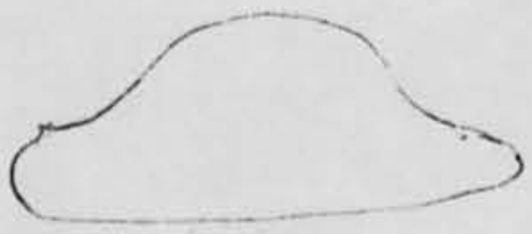
PROJECT 10073 RECORD

1. DATE - TIME GROUP 17 May 67 18/0030Z	2. LOCATION Rural Hall, North Carolina (2 Witnesses)
3. SOURCE Civilian	10. CONCLUSION UNIDENTIFIED
4. NUMBER OF OBJECTS 1	
5. LENGTH OF OBSERVATION 5 Minutes	11. BRIEF SUMMARY AND ANALYSIS Object was round, similar to a small aircraft. Bright orange in color. Object was passing back and forth over a jet aircraft that was heading NE. Aircraft flew in a straight pa pattern, but the object flew in a zig-zag pattern.
6. TYPE OF OBSERVATION Ground-Visual	
7. COURSE SW - NE	
8. PHOTOS ☐ Yes ☒ No	
9. PHYSICAL EVIDENCE ☐ Yes ☒ No	

FORM
FTD SEP 63 0-029 (TDE) Previous editions of this form may be used.

15. DRAW A PICTURE THAT WILL SHOW THE SHAPE OF THE PHENOMENON. INCLUDE AND LABEL ANY DETAILS THAT MIGHT HAVE APPEARED AS WINGS OR PROTRUSIONS, AND INDICATE EXHAUST OR VAPOR TRAILS. INDICATE BY AN ARROW THE DIRECTION THE PHENOMENON WAS MOVING.



← Vapor trail (yellow)

16. WHAT WAS THE ANGULAR SIZE? HOLD A MATCH AT ARM'S LENGTH IN FRONT OF A KNOWN OBJECT, SUCH AS A STREET LAMP OR THE MOON. NOTE HOW MUCH OF THE OBJECT IS COVERED BY THE HEAD OF THE MATCH. NOW IF YOU HAD BEEN ABLE TO PERFORM THIS EXPERIMENT AT THE TIME OF THE SIGHTING, ESTIMATE WHAT FRACTION OF THE PHENOMENON WOULD HAVE BEEN COVERED BY THE MATCH HEAD.

17. DID YOU OBSERVE THE PHENOMENON THROUGH ANY OF THE FOLLOWING? INCLUDE INFORMATION ON MODEL, TYPE, FILTER, LENS PRESCRIPTION OR OTHER APPLICABLE DATA.

	EYEGLASSES		CAMERA VIEWER
	SUNGLASSES		BINOCULARS
	WINDSHIELD		TELESCOPE
	SIDE WINDOW OF VEHICLE		THEODOLITE
	WINDOWPANE		OTHER

A. DO YOU ORDINARILY WEAR GLASSES? ☐ YES ☑ NO

B. DO YOU USE READING GLASSES? ☑ YES ☐ NO

18. WHAT WAS YOUR IMPRESSION OF THE SPEED OF THE PHENOMENON? GIVE ESTIMATE OF SPEED_____.

19. WHAT WAS YOUR IMPRESSION OF THE DISTANCE OF THE PHENOMENON? GIVE ESTIMATE OF DISTANCE_____.

20. IN ORDER THAT WE MAY OBTAIN AS CLEAR A PICTURE AS POSSIBLE OF WHAT YOU SAW, DESCRIBE IN YOUR OWN WORDS A COMMON OBJECT OR OBJECTS WHICH, WHEN PLACED IN THE SKY, SIMILAR TO WHERE YOU NOTED THE PHENOMENON, WOULD BEAR SOME RESEMBLANCE TO WHAT YOU SAW. DESCRIBE SIMILARITIES AND DIFFERENCES BETWEEN THE COMMON OBJECT AND WHAT YOU SAW.

21. DID YOU NOTICE ANY ODOR, NOISE, OR HEAT EMANATING FROM THE PHENOMENON OR ANY EFFECT ON YOURSELF, ANIMALS OR MACHINERY IN THE VICINITY? ☐ YES ☑ NO. IF "YES," DESCRIBE.

A. DID THE PHENOMENON DISTURB THE GROUND OR LEAVE ANY PHYSICAL EVIDENCE. ☐ YES ☑ NO. IF "YES," DESCRIBE.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS FOREIGN TECHNOLOGY DIVISION (AFSC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

REPLY TO ATTN OF: TDET/UFO

SUBJECT: UFO Observation

AUG 14 1967

TO: Mr. [redacted]
Route 1
Rural Hall, North Carolina 27045

Reference your May 1967 observation of an unidentified flying object. Prior to reaching our final conclusion on your sighting we need to know the exact date. The initial report indicated the sighting occurred on the night of 14 May 1967; however, the questionnaire you completed indicates that the sighting occurred on Wednesday night, May 15, 1967 at approximately 8:30 pm. We would appreciate a note from you clarifying this discrepancy.

FRANK J. MANATT, Colonel, USAF
Director of Technology and Subsystems

1 Atch
Envelope

In reference to the above letter concerning the date of my sighting, Thursday does not fall on the 14th nor the 15th of May. There has been a lapse of time since my sighting but I am positive it was on a Wednesday night and almost positive that it was May 17 1967. I also read in the paper the next day (after my sighting) of anyone sighting a UFO in Henderson N. C. (the same night of my sighting) Thereby one a golf course. I am sorry about my getting the date confused, but when I filled out a report for you I just wrote in the wrong date. I have clarified this with my neighbor that also saw the U.F.O. with me.

[redacted]

Sent to Hynek

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS FOREIGN TECHNOLOGY DIVISION (AFSC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

REPLY TO ATTN OF: TDET/UFO

25 May 1967

SUBJECT: UFO Observation, 15 May 1967

TO: Mr. [redacted]
Rural Hall, North Carolina 27045

Reference your unidentified observation. The information which we have received is not sufficient for a scientific evaluation. Request you complete the attached FTD Form 164 and return it in the envelope provided. Thank you for reporting your observation to the Air Force.

JAMES C. MANATT, Colonel, USAF
Director of Technology and Subsystems

1 Atch
FTD Form 164 w/envelope

U.S. AIR FORCE TECHNICAL INFORMATION

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. 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?

17 15th
WED. — Day: MAY — Month: 67 — Year

2. Time of day: 8 — Hour: 30 — 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] RD. RURAL HALL, — Nearest Postal Address / City or Town: N. C. — State or County

5. How long was object in sight? (Total Duration) _____ Hours 5 Minutes _____ Seconds

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

5.1 How was time in sight determined? BY GUESS

5.2 Was object in sight continuously? Yes ✓ No _____

6. What was the condition of the sky?

DAY
a. Bright
b. Cloudy

NIGHT
(a.) Bright
b. Cloudy

7. IF you saw the object during DAYLIGHT, 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

FORM FTD OCT 62 164 This form supersedes FTD 164, Jul 61, which is obsolete.

8. IF you saw the object at NIGHT, 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. What were the weather conditions at the time you saw the object?

CLOUDS *(Circle One)*:

(a.) Clear sky
b. Hazy
c. Scattered clouds
d. Thick or heavy clouds

WEATHER *(Circle One)*:

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

10. The object appeared: *(Circle One)*:

a. Solid
b. Transparent
c. Vapor
(d.) As a light
e. Don't remember

11. If it appeared as a light, was it brighter than the brightest stars? *(Circle One)*:

(a.) Brighter
b. Dimmer
c. About the same
d. Don't know

11.1 Compare brightness to some common object:

LIKE A LIGHT BULB, BUT ORANGE IN COLOR

12. 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 _____

13. 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. Flash or flicker?	Yes	(No)	Don't know
h. Disappear and reappear?	Yes	(No)	Don't know

14. Did the object disappear while you were watching it? If so, how?

IT LEFT THE JET SO FAST THAT IT APPEARED THAT THE JET HAD STOPPED

15. Did the object move behind something at any time, particularly a cloud?

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

16. Did the object move in front of something at any time, particularly a cloud?

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

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

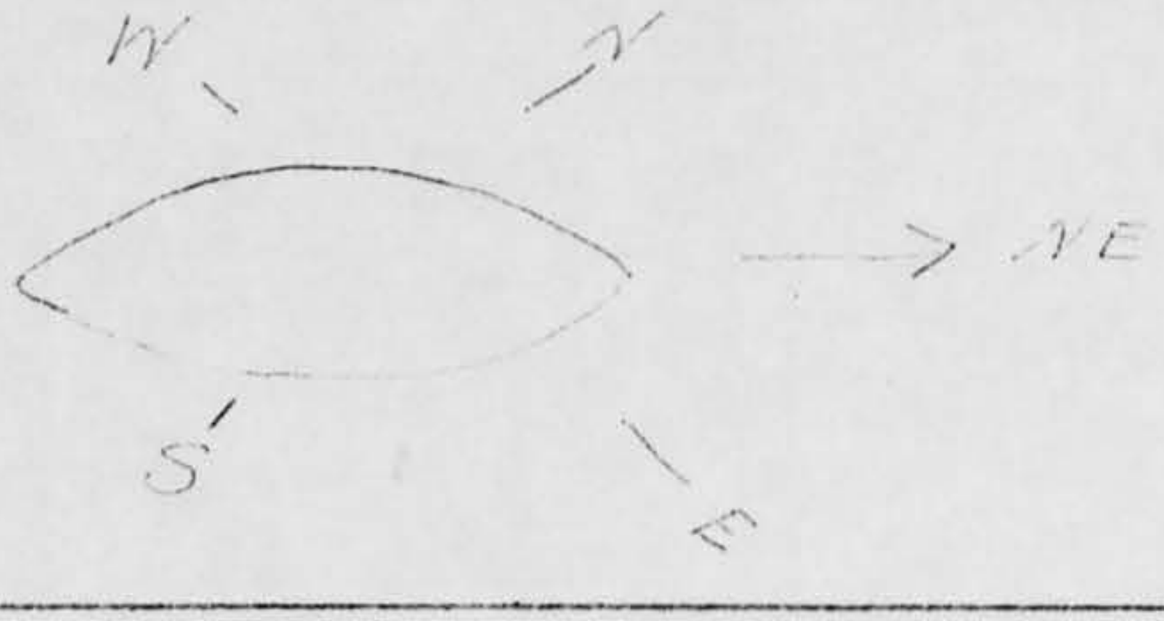
a. Sound NO SOUND

b. Color LUMINOUS ORANGE

18. We wish to know the angular size. Hold a match stick at arm's length in line with a known object and note how much of the object is covered by the head of the match. If you had performed this experiment at the time of the sighting, how much of the object would have been covered by the match head?

I CANNOT TELL THE ACTUAL SIZE OF THE OBJECT, BUT COMPARED TO THE JET IT WAS LARGER.

19. 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.



20. 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? _____

21. 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? _____

22. 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 (type)
e. At sea
f. Other _____

23. 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. Near an airfield?
e. Flying over a city?
f. Flying over open country?
g. Other _____

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

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

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

24.2 How fast were you moving? _____miles per hour.

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

(Circle One) Yes No

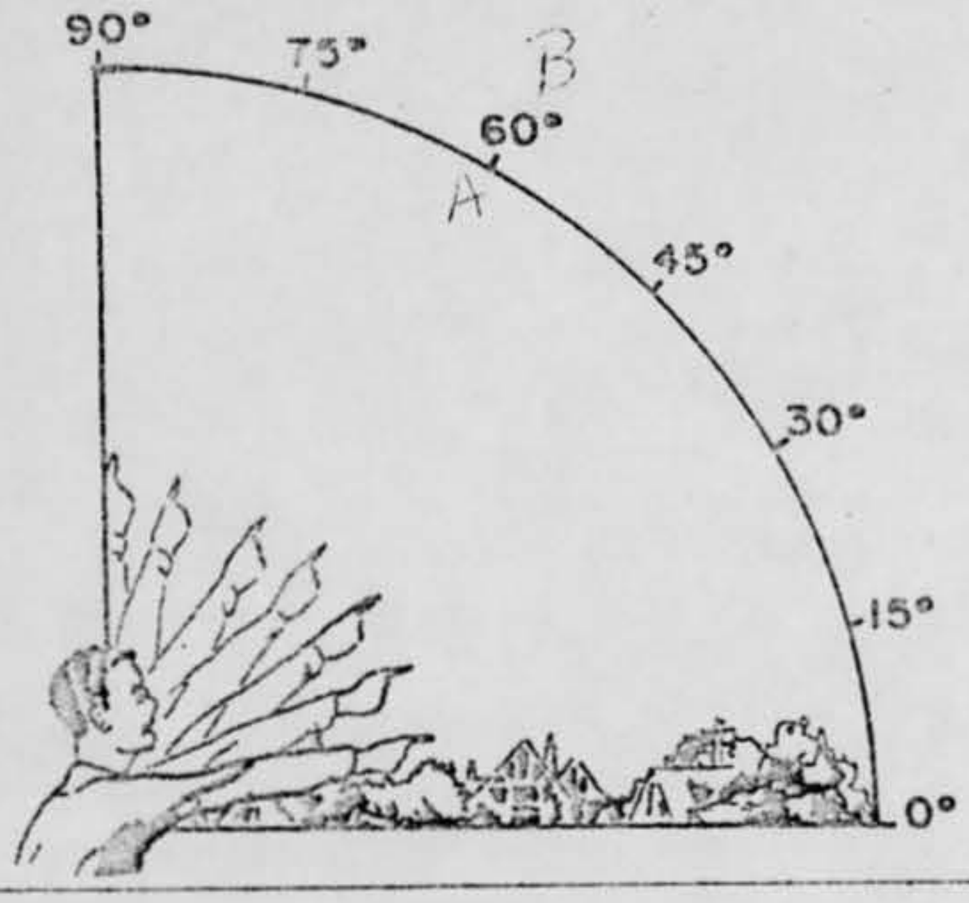
25. Did you observe the object through any of the following?

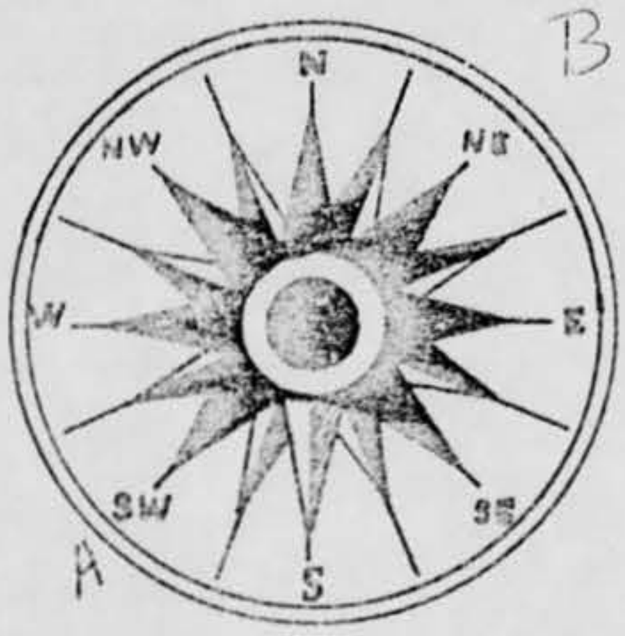
a. Eyeglasses	Yes	(No)	e. Binoculars	Yes	(No)
b. Sun glasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	Yes	(No)	g. Theodolite	Yes	(No)
d. Window glass	Yes	(No)	h. Other _____		

26. In order that you can give as clear a picture as possible of what you saw, 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.

SINCE THE OBJECT IS LIKE NOTHING I HAVE EVER SEEN I CANNOT THINK OF ANYTHING UNLESS IT WAS A BRIGHT ORANGE KITE FLYING THROUGH THE SKY

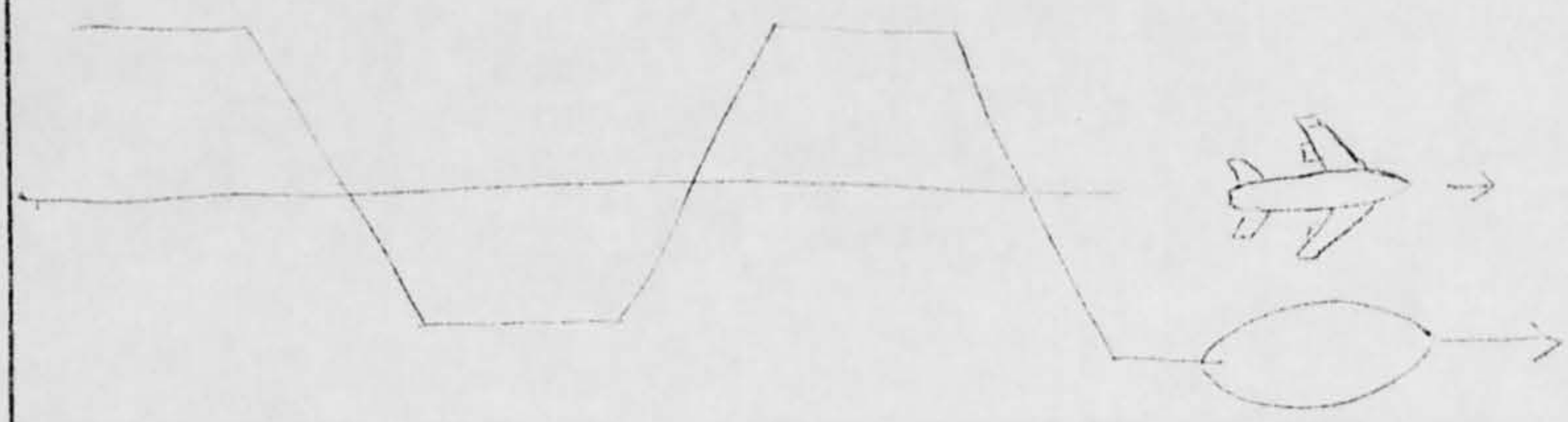
27. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the same curved line to show how high the object was above the horizon (skyline) when you *last* saw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





28. 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.

29. IF there was MORE THAN ONE object, then how many were there? ONE PLANE ONE OBJECT
Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.



30. Have you ever seen this, or a similar object before. If so give date or dates and location.

NEVER

31. Was anyone else with you at the time you saw the object? (Circle One) (Yes) No

31.1 IF you answered YES, did they see the object too? (Circle One) (Yes) No

31.2 Please list their names and addresses:

[redacted] ERNIE
[redacted]
RURAL HALL, N. C.

32. Please give the following information about yourself:

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

ADDRESS [redacted] RURAL HALL, N C. 27045
Street City Zone State

TELEPHONE NUMBER [redacted] AGE 29 SEX M

Indicate any additional information about yourself, including any special experience, which might be pertinent.

I HAVE RIDDEN IN AN AIRPLANE QUITE A NUMBER OF TIMES AND USE TO LIVE CLOSE TO AN AIRPORT; THEREFORE, I CAN RECOGNIZE AN AIRPLANE WHEN I SEE ONE. THIS WAS NO AIRPLANE.

33. When and to whom did you report that you had seen the object?

15 MAY 1960
Day Month Year

TDPT (UFO)

2 APR

UFO Observation, 17 May 1967

[redacted]
Washington, D. C. 20024

1. Thank you for your letter of March 25, 1968 and also for the letter to you from Mr. [redacted] Yes, it is true that Mr. [redacted] and I are now buddies. I did invite him to visit me at Wright-Patterson and I do hope that he stops by to chit-chat with me some time in the near future.

2. With regards to the UFO sighting at Rural Hall. I think it would be best if you contact the observers directly, therefore, you could get your answers first hand, instead of having them corrupted and distorted by an intermediary. Your questions are quite pertinent and I will be very interested in your comments.

Sincerely,

HECTOR QUINTANILLA, Jr, Major, USAF
Chief, Aerial Phenomena Office

1 Atch
Ltr, [redacted],
March 18, 1968

34. Date you completed this questionnaire: 3 (Day) JUNE (Month) 67 (Year)

35. Information which you feel pertinent and which is not adequately covered in the specific points of the questionnaire or a narrative explanation of your sighting.

MY NEIGHBOR AND I WERE STANDING IN MY FRONT YARD WEDNESDAY NIGHT, APPROXIMATELY 8:30 PM., MAY 15, 1967, I NOTICED A JET VAPOR TRAIL IN THE SKY. THEN I SAW ANOTHER JET AND COMMENTED TO MY NEIGHBOR ABOUT HOW FAST IT WAS TRAVELING. THEN I SAID, "SOMETHING IS FOLLOWING IT." MY NEIGHBOR SAID "I SAW IT BUT I THOUGHT MY EYES WERE PLAYING TRICKS ON ME". WE BOTH WATCHED THE OBJECT UNTIL IT STREAKED OUT OF SIGHT. THE FLIGHT PATH OF THE JET WAS IN A STRAIGHT LINE, BUT THE OBJECT MADE A ZIG-ZAG PATTERN. THE JET LEFT A VAPOR TRAIL -AND THE OBJECT LEFT NO TRAIL AT ALL. IT DEFINATELY WAS NOT TRAVELING IN A STRAIGHT PATH.

HYNEK TAKING LOOK

14 MAY 67
RURAL HALL N.C.

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
INCOMING MESSAGE

AFIN: 1262 (22 May 67) J/meh

ACTION: RDC-4 INFO: SAFOS-3, XOP-1, XOPX-2 (11) ADV CY DIA VIA JCS

SMB B087PTTU JAW RUEDARA5517 1421458-UUUU--RUEDHQA.

ZNR UUUUU

P 22/1456 MAY 67

FM 33D AD IV FT LEE AFS VA

TO RUWMFVA/ADC

RUEDFIA/WPAFB WRIGHT AFB OH10

RUEDHQA/CSAF

RUEDHQA/OSAF

BT

UNCLAS 33OCC 21038 MAY 67. FOR TDETR, AFRDC, SAF-OI IAW

AFR 80-17 THE FOLLOWING UFO RPT IS SUBMITTED FROM 33AD IV.

ITEM A. DESCRIPTION OF THE OBJECT

(1) ROUND

(2) SMALL A/C

(3) BRIGHT ORANGE

(4) 1

(5) OBJECT WAS PASSING BACK AND FORTH OVER A JET A/C
THAT WAS HEADING NORTHEAST.

(6) ORANGE GLOW

(7) THE JET A/C HAD TWO CONTRAILS CLOSE TOGETHER

obj 1410
FORM
AFHQ JAN 63 O-309C
decapted on 17 May
1200Z ± 12 hrs.

UNCLASSIFIED

obj 2785
decayed on 14 May

(8) OBJECT SEEM TO BE MAKING PASSES ON JET THAT WAS HEADING NORTHEAST.

PAGE 2 RUEDARA5517 UNCLAS

ITEM B. DESCRIPTION OF COURSE OF OBJECT

(1) LOOKED UP

(2) 40 DEGREES

(3) 40 DEGREES

(4) CROSSING TRACK OF OTHER A/C

(5) STREAKED OFF TO NORTHEAST

(6) 2 TO 3 MINUTES

ITEM C. MANNER OF OBSERVATION

(1) GROUND

(2) NONE

(3) N/A

ITEM D. TIME AND DATE OF SIGHTING

(1) 15/[illegible]Z 70 LOCAL

(2) DUSK

ITEM E. INFORMATION ON OBSERVER

[redacted]

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
INCOMING MESSAGE

AFIN: 1262

RURAL HALL, NORTH CAROLINA 27045 CONTRACTOR

PHONE [redacted]

ITEM F. TIME AND PLACE OF SIGHTING

PAGE 3 RUEDARA5517 UNCLAS

(1) CLEAR

(2) WAS NOT CHECKED

(3) STANLYVILLE, NORTH CAROLINA

BT

NNNN

UNCLASSIFIED

and intense red or orange" object pacing the aircraft off the starboard wing. Its distance was estimated at 1,500 ft and its diameter at 5-6 ft.

The airplane commander said it "seemed to have a halo effect . . . to throb or vibrate constantly." When he took evasive action, changing heading by as much as 90 deg. and altitude by 2,000 ft., the object followed doggedly for 8 min.

"When it left, it made an abrupt 90-deg. turn, up and accelerating rapidly; it disappeared in the overcast."

Another Report

One private flyer on Aug. 15, 1957, near Woodlawn Hills, Calif., observed a UFO "hovering between two drifting cirro-stratus clouds."

A book to be published next spring, written by two Nicap members, will cite evidence to show that UFOs have been scouting the earth for at least 200 years. It seems more than mere coincidence that a book entitled "Der Kugelblitz," by Walther Brand, published in Germany in 1923, presents 600 accounts of ball lightning that date back to 1665, and a Russian report published in 1954 refers to a brief mention of ball lightning in 60 B.C. by the Roman poet Lucretius.

If extraterrestrial visitors have scouted the earth for at least 200 years, perhaps for close to 2,000, it is difficult to understand why they have not attempted to establish contact through formal channels. "After all, Columbus did not spend 200 years scouting the New World before landing to see if the Indians were friendly," is the way one skeptic puts it. "This indicates great scientific curiosity but no courage," he adds.

Nicap Explanation

Nicap officials have a ready explanation for this curious reticence. Extraterrestrial visitors, they explain, may be fearful of creating widespread panic on earth if their existence and presence were known.

For this reason they prefer to observe in secrecy.

But this makes it even more difficult to explain the capricious buzzing maneuvers and games of tag that UFOs seem to play with dozens of aircraft and cars, or the low-level visitations within sight of human observers—unless the UFOs are plasmas.

If secret observation is the intent, the very actions of UFOs have defeated this purpose. For example, a recent Gallup poll indicates that at least half of the adult population in America is aware of UFOs and believes something is being seen.

Faced with this serious contradiction, Nicap officials have another ready explanation. It is not possible to use such "earth-logic" in trying to understand the actions of extraterrestrial visitors. This precludes any further effort aimed at rationalizing the contradiction.

There are almost as many theories available to explain ball lightning as there are scientists interested in the phenomena. Most scientists agree that no single theory yet advanced, their own included, can explain all reported kugelblitz characteristics.

This leads many to conclude that there are at least two, perhaps more, different but related phenomena involved. The high-altitude UFO type plasmas may involve still other triggering and/or sustaining mechanisms. But all are believed to share a common family tree.

The late French astronomer Camille Flammarion, in a book, "Thunder and Lightning" published more than 60 years ago, devoted an entire chapter to "Fireballs."

He called them "the most mysterious and certainly the least understood domain of thunder and lightning."

Matching Reports

Flammarion recounted stories of kugelblitz seen 100-200 years ago whose reported characteristics closely match those of more recent surveys by competent American scientists. These include surveys by Warren D. Rayle of the National Aeronautics and Space Administration's Lewis Research Center, Dr. Edmond M. Dewan of Air Force Cambridge Research Laboratories and Dr. J. R. McNally of the Atomic Energy Commission's Oak Ridge National Laboratory.

At the turn of the century Flammarion wrote: "We must confess that if spheroidal lightning seems particularly capricious, it is because we are still ignorant of the laws which guide it. Our ignorance alone is the cause of the mystery. . . . We try to reproduce fireballs artificially [in laboratories] but the problem is complicated and its solution presents enormous difficulties."

These words are almost as valid today as when they were first written many decades ago. The boon, trans-

Application Symposium

Washington—Navy will sponsor a symposium on application of microelectronics to aerospace systems Oct. 17-18 at State Dept. auditorium here. The papers will be those presented earlier in Europe at a conference sponsored by NATO's Advisory Group on Aerospace Research and Development (AGARD).

Persons who wish to attend must advise A. E. Cook, Office of Naval Research, Code 403C, Washington, D.C. 20360.

duce a silhouette effect, although Vonnegut did not speculate on this in his original scientific report.

But if the airborne vortex contains charged dust particles, similarly aligned by electric fields present in the atmosphere, a very pronounced silhouetted object could result. If electric discharge is taking placing within the vortex between charged dust particles, as has been suggested by some ball ligtning theories, it could easily create the illusion of a solid spacecraft with small lighted windows.

Flying Particles Observed

Flying vortices of charged dust and sand particles have been observed frequently in desert areas. They are commonly called "dust devils" or "dust dervishes." One measured by Dr. G. D. Freir of the University of Minnesota in the Sahara showed an electric field intensity as high as 400 v. at an altitude of 300-600 ft. and a proximity no closer than 100 ft. The dust devil had a diameter estimated at 25 ft. In the presence of a strong atmospheric fields, small dust devils should be able to reach even higher altitude.

Those who hold that UFOs are extraterrestrial visitors contend that their behavior demonstrates "intelligent control." Some airborne UFOs, for example, seem to exhibit a curiosity about aircraft, while lower flying ones show a similar interest in automobiles or trains.

Often UFOs seem to be playing a game of tag with an airplane or automobile, and not infrequently will "buzz" them in what can only be described as a "hot-rodder's game of chicken."

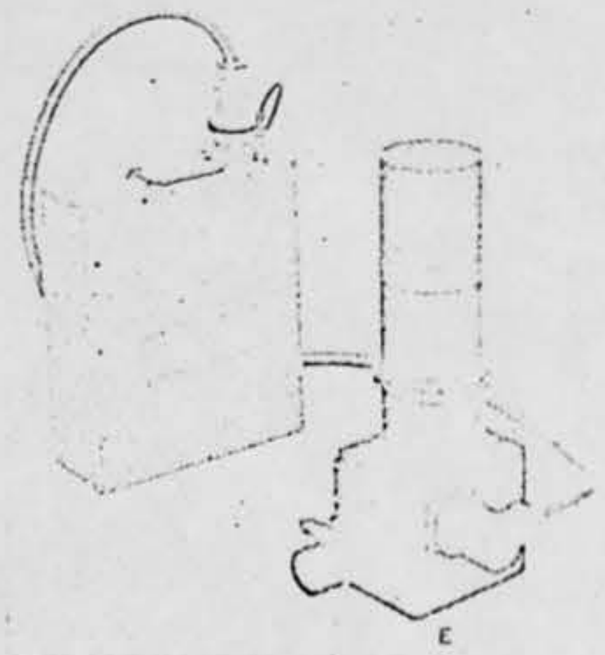
"Intelligent Control"

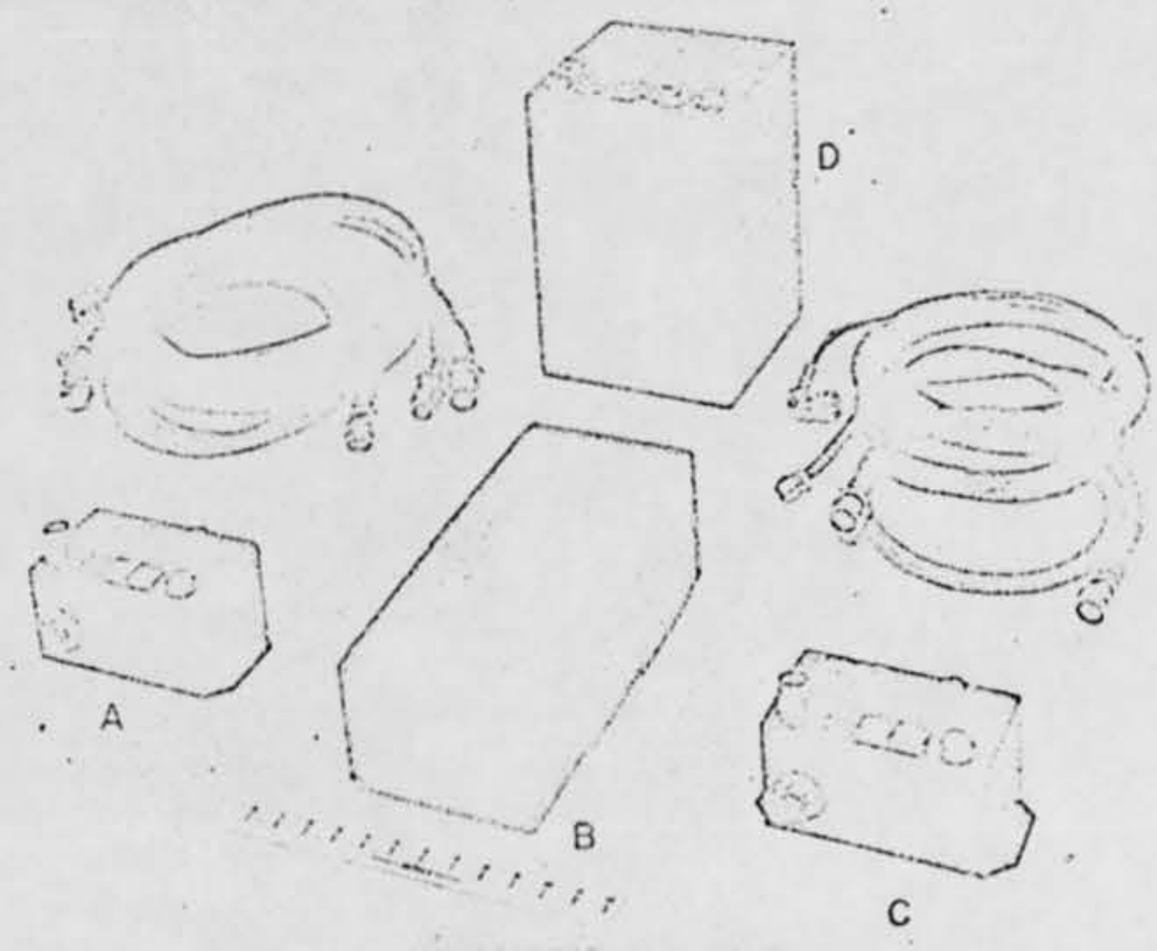
There are reports of military jet fighter pilots who have attempted to close upon a UFO, only to have it suddenly zoom ahead when the aircraft comes near. Then the UFO sits and waits until the aircraft has nearly closed again. Then, the sequence is repeated. At other times the UFO darts at the aircraft on a collision course, often coming out of the clouds at nearly vertical angles of climb or descent. In some encounters, the UFO will circle an aircraft in flight as if inspecting it. This, it is claimed, demonstrates "intelligent control."

Such behavior merely demonstrates the well known physical law that two charged objects having opposite electric polarity will attract and two having identical polarities will repel. Aircraft fuselages usually carry a charge, sometimes a very high one, acquired from impact with charged vapor and dust particles in the air. Jet aircraft also acquire a charge from their turbine engines.

Laser Range Finders for Tanks Developed by TRG, Inc.

Laser range finders, developed by TRG, Inc., for tanks to obtain accurate range to targets, include gun-shield mounted laser (below) for the United Kingdom-produced Centurian Battle Tank. Components are (A) commander's control and display, (B) laser transmitter and receiver, (C) gunner's control and display and (D) power supply and counters. The unit at right was developed for the West German-Lowlands Leopard tank. The Leopard device, which has laser transmitter and receiver, with viewing optics housed in cylinder atop control and display (E), is mounted through tank turret. U.S. Army is planning comparable installations for its tanks, a major innovation in offensive tank fire power. TRG is a subsidiary of Control Data Corp.





There is evidence that indicates that one type of kugelblitz generates its own "magnetic bottle" which sustains it, although not all forms achieve magnetic containment. One theory advanced to explain ball lightning suggests that its stability comes from a core of spiraling electrons surrounded by a crust of positive ions.

Under these and other conditions, a plasma should behave as previously described, being attracted to the aircraft when the two have opposite charges, repelled when they have the same. When attractive forces exist but are too low to enable the plasma to penetrate the aircraft windstream, it could be dragged along by electrostatic forces in the vicinity of the aircraft, easily giving the appearance of flying formation."

When the plasma charge dissipates sufficiently it will depart or disappear. If aircraft and its plasma come near a stronger electric field, such as a cloud, the plasma may zoom off toward such a field.

A jet fighter attempting to close on a plasma having the opposite charge has a hopeless task, for so long as the plasma's charge persists it will avoid interception.

When the charge dissipates, the UFO will vanish in thin air, as frequently happens.

A typical encounter cited by Vallee occurred during World War 2 on April 10, 1944, while a bomber was returning from a strike in Sumatra. The aircraft was flying at 14,000 ft., above "broken clouds with an overcast above us" when the crew spotted a "very bright

TDPT (UFO)

UFO Observation, 17 May 1967

[redacted]
Washington, D. C. 20024

Dear [redacted]

Reference the inclosed report on an unidentified flying object (UFO) sighting from Rural Hall, North Carolina, 17 May 1967. We thought that you might be interested in it and we would appreciate any comments that you may care to make on this particular sighting.

Sincerely,

HECTOR QUINTANILLA, Jr, Major, USAF
Chief, Aerial Phenomena Office
Aerospace Technologies Division
Production Directorate

1 Atch
Case File, 17 May 67,
Rural Hall, N Carolina

17 May 67

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS FOREIGN TECHNOLOGY DIVISION (AFSC)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

REPLY TO ATTN OF: TDPT/UFO

SUBJECT: UFO Observation, 17 May 1967 DEC 21 1967

TO: [redacted]
Rural Hall, North Carolina 27045

N.C. 918 — 377-2928

Your name has been given to the Aerial Phenomena Branch (Project Blue Book) as being a witness to an unidentified flying object. If you were a witness to an UFO sighting on 17 May 1967 would you please complete the attached AF Form 117 and return it in the envelope provided. If you were not a witness to this sighting, would you please make a statement to this effect on the attached form. The information which you provide will be used in evaluating this observation. Thank you for your assistance in this matter.

JAMES C. MANATT, Colonel, USAF
Director of Production

1 Atch
AF Form 117

30 Jan 68 Called [redacted]. He wasn't home so talked to his wife. She said she would have him complete the form as best he could and return it to us.

BOB Nr 21-R258

SIGHTING OF UNIDENTIFIED PHENOMENA QUESTIONNAIRE

THIS QUESTIONNAIRE HAS BEEN PREPARED SO THAT YOU CAN GIVE THE U.S. AIR FORCE AS MUCH INFORMATION AS POSSIBLE CONCERNING THE UNIDENTIFIED PHENOMENON THAT YOU HAVE OBSERVED. PLEASE TRY TO ANSWER ALL OF THE QUESTIONS. THE INFORMATION YOU GIVE WILL BE USED FOR RESEARCH PURPOSES. YOUR NAME WILL NOT BE USED IN CONNECTION WITH ANY OF YOUR STATEMENTS OR CONCLUSIONS WITHOUT YOUR PERMISSION. RETURN TO AIR FORCE BASE INVESTIGATOR FOR FORWARDING TO FTD (TDETR), WRIGHT-PATTERSON AFB, OHIO 45433, IAW 80-17. *(IF ADDITIONAL SHEETS ARE NEEDED FOR NARRATIVE OR SKETCHES ATTACH SECURELY TO THIS FORM OR ANNOTATE WITH YOUR NAME FOR IDENTIFICATION.)*

1. WHEN DID YOU SEE THE PHENOMENON? DAY Wed 17 MONTH May YEAR 1967

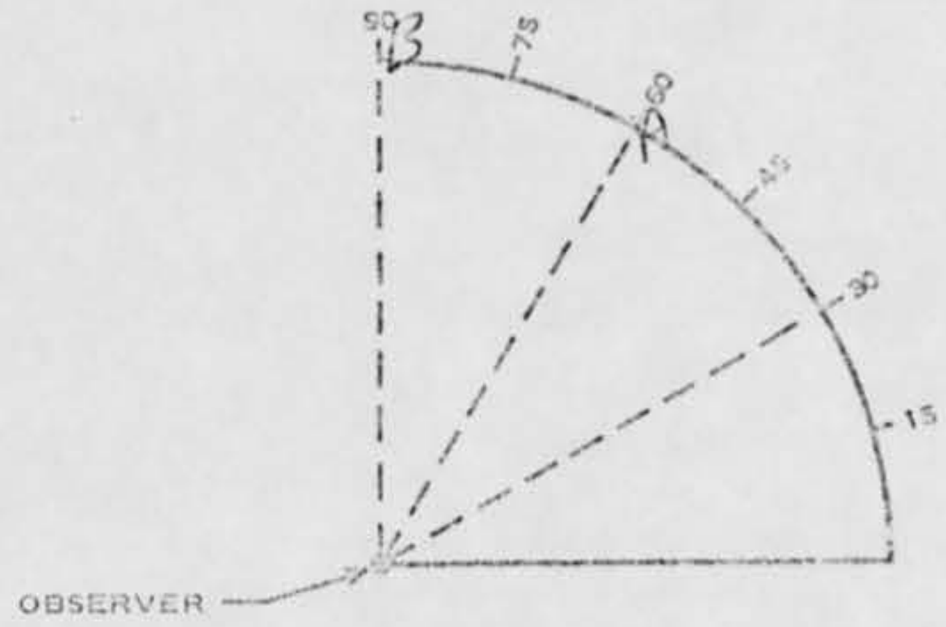
2. WHAT TIME DID YOU FIRST SIGHT THE PHENOMENON? Around HOUR 8 MINUTES 30 ☐ A.M. ☐ P.M.

3. WHAT TIME DID YOU LAST SIGHT THE PHENOMENON? It night only a few seconds later HOUR _____ MINUTES _____ ☐ A.M. ☐ P.M.

4. TIME/ZONE ☐ DAYLIGHT SAVINGS ☐ STANDARD
☑ EASTERN ☐ CENTRAL ☐ MOUNTAIN ☐ PACIFIC ☐ OTHER

5. WHERE WERE YOU WHEN YOU SAW THE PHENOMENON? IF IN CITY, GIVE THE NEAREST STREET ADDRESS AND INDICATE ON A HAND DRAWN MAP WHERE YOU WERE STANDING WITH REFERENCE TO THE ADDRESS. IF IN THE COUNTRY, IDENTIFY THE HIGHWAY YOU WERE ON OR NEAR AND TRY TO FIX A DISTANCE AND DIRECTION FROM SOME RECOGNIZABLE LANDMARK.

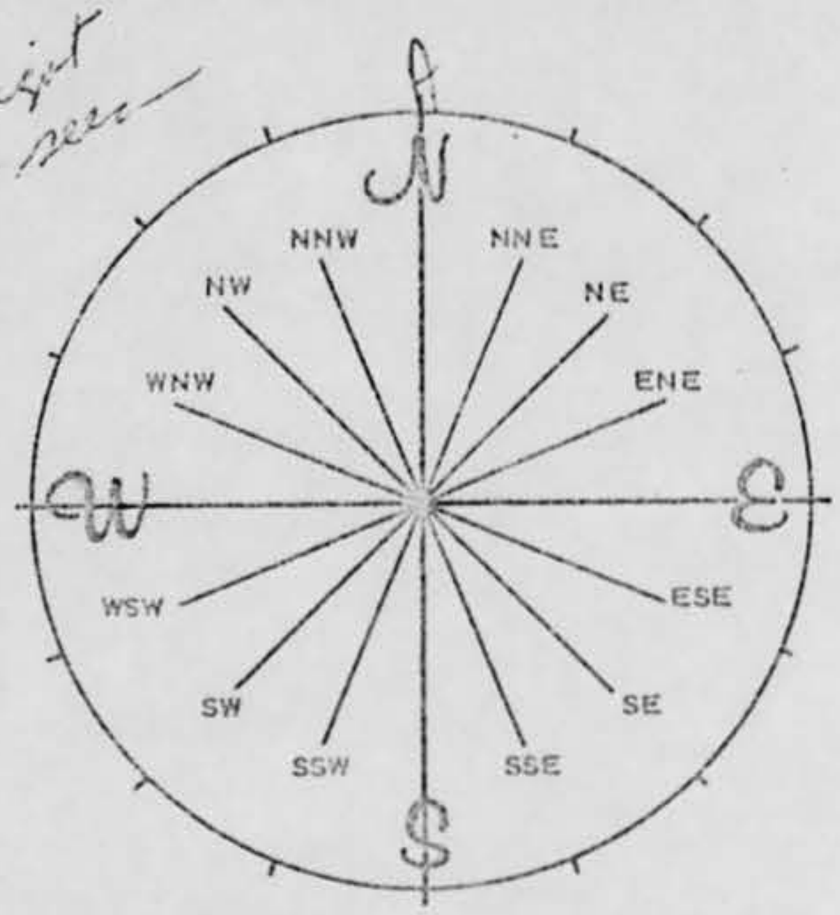
6. IMAGINE YOU ARE AT THE POINT SHOWN IN THE SKETCH. PLACE AN "A" ON THE CURVED LINE TO SHOW HOW HIGH THE PHENOMENON WAS ABOVE THE HORIZON, OR SKYLINE, WHEN FIRST SEEN. PLACE A "B" ON THE SAME CURVED LINE TO SHOW HOW HIGH ABOVE THE HORIZON THE PHENOMENON WAS WHEN LAST SEEN.



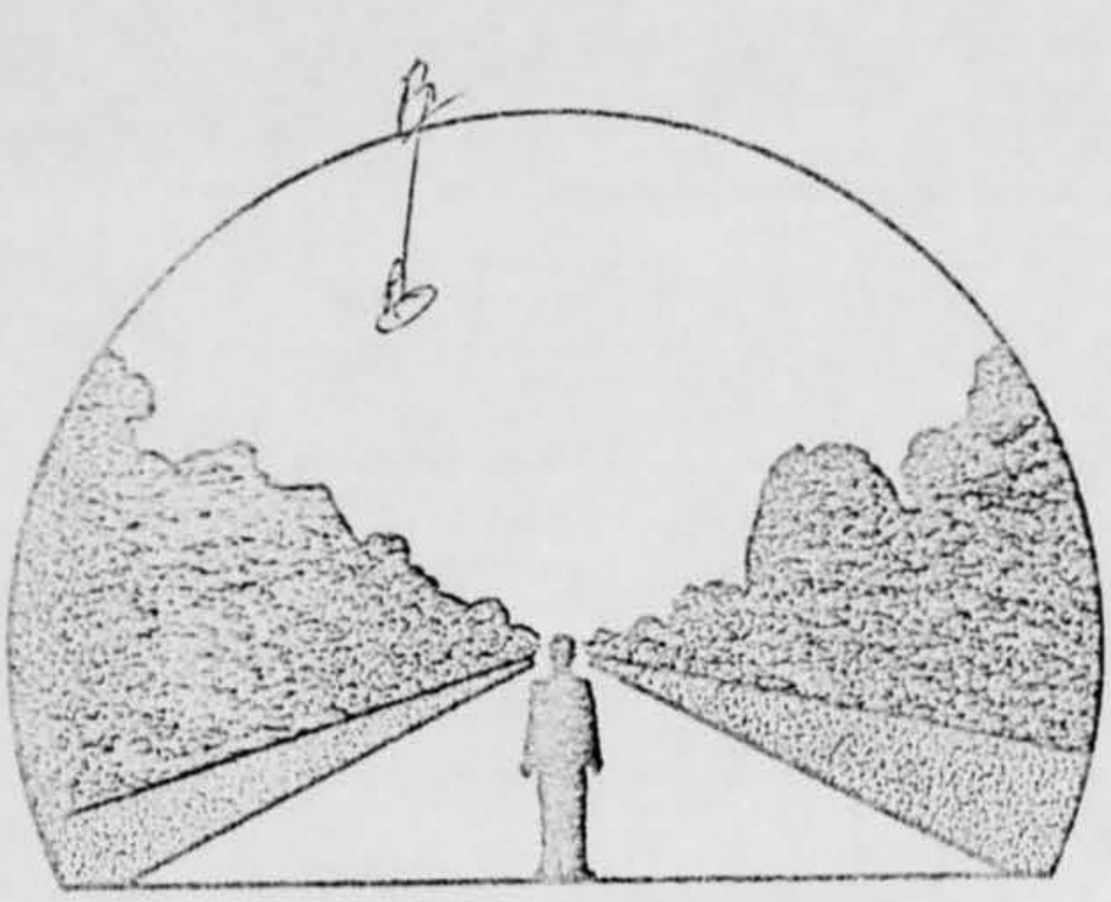
AF FORM AUG 67 117

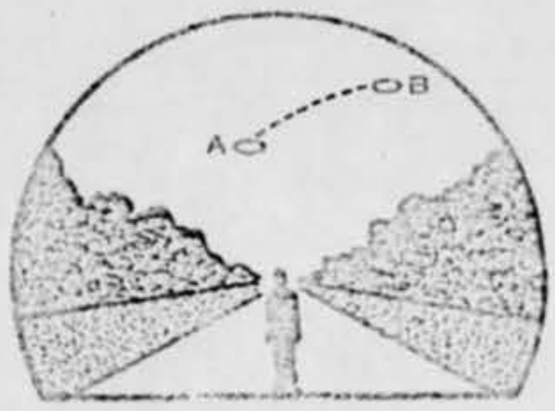
6A. NOW IMAGINE YOU ARE AT THE CENTER OF THE COMPASS ROSE. PLACE AN "A" ON THE COMPASS TO INDICATE THE DIRECTION TO THE PHENOMENON WHEN FIRST SEEN. PLACE A "B" ON THE COMPASS TO INDICATE THE DIRECTION TO THE PHENOMENON WHEN LAST SEEN.

Appeared to be going straight when last seen



7. IN THE SKETCH BELOW, PLACE AN "A" AT THE POSITION OF THE PHENOMENON WHEN FIRST SEEN, AND A "B" AT THE POSITION OF THE PHENOMENON WHEN LAST SEEN. CONNECT THE "A" AND "B" WITH A LINE TO APPROXIMATE THE MOVEMENT OF THE PHENOMENON BETWEEN "A" AND "B". THAT IS, SCHEMATICALLY SHOW WHETHER THE MOVEMENT APPEARED TO BE STRAIGHT, CURVED OR ZIG-ZAG. REFER TO SMALLER SKETCH AS AN EXAMPLE OF HOW TO COMPLETE THE LARGER SKETCH.





8. WHERE WERE YOU WHEN YOU SAW THE PHENOMENON? *(Check appropriate blocks.)*

✓	OUTDOORS		IN BUSINESS SECTION OF CITY
	IN BUILDING		IN RESIDENTIAL SECTION OF CITY
	IN CAR ☐ AS DRIVER ☐ AS PASSENGER		IN OPEN COUNTRYSIDE
	IN BOAT		NEAR AIRFIELD
	IN AIRPLANE ☐ AS PILOT ☐ AS PASSENGER		FLYING OVER CITY
	OTHER		FLYING OVER OPEN COUNTRY
			OTHER In city dir. outside city

A. IF YOU WERE IN A VEHICLE, COMPLETE THE FOLLOWING:

WHAT DIRECTION WERE YOU MOVING?				HOW FAST WERE YOU MOVING?
	NORTH		EAST	
	SOUTH		WEST	DID YOU STOP ANYTIME WHILE OBSERVING THE PHENOMENON?
	NORTHEAST		SOUTHEAST	
	NORTHWEST		SOUTHWEST	☐ YES ☐ NO

EXPLAIN WHETHER SUCH MOVEMENT EFFECTS YOUR SKETCHES IN ITEMS 5 AND 6.

DESCRIBE TYPE OF VEHICLE YOU WERE IN AND TYPE OF ROAD, TERRAIN OR BODY OF WATER YOU TRAVERSED DURING THE SIGHTING. STATE WHETHER WINDOWS OR CONVERTIBLE TOP WERE UP OR DOWN.

HOW MUCH OTHER TRAFFIC WAS THERE?

DID YOU NOTICE ANY AIRPLANES? ☑ YES ☐ NO. IF "YES," DESCRIBE WHEN THEY WERE IN SIGHT RELATIVE TO THE TIME OF SIGHTING THE PHENOMENON AND WHERE THEY WERE IN THE SKY RELATIVE TO THE POSITION OF THE PHENOMENON.

Object was zig-zagging around. Jet plane — plane
Object

9. HOW LONG WAS THE PHENOMENON IN SIGHT?

LENGTH OF TIME		CERTAIN OF TIME	✓	NOT VERY SURE
Abt 5 to 60 seconds		FAIRLY CERTAIN		JUST A GUESS

HOW WAS TIME DETERMINED?

WAS THE PHENOMENON IN SIGHT CONTINUOUSLY? ☑ YES ☐ NO. IF "NO," INDICATE WHETHER THIS IS DUE TO YOUR MOVEMENT OR THE BEHAVIOR OF THE PHENOMENON, AND DESCRIBE SUCH MOVEMENT OR BEHAVIOR. INDICATE DISAPPEARANCES ON PREVIOUS SKETCHES.

10. IF THERE WERE MORE THAN ONE PHENOMENON, HOW MANY WERE THERE? DRAW A PICTURE TO SHOW HOW THEY WERE ARRANGED. DID THIS ARRANGEMENT CHANGE DURING THE SIGHTING?

11. CONDITIONS *(Check appropriate blocks.)*

A. SKY		B. WEATHER			
	DAY		CUMULUS CLOUDS *(Low fluffy)*		FOG OR MIST
✓	TWILIGHT		CIRRUS CLOUDS *(High fleecy or Herring-bone)*		HEAVY RAIN
	NIGHT				LIGHT RAIN OR DRIZZLE
✓	CLEAR		NIMBUS CLOUDS *(Rain)*		HAIL
	PARTLY CLOUDY		CUMULONIMBUS CLOUDS *(Thunderstorms)*		SNOW OR SLEET
	COMPLETELY OVERCAST				UNKNOWN
			HAZE OR SMOG		NONE OF THE ABOVE

C. IF THE SIGHTING WAS AT TWILIGHT OR NIGHT, WHAT DID YOU NOTICE ABOUT THE STARS AND MOON?

(1) STARS		(2) MOON		
	NONE		BRIGHT MOONLIGHT	NO MOONLIGHT
	A FEW		MOON WITH HALO	UNKNOWN
	MANY		MOON HIDDEN BY CLOUDS	
	UNKNOWN		PARTIAL *(New or quarter)*	

D. IF SIGHTING WAS IN DAYLIGHT, WAS THE SUN VISIBLE? ☐ YES ☐ NO. IF "YES," WHERE WAS THE SUN AS YOU FACED THE PHENOMENON?

	IN FRONT OF YOU		TO YOUR RIGHT		OVERHEAD *(Near noon)*
	IN BACK OF YOU	✓	TO YOUR LEFT		UNKNOWN

E. SPECIFY THE MAJOR SOURCE OF ILLUMINATION PRESENT DURING THE SIGHTING, SUCH AS THE SUN, HEADLIGHTS OR STREET LAMP, ETC. FOR TERRESTRIAL ILLUMINATION, SPECIFY DISTANCE TO LIGHT SOURCE.

Sun was setting — but not dark —

12. GIVE A BRIEF DESCRIPTION OF THE PHENOMENON, INDICATING WHETHER IT APPEARED DARK OR LIGHT, WHETHER IT REFLECTED LIGHT OR WAS SELF-LUMINOUS AND WHAT COLORS YOU NOTICED. DESCRIBE YOUR IMPRESSION OF WHETHER IT WAS SOLID OR TRANSPARENT, WHETHER EDGES WERE SHARP OR FUZZY. DESCRIBE THE SHAPE OR INDICATE IF IT APPEARED AS A POINT OF LIGHT. INDICATE COMPARISONS WITH OTHER OBSERVED OBJECTS, LIKE STARS, A LIGHT OR OTHER OBJECT IN YOUR FIELD OF VIEW.

Glowing disc shaped object — silvery in color — not fuzzy around edge. —

13. DID THE PHENOMENON	YES	NO	UNKNOWN
MOVE IN A STRAIGHT LINE?			
STAND STILL AT ANYTIME?			
SUDDENLY SPEED UP AND RUN AWAY?	✓		
BREAK UP IN PARTS AND EXPLODE?			
CHANGE COLOR?			
GIVE OFF SMOKE?			
CHANGE BRIGHTNESS?			
CHANGE SHAPE?			
FLASH OR FLICKER?			
DISAPPEAR AND REAPPEAR?			
SPIN LIKE A TOP?			
MAKE A NOISE?			
FLUTTER OR WOBBLE?			

14. WHAT DREW YOUR ATTENTION TO THE PHENOMENON?

Was Observing jet Going over when Object Came into View

A. HOW DID IT FINALLY DISAPPEAR?

Went straight up from jet plane

B. DID THE PHENOMENON MOVE BEHIND OR IN FRONT OF SOMETHING, LIKE A CLOUD, TREE, OR BUILDING AT ANY TIME?
☑ YES ☐ NO. IF "YES," DESCRIBE.

Moved back and forth in Zig-Zag Movements behind and under the plane - but was never out of View —