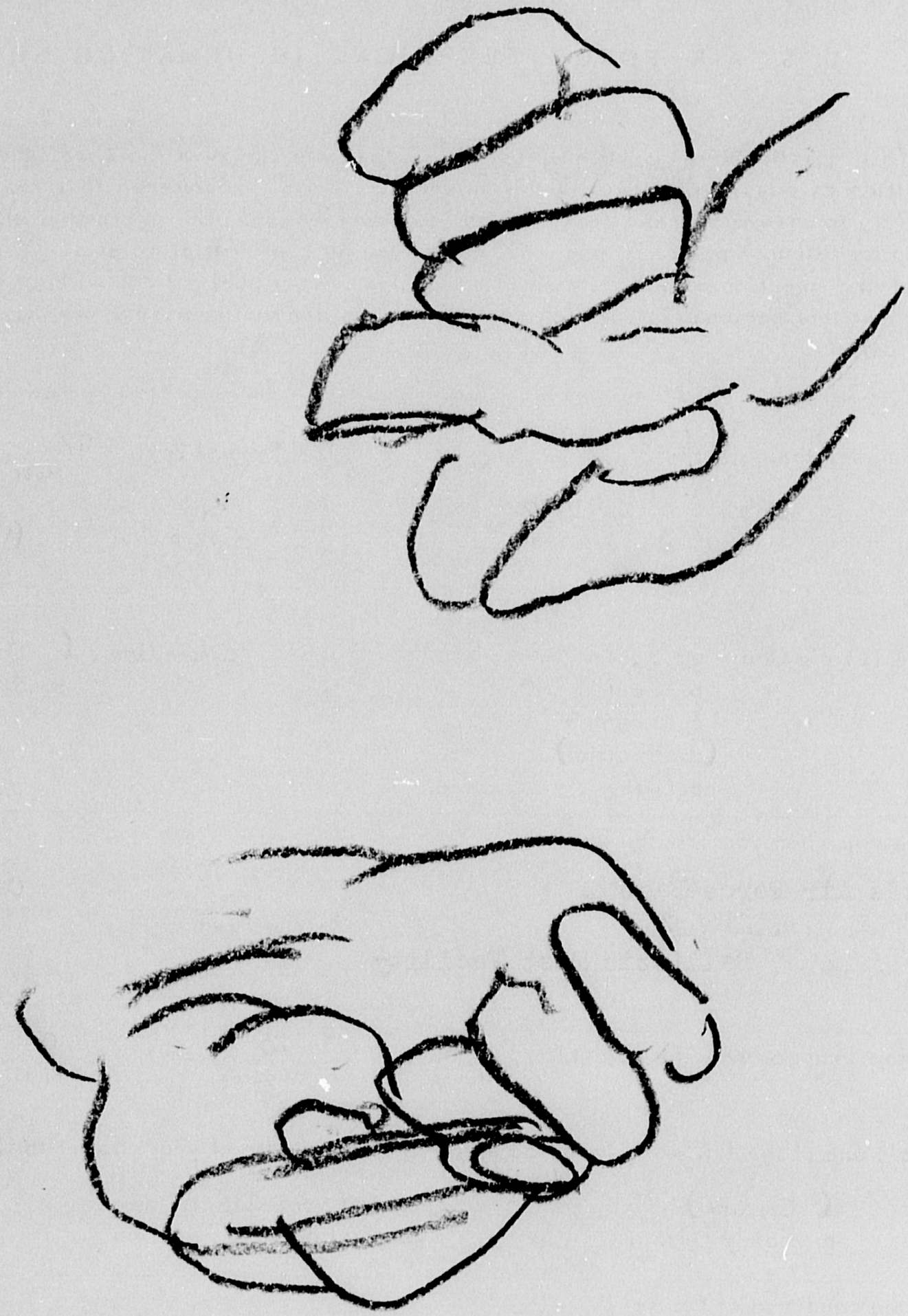
6. What was the condition of the sky?

(Circle One): a. Bright daylight
(b. Dull daylight)
c. Bright twilight
d. Just a trace of daylight
e. No trace of daylight
f. Don't remember

7. IF you saw the object during DAYLIGHT, TWILIGHT, or DAWN, where was the SUN located as you looked at the object?

(Circle One): a. In front of you
b. In back of you
(c. To your right)
d. To your left
e. Overhead
f. Don't remember

81 Rpt. Interrupts (GCI?)



8. IF you saw the object at NIGHT, TWILIGHT, or DAWN; what did you notice concerning the STARS and MOON?

8.1 STARS *(Circle One)*:

a. None
b. A few
c. Many
d. Don't remember

8.2 MOON *(Circle One)*:

a. Bright moonlight
b. Dull moonlight
c. No moonlight — pitch dark
d. Don't remember

9. Was the object brighter than the background of the sky?

(Circle One): (a. Yes) b. No c. Don't remember

10. IF it was BRIGHTER THAN the sky background, was the brightness like that of an automobile headlight?:

(Circle One) a. A mile or more away (a distant car)?
b. Several blocks away?
c. A block away?
(d. Several yards away?)
e. Other

11. Did the object:

(Circle One for each question)

a. Appear to stand still at any time?	(Yes)	No	Don't Know
b. Suddenly speed up and rush away at any time?	Yes	(No)	Don't Know
c. Break up into parts or explode?	Yes	(No)	Don't Know
d. Give off smoke?	Yes	(No)	Don't Know
e. Change brightness?	Yes	(No)	Don't Know
f. Change shape?	Yes	(No)	Don't Know
g. Flicker, throb, or pulsate?	(Yes)	No	Don't Know

12. Did the object move behind something at anytime, particularly a cloud?

(Circle One): Yes (No) Don't Know. IF you answered YES, then tell what it moved behind: _____

13. Did the object move in front of something at anytime, particularly a cloud?

(Circle One): Yes (No) Don't Know. IF you answered YES, than tell what it moved in front of: _____

14. Did the object appear: *(Circle One)*: (a. Solid?) b. Transparent? c. Don't Know.

15. Did you observe the object through any of the following?

a. Eyeglasses	Yes	(No)	e. Binoculars	Yes	No
b. Sun glasses	Yes	(No)	f. Telescope	Yes	No
c. Windshield	(Yes)	No	g. Theodolite	Yes	No
d. Window glass	Yes	(No)	h. Other	Askania Camera Scopes - 15 power	

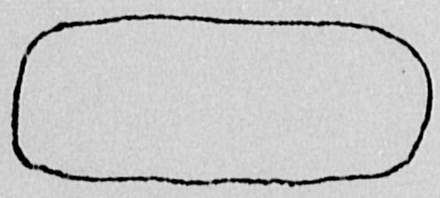
16. Tell in a few words the following things about the object.

a. Sound None

b. Color A bright Metalic color

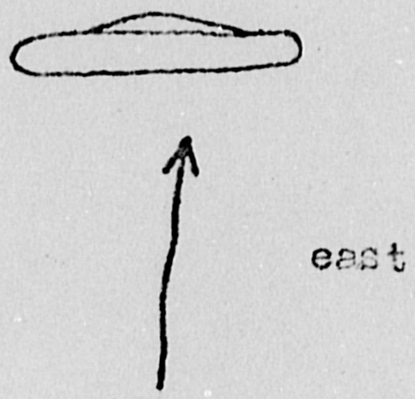
17. Draw a picture that will show the shape of the object or objects. Label and include in your sketch any details of the object that you saw such as wings, protrusions, etc., and especially exhaust trails or vapor trails. Place an arrow beside the drawing to show the direction the object was moving.

At first



Overhead

15 minutes later



18. The edges of the object were:

(Circle One): a. Fuzzy or blurred
b. Like a bright star
(c. Sharply outlined)
d. Don't remember

e. Other _____

19. IF there was MORE THAN ONE object, then how many were there? Just one

Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

20. Draw a picture that will show the motion that the object or objects made. Place an "A" at the beginning of the path, a "B" at the end of the path, and show any changes in direction during the course.



21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
150 feet.

22. How large did the object or objects appear as compared with one of the following objects *held in the hand* and at about arm's length?

(Circle One):

a. Head of a pin
b. Pea
c. Dime
d. Nickel
e. Quarter
f. Half dollar
g. Silver dollar
h. Baseball
i. Grapefruit
(j. Basketball)
k. Other _____

22.1 *(Circle One* of the following to indicate how certain you are of your answer to Question 22.

(a. Certain)
b. Fairly certain
c. Not very sure
d. Uncertain

23. How did the object or objects disappear from view? It just finallygot too far away to see.

24. In order that you can give as clear a picture as possible of what you saw, we would like for you to imagine that you could construct the object that you saw. Of what type material would you make it? How large would it be, and what shape would it have? Describe in your own words a common object or objects which when placed up in the sky would give the same appearance as the object which you saw.

Aluminum
150' diameter
Disk
Saucer

25. Where were you located when you saw the object? *(Circle One):*

a. Inside a building
(b. In a car)
c. Outdoors
d. In an airplane
e. At sea
f. Other _____

26. Were you *(Circle One)*

a. In the business section of a city?
b. In the residential section of a city?
(c. In open countryside?)
d. Flying near an airfield?
e. Flying over a city?
f. Flying over open country?
g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it?

Driving pickup truck. It was so low and c ompanion brought it to my attenetion.

'. IF you were MOVING IN AN AUTOMOBILE or other vehicle at the time, then complete the following questions:

28.1 What direction were you moving? *(Circle One)*

a. North	c. East	(e. South)	g. West
b. Northeast	d. Southeast	f. Southwest	h. Northwest

28.2 How fast were you moving? 35 miles per hour.

28.3 Did you stop at any time while you were looking at the object?

(Circle One) (Yes) No

29. What direction were you looking when you first saw the object? *(Circle One)*

a. North	(c. East)	e. South	g. West
b. Northeast	d. Southeast	f. Southwest	h. Northwest

30. What direction were you looking when you last saw the object? *(Circle One)*

a. North	✓(c. East)	e. South	g. West
b. Northeast	d. Southeast	f. Southwest	h. Northwest

31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

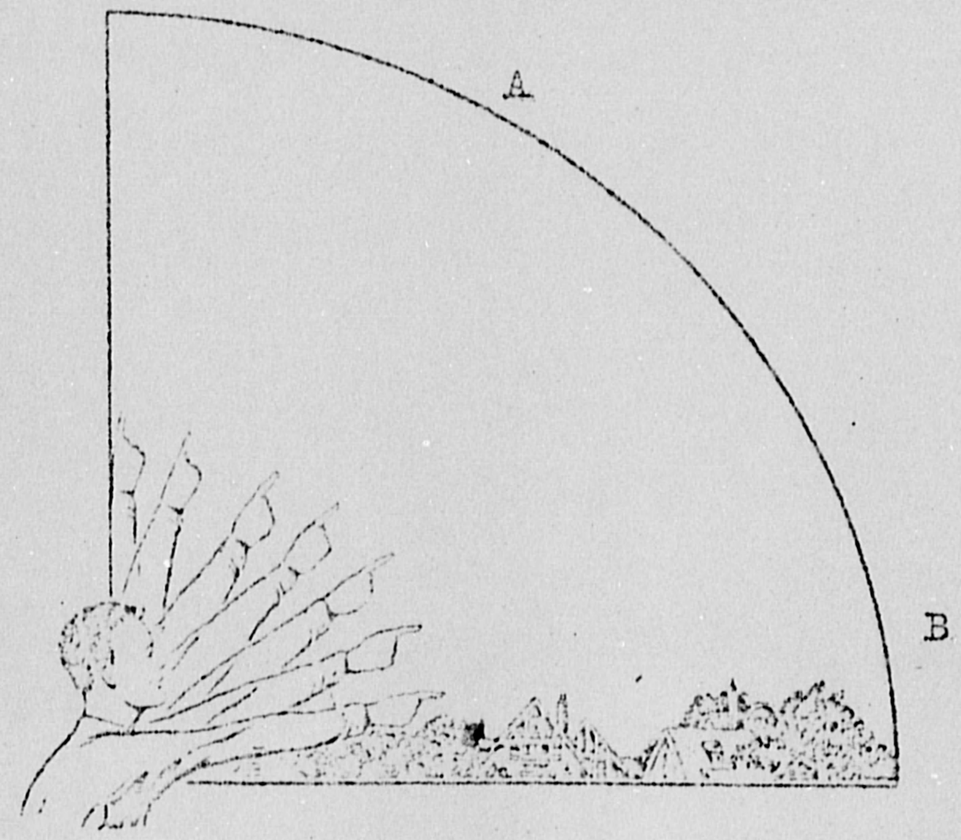
31.1 When it first appeared:

a. From true North 75✓ degrees.
b. From horizon 45 degrees.

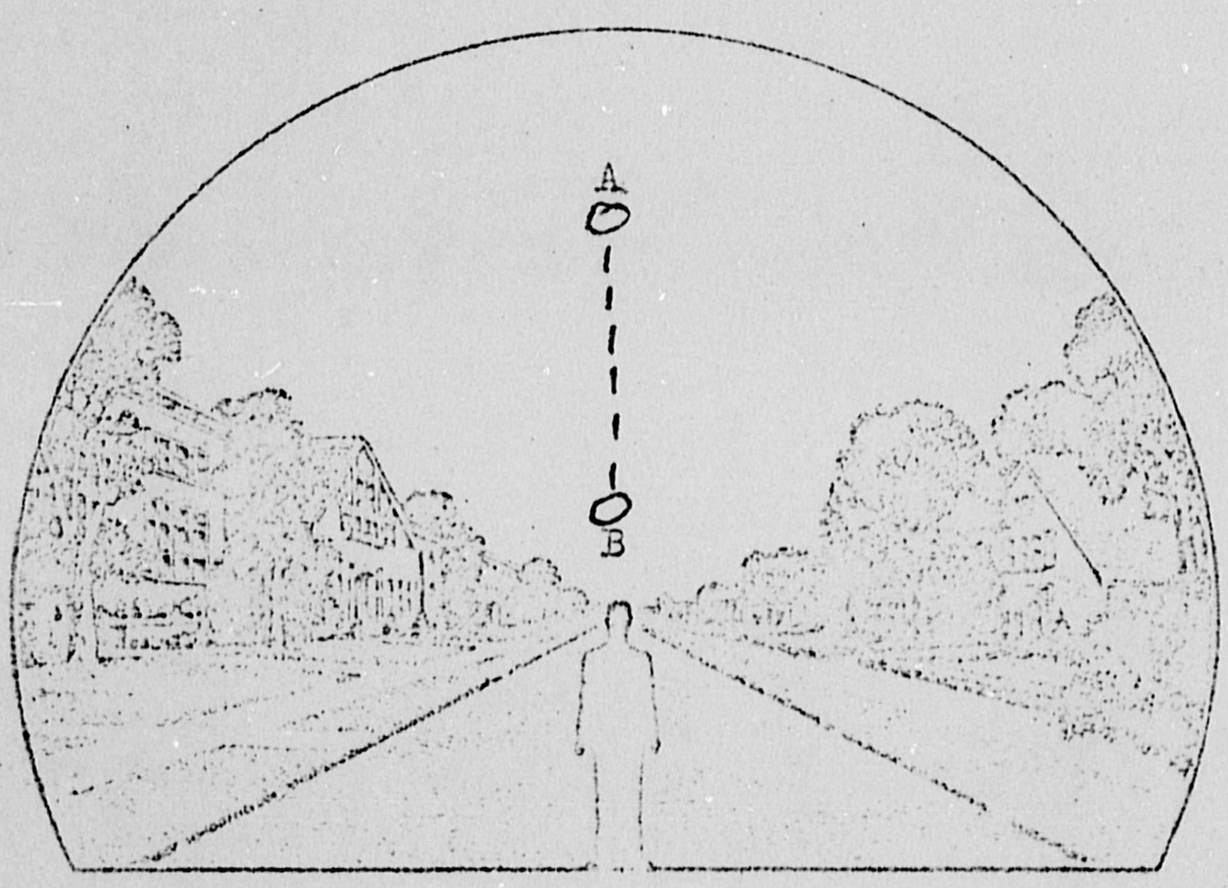
31.2 When it disappeared:

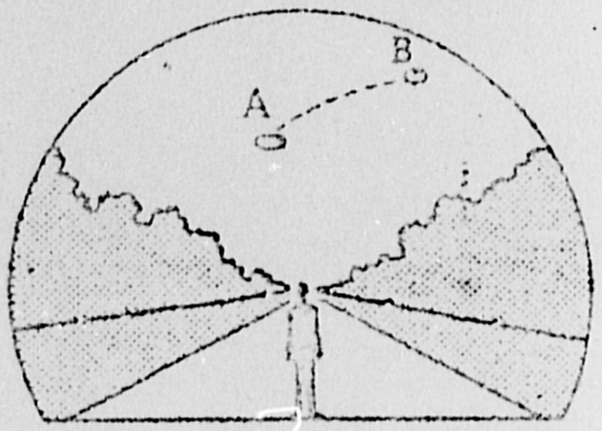
a. From true North 75✓ degrees.
b. From horizon 35 degrees.

32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the *same* curved line to show how high the object was above the horizon (skyline) when you *last* saw it.



33. In the following larger sketch place an "A" at the position the object was when you *first* saw it, and a "B" at its position when you *last* saw it. Refer to smaller sketch as an example of how to complete the larger sketch.





34. What were the weather conditions at the time you saw the object?

34.1 CLOUDS *(Circle One)*

a. Clear sky
(b. Hazy)
c. Scattered clouds
d. Thick or heavy clouds
e. Don't remember

34.2 WIND *(Circle One)*

a. No wind
(b. Slight breeze)
c. Strong wind
d. Don't remember

34.3 WEATHER *(Circle One)*

(a. Dry)
b. Fog, mist, or light rain
c. Moderate or heavy rain
d. Snow
e. Don't remember

34.4 TEMPERATURE *(Circle One)*

a. Cold
(b. Cool)
c. Warm
d. Hot
e. Don't remember

35. When did you report to some official that you had seen the object?

2 May	May	1957
Day	Month	Year

36. Was anyone else with you at the time you saw the object?

(Circle One) (Yes) No

36.1 IF you answered YES, did they see the object too?

(Circle One) (Yes) No

36.2 Please list their names and addresses:

[redacted]. J-12
Lancaster, California

37. Was this the first time that you had seen an object or objects like this?

(Circle One) Yes (No)

37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

West of Rosamond - January 1950 - Large disk (150'0 hung over the house at 300' for 20 minutes at 2130 hours.

38. In your opinion what do you think the object was and what might have caused it?

I don't know

39. Do you think you can estimate the speed of the object?

(Circle One) (Yes) No

IF you answered YES, then what speed would you estimate? Very, very slow m.p.h.

40. Do you think you can estimate how far away from you the object was?

(Circle One) (Yes) No

IF you answered YES, then how far away would you say it was? 5000 feet. at first
60 miles at last

41. Please give the following information about yourself:

NAME [redacted] (Last Name) [redacted] (First Name) [redacted] (Middle Name)

ADDRESS [redacted] (Street) [redacted] (City) (Zone) California (State)

TELEPHONE NUMBER Rosamond[redacted]

What is your present job? Instrument Mechanic and Operator

Age 32 Sex Male

Please indicate any special educational training that you have had.

a. Grade school X
b. High school X
c. College
d. Post graduate
e. e. Technical school
(Type)
f. Other special training

42. Date you completed this questionnaire: 2. (Day) May (Month) 1957 (Year)

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

(SUMMARY DATA)

In order that your information may be filed and coded as accurately as possible, please use the following space to write out a short description of the event that you observed. You may repeat information that you have already given in the questionnaire, and add any further comments, statements, or sketches that you believe are important. Try to present the details of the observation in the order in which they occurred. Additional pages of the same size paper may be attached if they are needed.

NAME [redacted] (Please Print)

SIGNATURE [redacted]

DATE 2 May 1957

(Do Not Write in This Space)

CODE:

We were traveling south in a pickup truck to Askania Camera Station #4. At 0755 hours 2 May 1957 we turned east and [redacted] called the object to my attention. It was hanging stationary almost overhead. I stopped the vehicle and got out to look at it, and then we headed for the camera station. By the time we got the camera uncovered, loaded and ready , ten minutes had elasped. The object was heading due east from us at about 1500'. It was about 150 feet in diameter and had a translucent glow, very bright. After shooting some film mannualy, we tracked it further away, then shot some more film of it. It was estimated to be 40 to 50 miles away when film was taken, and about 60 miles when it disappeared. End

? ?

1. 0805 to 0825 = 20 minutes.
2. Obj at rest from a stand still position to 60 miles in 20 minutes. . . . ?

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

This questionnaire has been prepared so that you can give the U. S. Air Force as much information as possible concerning the unidentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will be used for research purposes, and will be regarded as confidential material. Your name will not be used in connection with any statements, conclusions, or publications without your permission. We request this personal information so that, if it is deemed necessary, we may contact you for further details.

1. When did you see the object?

2 (Day) May (Month) 1957 (Year)

2. Time of day: 07 (Hour) 55 (Minutes)

(Circle One): (A.M.) or P.M.

3. Time zone:

(Circle One): a. Eastern
b. Central
c. Mountain
(d. Pacific)
e. Other _____

(Circle One): (a. Daylight Saving) ✓
b. Standard

4. Where were you when you saw the object?

Edwards Air Force Base (Nearest Postal Address) Edwards (City or Town) California (State or Country)

Additional remarks: At Ballistic Test Facility

5. Estimate how long you saw the object. _____ (Hours) 25 (Minutes) _____ (Seconds)

5.1 Circle one of the following to indicate how certain you are of your answer to Question 5.

(a. Certain)
b. Fairly certain
c. Not very sure
d. Just a guess

6. What was the condition of the sky?

(Circle One): a. Bright daylight
(b. Dull daylight)
c. Bright twilight
d. Just a trace of daylight
e. No trace of daylight
f. Don't remember

7. IF you saw the object during DAYLIGHT, TWILIGHT, or DAWN, where was the SUN located as you looked at the object?

(Circle One): a. In front of you
b. In back of you
(c. To your right)
d. To your left
e. Overhead
f. Don't remember

30 Repl. Interrogation of Pilots

8. IF you saw the object at NIGHT, TWILIGHT, or DAWN, what did you notice concerning the STARS and MOON?

8.1 STARS (*Circle One*):

a. None
b. A few
c. Many
d. Don't remember

8.2 MOON (*Circle One*):

a. Bright moonlight
b. Dull moonlight
c. No moonlight — pitch dark
d. Don't remember

9. Was the object brighter than the background of the sky?

(*Circle One*): (a. Yes) b. No c. Don't remember

10. IF it was BRIGHTER THAN the sky background, was the brightness like that of an automobile headlight?:

(*Circle One*) a. A mile or more away (a distant car)?
b. Several blocks away?
c. A block away?
(d. Several yards away?)
e. Other _____

11. Did the object: (*Circle One for each question*)

a. Appear to stand still at any time?	(Yes)	No	Don't Know
b. Suddenly speed up and rush away at any time?	Yes	(No)	Don't Know
c. Break up into parts or explode?	Yes	(No)	Don't Know
d. Give off smoke?	Yes	(No)	Don't Know
e. Change brightness?	Yes	(No)	Don't Know
f. Change shape?	(Yes)	No	Don't Know
g. Flicker, throb, or pulsate?	(Yes)	No	Don't Know

12. Did the object move behind something at anytime, particularly a cloud?

(*Circle One*): Yes (No) Don't Know. IF you answered YES, then tell what it moved behind: _____

13. Did the object move in front of something at anytime, particularly a cloud?

(*Circle One*): Yes (No) Don't Know. IF you answered YES, than tell what it moved in front of: _____

14. Did the object appear: (*Circle One*): (a. Solid?) b. Transparent? c. Don't Know.

15. Did you observe the object through any of the following?

a. Eyeglasses	Yes	(No)	e. Binoculars	Yes	(No)
b. Sunglasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	(Yes)	No	g. Theodolite	Yes	(No)
d. Window glass	Yes	(No)	h. Other	Askania Scope - 15 power	

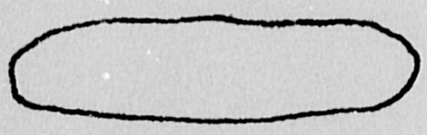
16. Tell in a few words the following things about the object.

a. Sound None

b. Color Bright Metalic color

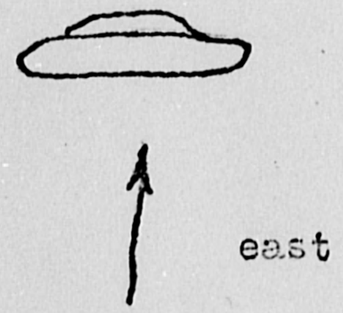
17. Draw a picture that will show the shape of the object or objects. Label and include in your sketch any details of the object that you saw such as wings, protrusions, etc., and especially exhaust trails or vapor trails. Place an arrow beside the drawing to show the direction the object was moving.

At first



Overhead

15 minutes later



18. The edges of the object were:

(Circle One): a. Fuzzy or blurred
b. Like a bright star
(c. Sharply outlined)
d. Don't remember

e. Other _____

19. IF there was MORE THAN ONE object, then how many were there? Just one

Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

20. Draw a picture that will show the motion that the object or objects made. Place an "A" at the beginning of the path, a "B" at the end of the path, and show any changes in direction during the course.



21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
150-175 feet.

22. How large did the object or objects appear as compared with one of the following objects *held in the hand* and at about arm's length?

(Circle One):

a. Head of a pin
b. Pea
c. Dime
d. Nickel
e. Quarter
f. Half dollar
g. Silver dollar
h. Baseball
i. Grapefruit
(j. Basketball)
k. Other _____

22.1 *(Circle One* of the following to indicate how certain you are of your answer to Question 22.

(a. Certain)
b. Fairly certain
c. Not very sure
d. Uncertain

23. How did the object or objects disappear from view? It finally went too far out.

24. In order that you can give as clear a picture as possible of what you saw, we would like for you to imagine that you could construct the object that you saw. Of what type material would you make it? How large would it be, and what shape would it have? Describe in your own words a common object or objects which when placed up in the sky would give the same appearance as the object which you saw.

Aluminum color
150-175 feet in diameter
Disk shape

25. Where were you located when you saw the object? *(Circle One):*

a. Inside a building
(b. In a car)
c. Outdoors
d. In an airplane
e. At sea
f. Other _____

26. Were you *(Circle One)*

a. In the business section of a city?
b. In the residential section of a city?
(c. In open countryside?)
d. Flying near an airfield?
e. Flying over a city?
f. Flying over open country?
g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it?

I was riding in a pickup to one of the Askania stations and I just happened to look up in the sky.

'. IF you were MOVING IN AN AUTOMOBILE or other vehicle at the time, then complete the following questions:

28.1 What direction were you moving? *(Circle One)*

a. North (c. East) e. South g. West
b. Northeast d. Southeast f. Southwest h. Northwest

28.2 How fast were you moving? 35 miles per hour.

28.3 Did you stop at any time while you were looking at the object?

(Circle One) (Yes) No

29. What direction were you looking when you first saw the object? *(Circle One)*

a. North (c. East) e. South g. West
b. Northeast d. Southeast f. Southwest h. Northwest

30. What direction were you looking when you last saw the object? *(Circle One)*

a. North (c. East) e. South g. West
b. Northeast d. Southeast f. Southwest h. Northwest

31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

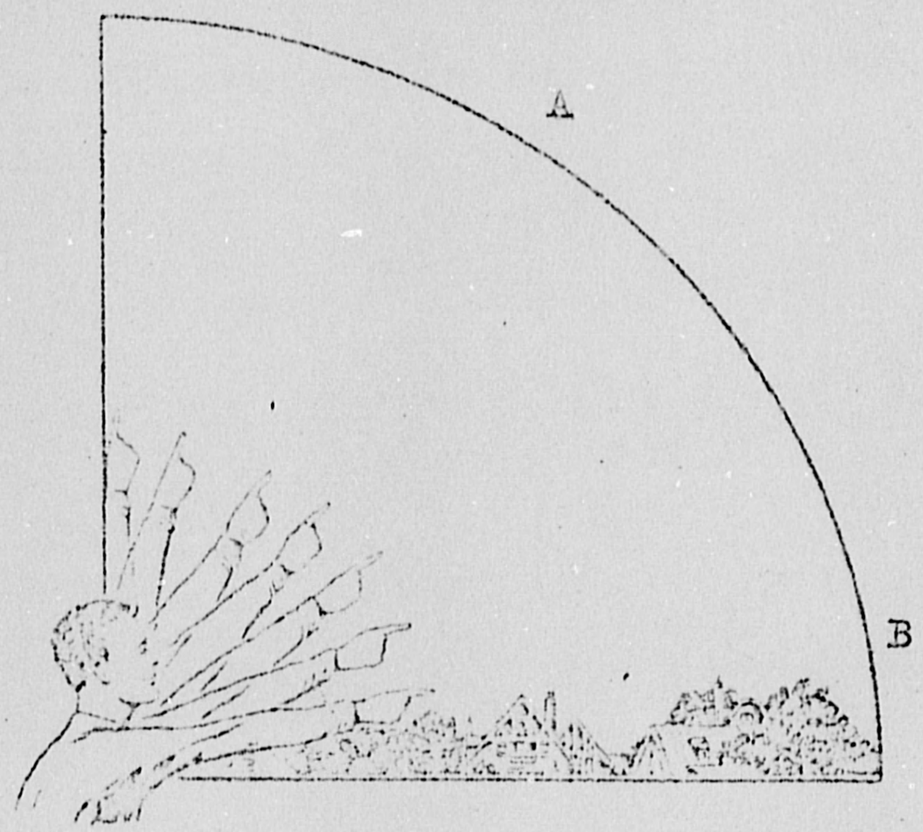
31.1 When it first appeared:

a. From true North 75 degrees.
b. From horizon 45 degrees.

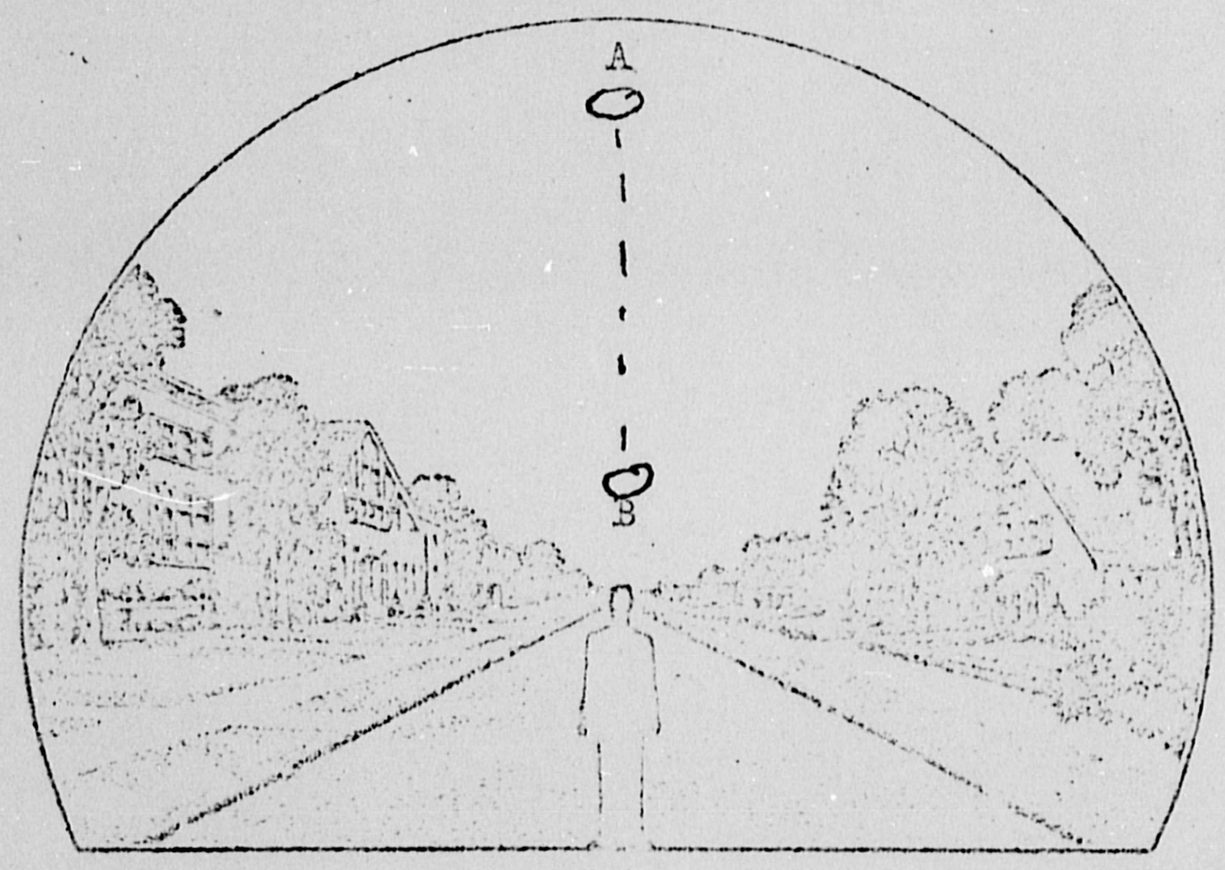
31.2 When it disappeared:

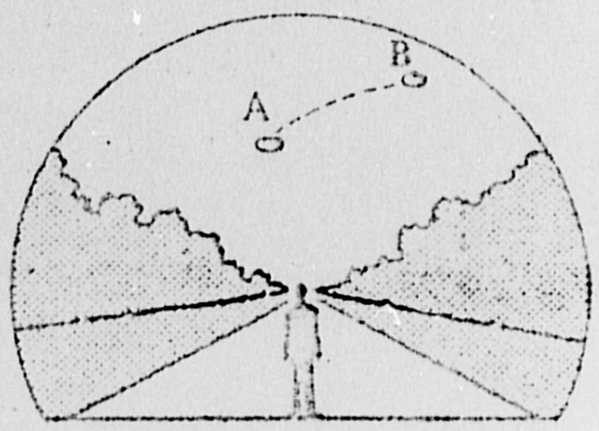
a. From true North 75 degrees.
b. From horizon 15 degrees.

32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the *same* curved line to show how high the object was above the horizon (skyline) when you *last* saw it.



33. In the following larger sketch place an "A" at the position the object was when you *first* saw it, and a "B" at its position when you *last* saw it. Refer to smaller sketch as an example of how to complete the larger sketch.





34. What were the weather conditions at the time you saw the object?

34.1 CLOUDS *(Circle One)*

a. Clear sky
(b. Hazy)
c. Scattered clouds
d. Thick or heavy clouds
e. Don't remember

34.2 WIND *(Circle One)*

a. No wind
(b. Slight breeze)
c. Strong wind
d. Don't remember

34.3 WEATHER *(Circle One)*

(a. Dry)
b. Fog, mist, or light rain
c. Moderate or heavy rain
d. Snow
e. Don't remember

34.4 TEMPERATURE *(Circle One)*

a. Cold
(b. Cool)
c. Warm
d. Hot
e. Don't remember

35. When did you report to some official that you had seen the object?

2	May	1957
Day	Month	Year

36. Was anyone else with you at the time you saw the object?

(Circle One) (Yes) No

36.1 IF you answered YES, did they see the object too?

(Circle One) (Yes) No

36.2 Please list their names and addresses:

[redacted].
P.O. Box [redacted] Rosemond, California

37. Was this the first time that you had seen an object or objects like this?

(Circle One) (Yes) No

37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

38. In your opinion what do you think the object was and what might have caused it?

Do not have any idea

39. Do you think you can estimate the speed of the object?

(Circle One) Yes (No)

IF you answered YES, then what speed would you estimate? _____ m.p.h.

40. Do you think you can estimate how far away from you the object was?

(Circle One) (Yes) No

IF you answered YES, then how far away would you say it was? 5000 feet at first
60 miles at last

41. Please give the following information about yourself:

NAME [redacted] (Last Name) [redacted] (First Name) [redacted] (Middle Name)

ADDRESS [redacted] Ave. [redacted] (Street) Lancaster (City) _____ (Zone) California (State)

TELEPHONE NUMBER Whitehall [redacted]

What is your present job? Instrument Mechanic and Operator

Age 29 Sex Male

Please indicate any special educational training that you have had.

a. Grade school X
b. High school X
c. College
d. Post graduate

e. e. Technical school
(Type)
f. Other special training

42. Date you completed this questionnaire: 2 (Day) May (Month) 1957 (Year)

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

(SUMMARY DATA)

In order that your information may be filed and coded as accurately as possible, please use the following space to write out a short description of the event that you observed. You may repeat information that you have already given in the questionnaire, and add any further comments, statements, or sketches that you believe are important. Try to present the details of the observation in the order in which they occurred. Additional pages of the same size paper may be attached if they are needed.

NAME [redacted]
(Please Print)

SIGNATURE (not available for signature)

DATE 2 May 1957

(Do Not Write in This Space)

CODE:

We left the master station heading south for one mile then turned east for Askania station # 4. After heading east for 100 yards I looked thru the windshield and saw the object at about 1500 feet up in the air, just hanging there. The driver and myself continued to the Askania station and uncovered and loaded the camera. From the time first seen till camera was loaded 10 minutes had past. We started taking pictures of the object with the camera manually. We took approximately 40 frames. We saw the object for approximately 25 to 30 minutes before it went out of sight.

d. Edwards AFB B Case (2 May 1957):

This case received nation-wide publicity because the UFO was observed over so-called "United States secret testing grounds", and had been photographed officially by high-speed cameras, especially designed to track aircraft and missiles by AF personnel.

The object was observed by the camera crews, who, took a series of photographs after it had moved some distance away. The sighting was apparently released to the press, directly or otherwise, prior to official AF investigation. A study of 32 photographs taken and highly magnified, disclosed the object to be the size of a match head, but changing shape from round to elliptical, as the early sun's rays played upon its surface. A wind plot, correlated with the reported speed and movements of the object, practically coincided. This pointed to the object being a balloon. Further investigations not only disclosed that a balloon was released in the vicinity, but precise theodolite measurements coincided with the observer's reports as to times, elevations and bearings.

This case is considered to have been improperly handled. It did not come to the attention of ATIC until well after the press had received it; the Edwards AFB official made statements to the press that it was "unknown" when investigations disclose that they had been informed that it was a balloon; and the local commander could have solved the case by making local inquiries of his various units.

d. Edwards AFB Case (2 May 1957):

This case received nation-wide publicity because the UFO was observed over the so-called "United States secret testing grounds", and had been photographed officially by high-speed cameras, specially designed to track aircraft and missiles, by AF personnel.

The object was observed by the camera crews, who, took a series of photographs after it had moved some distance away. They later described it as disc shaped to interrogators, after they brought the matter to the attention of others. A study 32 photographs taken, and highly magnified disclosed the object to the size of a match head, but changing shape from round to elliptical, as the early sun's rays played upon its surface. A wind pbt, correlated with the reported speed and movements of the object, practically coincided. This pointed to the object being a balloon. Further investigations not only disclosed that a balloon was released in the vicinity, but precise theodolite measurements coincided with the observer's report as to times, elevations and bearings.

This case is considered as having been improperly handled. It did not come to the attention of AFIC until well after the press had received it; the Edwards AFB PIO officer made statements to the press that it was "unknown", when investigations disclose that he was informed it was a balloon; and the local commander could have solved the case by making local inquiries of his various units.

BALLOON CHECK ON EDWARDS AFB CASE

As per telephone conversation with Major Wininger, Detachment 21, 4th Weather Group, Edwards AFB, California.

Major Wininger is aware of the facts of this case and he stated, (quote) "On the morning of 2 May 1957, 7:40 PDT they released a Rawinsonde balloon which at release measures ~~800 grams~~ or 5 to 6 feet, in diameter, which reaches a diameter of 75 to 90 ft. at 60,000 ft. altitude." Major Wininger also stated that this sighting is quite obviously the balloon they released. This information was given to the information officer at Edwards AFB.

Oliver D. Hill

OLIVER D. HILL
M/Sgt, USAF

MAN25. EDWARDS AIR FORCE BASE, CALIF., MAY 9 (INS)..OFFICERS AT EDWARDS AIR FORCE BASE TODAY WERE STUDYING FILMS MADE OF A PURPORTED "UNIDENTIFIED FLYING OBJECT" SEEN OVER THE BASE.

THE OBJECT WAS PHOTOGRAPHED BY TWO CIVILIAN TECHNICIANS WHO USED SPECIAL EQUIPMENT TO TRACK AND RECORD IT.

UNOFFICIAL SOURCES SAID THE OBJECT APPEARED CIRCULAR AND GLINTED BRIGHTLY IN THE MORNING SUN WHEN OBSERVED LAST FRIDAY.

HOWEVER, INTELLIGENCE OFFICERS AT EDWARDS BASE, A HUSH-HUSH AIR FORCE TEST CENTER, WOULD SAY ALMOST NOTHING OF THE INCIDENT.

AN AIR FORCE SPOKESMAN CONFIRMED THAT EDWARDS BASE WAS STUDYING THE PHOTOGRAPHS AND WOULD FORWARD THEM TO THE CONTINENTAL AIR DEFENSE COMMAND HEADQUARTERS AT COLORADO SPRINGS, COLO., FOR FURTHER CHECKING.

CY-MZ1059PPD..

Rec'd from AOC 23 MAY 57

GM (In all major newspapers in U.S.)

AISOC 1st Ind

Hqs 4602d Air Intelligence Service Squadron (ADC), Ent Air Force Base, Colorado 16 MAY 1957

TO: Commander, Air Technical Intelligence Center, ATTN: AFCIN 4E4, Wright-Patterson Air Force Base, Ohio

Forwarded for your information and necessary action. UFOB Index Card (AISOP Form No. 5) will be forwarded when prepared.

FOR THE COMMANDER:

6 Incls
n/c

JOHN D TAYLOR JR
Major, USAF
Adjutant

HEADQUARTERS

AIR FORCE FLIGHT TEST CENTER

AIR RESEARCH and DEVELOPMENT COMMAND

UNITED STATES AIR FORCE

Edwards Air Force Base California

FTOOB 14 MAY 1957

SUBJECT: Unidentified Flying Object Report

TO: Commander
Air Defense Command
Attn: 4602d AISS
Ent Air Force Base
Colorado Springs, Colorado

1. In accordance with paragraph seven, Air Force Regulation 200-2, the following reported sighting of an Unidentified Flying Object is forwarded for necessary action. Report is being submitted in letter form due to non-availability of Air Force Form 112:

a. Report follows prescribed format (par 7d, AFR 200-2).

(1) Description:

(a) Disk shape.

(b) Size compared to basketball.

(c) Aluminum or metalic in color.

(d) One.

(e) N/A.

(f) Object was estimated to be 150-175 feet in diameter. It was sharply outlined and was shaped like a saucer.

(g) None.

(h) No sound.

(i) Had translucent glow.

(2) Description of course:

(a) Observers first sighted object at a very low altitude while traveling to the Photo Theodolite Station in a truck.

(b) Elevation: 45° Azimuth: 0°

(c) Elevation: 85° Azimuth: 0°

1

5-182

(d) Object traveled in an easterly direction at all times. At times object appeared to stand still and change shape or pulsate. Object was at an estimated altitude of 1500 feet. Velocity of object was unknown.

(e) Object disappeared from sight due to extreme distance.

(f) Length of time in sight was approximately 25 minutes.

(3) Observation:

(a) Ground visual.

(b) Object was tracked by a 15 power scope which is a portion of the Photo Theodolite equipment.

(c) N/A.

(4) Time and date:

(a) 1455Z to 1520Z, 2 May 1957.

(b) Day.

(5) Location: Approximately 34° 53' 30" N - 117° 40' 30" E.

(6) Observers:

(a) [redacted], Civilian
32 Years
[redacted] Rosamond, California
Instrument Mechanic and Operator

(b) [redacted]
29 Years
[redacted] West Avenue [redacted] Lancaster, California
Instrument Mechanic and Operator

(7) Weather and Winds:

(a) Scattered clouds estimated to be at 6000 feet. The sky condition was dull daylight. Surface winds were light.

(b) Winds:

Surface	-	360/09
6,000	-	270/17
10,000	-	260/29
16,000	-	260/37
20,000	-	270/38

30,000 - 280/53
50,000 - 260/29
80,000 - 290/07

(c) Ceiling - None.

(d) Visibility - 30 miles.

(e) 2/10 total cloud coverage
1/10 cumulus at 4500 feet
1/10 cirrus at unknown altitude

(f) No thunderstorms.

(8) Sharp tropopause inversion at 42,500 feet MSL.

(9) N/A.

(10) Negative.

(11) Preparing Officer and comments:

(a) Deputy Chief of Staff, Operations.

(b) Weather stations at Palmdale Airport, George Air Force Base, Mojave MCAAS, and China Lake Naval Air Station were queried as to whether any weather balloons had been released at or about the time of sighting. Reply in each case was negative. A rawinsonde balloon was released by the weather station at Edwards Air Force Base at approximately 0740 hours Pacific Daylight Time, 2 May 1957. The following information on the release of subject balloon:

0740 hours. . . Balloon released at Edwards (34° 54' 30" N - 117° 52' 00" E).
0750 hours. . . 13,287' elevation, 8038 yards from station on a true bearing of 70°.
0800 hours. . . 22,802' elevation, 16,295 yards from station on a true bearing of 80°.
0810 hours. . . 34,448' elevation, 27,668 yards from station on a true bearing of 60°.
0820 hours. . . 44,291' elevation, 38,603 yards from station on a true bearing of 40°.

Based on the above track made and the location of the observers at the time of sighting, the weather balloon released at Edwards could not have been the unidentified object reported.

(c) Probable cause of sighting is unknown.

Note! Actual theodolite track of balloon released almost precisely matches data from Edwards sources

FTOOB, Hq AFFTC, , Subj: Unidentified Flying Object Report

(12) Attention is invited to the attached photographs of the reported sighting. Photo enlargements represent every other frame of the attached negatives (inclosures five and six). Reference photo enlargements in inclosure three. Subject photographs were taken beginning at approximately 0807 Pacific Daylight Time at the rate of two frames per second. Photo enlargements on inclosure four were taken beginning at approximately 0815 Pacific Daylight Time at the rate of four frames per second. Photographs were taken with a single photo theodolite camera which consisted of 84 inch lense and a 15 power scope for tracking purposes.

FOR THE COMMANDER:

Harold B. Russell Lt Col

RAYMOND P. KLEIN
Lt Colonel, USAF
Acting Deputy Chief of Staff, Operations

6 Incls.
1-ATIC Form 164-[redacted]
2-ATIC Form 164-[redacted]
3-Photo enlargements from negative 1 (2 cys)
4-Photo enlargements from negative 2 (2 cys)
5-Negative 1 (forwarded under separate cover)
6-Negative 2 (forwarded under separate cover)

AISOC 1st Ind

Hqs 4602d Air Intelligence Service Squadron (ADC), Ent Air Force Base, Colorado 16 MAY 1957

TO: Commander, Air Technical Intelligence Center, ATTN: AFOIN 4E4, Wright-Patterson Air Force Base, Ohio

Forwarded for your information and necessary action. UFOB Index Card (AISOP Form No. 5) will be forwarded when prepared.

FOR THE COMMANDER:

John D. Taylor

JOHN D TAYLOR, JR
Major, USAF
Adjutant

6 Incls
n/c

JOINT MESSAGEFORM

SECURITY [redacted] UNCLASSIFIED

2 Sht, 17 Dec 57

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

02160

PARAPHRASE NOT REQUIRED REFER TO
CATEGORY B ENCRYPTION ABOVE
ALL EXTERNAL REFERENCES TO GROUP
PRIOR TO DECLASSIFICATION DECLASSIFIED
REFERENCE IF THE DATE-TIME GROUP IS QUOTED

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION PRIORITY	BOOK	MULTI	SINGLE			
INFO						

FROM: COMDR ATIC

TO: INFORMATION SERVICES OFFICE
AIR FORCE FLIGHT TEST CENTER
EDWARDS AFB, CALIFORNIA

RSUPER

DC 40365

FROM: AFOIN-4E4. FOR: MAJ McINTOSH

If accordance with instructions from higher authority
REQUEST ~~ANY~~ INFORMATION REGARDING UNIDENTIFIED FLYING OBJECT OVER
all available data
YOUR BASE REPORTED BY INS WIRE SERVICE, 9 MAY, QUOTE: OFFICERS AT EDWARDS AIR FORCE BASE TODAY WERE STUDYING FILMS MADE OF A PURPORTED UNIDENTIFIED FLYING OBJECT SEEN OVER THE BASE. THE OBJECT WAS PHOTOGRAPHED BY TWO CIVILIAN TECHNICIANS WHO USED SPECIAL EQUIPMENT TO TRACK AND RECORD IT. UNOFFICIAL SOURCES SAID THE OBJECT APPEARED CIRCULAR AND GLINTED BRIGHTLY IN THE MORNING SUN WHEN OBSERVED LAST FRIDAY. HOWEVER, INTELLIGENCE OFFICERS AT EDWARDS BASE, A HUSH-HUSH AIR FORCE TEST CENTER, WOULD SAY ALMOST NOTHING OF THE INCIDENT. AN AIR FORCE SPOKESMAN CONFIRMED THAT EDWARDS BASE WAS STUDYING THE PHOTOGRAPHS AND WOULD FORWARD THEM TO THE CONTINENTAL AIR DEFENSE COMMAND HEADQUARTERS AT COLORADO SPRINGS, COLORADO, FOR FURTHER CHECKING. UNQUOTE.

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

SPECIAL INSTRUCTIONS

ENCODED
Initials Ken
Time 1706Z
Checked By

Classification Cancelled
Auth: Dec'd per AFR 205-1, Para 27a
By [redacted]
Date 3 MAY 1960
3 June 8

DATE	TIME
17	0800
MONTH	YEAR
MAY	1957

WRITER

SYMBOL AFOIN-4E4

TYPED NAME AND TITLE (Signature, if required) Capt G. T. Gregory Capt G. T. Gregory

PHONE 69216 | PAGE NR. 1 | NR. OF PAGES

SECURITY CLASSIFICATION [redacted] UNCLASSIFIED 17 Dec 57

RELEASER

SIGNATURE [redacted]

TYPED (or stamped) NAME AND TITLE

ROBERT E. O'CONNOR
Captain, USAF
Assistant Adjutant

DD FORM 1 MAY 55 173 REPLACES AF FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION: [redacted] UNCLASSIFIED

FROM:

COMDR ATIC

ALSO, EXCERPT FROM L.A. TIMES, SAME DATE, STATES "PHOTOS WERE DISPATCHED IMMEDIATELY" TO THIS CENTER.

THIS CENTER HAS NO KNOWLEDGE OR RECEIPT OF REPORT OR PHOTOGRAPHS. HOWEVER, MATTER NOW OF SOME CONCERN IN VIEW OF QUERIES REGARDING INCIDENT, PARTICULARLY FROM AN UNOFFICIAL "UFO RESEARCH ORGANIZATION" DEMANDING ANSWERS, FACTS AND PHOTOS FROM AIR FORCE. ~~DESIRABLE~~ Essential, ~~BOTH FROM PUBLIC INFORMATION AND INTELLIGENCE STANDPOINT TO GET FULL FACTS BEFORE ANY STATEMENT MADE TO PUBLIC, SINCE IT IS KNOWN THESE ORGANIZATIONS HAVE GIVEN AIR FORCE SOME ADVERSE PUBLICITY REGARDING UFOS~~. 3rd

DESIRABLE THAT ACTION BE INITIATED TO DETERMINE THE FOLLOWING SPECIFICALLY:

1. WERE BALLOONS RELEASED DURING THE PERIOD OF SIGHTING? IF, AS ALLEGED, PHOTOS STUDIED BY YOUR SPECIALISTS, WHAT WERE YOUR FINDINGS, OPINIONS, OR CONCLUSIONS?

2. WERE CIVILIANS TAKING THE PHOTOS INSIDE OR OUTSIDE BASE AREA, AF EMPLOYEES WORKING ON PROJECT INVOLVING TRACKING AIRCRAFT, OR PRIVATE CITIZENS NOT CONNECTED WITH YOUR BASE?

3. WERE AIRCRAFT IN THE AREA;

4. ANY OTHER DATA THAT MAY PROVIDE FIRM CONCLUSIONS.

IF INFORMATION AND PHOTOS HAVE BEEN SUBMITTED, STILL REQUEST SUMMARY OF PERTINENT INFORMATION REGARDING THIS INCIDENT, PENDING RECEIPT OF FULL DETAILS.

COORDINATION: AFOIN-4E HK Michaels DATE 17 May 52

AFOIN-4E4 [signature] DATE 17 May 52

SYAFOIN-4X1 [signature] DATE 5/17/52

AFOIN-4E4 [signature] 5/17/52

PAGE NR	NR OF PAGES	SECURITY CLASSIFICATION	INITIALS
2	2	[redacted] UNCLASSIFIED	

DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

DD FORM 1 MAY 55 173-1

U. S. GOVERNMENT PRINTING OFFICE: 1955—352234

UNCLASSIFIED

[redacted]

23 MAY 57

AC PRIORITY

FM COMDR AFFTC EDWARDS AFB CALIF 23 MAY 57 2218Z

TO COMDR ATIC WPAFB OHIO

BT

/CITE FTN-5-1-E. REF IC40365 AFOIN-4E4.

COMPLETE REPORT AS REQUIRED BY AFR 200-2 FORWARDED BY LETTER 24 MAY 1957 TO ENT AFB, OFFICE OF ORIGINFTOOB. BRIEF SUMMARY AS FOLLOWS:

[redacted]

2 CIVILIAN WORKERS ENROUTE TO THE ASKANIA CAMERA STATION AT APPROX IMATELY 0720 PDT SAW UFO AND TOOK PICTURE OF SAME WITH 35 MM ASKANIA CAMERA. INFORMATION IN PRESS RELEASE MADE TO LOS ANGELES TIMES UPON THEIR QUERY BY ISO EDWARDS AFB UNDER PROVISIONS AFR 200-2.

BT

[redacted]

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

UNCLASSIFIED

JOINT MESSAGEFORM

SECURITY CLASSIFICATION: UNCLASSIFIED UNCLASSIFIED

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

1080 + 24/1849Z

PRIORITY!

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION PRIORITY	BOOK	MULTI	SINGLE		Ltr	
INFO						

FROM: COMDR ATIC WPAFB Ohio

TO: COMMANDER, 750TH AC&W SQUADRON,
BORON AIR FORCE STATION, ~~BORON~~
BORON, CALIFORNIA

24 MAY 57 17 49Z RJCWPJB

(UNCLASSIFIED) FROM: AFOIN-4E4 5-7187-E

REQUEST CHECK OF RECORDS TO DETERMINE IF ANY UNKNOWN OBJECTS SHOWN ON YOUR RADAR BETWEEN 0700 TO 0830 HOURS, 2 MAY 1957 AND TRAVELLING WEST TO EAST IN DIRECTION, OR OVER EDWARDS AFB. ALSO, IF AIRCRAFT OR OTHER KNOWN RETURNS IN AIR AT THAT TIME, AND GENERAL DIRECTION AND SPEED. IMMEDIATE ANSWER DESIRABLE.

SPECIAL INSTRUCTIONS

Reply ASAP Ea ltr

COORDINATION

AFOIN-4E4 H. A. Miley DATE 24/5-/57
Dr. H. A. Miley

DATE 24 TIME 1130
MONTH MAY YEAR 1957

WRITER

SYMBOL: AFOIN-4E4

TYPED NAME AND TITLE (Signature, if required): Capt G. T. Gregory G. T. Gregory

PHONE 69216 PAGE NR. 1 NR. OF PAGES 1

SECURITY CLASSIFICATION: UNCLASSIFIED UNCLASSIFIED

RELEASER

SIGNATURE: Wallace W. Elwood

TYPED (or stamped) NAME AND TITLE:
WALLACE W. ELWOOD
Captain, USAF
Assistant Adjutant

DD FORM 1 MAY 55 173 REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

RF149

WPA171 XYD150JBA103JBF004

PP RJEDWP

DE RJWPJB 4F

P 242000Z

FM COMDR 750TH ACWRON BORON CALIF

TO COMDR ATIC WRIGHT PATTERSON AFB OHIO

BT

UNCLAS 750OPS 0395. ATTN: AFOIN. REFERENCE MESSAGE 4E4 5-713-E.

NEGATIVE. ← Local Radar in the Area Sites

BT

24/2003Z MAY RJWPJB

Nothing in the locality at that Time. And in the empty desert Regions, highly unlikely radar would miss anything!!

G 1F

TWX

Det 21, 4th Weather Group
Hqs Air Force Ft Test Center
Edwards AFB, California

Request information concerning any balloon launchings between 0700 to 0830 hours on 2 May 1957 involving large plastic balloons of 45 to 75 foot size. Information available here indicates your unit may use, or have knowledge of tests involving such balloons. Also winds aloft, data from your records from 1500 to 5000 ft for this time period, to include knowledge of any other balloons released, or known to have been in your area. Weekly track charts from 1110 Sup Gp, Hedcom, USAF, show balloon S-321, from Vernallis, passed north your area, moving west to east on same date. Immediate reply desirable.

BALLOON CHECK ON EDWARDS AFB CASE

As per telephone conversation with Major Wininger, Detachment 21, 4th Weather Group, Edwards AFB, California.

Major Wininger is aware of the facts of this case and he stated, (quote) "On the morning of 2 May 1957, 7:40 PDT they released a Rawinsonde balloon which at release measured 800 grams or 5 to 6 feet, in diameter, which reaches at diameter of 75 to 90 ft. at 60,000 ft. altitude." Major Wininger also stated that this sighting is quite obviously the balloon they released. This information was given to the information officer at Edwards AFB.

Oliver D. Hill

OLIVER D. HILL
M/Sgt, USAF

Analysis of theodolite photography of unidentified object. 22 May 1957

Photo No.	Image Size (i)
598	.014'
600	.012'
602	.012'
604	.013'
606	.013'
608	.014'
610	.012'
612	.013'
614	.013'
616	.014'
618	.012'
620	.013'
622	.013'
624	.013'
626	.013'
635	.012'
637	.013'
639	.013'
641	.013'
643	.012'
645	.008'
647	.005'
649	.007'
651	.007'
653	.006'

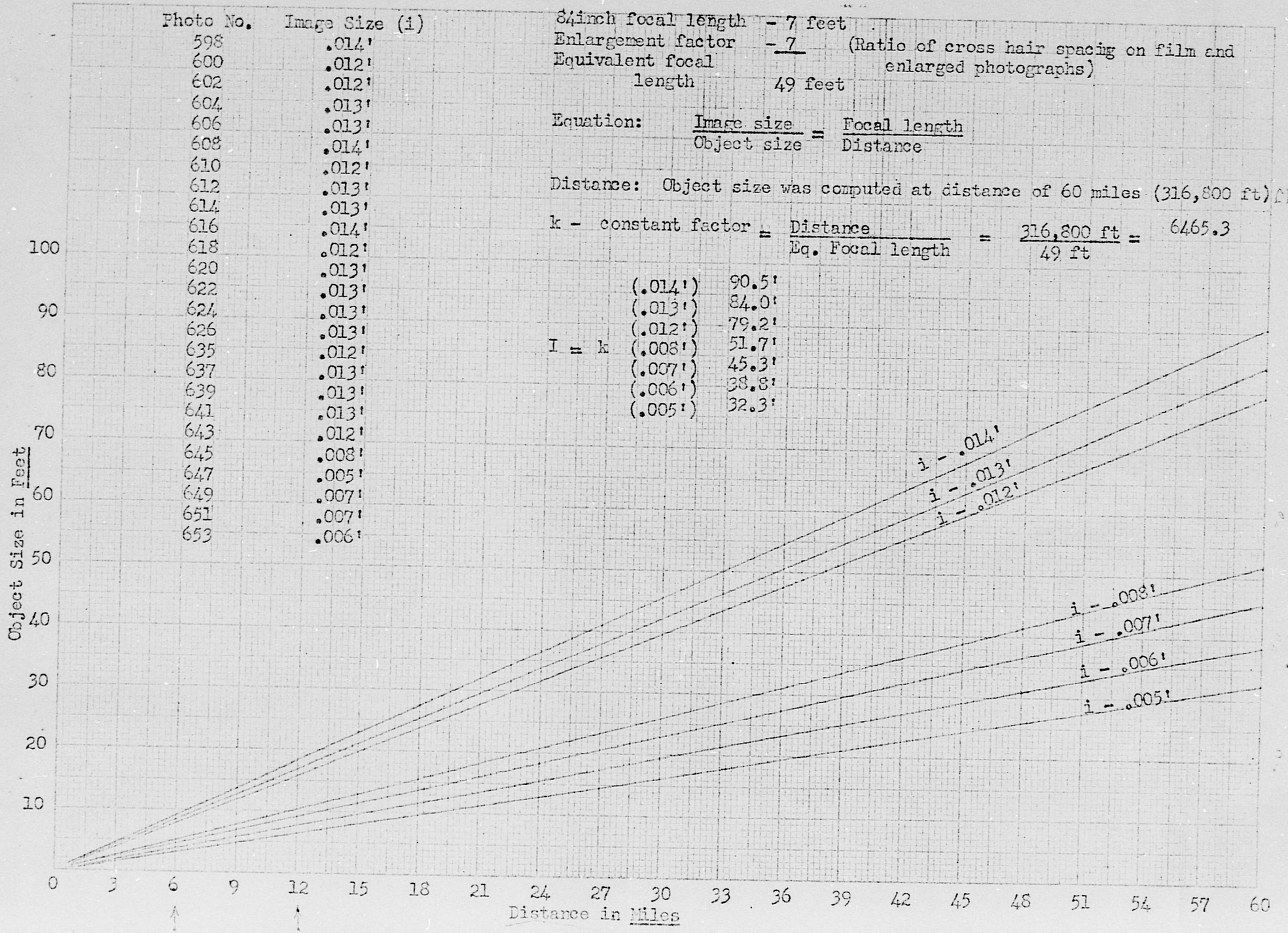
84inch focal length - 7 feet
Enlargement factor - 7 (Ratio of cross hair spacing on film and enlarged photographs)
Equivalent focal length 49 feet

Equation: $\frac{\text{Image size}}{\text{Object size}} = \frac{\text{Focal length}}{\text{Distance}}$

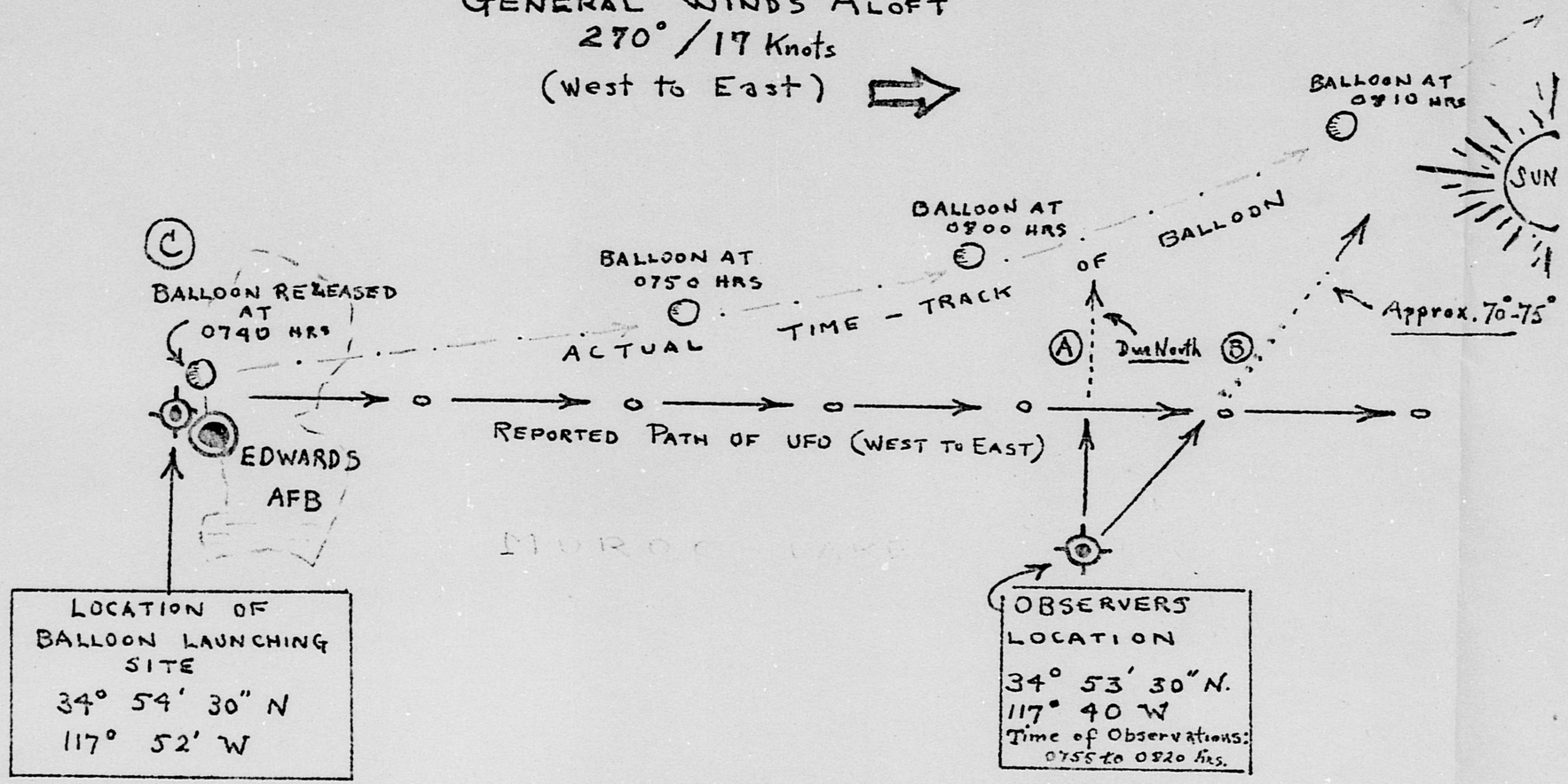
Distance: Object size was computed at distance of 60 miles (316,800 ft) flax

k - constant factor = $\frac{\text{Distance}}{\text{Eq. Focal length}} = \frac{316{,}800 \text{ ft}}{49 \text{ ft}} = 6465.3$

	(.014')	90.5'
	(.013')	84.0'
	(.012')	79.2'
I = k	(.008')	51.7'
	(.007')	45.3'
	(.006')	38.8'
	(.005')	32.3'



TIME - TRACK - BEARING PLOT — BALLOON RELEASED V. UFO OBSERVED



(A) Observers First Report UFO at Approximately 0° Azimuth (Due North) - See attached UFO Report, Edwards AFB

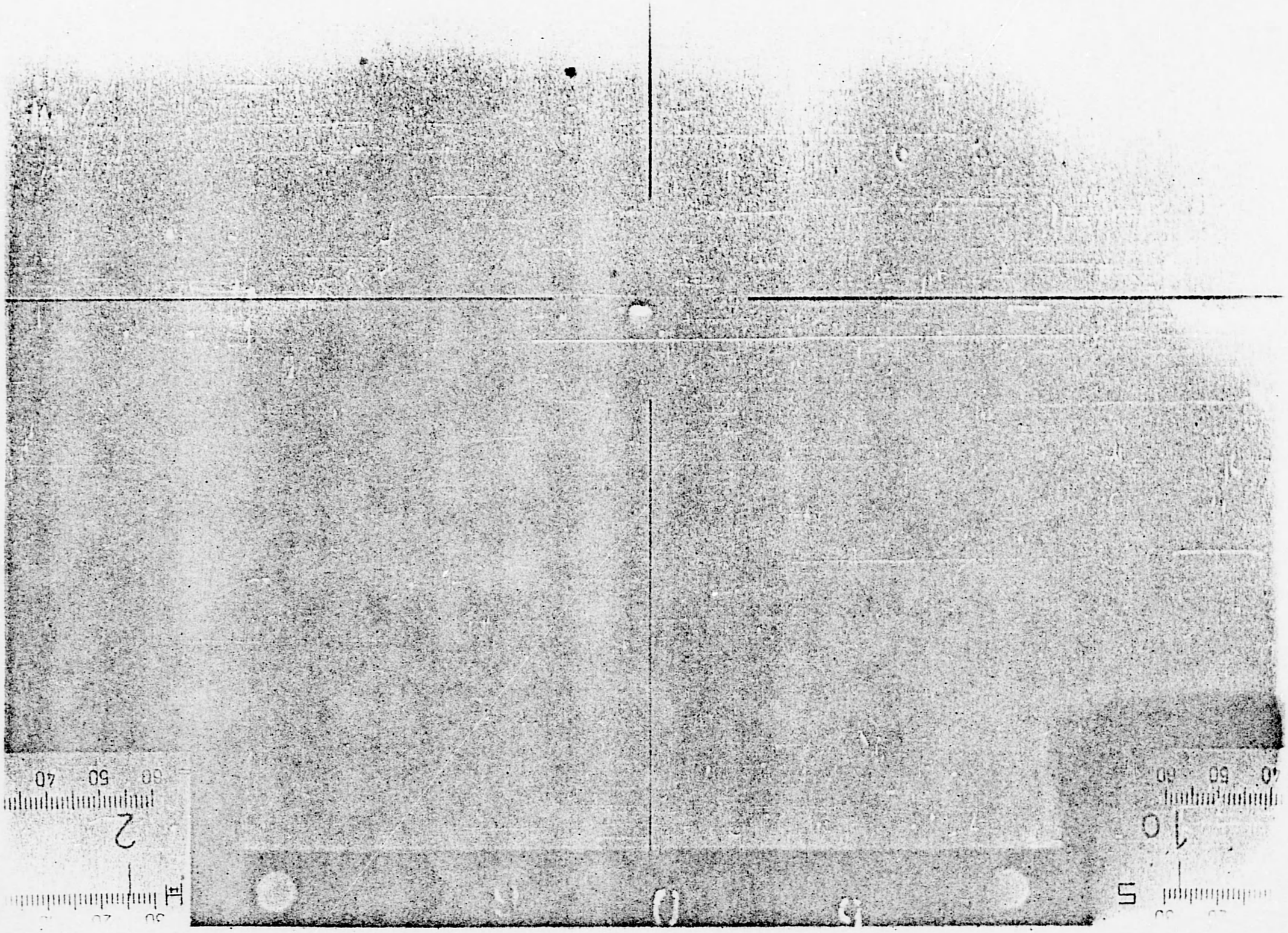
(B) Observers Both State Object Last Seen at 75° Azimuth - when Last Seen - See Attached USAF UFO Questionnaire, Form 164.

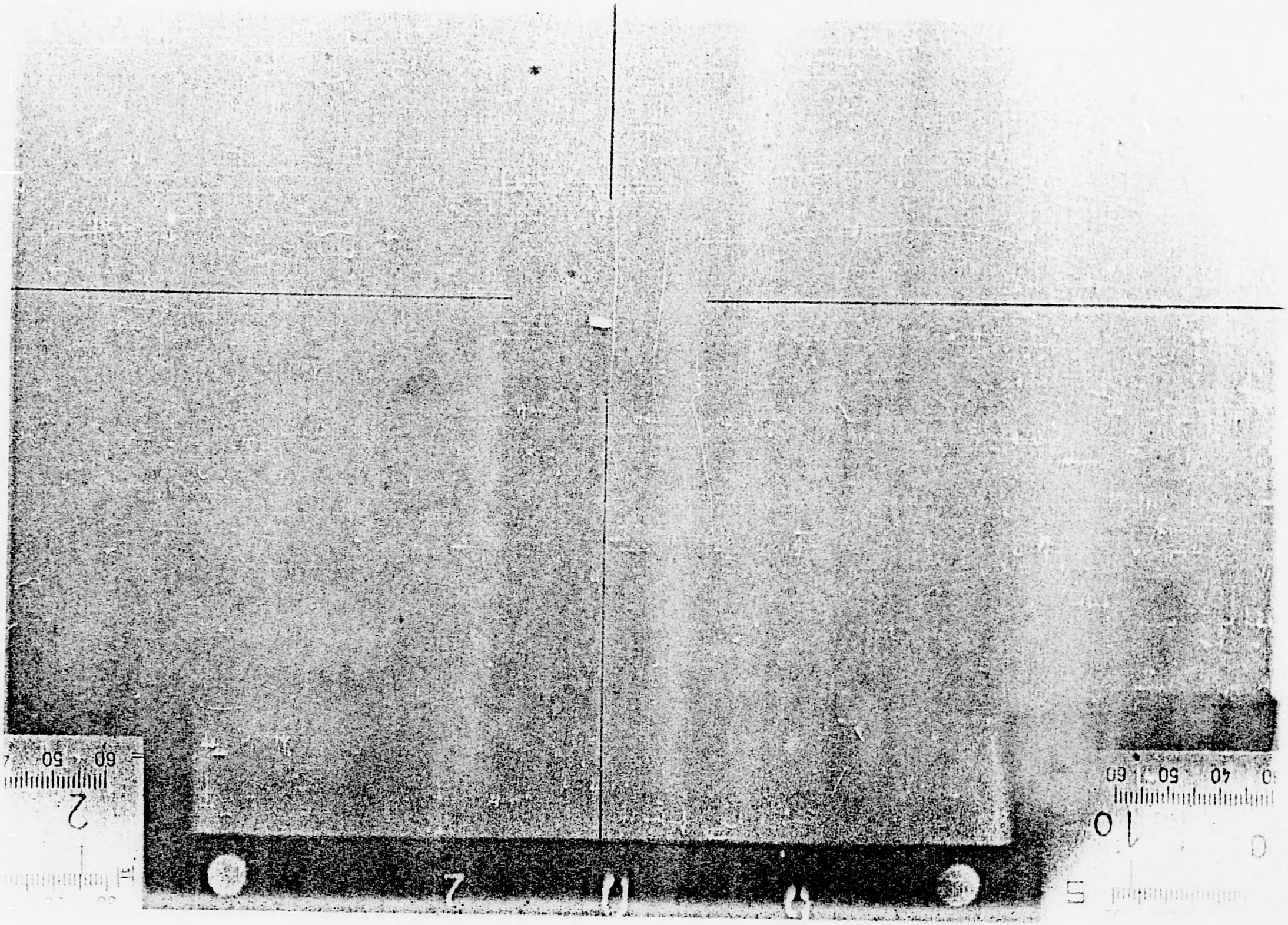
(C) From Data Taken by Edwards AFB Weather Station During Track by Precision Meteorological Devices. See Par. 1a(11) AFFTC Ltr, 14 May 1957

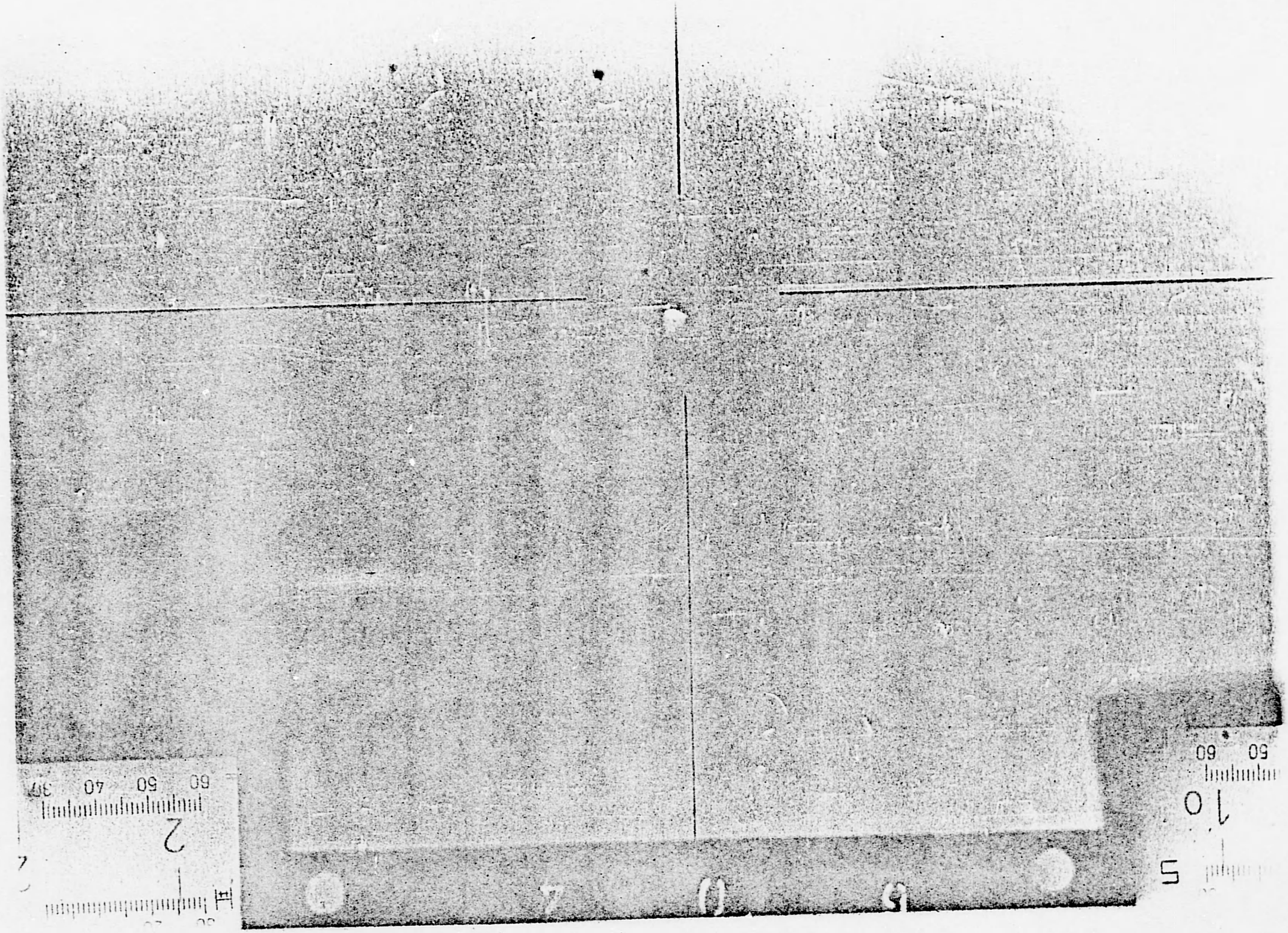
Ref: USAF Edition, Aero Chart #C-904

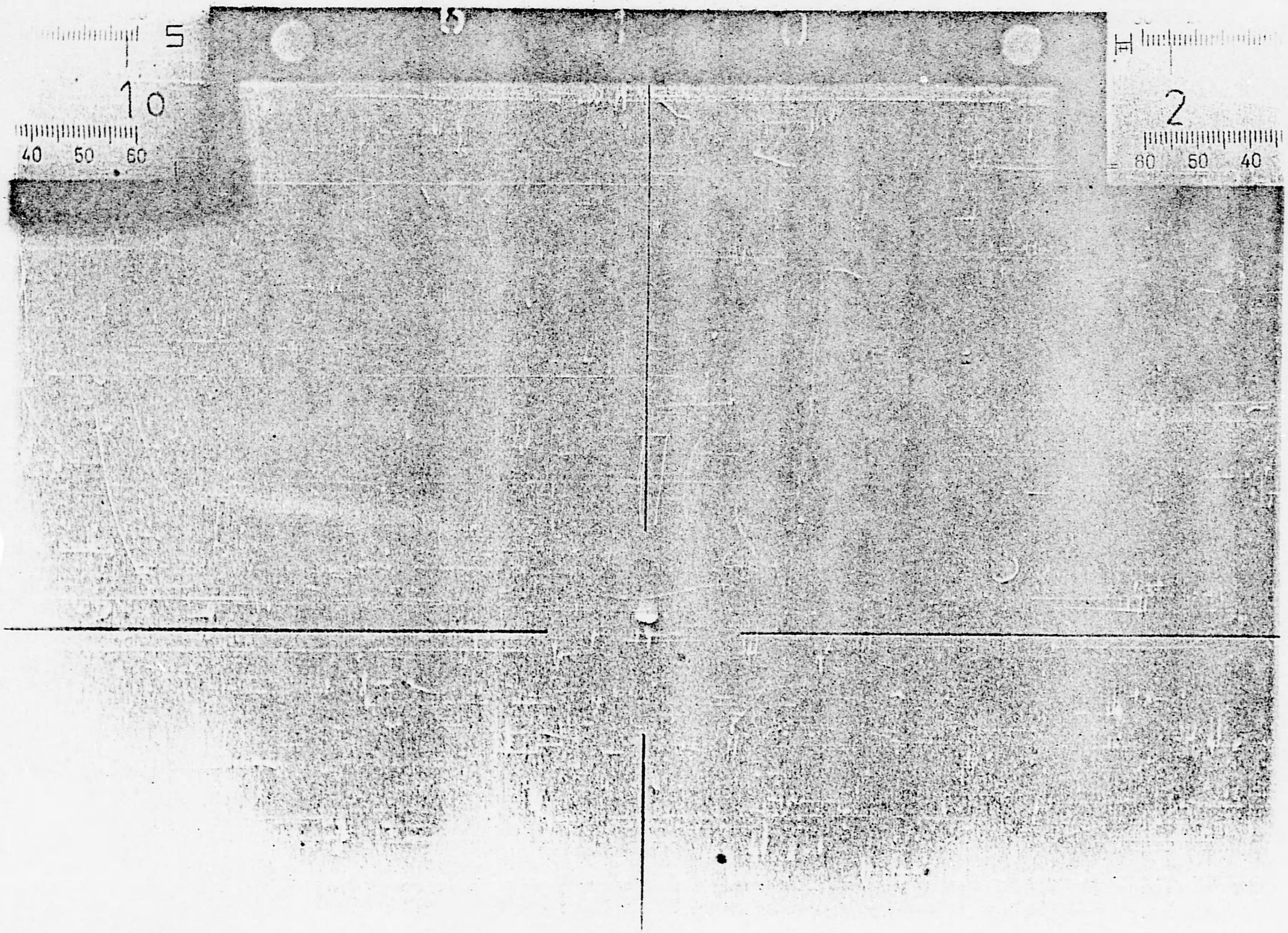
22 ONLY 8X10
GLOSSY PHOTOGRAPHS
OF UFO SIGHTED AT
EDWARDS AFB, CALIF.

UNCLASSIFIED





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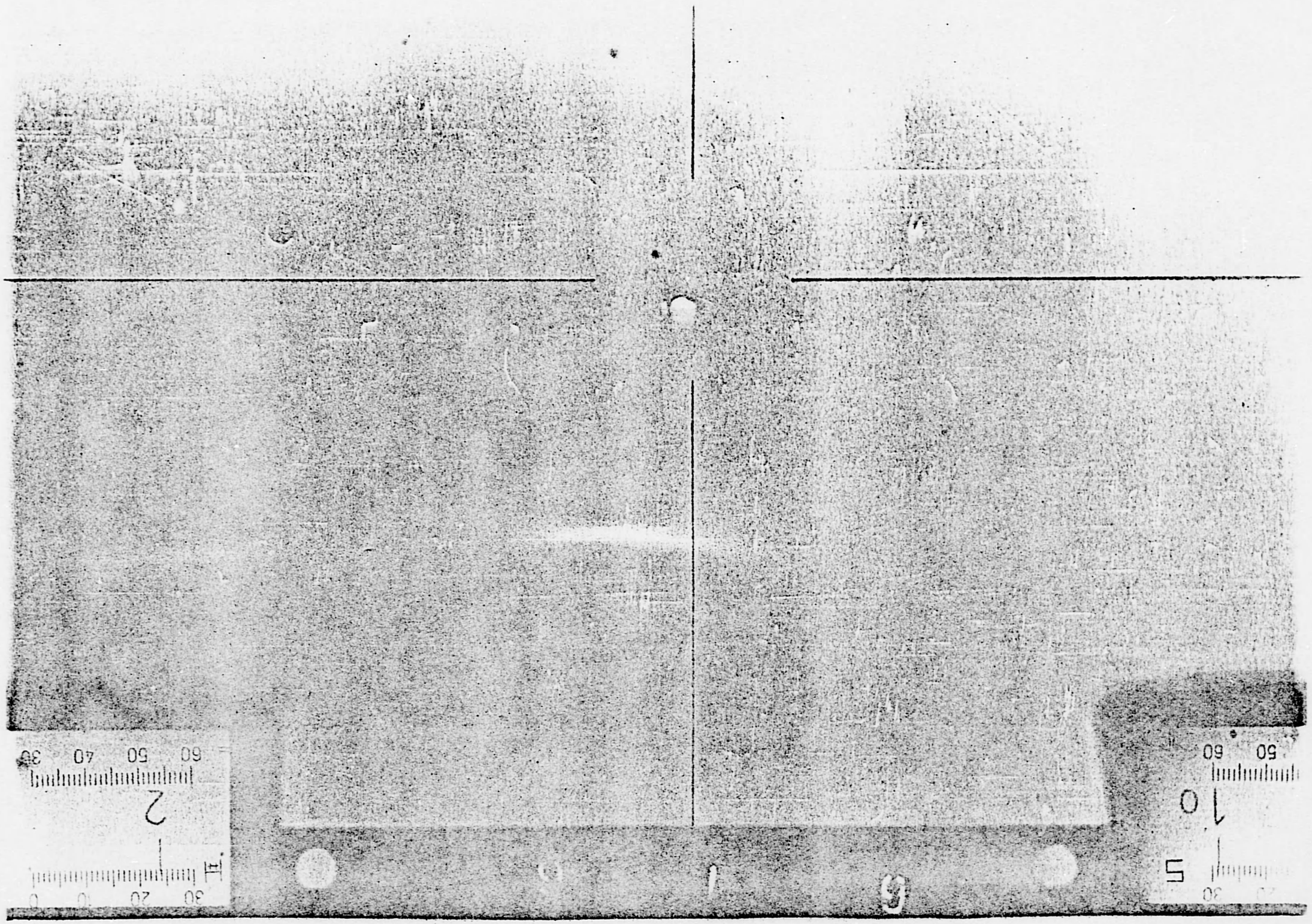

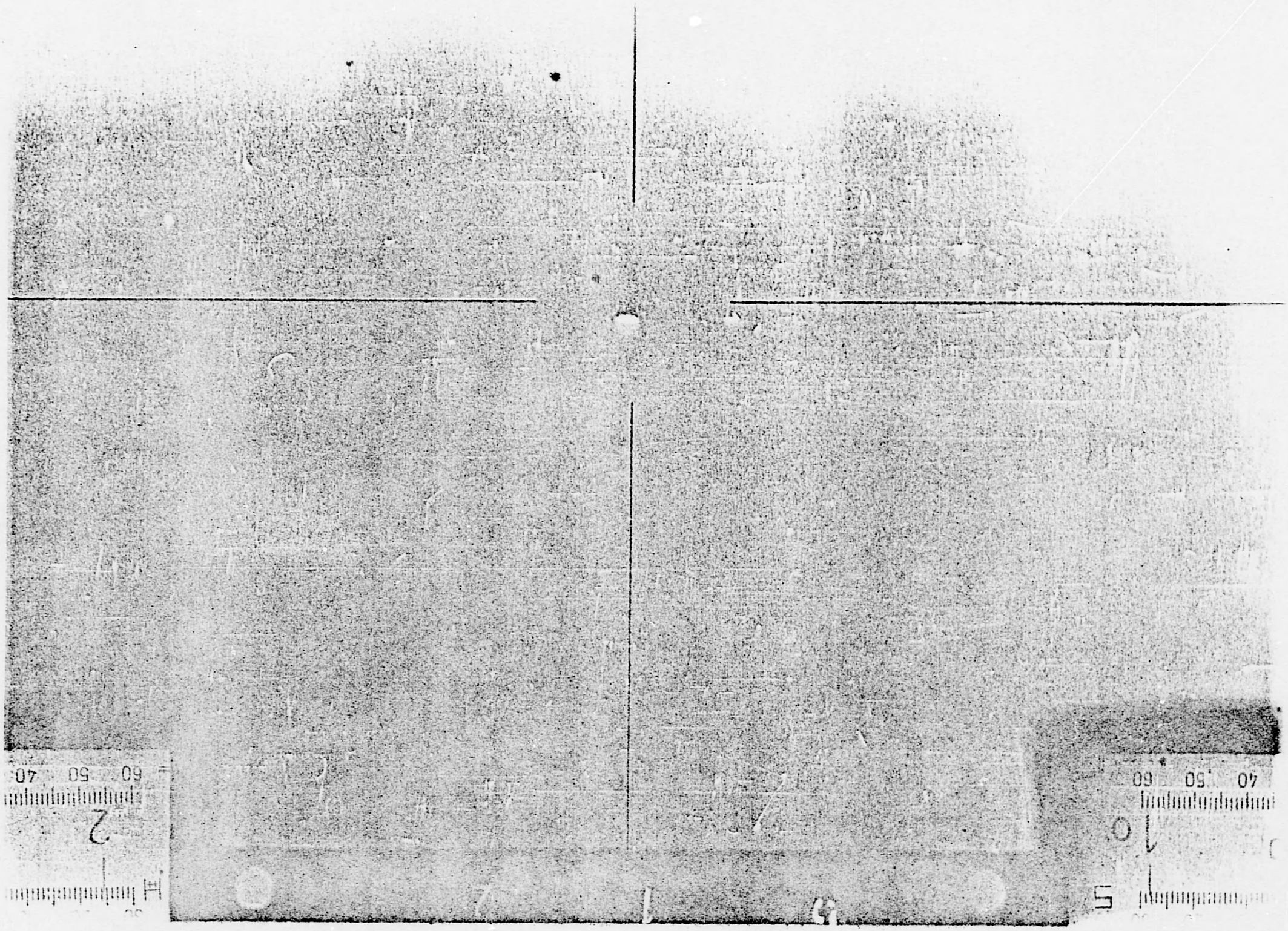

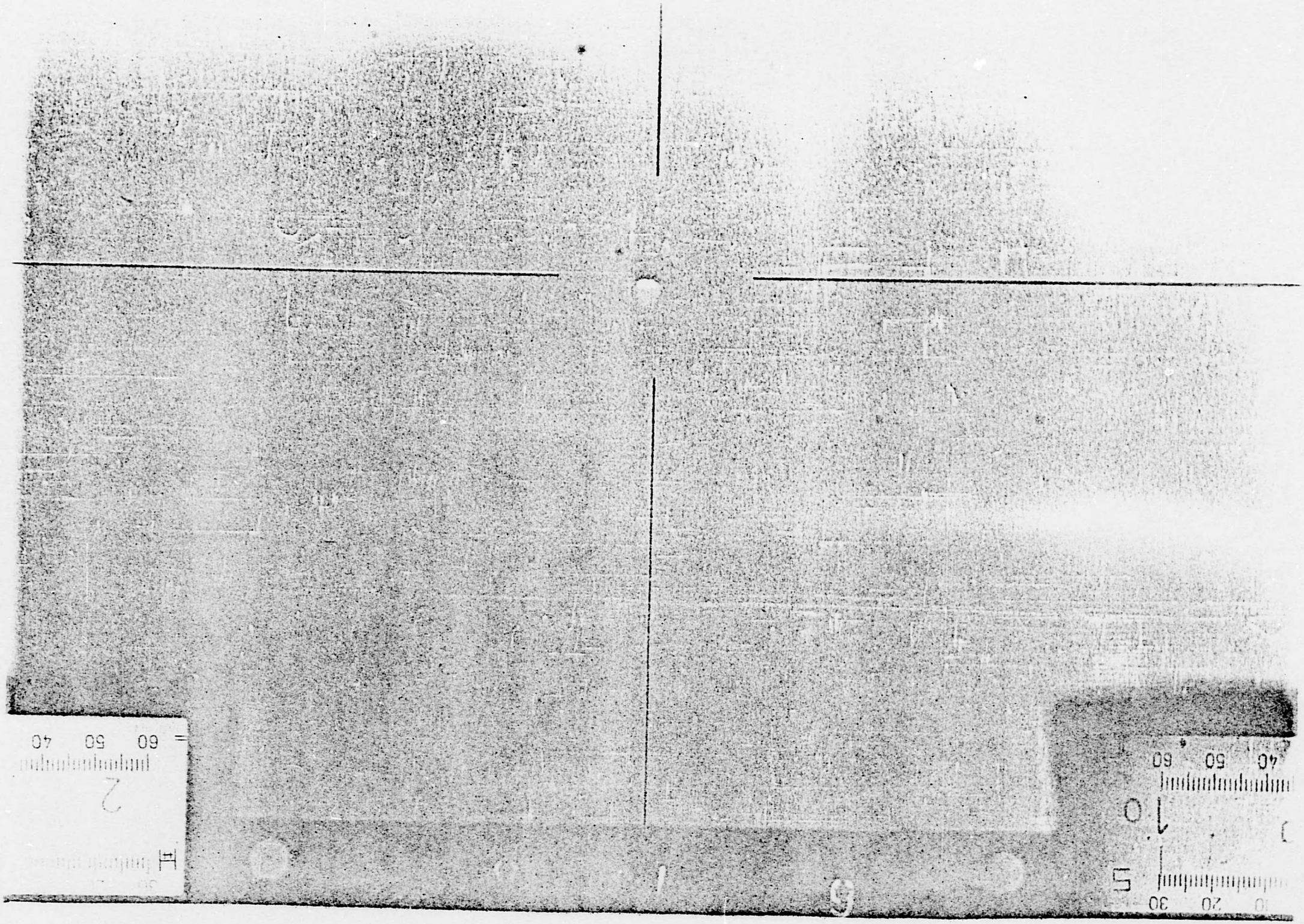

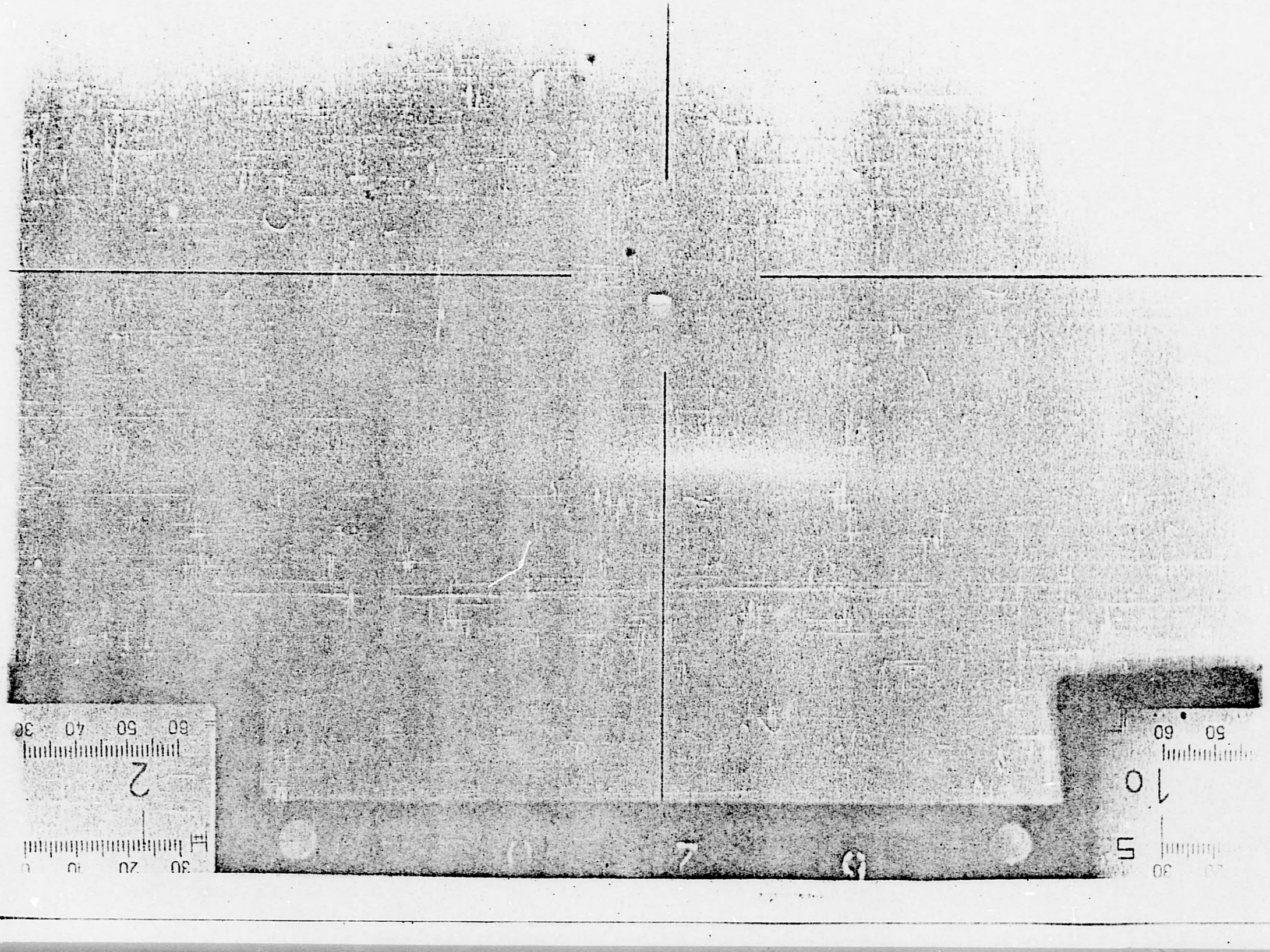

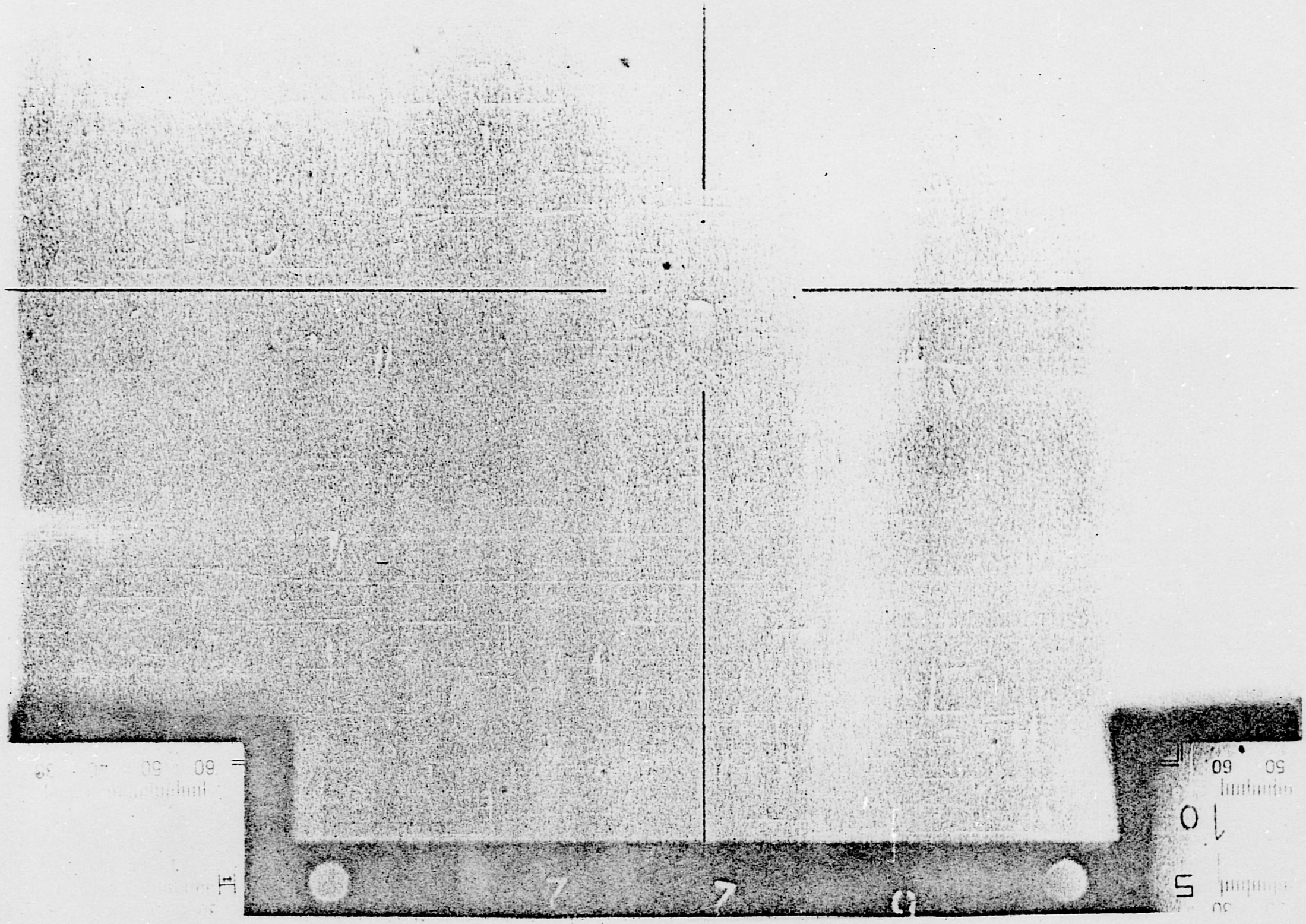

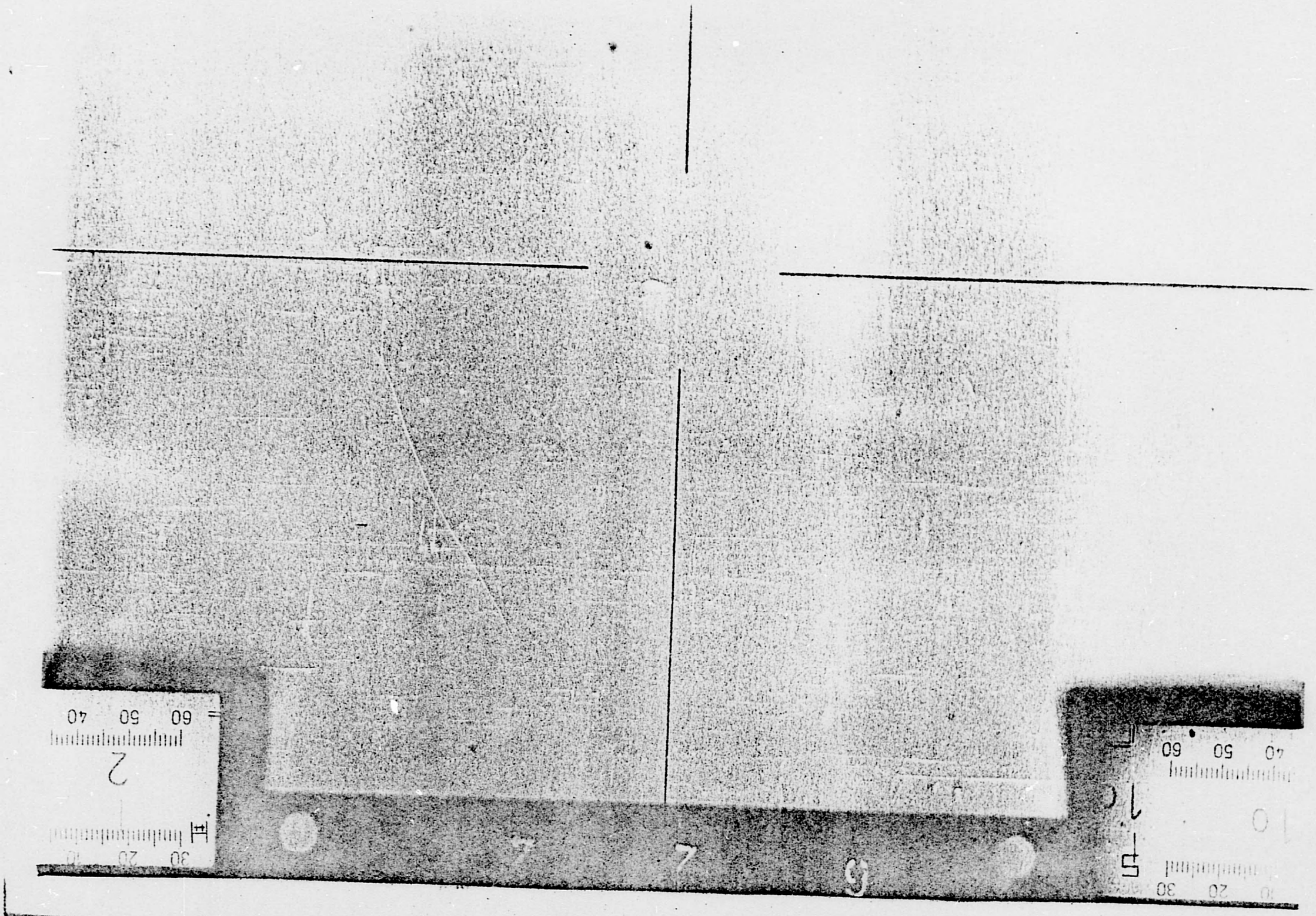

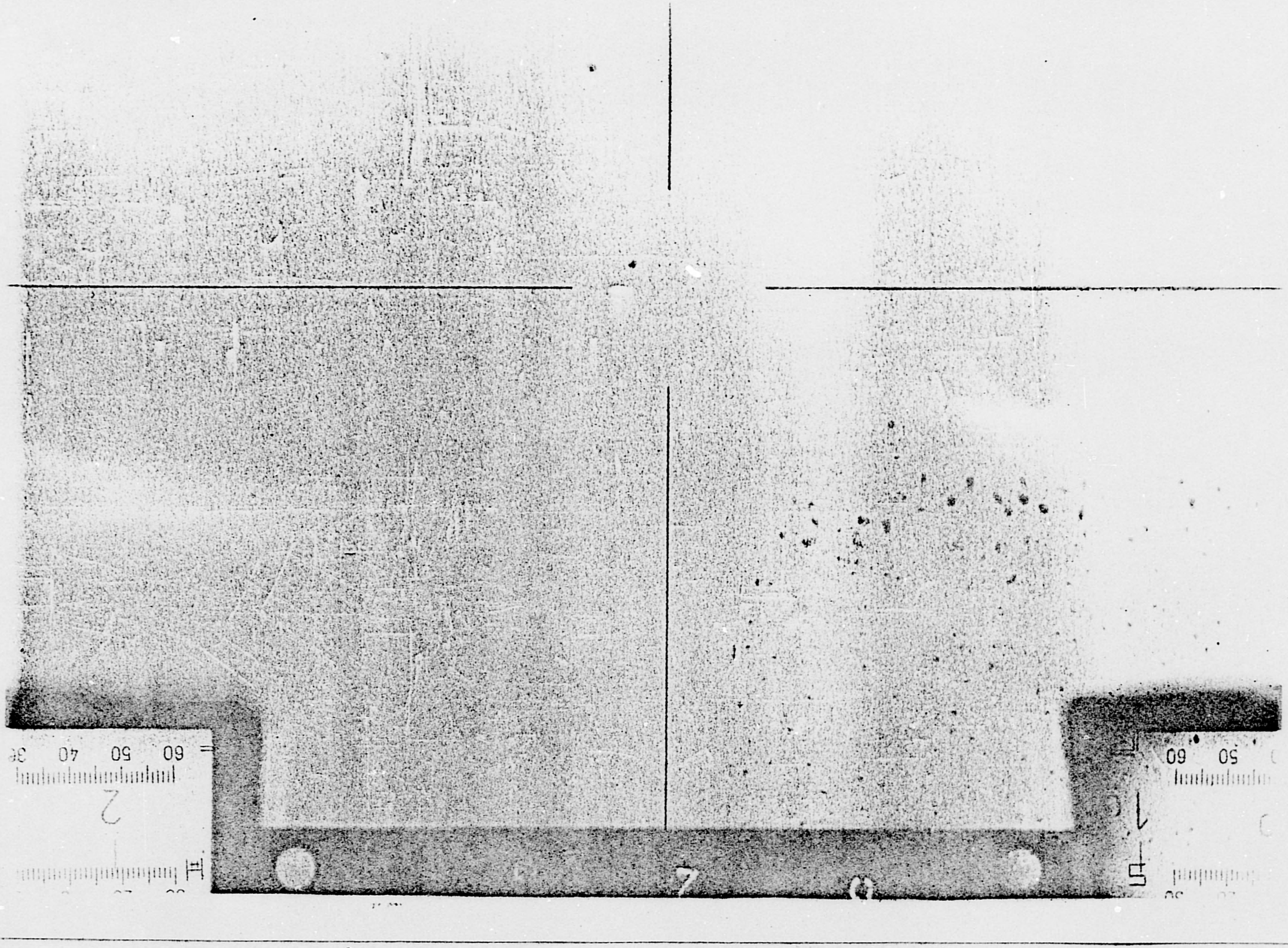

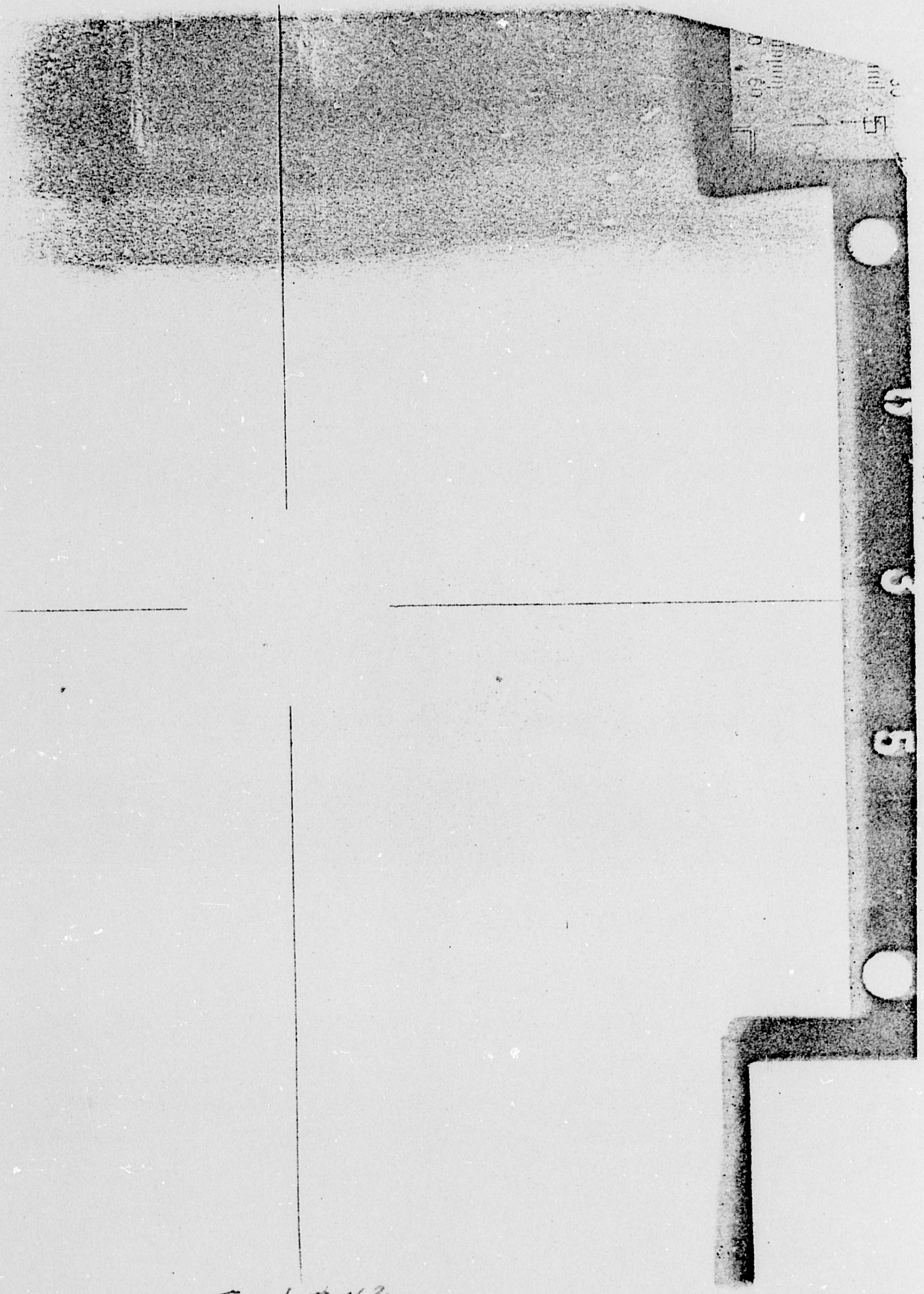

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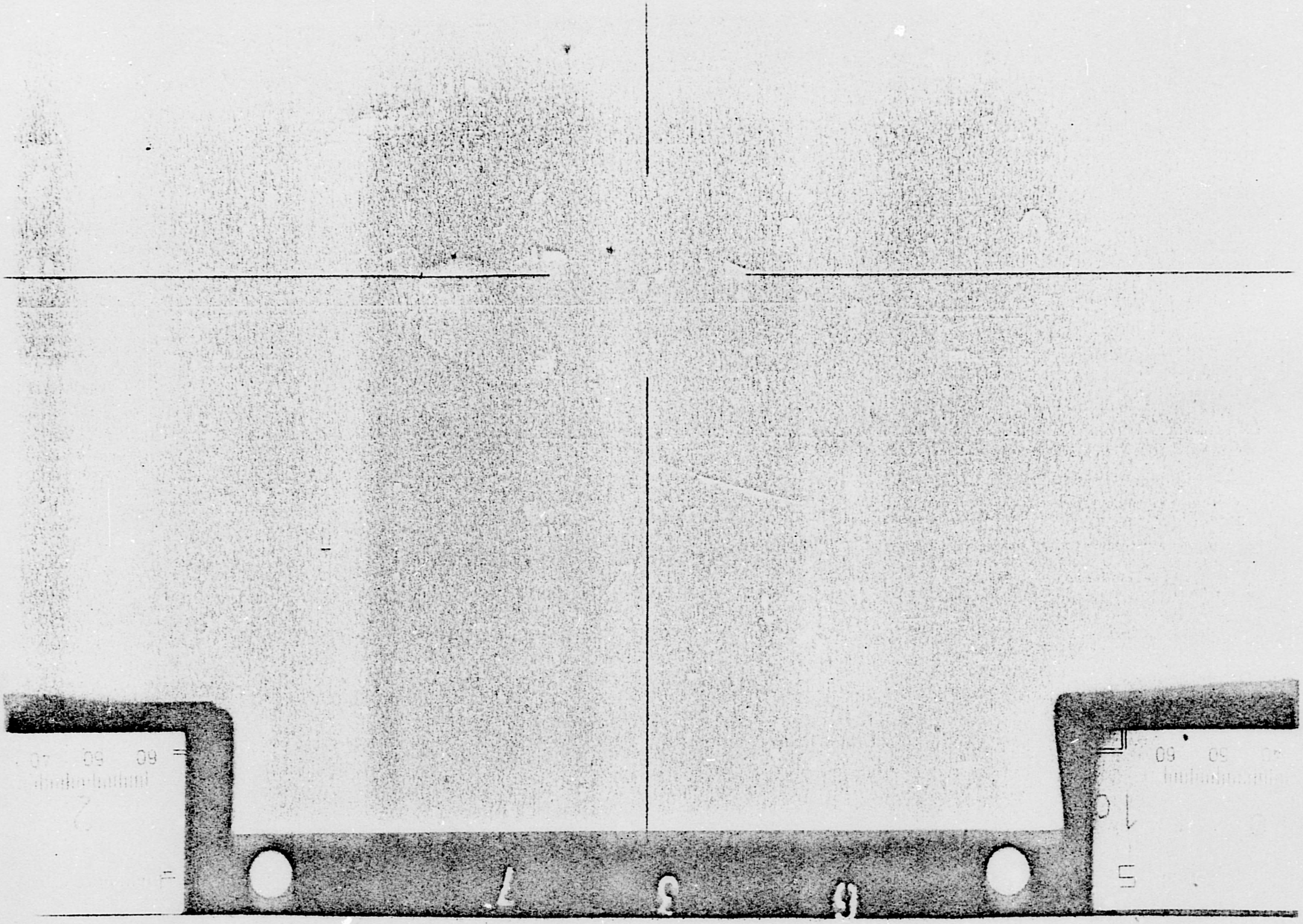

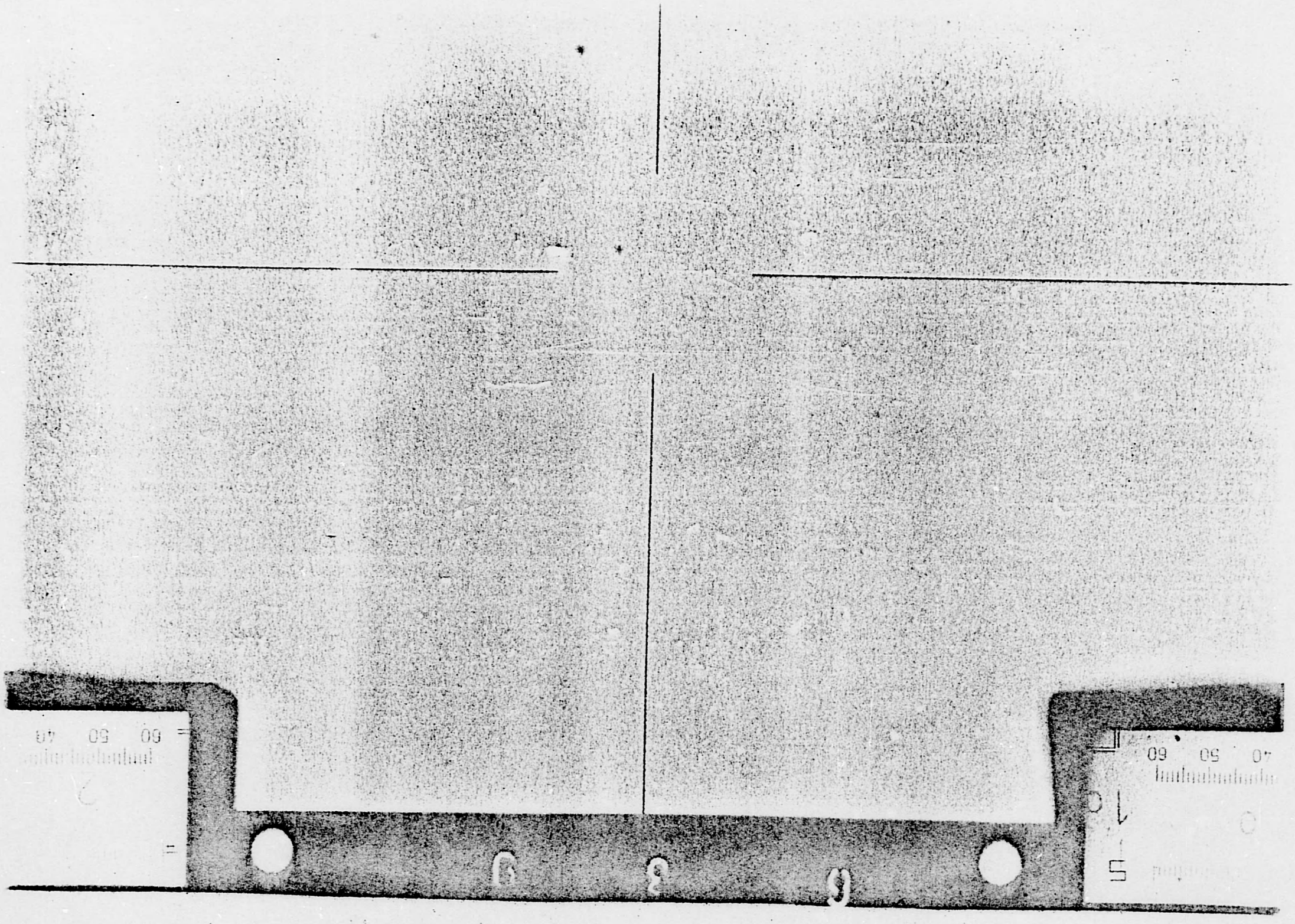

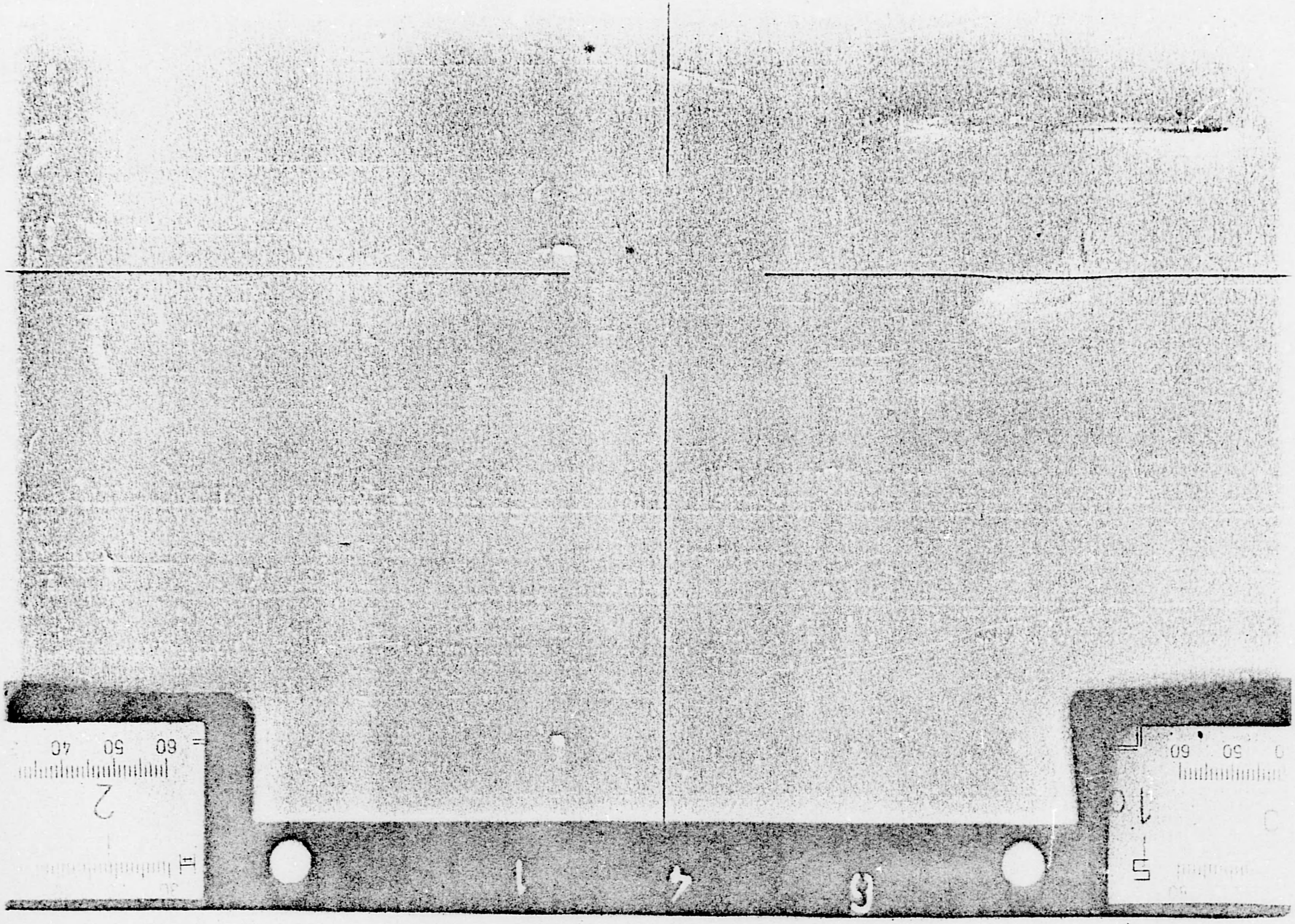

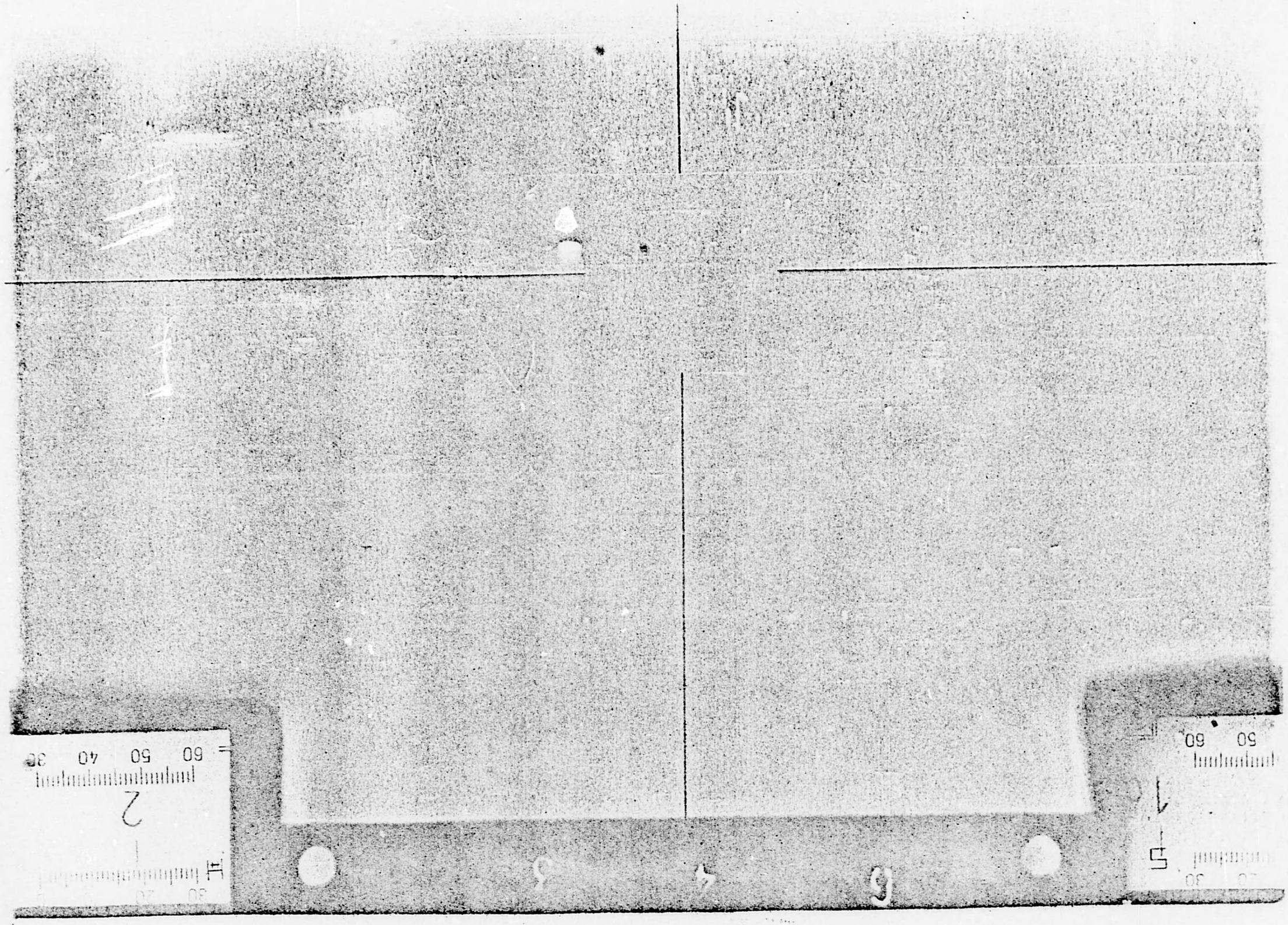

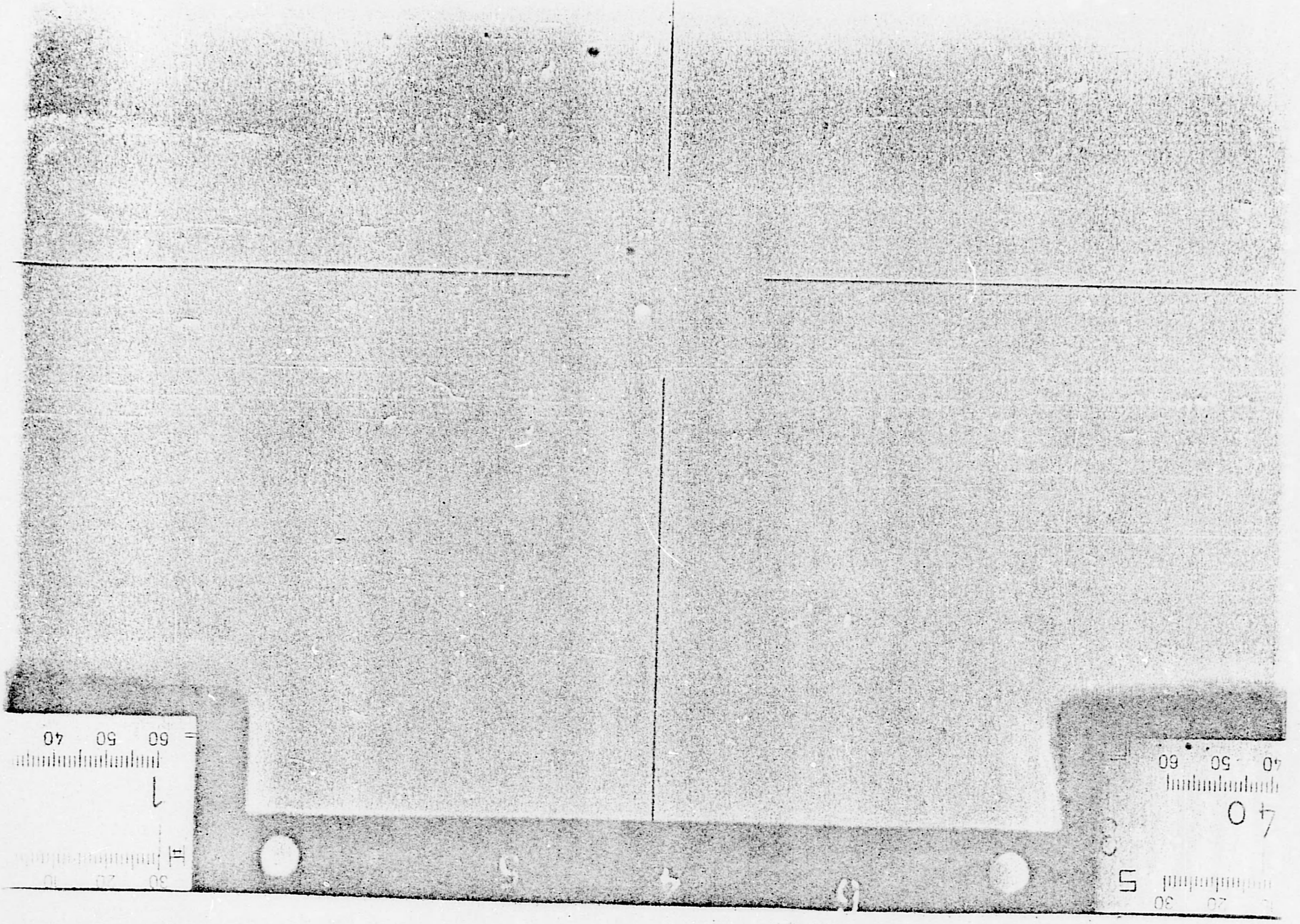

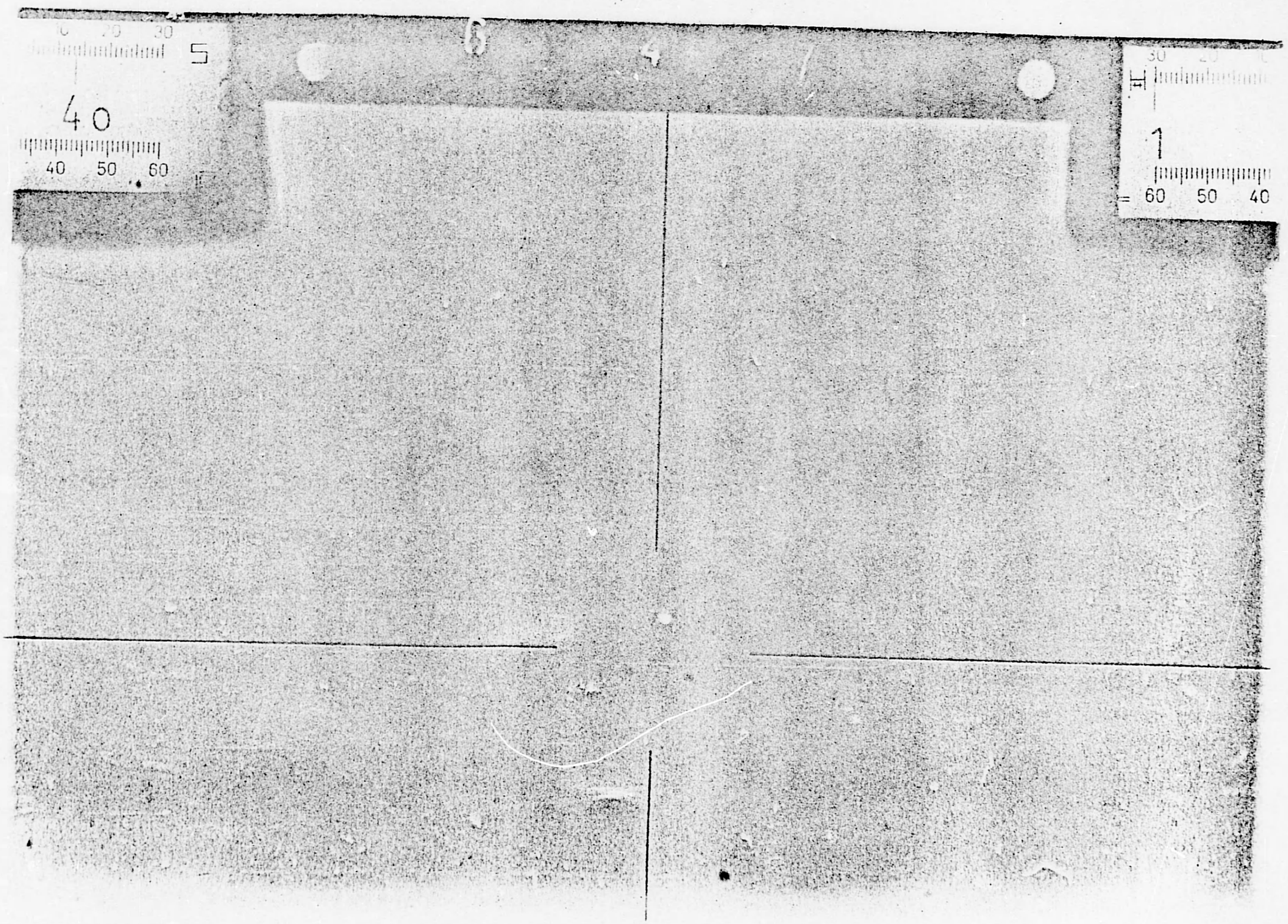
10 20 30
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40 50 60
30 20 10
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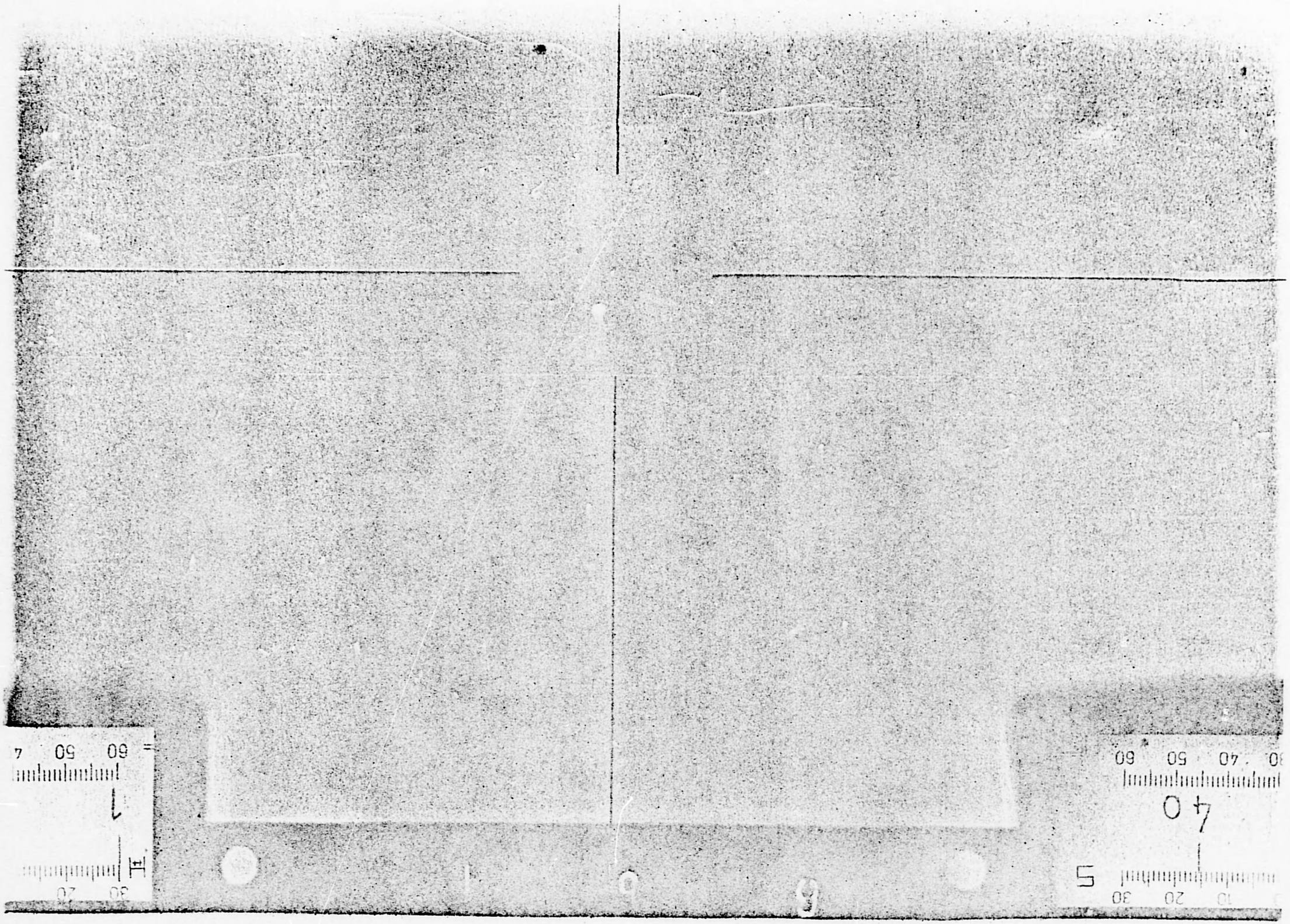
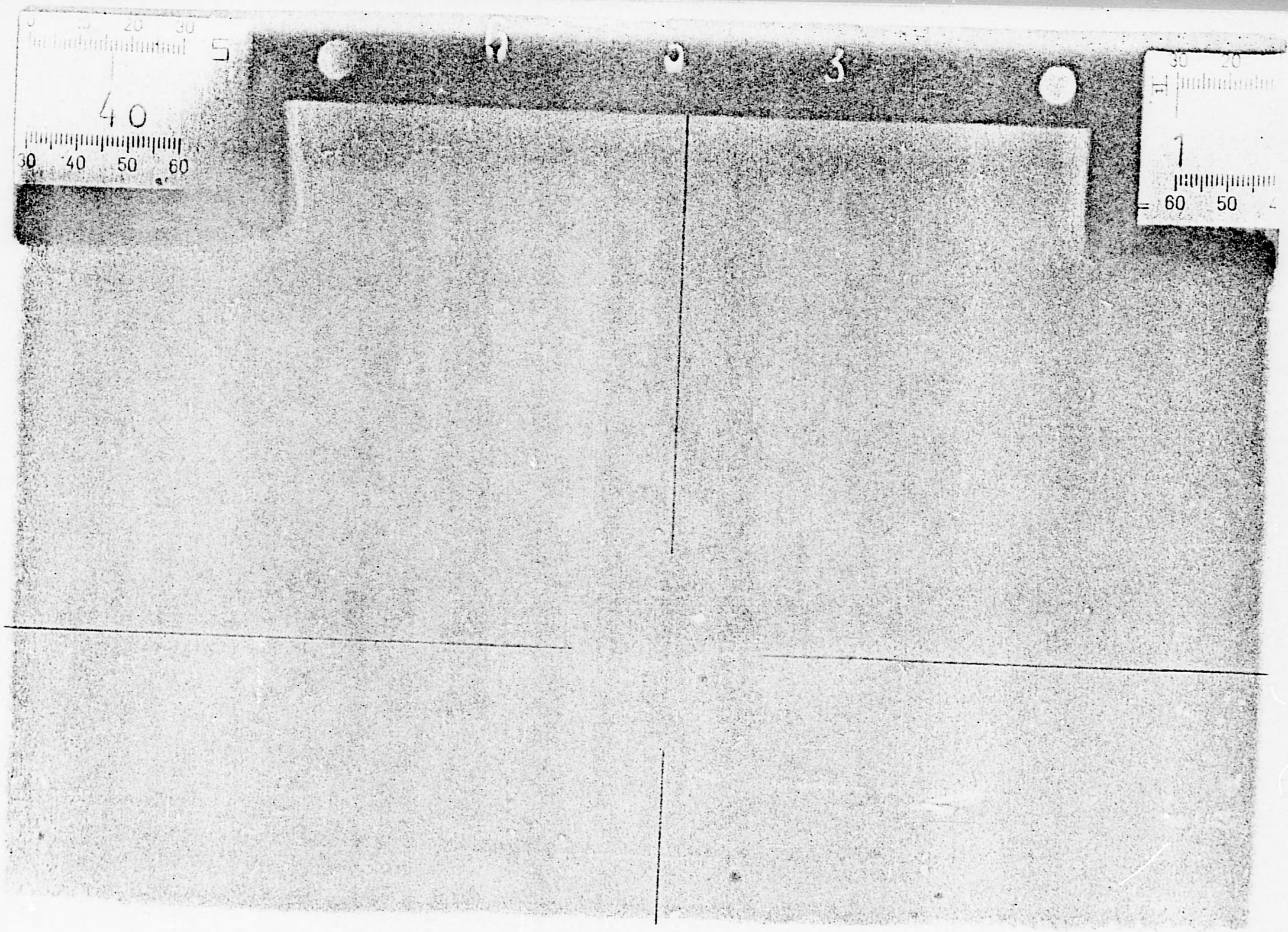
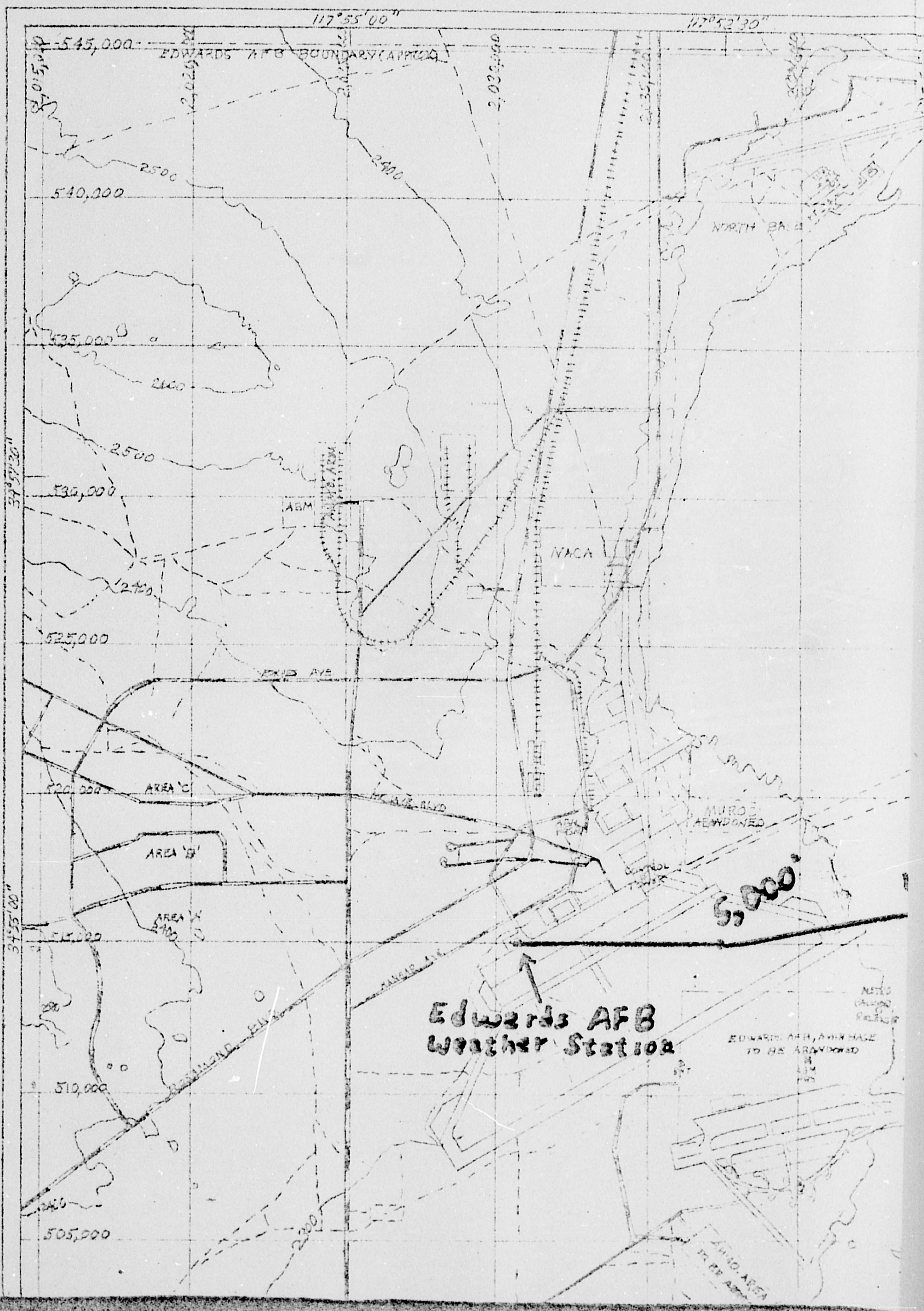
60 50 40





Edwards AFB Weather Station



117°52'30"

117°50'00"

117° 4

NORTH BASE

NACA

MUROC ABANDONED

ABU

5,000'

10,000'

15,000'

20,000'

25,000'

30,000'

35,0

ROGERS

DRY

LAKE

MOJAVE CLAY CORP.

METRO CALIBRATION RELEASE

EDWARDS AFB, MAIN BASE TO BE ABANDONED

AIRCRAFT AREA TO BE ABANDONED

Edwards AFB Weather Station

117°47'30"

117°45'00"

117°42'30"

2,000 ft

2,050 ft

2,070 ft

2,075 ft

2,080 ft

2,085 ft

2,090 ft

2,100 ft

2,110 ft

2,120 ft

2,130 ft

2,140 ft

2,150 ft

2,160 ft

2,170 ft

2,180 ft

2,190 ft

2,200 ft

2,210 ft

2,220 ft

2,230 ft

2,240 ft

2,250 ft

2,260 ft

2,270 ft

2,280 ft

2,290 ft

2,300 ft

2,310 ft

2,320 ft

2,330 ft

2,340 ft

2,350 ft

2,360 ft

2,370 ft

2,380 ft

2,390 ft

2,400 ft

PB1

PB2

PB3

PB4

+ Q AXIS

PACIFIC CLAY CORP.

ROCKET

10,000 FT SHOT

9,000'

35,000'

ESTIMATED DEPTH OF 40,000'

INVERSION

117°40'00"

117°37'30"

BORON

EDWARDS AFB BOUNDARY (APPROX)

LEUHMAN RIDGE

ROGERS DRY LAKE

FB-3

ROCKET TRACK

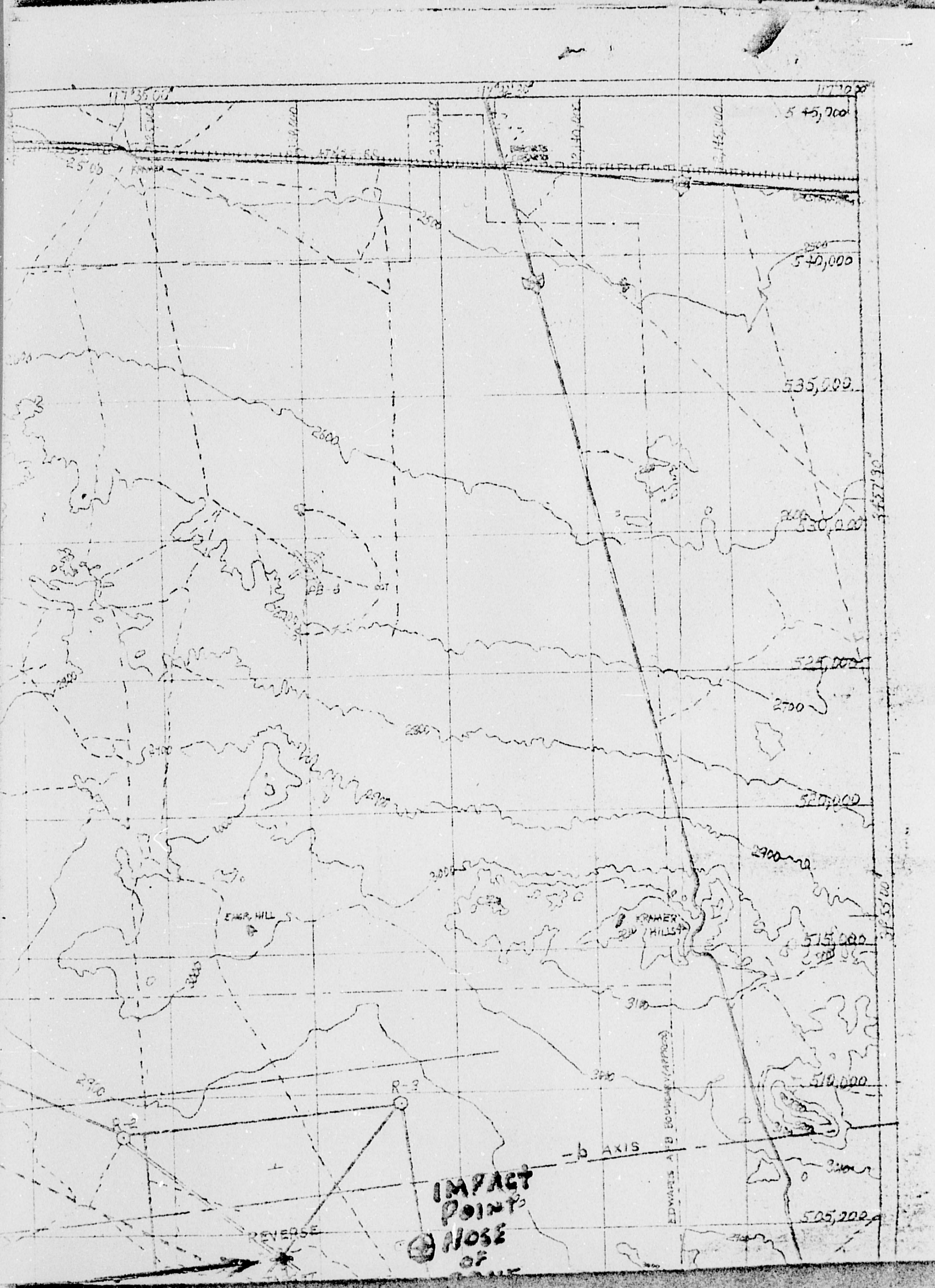
MASTER

24,000 FT TARGET

FB-2

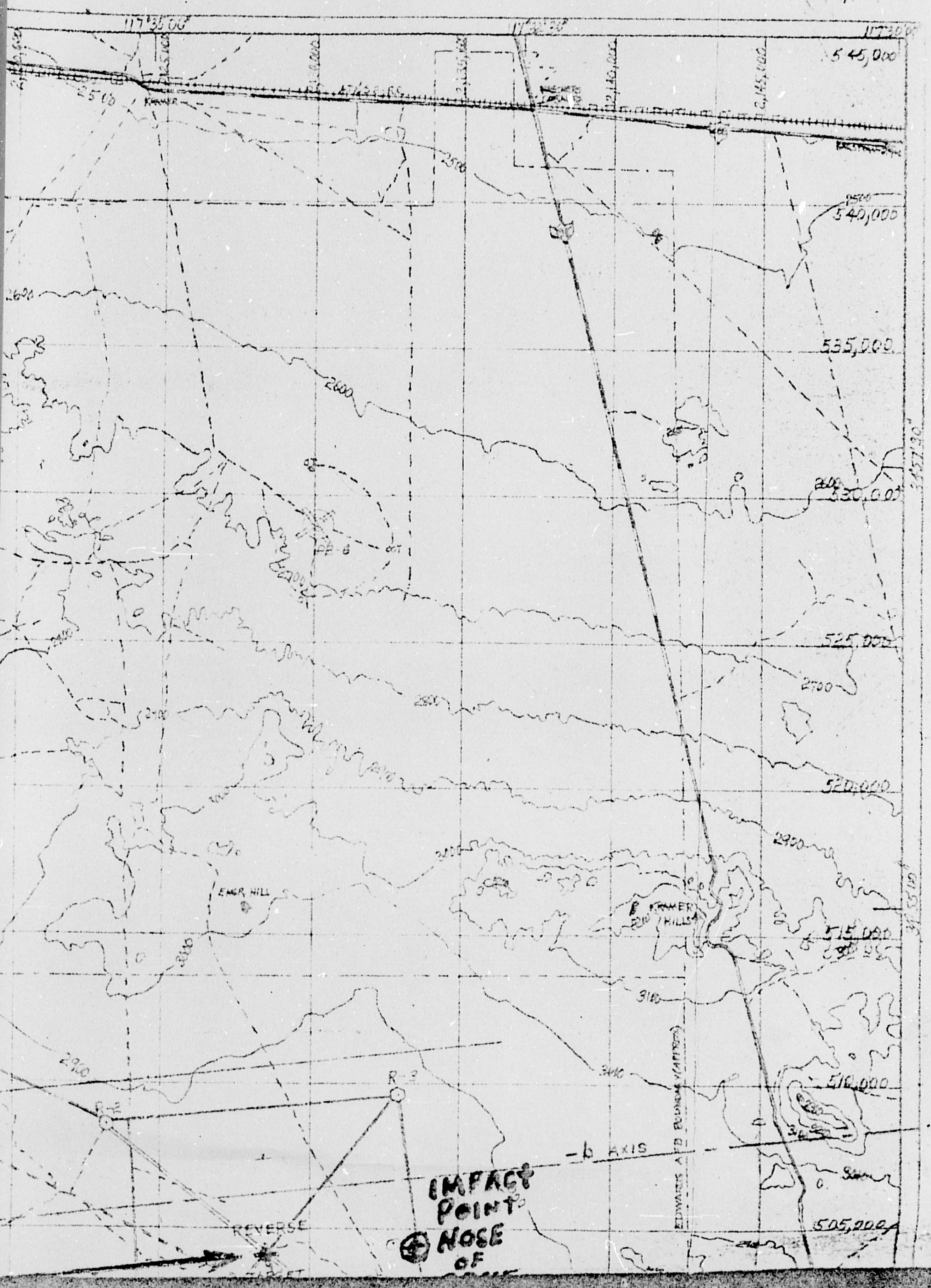
NORMAL BOMBING COURSE
263° M, 47° TRUE

ABM BOMBING / RANGE BOUNDARY (APPROX)


117°35'00"
117°32'30"
117°30'00"
5 +5,700
5 +0,000
535,000
525,000
520,000
515,000
510,000
505,200
34°37'30"
34°35'00"
25'06
KRAMER
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
EMER. HILL
KRAMER HILLS
EDWARDS A.F.B. BOUNDARY (APPROX.)
R-3
R-2
-b AXIS
REVERSE
IMPACT POINT
NOSE OF

22 ONLY 8 X 10
GLOSSY PHOTOGRAPHS
OF UFO SIGHTED AT
EDWARDS AFB, CALIF.

UNCLASSIFIED


117°35'00"
117°32'30"
117°30'00"
545,000
540,000
535,000
530,000
525,000
520,000
515,000
510,000
505,000
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
EMER HILL
KRAMER HILLS
EDWARDS AIR FORCE BASE (SOUTH)
R-2
R-1
-b AXIS
IMPACT POINT
NOSE OF
REVERSE

117°37'30"

117°35'00"

BORON

EDWARDS AFB

EDWARDS AFB BOUNDARY (APPROX)

PB-3

PB-2

EMER. HILL

BM BOMBING RANGE BOUNDARY (APPROX)

NORMAL BOMBING COURSE
263° 44' 47" TRUE

REVERSE

R-0

R-2

R-3

117°45'00"

117°42'30"

117°40'00"

2,075,000

2,050,000

2,025,000

2,000,000

1,975,000

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

5000

5100

5200

5300

5400

5500

5600

5700

5800

5900

6000

6100

6200

6300

117°50'00"

117°47'30"

117°

PB

MOJAVE CLAY CORP.

ROGERS DRY LAKE

10,000'

15,000'

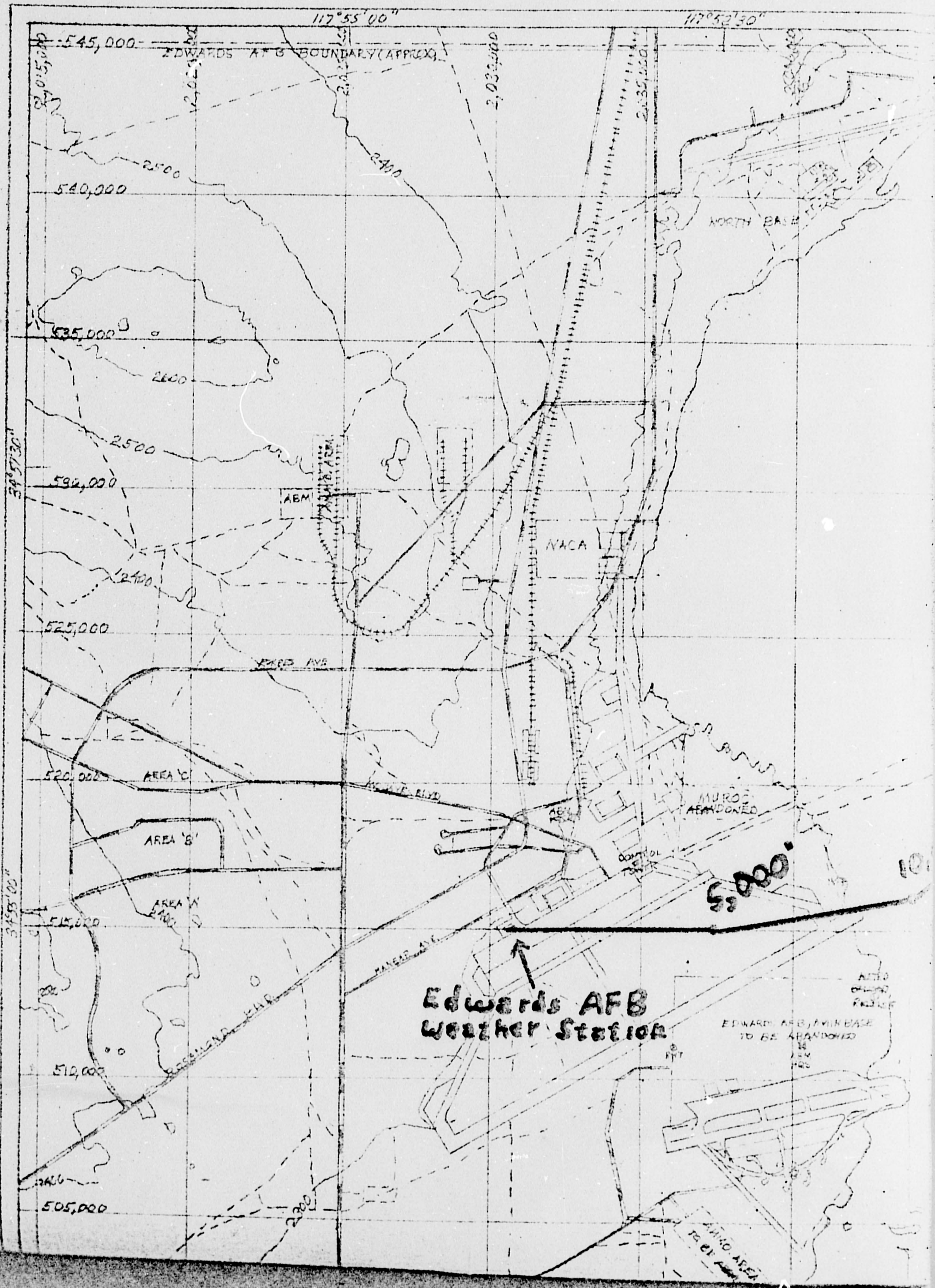
20,000'

25,000'

30,000'

35,000'

ESTIMATED PATH OF 40,000'


117°55'00"
117°52'30"
545,000
EDWARDS AFB BOUNDARY (APPROX)
2,035,000
2,030,000
2500
2400
540,000
535,000
2600
2500
590,000
ABM
2400
525,000
NACA
AREA 'C'
520,000
AREA 'B'
AREA 'A'
515,000
510,000
2400
505,000
2300
NORTH BASE
MUROC
ABANDONED
Edwards AFB
Weather Station
EDWARDS AFB, MAIN BASE
TO BE ABANDONED