1. DATE - TIME GROUP 15 October 53 15/1610Z	**2. LOCATION** Minneapolis, Minnesota
3. SOURCE Civilians	**10. CONCLUSION** UNIDENTIFIED
4. NUMBER OF OBJECTS One	
5. LENGTH OF OBSERVATION 40 Seconds	**11. BRIEF SUMMARY AND ANALYSIS** Three Res engineers observed a white smoke or vapor trail at 40-50,000 ft, while tracking a 79 ft balloon at 72,000 ft through theodolite. Object moved in horizontal flight for approx 30 secs at a rate of 10 deg per 9 seconds (est 900 mph) then began vertical dive lasting 10-15 seconds. During dive object was visible several times appearing to glow. As object leveled off smoke trails ceased. Observation made from roof of General Mills Laboratory.
6. TYPE OF OBSERVATION Ground-Visual	
7. COURSE SE	
8. PHOTOS ☐ Yes ☒ No	
9. PHYSICAL EVIDENCE ☐ Yes ☒ No	

15 Oct | Minneapolis | fireball | 6-5

COMMENTS: One of the observers is a meteorological engineer & is considered to be completely reliable. The other two sources are also considered reliable. The nearest AC&W facility was inoperativ at the time of the sighting. Two F-86 a/c were in the area SE of Minneapolis at time of observation but this does not correlate with them. Sounds like a/c except for duration. UNIDENTIFIED. Dr Hynek records as fireball.

FORM
FTD SEP 63 0-329 (TDE) Previous editions of this form may be used.

23 Oct 53 1926Z

UNCLASSIFIED

UPB170

YMA2830

JEDNG 239

RR JEDEN JEDKF JEDWP JEPHQ 444

DE JEDNG 0130A

R 231715Z ZNJ

FM COMDR 31ST AIR DIV ST PAUL MINN

TO JEPHQ/DIRECTOR OF INTELLIGENCE HQ USAF WASH 25 DC

JEDWP/AIR TECHNICAL INTELLIGENCE CENTER WRIGHT PATTERSON AFB OHIO

INFO JEDEN/COMDR ADC ENT AFB COLORADO SPRINGS COLO

JEDKF/COMDR CADF KANSAS CITY MISSOURI

UNCLASSIFIED

[redacted]/UD2569 WRIGHT PATTERSON ATTN: ATIAA-2C PD THIS IS A FLYOBRPT PD REF AFL 200-5 PD FOLLOWING DATA IS SUBMITTED FOR YOUR INFO PD (1) SMOKE OR VAPOR TRAIL EMANATING FROM UNDETERMINED SOURCE SIGHTED AT 40,000 TO 50,000 FT BY THREE RESEARCH ENGINEERS WHILE TRACKING A 79 FT BALLOON AT 73,000 FT PD SIZE OF OBJECT APPEARED TO BE OF SAME MAGNITUDE AS BALLOON IN THEODOLITE FIELD PD TRAIL WAS WHITE PD NO SOUND PD OBJECT MOVED IN HORIZONTAL FLT FOR APPROX 30 SEC AT A RATE OF 10 DEG PER 9 SEC PD EST SPEED CLN 900 MPH PD OBJECT BEGAN VERTICAL DIVE LASTING 10 TO 15 SEC PD DURING DIVE OBJECT WAS VISIBLE SEVERAL TIMES APPEARING TO GLOW PD AS OBJECT LEVELLED FROM DIVE SMOKE TRAILS

PAGE JEDNG J10A

CEASED PD AT THIS TIME OBJECT APPEARED AS A GREY MASS THROUGH THE THEODOLITE PD OBJECT DISAPPEARED IN A FLASH SIMILAR TO MIRROR REFLECTING SUNLIGHT PD AT NO TIME DID SMOKE TRAIL PERSIST PD TRAIL FOLLOWED OBJECT IN MANNER OF A COMET PD (2) OBJECT SIGHTED BETWEEN 1010 AND 1015S 15 OCT 53 PD DURATION OF OBSERV APPROX 4½ SEC PD (3) OBSERV MADE FROM ROOF OF GENERAL MILLS LAB THROUGH THEODOLIE PD (4) LAB ADDRESS CLN 2603 E HENNIPIN AVE CMA ST PAUL CMA MINN PD OBJECT OBSV OVER FT SNELLING (APPROX 12 MILE SOUTH) PD OBJECT HEADING SE DIR PD (5) EVAL OF INFO CLN A-2 PD INFO ON OBSVRS CLN F[redacted] CLN 2[redacted] CMA WHITE BEAR LAKE CMA MINN PD METEOROLOGICAL ENG CMA GRAD OF MIT CMA FORMER B-17 PILOT PD R[redacted] CLN [redacted] SE CMA MPLS CMA MINN PD GEN MILL R&D ENGINEER PD TWO YRS POST GRAD WORK IN SUPERSONIC AERODYNAMICS PD PRIVATE PILOT PD [redacted] CLN GEN MILLS R&D ENGINEER PD [redacted] CMA ST PAUL ST PAUL CMA MINN PD (6) WEATHER COND CLN VFR CMA CLR SKY CMA SLIGHT BREZE CMA WARM AND DRY PD (7) UDEETERMINED (8) NEGATIVE (9) COMBAT OPS CTR 31ST AIR DIV (DEF) RPTS NO UNIDENTIFIED OBJECTS AT TIME AND PLACE OF SIGHTING PD (10) BALLOON UNDER OBSEV BY ABOVE ENGINEERS IS ONLY KNOWN AIR TRAFFIC AT TIME OF SIGHTING PD END

23/1825Z OCT JEDNG

[redacted]

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ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

1049/KC

2-NJ 28/2337

UNCLASSIFIED

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator)

COMDR ATIC

TO: ~~COMDR~~ 31st AIR DIVISION ST PAUL MINN

JEDNG

INFO: UNCLASSIFIED

[redacted]

FROM: AFOIN-ATIAE-10-11-E

DATE-TIME GROUP	SECURITY CLASSIFICATION
271915Z OCT 53	RESTRICTED
PRECEDENCE FOR: ROUTINE	ACTION / INFORMATION
☐ BOOK MESSAGE	☐ ORIGINAL MESSAGE
☐ MULTIPLE ADDRESS	CRYPTOPRECAUTION ☐ YES ☒ NO

REFERS TO MESSAGE:

IDENTIFICATION	CLASSIFICATION
WD2569	[redacted]

UNCLASSIFIED

Reurmsg WD2569 regarding the observation of a UFOB at 1010 CST 23 Oct 53 by 3 engineers at General Mills, Minneapolis, Minnesota. Request you check surrounding Flight Service Centers and Flight Operations for possible aircraft in the area. In reply cite Project Blue Book.

COORDINATION:

ATIAE-5 Max G. Futch DATE 27 OCT 53
A/1C FUTCH

ATIAE R.C. Johnston DATE 27 Oct 53
LT COL JOHNSTON

ATIA for Allen F. Hoy DATE 28 Oct 53
COL O'HERN

OCT 53 21 332

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UNCLASSIFIED SECURITY INFORMATION

SECURITY CLASSIFICATION: RESTRICTED

PAGE 1 OF 1 PAGES

DRAFTER'S NAME (or signature, when required)	RELEASING OFFICER'S SIGNATURE
A/1C Max G. Futch/jos	R C Schum
SYMBOL ATIAE-5 / TELEPHONE 65365	OFFICIAL TITLE R. C. SCHUM, CWO, USAF Asst. Adjutant

DD FORM 1 OCT 49 173 REPLACES NME FORM 173, 1 MAY 48, WHICH MAY BE USED.

16—54923-3 ☆ U. S. GOVERNMENT PRINTING OFFICE

21

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[redacted]

Multi

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JEDNG ØØ4
RR JEDWP
DE JEDNG Ø1A
R 3Ø2155Z ZNJ
FM COMDR 31ST ADIV ST PAUL MINN
TO CHIEF ATIC WRIGHT PATTERSON AFB OHIO
/R[redacted]WD 2823 PD ATTN ATTIAA-2C REURMSG CITE PROJECT
BLUE BOOK PD COMPLETE RPT SUBMITTED DIRECTLY TO YOU VIA AF FORM ONE ONE
TWO DATED TWO ONE OCTOBER ONE NINE FIVE THREE PD FLIGHT SERVICE RPT
INDICATES TWO FOX DASH EIGHT SIX IN AREA SOUTH AND WEST OF
INNEAPOLIS AT APPROXIMATE TIME HOWEVER THIS DOES NOT IN ITSELF
ATISFY OR CORRELATE WITH SUBJECT OBSERVATION PD
1/ØØØ1Z OCT JEDNG

UNCLASSIFIED

Minneapolis
Ex Sinclair Minn
15/10/10

0158 01 15z

1. AF
2. Aten
3.
4. R file

2 NOV 1953 08 42

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[redacted]

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[redacted]

2077

HEADQUARTERS
31ST AIR DIVISION
St Paul 11, Minnesota

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WD 319.1

27 OCT 1953

SUBJECT: FLYOBRPT

TO : Chief
Air Technical Intelligence Center
ATTN: ATIAA-2c
Wright-Patterson AFB, Ohio

Forwarded herewith is FLYOBRPT in accordance with AFL 200-5, 29 April 1952.

FOR THE COMMANDER:

Henry C Barnes

HENRY C. BARNES
1st Lt., USAF
Assistant Adjutant

1 Incl
FLYOBRPT (21 Oct 53)

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[redacted]

AF FORM 112
APPROVED 1 JUNE 1948

[redacted]

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COUNTRY	REPORT NO.	(LEAVE BLANK)
UNITED STATES		

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT: FLYOBRPT

AREA REPORTED ON	FROM (Agency)
FT. SNELLING, MINNESOTA	Flt 2-A, 4602D AISS

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
21 Oct 1953	15 Oct 1953	A-2

PREPARED BY (Officer)	SOURCE
TIMOTHY J DELANTY, 2d Lt., USAF	[redacted]

REFERENCES (Control number, directive, previous report, etc., as applicable)

AFL 200-2, ATIC FLYOBRPTS MANUAL, 25 July 1953

SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 113—Part II.)

I. SUMMARY: An unidentified flying object was reported by three (3) research engineers employed by General Mills Aeronautical Laboratories. It was observed during the theodolite tracking of a 79 foot balloon over ST. PAUL at 73,000 feet between 1010S and 1015S 15 October 1953.

The object was first observed as a comet-like smoke trail heading southward in horizontal flight passing below the sun which was at an elevation of approximately 25°. No sound was discernible during the entire observation. Object progressed in horizontal flight with an estimated altitude of 40,000 feet for approximately 30 seconds at the rate of 10° per 9 seconds. This represent 15 miles per minute or 900 miles per hour. (See chart I for variations on assumed altitude and speed). Object then began a vertical dive lasting 10 to 15 seconds. During this time it was visible several times appearing to glow. As object leveled from dive the smoke trails ceased and appeared as a grey mass through the theodolite screen. The object then disappeared from view in a quick flash reminiscent of a mirror reflecting sunlight. SOURCES say that object appeared to be of the same magnitude in the theodolite field as the balloon which they were tracking.

II. COMMENTS OF PREPARING OFFICER: All three men have extensive engineering background and two have flying experience. Mr. [redacted] a former B-17 pilot, is a Meteorological Engineer; Mr. [redacted] a private pilot, has 2 years post graduate work in Supersonic Aerodynamics; Mr. [redacted] is a Development Engineer. Mr. [redacted] made the entire observations with the naked eye while Mr. [redacted] observed the first portion of the flight through the theodolite. Mr. [redacted] observed the object through the theodolite during the last phases of flight.

What information has been obtained from SOURCES is believed to be completely reliable. The estimated altitude at which the smoke trails were observed leaves considerable room for speculation. Initial estimates were given in the vicinity of 40,000 feet but upon inquiry all

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE 2 OF 2 PAGES
Flt 2-A, 4602D AISS		

three men agreed that it could have been as high as 60,000 feet since they could not accurately determine the altitude with the theodolite. In addition to this fact they were unable to make a positive estimate as to the depth of field from the observation post to where the object was flying. These estimates were in relationship to known position of the balloon.

Timothy J. Delanty
TIMOTHY J DELANTY
2d Lt., USAF
OIC Flight 2-A

4 Incls
1. Elev Alt Chart
2. Info Sheet Form A Mr. [redacted]
3. Info Sheet Form A Mr. [redacted]
4. Info Sheet Form A Mr. [redacted]

III. COMMENTS OF APPROVING OFFICER: Review of source material reveals initial sentence in paragraph two of this Summary concerning elevation of observation refers to the sighted object rather than the sun.

The nearest AC&I facility to the point of this observation was at the time of the observation inoperative however the logs of this organization show two (2) F-86's in the area south and west of Minneapolis at this time. This information is in no way intended to definitely correlate subject observation with these aircraft.

APPROVED:

Walter C. Clarke.
WALTER C. CLARKE
Major, USAF
Director of Intelligence
Headquarters 31st Air Division

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APPROVED 1 JUNE 1948

[redacted]

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE 1 OF 1 PAGES
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25° ELEVATION ANGLE

ASSUMED ALTITUDE	MILE RADIUS	DEGREE/SECOND	MILES PER HOUR
30,000	12	1	750
40,000	16	1	1000
50,000	21	1	1320

20° ELEVATION ANGLE

30,000	15.5	1	970
40,000	21	1	1320
50,000	26	1	1630

1015S 21 October 1953
Elevation Angle of Sun
29-30°

This chart prepared by Mr. [redacted] using degree of elevation for 21 October 1953. Figures cited are taken from GENERAL MILLS BALLOON ENGINEERING DESIGN MANUAL dated June 6 1950 Chart A-5781-C entitled "Elevation-Altitude Relationships from 0-40 Miles Corrected for Refraction and Curvature of the Earth"

Chart I

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[redacted]

U. S. GOVERNMENT PRINTING OFFICE

October 21, 1953

Report to: Air Intelligence Service Squadron, Flight 2A

SIGHTING OF UNIDENTIFIED OBJECT

The sighting described below took place during the theodolite tracking of a 79 ft. balloon floating at approximately 80,000 ft. on Project 85021 - Grab Bag. Observation was made from the roof at 2003 East Hennepin Avenue.

The time was between 1010 and 1015 CST on 15 Oct. 53. No sound was detected at any time during the observation.

The object was first observed as it passed below the sun at an elevation of approximately 25° heading southward in horizontal flight. It was detectable by a smoke or vapor trail which extended some distance behind it, but which did not persist, or form a cloud. The object itself was not visible even through the theodolite during the first part of the sighting.

During the horizontal part of its trajectory, the object moved across the sky at a rate of 10 degrees in 9 seconds. With an estimated altitude of 40,000 ft., this represents 15 miles per minute or 900 miles per hour.

After about 10 seconds of horizontal flight, the object appeared to go into a vertical dive. The possibility that the appearance of a dive was produced by the object merely receding into the distance seems unlikely since the speed normal to the line of sight was undiminished in the dive. The dive lasted for from 10 to 15 seconds at the end of which time the object was visible two or three times as it appeared to glow or reflect the light of the sun for perhaps a second at a time. Just at this time the vapor trail ceased, and for a second or two thereafter the object, its outlines still unrecognizable, was seen through the theodolite, not as a glare of (reflected?) light, but as a grey mass in the act of levelling off. Its size in the theodolite field was of the same magnitude as the 79 ft. balloon, which means that, since it was nearer, it would not be that large.

The observers believe that the object was most likely a jet aircraft, but several features were unusual.

1. The speed was higher than normally observed.
2. The vertical dive was a highly dangerous if not suicidal maneuver.
3. A jet aircraft in such a dive would be heard for miles, and would certainly cause a noticeable shock wave detectable in the area beneath it.
4. Vapor trails do not ordinarily occur during vertical motion (per Col. Shomo), though smoke trails could, of course.

It was thought that the Air Defense Command would be interested in what was seen, if

a. They had no aircraft in the vicinity which could account for it, or if
b. They had an aircraft accident which might be partly explained by this report.

Therefore, the above information was reported to:

Col. Shomo
Director of Combat Operations
31st Air Division
Telephone: Parker 9501, Ext. 7 or 8

the same morning.

Observers were:

[redacted]

FLB/mjm

Form A

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 undentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will not 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?

15 (Day) OCT (Month) 1953 (Year)

2. Time of day: 10 (Hour) 10-15 (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?

2003 E. Hennepin (Nearest Postal Address) Minneapolis (City or Town) Minnesota (State or Country)

Additional remarks: On the roof, using a theodolite on a tellos

5. Estimate how long you saw the object. ____ (Hours) ____ (Minutes) 20-25 (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

Incl #2

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. Many
b. A few c. Don't remember

8.2 MOON (Circle one)

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

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

(Circle one) (a. Yes (WHITE)) 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? The object, except at end was a white trail

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

possibly ice vapor

12. Did the object move behind something at anytime, particular a cloud? (Circle one) Yes (No) Don't know IF YOU answered YES, then tell what it moved behind: _____

13. Did the object appear: (Circle one) (a. Solid?) b. Transparent? c. Don't know
This was at the end of the sighting just after the vapor trail stopped?

14. Did the object move in front of something at anytime, particularly a cloud? (Circle one) Yes (No) Don't know IF You answered YES then tell what it moved in front of: _____

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

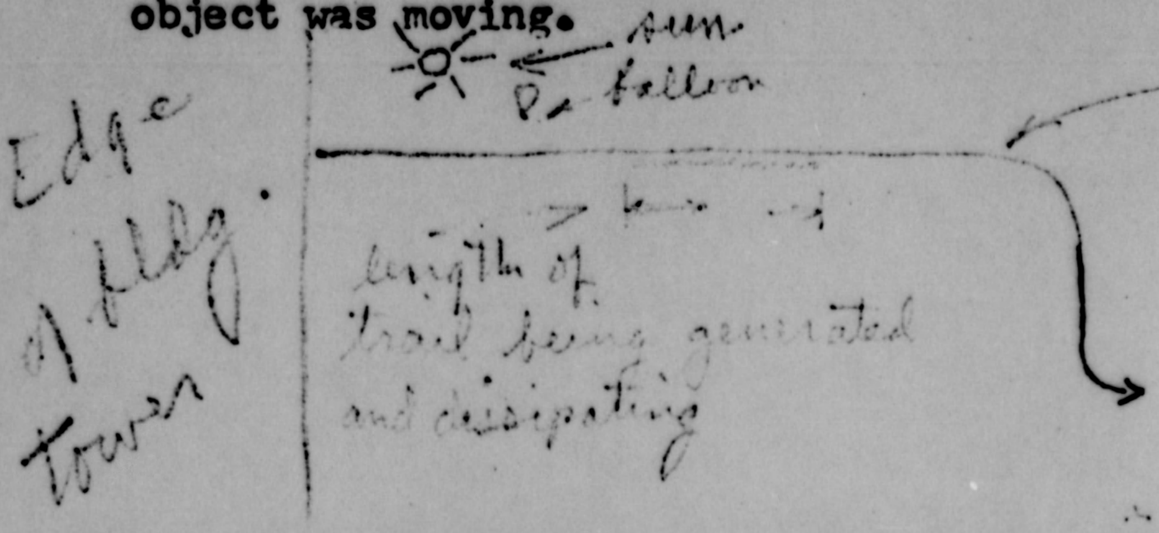
a. Eyeglasses?	Yes	No	e. Binoculars?	Yes	No
b. Sun glasses?	Yes	No	f. Telescope?	Yes	No
c. Windshield?	Yes	No	g. Theodolite?	(Yes)	No
d. Windowglass?	Yes	No	h. Other?		

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

a. Sound None

b. Color Highly reflective in glowing as trail stopped, then gray.

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 and arrow beside the drawing to show the direction the object was moving.



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 where there? _____
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 begining of the path, a "B" at the end of the path, and show any changes in direction during the course.

See 17. please.

21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
40-50 feet. (very poor data for this value)

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 dallar
h. Baseball
i. Grapefruit
j. Basketball
k. Other Seen through theodolite the object appeared about the same size as the balloon (79ft) but was closer, we believe.

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?
For a second or two after it flashed, at the moment that the vapor(?) trail stopped, it was visible through the theodolite as a gray mass without clear outlines.

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.

The object itself was never seen clearly enough to make possible any answers to this question.

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 On the roof

26. Were you (Circle one)
a. In the business section?
b. In the residential section?
c. In open countryside?
d. Flying near an airfield?
e. Flying over open contry?
f. Flying over a city?
g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it? We were tracking a balloon with a theodolite. It flew into the region of the sky being viewed.

28. 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 f. West
b. Northeast d. Southeast f. Southwest g. Northwest

28.2 How fast were you moving? _____ 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 f. West
b. Northeast d. South east f. South west g. Northwest

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

a. North c. East e. South f. West
b. Northwest d. Southeast f. Southwest g. Northwest

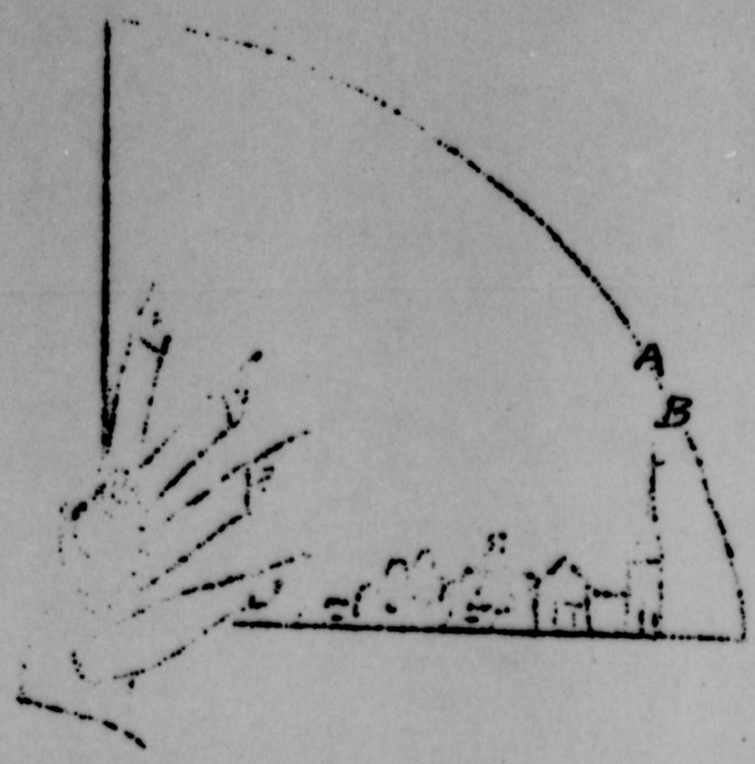
31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

31.1 When it first appeared:
a. From true North ~150 degrees.
b. From horizon 25 degrees.

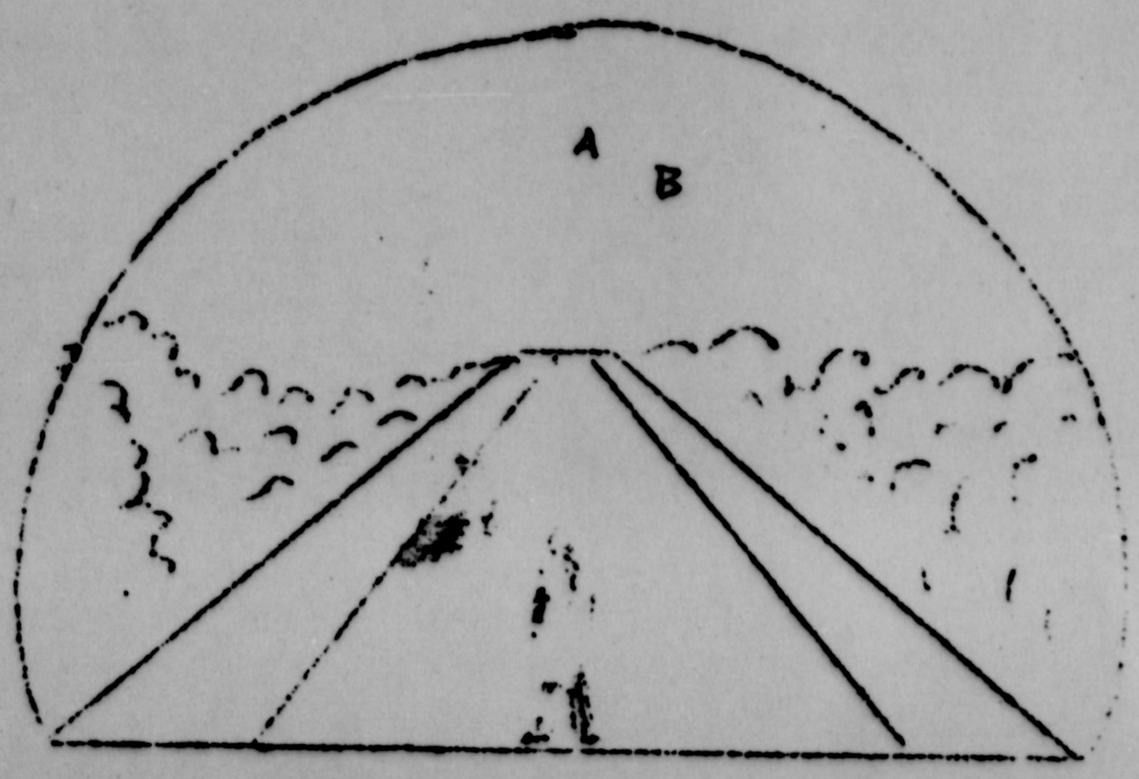
31.2 When it disappeared:
a. From true North ~150 degrees.
b. From horizon ~25 degrees

this can be determined more accurately by reference to the azimuth of the sun at the time.

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



33. In the following sketch place an "A" at the position the object was when <u>you first saw it</u>, and a "B" at its position when <u>you last saw it</u>.



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

34.1 CLOUDS (Circle one)

a. Clear sky
b. Hazy some haze in lower levels
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?

15 (DAY) Oct. (MONTH) 1953 (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? Yes No
36.2 Please list their names and addresses:

[redacted]
Minneapolis, Minn.

37. Was this the first time that you had seen an object or objects like this? Yes No

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

A plane leaving a vapor trail, or a sky writer appears much like the observed phenomenon, but the performance was unique.

38. In your opinio what do you thin the object was and what might have caused it? In my opinion, the object was either a jet aircraft, which went faster and through different maneuvers than ~~are~~ are usually associated with jets, or it was some object with which I am not familiar, and cannot imagine in detail.

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? 900 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? 79,000 feet.

41. Please give the following information about yourself:

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

ADDRESS [redacted] WHITE BEAR LAKE 10 MINN
Street City Zone State

TELEPHONE NUMBER [redacted]

What is your present job? Meteorologist Engineer

Age 35 Sex Male

Please indicate any special educational training that you have had.
a. Grade School
b. High School
c. College M.I.T.
d. Post graduate
e.e. Technical school Aircraft
(Type) maintenance
f. Other special training Pilot (USAF)

42. Date you completed this questionnaire:

21 Oct 1953
Day Month Year

FORM B

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 21 October, 1953

(Do not Write in This Space)

CODE:

See attached report.

Left out in this report is the fact that the trail was similar to that of a comet, that is, it remained constant in length, dissipating at its rear end as it moved across.

Form A

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 undentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will not 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?

15 (Day) Oct (Month) 1953 (Year)

2. Time of day: 10 (Hour) 10 (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?

[redacted] (Nearest Postal Address) MINNEAPOLIS (City or Town) MINN. (State or Country)

Additional remarks: ON ROOF OF 4 STORY BUILDING

5. Estimate how long you saw the object. _____ (Hours) _____ (Minutes) 45-55 (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

Incl #4

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. Many
b. A few c. Don't remember

8.2 MOON (Circle one)

a. Bright moonlight
b. Dull moonlight
c. No moonlight -- pitch black
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? WHITE BILLOWING TRAIL

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, particular a cloud? (Circle one) Yes No Don't know IF YOU answered YES, then tell what it moved behind: _____

13. Did the object appear: (Circle one) a. Solid? b. Transparent? c. Don't know

14. Did the object move in front of something at anytime, particularly a cloud? (Circle one) Yes No Don't know IF You answered YES then tell what it moved in front of: _____

15. Did you observe the object through an 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. Windowglass?	Yes	No	h. Other? _____		

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

a. Sound NONE

b. Color OBJECT NOT DISCERNIBLE, TRAIL WHITE

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 and arrow beside the drawing to show the direction the object was moving.

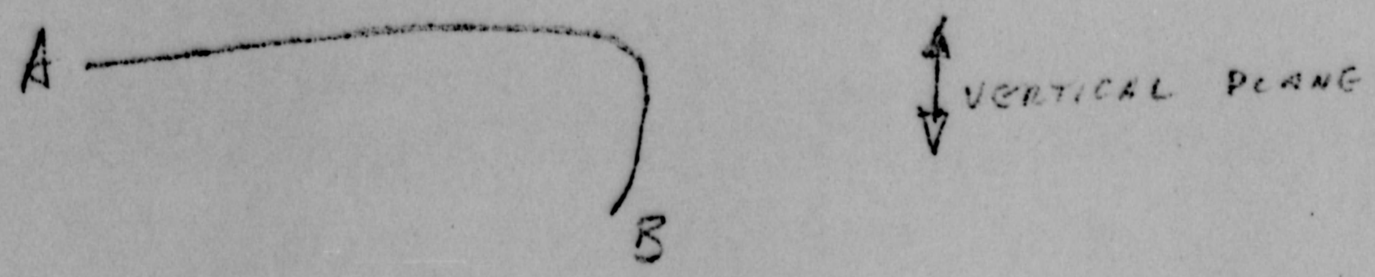
SEE ATTACHED SKETCH

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 NOT SEEN

19. IF there was MORE THAN ONE object, then how many where there? _____
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 begining 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.
? 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 dallar
h. Baseball
i. Grapefruit
j. Basketball
k. Other OBJECT NOT DISCERNABLE WITH NAKED EYE

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? VAPOR OR SMOKE TRAIL GRADUALLY DISSIPATED AND DISSAPEARED.

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.

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?)
b. In the residential section?
c. In open countryside?
d. Flying near an airfield?
e. Flying over open country?
f. Flying over a city?
g. Other_____

27. What were you doing at the time you saw the object, and how did you happen to notice it? OBSERVING A BALLOON (79 FT. DIAM. – 74000 FT.)
SMOKE TRAIL APPEARED FROM BEHIND BLDG. STRUCTURE AND PASSED IN VICINITY OF THE BALLOON.

28. 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 f. West
b. Northeast d. Southeast f. Southwest g. Northwest

28.2 How fast were you moving?_____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) f. West
b. Northeast d. South east ~~f. South west~~ g. Northwest

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

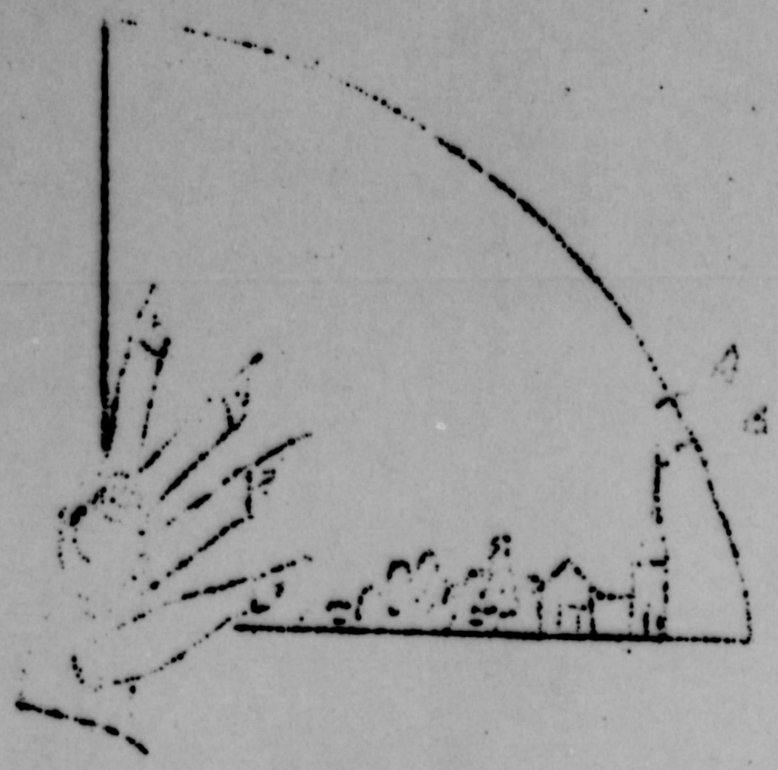
a. North c. East (e. South) f. West
b. Northwest d. Southeast f. Southwest g. Northwest

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).

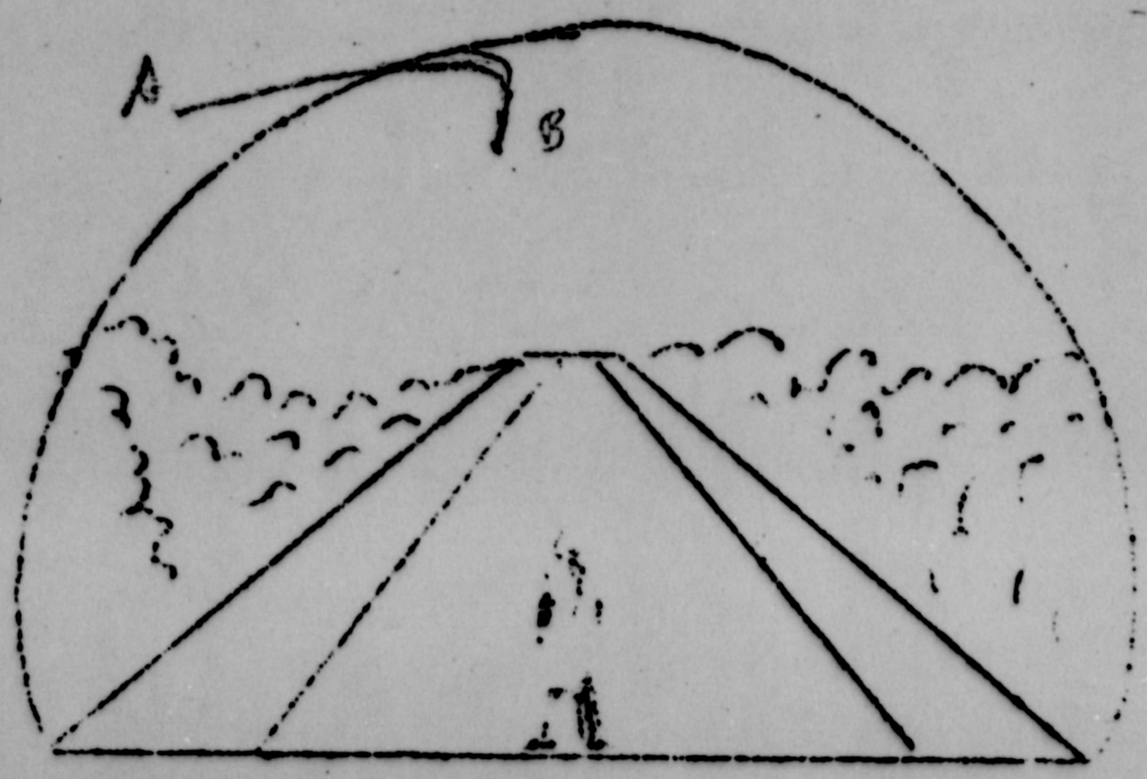
31.1 When it first appeared:
a. From true North 145-150 degrees.
b. From horizon 23-25 degrees.

31.2 When it disappeared:
a. From true North 175-180 degrees.
b. From horizon 18-20 degrees

32. In the following sketch, imagine that you are at the point shown. Place and "A" on the curved line to show how high the object was above the horizon (skyline) whe 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 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.



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?

15 / DAY — OCT / MONTH — 1953 / 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? (Yes) No
36.2 Please list their names and addresses:

FLETCHER BARTHOLOMEW

RICHARD REILLY

37. Was this the first time that you had seen an object or objects like this? (Yes) No

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

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

OBJECT APPEARED TO BE A VAPOR TRAIL, EXCEPT THAT IT DISSIPATED RAPIDLY. TRAIL WAS CAUSED BY A METALLIC OBJECT WHICH GLINTED IN THE SUN TWICE JUST BEFORE THE "VAPOR TRAIL" DISSIPATED COMPLETELY. LOOKED LIKE JET PERFORMANCE EXCEPT FOR EXTREME SPEED IN BOTH HORIZONTAL AND VERTICAL MOTION.

39. Do you think you can estimate the speed of the object?
(Circle One) (Yes) No IN ANGULAR TRAVEL

IF you answered YES, then what speed would you estimate? ≈ 1° AZIMUTH / SECOND

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? _____ feet.

41. Please give the following information about yourself:

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

ADDRESS [redacted] ST. PAUL 13 MINN
Street City Zone State

TELEPHONE NUMBER [redacted]

What is your present job? DEVELOPMENT ENGINEER - GENERAL MILLS ENGINEERING RESEARCH DEPT.

Age 24 Sex MALE

Please indicate any special educational training that you have had.
a. Grade School ✓
b. High School ✓
c. College ✓
d. Post graduate
e.e. Technical school
(Type)
f. Other special training

[redacted]

42. Date you completed this questionnaire:

21 OCT. 1953
Day Month Year

FORM B

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 21 OCT 53

(Do not Write in This Space)

CODE:

WHILE OBSERVING A BALLOON (ALT 77,000 FT) A WHITE TRAIL APPEARED IN THE SKY COMING FROM BEHND PART OF THE BUILDING STRUCTURE (ROOF OF BLDG.) IT FIRST APPEARED TO BE SMOKE WRITING, BUT VELOCITY WAS TOO GREAT, SO WE ASSUMED IT TO BE A VAPOR TRAIL FROM A JET. THE END OF THE SMOKE TRAIL DISSIPATED AS RAPIDLY AS THE BEGINNING WAS FORMED; THE LENGTH REMAINING ABOUT CONSTANT AND EQUAL TO ABOUT 5-8° IN AZIMUTH. AS TRAJECTORY STARTED DOWNWARD, IT WAS AT FIRST ASSUMED THAT THE OBJECT WAS MOVING AWAY FROM US. THEN THE VERTICAL MOVEMENT BECAME VERY RAPID, PROBABLY ABOUT AS FAST AS THE HORIZONTAL VELOCITY. AS THE OBJECT MOVED DOWNWARD, THE TRAIL BECAME LESS & LESS DISTINCT AND FINALLY, AS THE OBJECT APPEARED TO BEGIN LEVELING OUT, THE TRAIL DISSIPATED COMPLETELY. AT THIS SAME TIME, TWO FLASHES WERE SEEN, WHICH WE ASSUMED TO BE REFLECTIONS FROM THE SUN AS THE OBJECT ROLLED ABOUT ITS LONGITUDINAL AXIS. THIS COULD BE EXPECTED FROM MANEUVERS IN A CONVENTIONAL CRAFT

THE QUESTIONABLE ASPECTS OF THE SIGHTING WERE THE DISSIPATION OF THE TRAIL - UNCOMMON FOR VAPOR TRAILS; AND THE APPARENT SPEED, ESPECIALLY VERTICAL SPEED. USING THE ELEVATION ANGLE (≈ 23°) AND THE RATE OF ANGULAR TRAVEL (ABOUT 1° AZIMUTH PER SEC.) VELOCITIES CAN BE ESTABLISHED BY ASSUMING DIFFERENT ALTITUDES OR DISTANCES AWAY FOR THE OBJECT.

UNDER ASSUMPTIONS FROM 30,000 FT. TO 50,000 FT. ALTITUDE, THE OBJECT WOULD HAVE BEEN TRAVELING BETWEEN 800 & 1600 M.P.H. EVEN ALLOWING A COMFORTABLE 20% ERROR THE OBJECT WAS PROBABLY MOVING AT GREATER THAN SONIC VELOCITY. VERTICAL MOVEMENT OF THIS MAGNITUDE FOR 10-15 SEC. WOULD PROBABLY BE VERY DANGEROUS IN KNOWN OPERATIONAL AIRCRAFT.

Form A

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 undentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will not 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?

15 (Day) Oct. (Month) 1965 (Year)

2. Time of day: 10 (Hour) 10 (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?

[redacted] (Nearest Postal Address) Mpls (City or Town) Minn. (State or Country)

Additional remarks: Roof of 4 story Bldg.

5. Estimate how long you saw the object. ____ (Hours) ____ (Minutes) 40-45 (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

Incl #3

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. Many
b. A few c. Don't remember

8.2 MOON (Circle one)

a. Bright moonlight
b. Dull moonlight
c. No moonlight -- pitch black
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? Appeared as a contrail

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, particular a cloud? (Circle one) Yes (No) Don't know IF YOU answered YES, then tell what it moved behind:

13. Did the object appear: (Circle one) a. Solid? b. Transparent? c. (Don't know)

14. Did the object move in front of something at anytime, particularly a cloud? (Circle one) Yes (No) Don't know IF You answered YES then tell what it moved in front of:

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

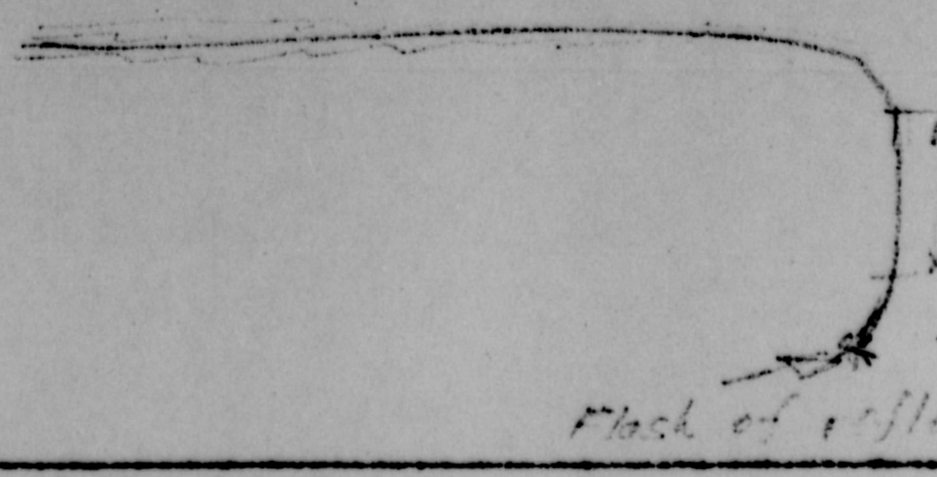
a. Eyeglasses?	Yes	No	e. Binoculars?	Yes	No
b. Sun glasses?	Yes	No	f. Telescope?	Yes	No
c. Windshield?	Yes	No	g. Theodolite?	(Yes)	No
d. Windowglass?	Yes	No	h. Other?		

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

a. Sound None

b. Color Flash of sunlight appeared to be reflected from the object at approximately 45° [illegible]

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 and arrow beside the drawing to show the direction the object was moving.

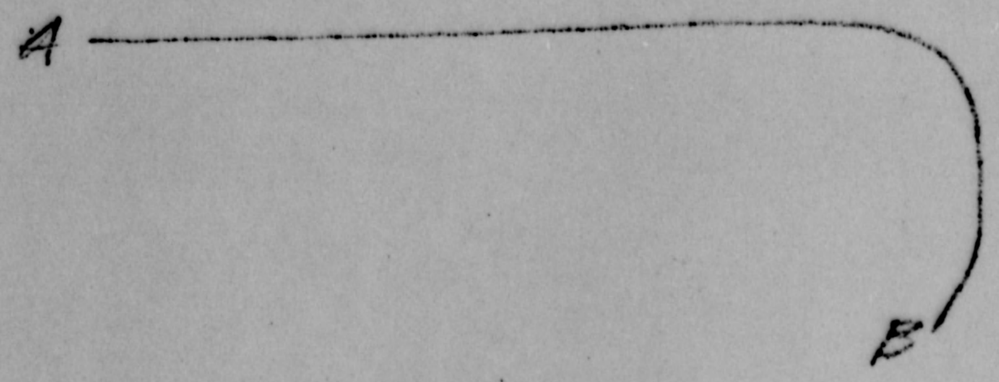


18. The edges of the object were:

(Circle one) a. Fuzzy or blurred
b. Like a bright star
c. Sharply outlined
d. Don't remember
e. Other Saw no actual object
Only the trail.

19. IF there was MORE THAN ONE object, then how many where there? _____
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 begining 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.

_____ feet. Size estimation not possible

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 dallar
h. Baseball
i. Grapefruit
j. Basketball
k. Other Saw no object, only the flash

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? Suddenly, with flash of what appeared to be reflected sunlight

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.

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 Roof of bldg

26. Were you (Circle one)
a. In the business section?
b. In the residential section?
c. In open countryside?
d. Flying near an airfield?
e. Flying over open contry?
f. Flying over a city?
g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it? Observing a balloon flight when the trail appeared approx 5° abv below horiz

28. 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	f. West
b. Northeast	d. Southeast	f. Southwest	g. Northwest

28.2 How fast were you moving? _____ 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	f. West
b. Northeast	d. South east	f. South west	g. Northwest

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

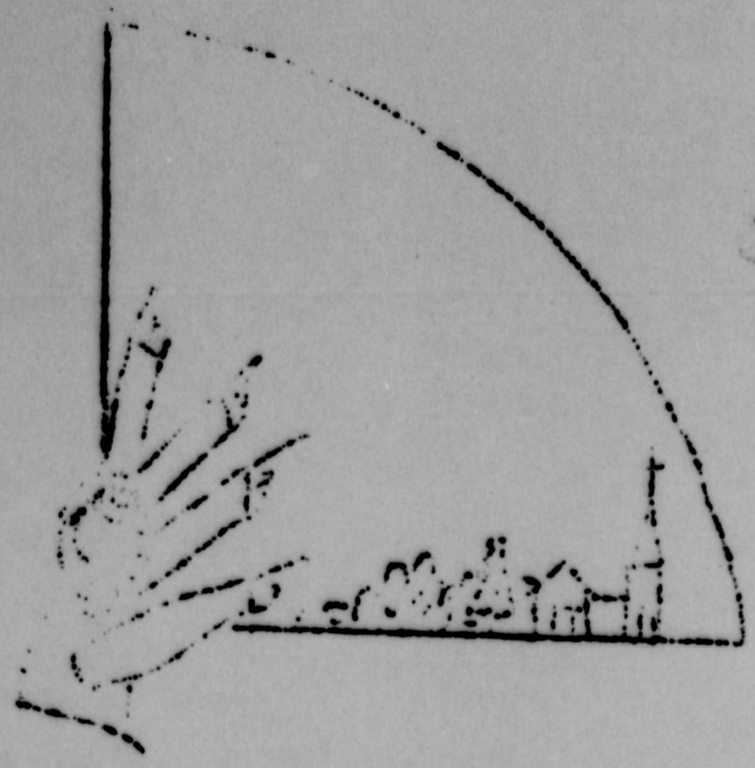
a. North	c. East	e. South	f. West
b. Northwest	d. Southeast	f. Southwest	g. Northwest

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 130-140 degrees.
b. From horizon 35 degrees.

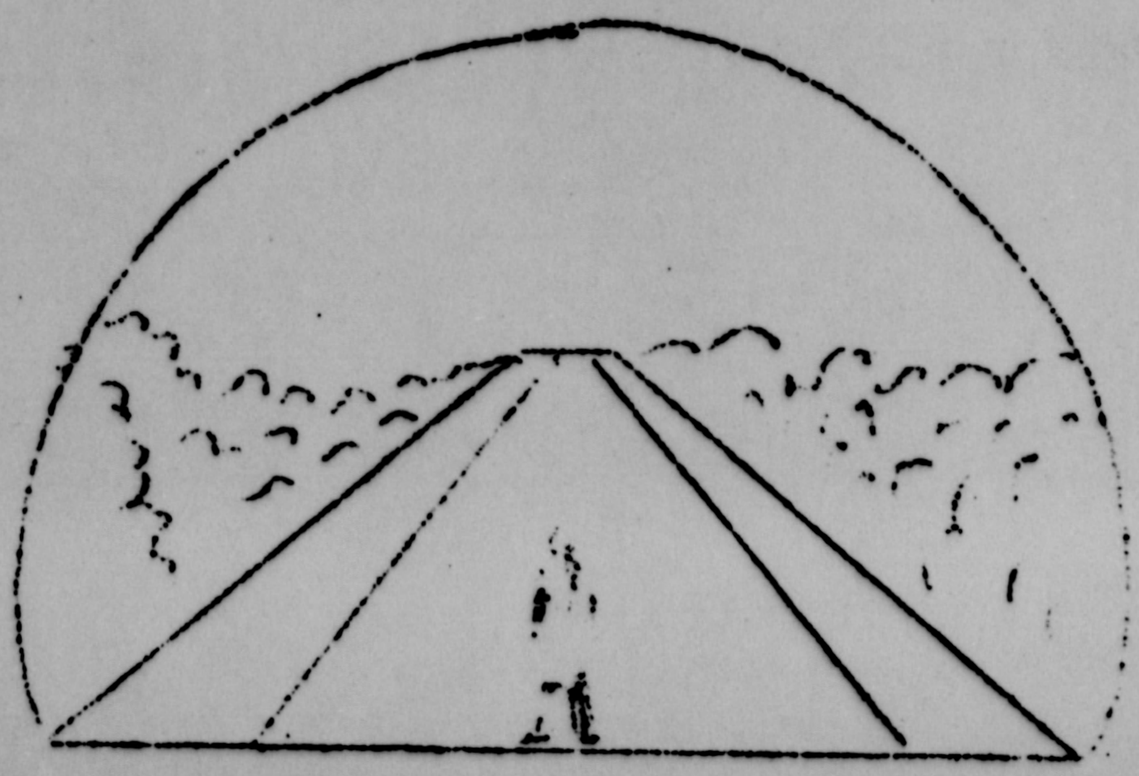
31.2 When it disappeared:
a. From true North 160-170 degrees.
b. From horizon 15-20 degrees

32. In the following sketch, imagine that you are at the point shown. Place and "A" on the curved line to show how high the object was above the horizon (skyline) whe 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.



See sketch

33. In the following 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.



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?

15 (DAY) Oct. (MONTH) 1953 (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? Yes No
36.2 Please list their names and addresses:

[redacted]

Mrs. Mrs.

37. Was this the first time that you had seen an object or objects like this? Yes No

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

Flying on a balloon observation near Mpls. approx. Oct. 1951.

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

Don't care to speculate.

39. Do you think you can estimate the speed of the object?
(Circle One) (Yes) No Angular Speed. ≈ 1° per second

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?_____feet.

41. Please give the following information about yourself.

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

ADDRESS [redacted] Minneapolis ____ Minn.
Street City Zone State

TELEPHONE NUMBER [redacted]

What is your present job? Engineer Gen. Mills Research & Dev. Dept.

Age 23 Sex M

Please indicate any special educational training that you have had.
a. Grade School_____
b. High School_____
c. College_____
d. Post graduate 2 yrs for M.S. in Aero. Engineering. Major in Supersonic Aerodynamics
e.e. Technical school_____
(Type)_____
f. Other special training Private Pilot

42. Date you completed this questionnaire:

31 Oct. 1953
Day Month Year

FORM B

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.

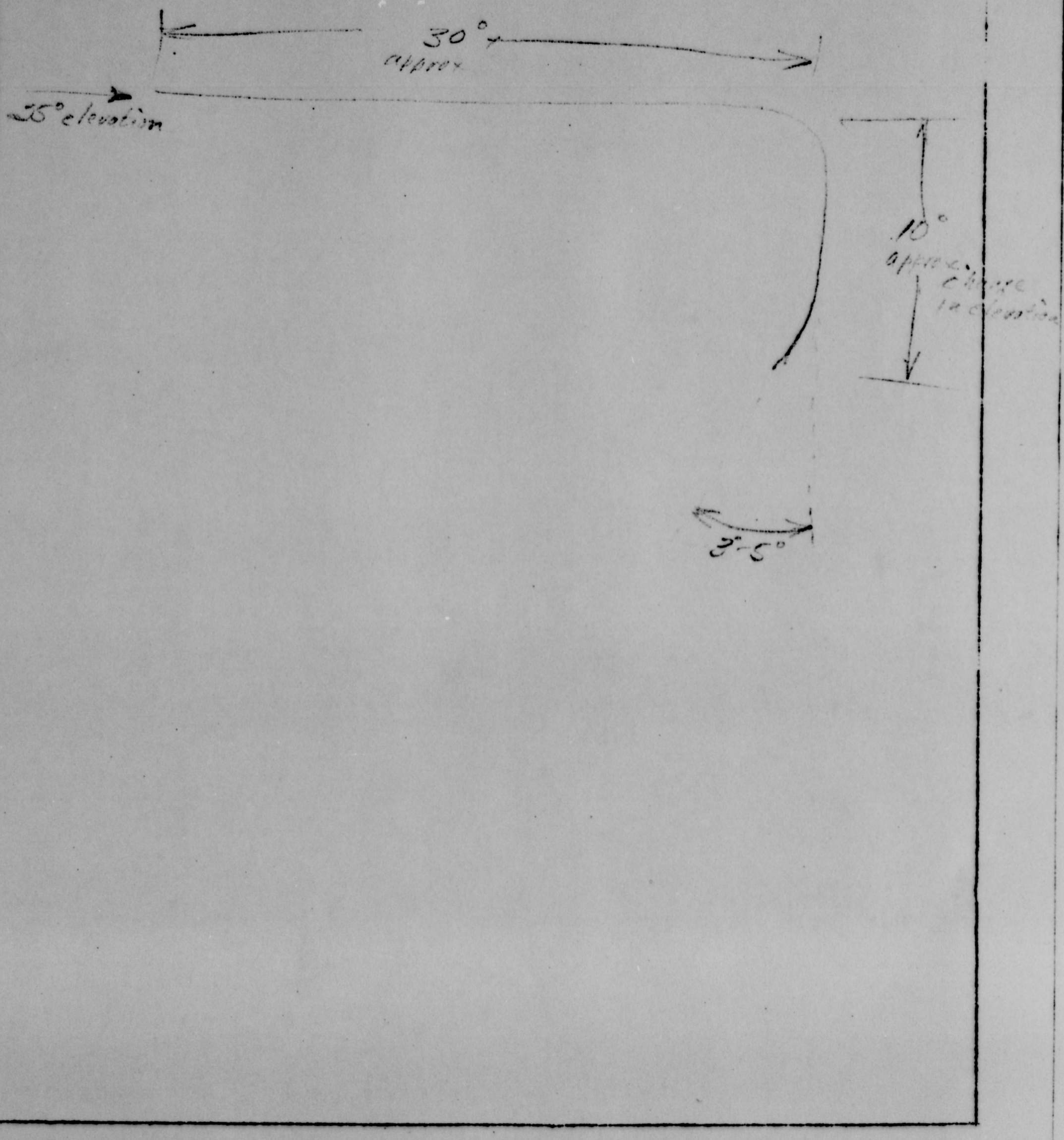
NAME [redacted] (Please Print)

SIGNATURE [redacted]

DATE 21 - Oct. - 1953

(Do not Write in This Space)

CODE:

On 15 Oct 1953 while observing a high altitude balloon (altitude about 73,000 ft at the time) a trail appeared about 5° below the balloon. Mr. [redacted] operated the theodolite, using the rough, "V" sight while I looked through the instrument. After the initiating point of the trail appeared in the field, I assumed operation of the instrument, following the path by operating the mechanical azimuth + elevation controls on the instrument. Mr. [redacted] timed the rate of azimuth change. I saw no object. After the initiating point of the trail had gone well into the vertical phase of the trail I asked Mr. Bartholomew to observe the object through the instrument. After leaving the instrument and observing with the naked eye I noticed that the trail was rapidly dissipating, minimizing the possibility of the trail being vapor in my opinion. The vertical portion of the trail also strengthens this opinion I think.

The trail then exhibited a tendency to return to horizontal, and disappeared with a reflected flash. See foregoing description.