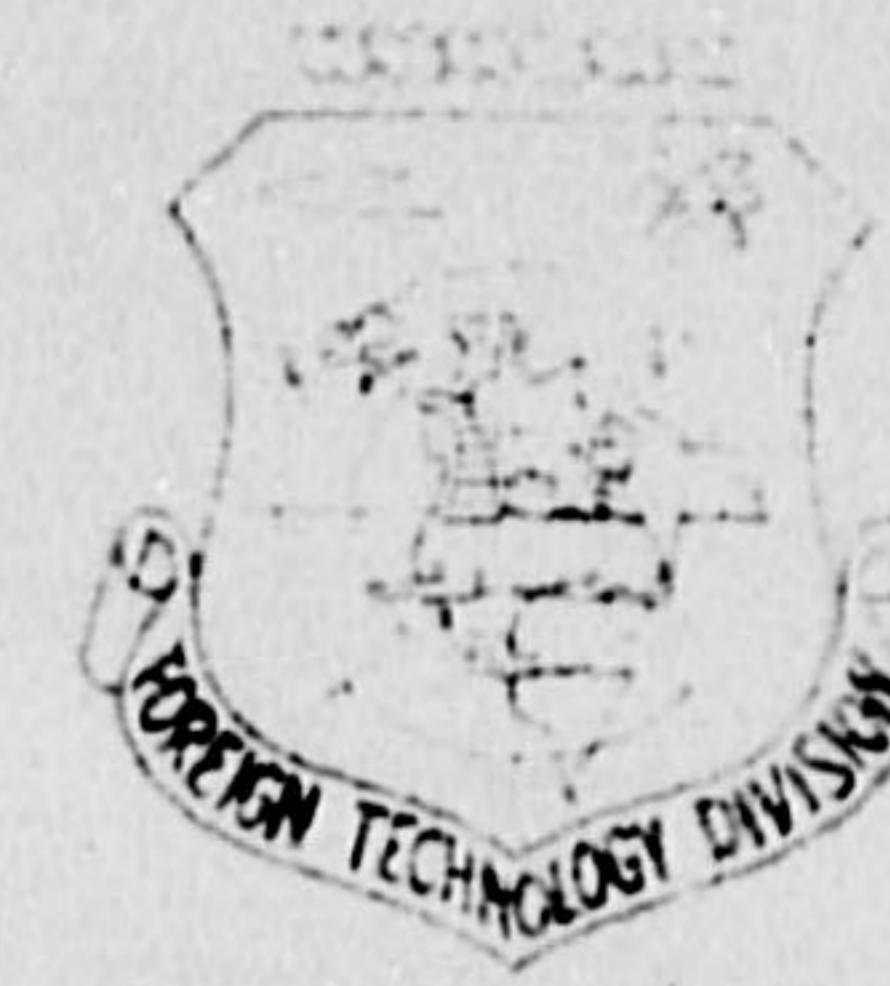


**PROJECT 10073 RECORD CARD**

1. DATE  18 Apr 64	2. LOCATION  Manassas, Virginia	12. CONCLUSIONS		
3. DATE-TIME GROUP  Local 1930  GMT 19/0300Z	4. TYPE OF OBSERVATION  <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar  <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar	<input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon  <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft  <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical  <input checked="" type="checkbox"/> Other <u>DOSS. Research</u> <span style="float: right;">Activity</span> <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown		
5. PHOTOS  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. SOURCE  Civilian			
7. LENGTH OF OBSERVATION  5-8 Minutes	8. NUMBER OF OBJECTS  three/one	9. COURSE  Rising NE		
10. BRIEF SUMMARY OF SIGHTING  Sighting at dusk through BX. Obj. appeared to be three stars together forming a triangle. Motion erratic. <del>XXXXXX</del> Appeared to be breaking up. like a red spark that burned out. Looked as bright as meteor at first, white. Obj. was observed in flight in the East on the horizon and rising. Disappearance at 45 deg elevation.			11. COMMENTS  Wind direction at alt. wrong for balloon type obs. unless obj. <u>appeared</u> to rise to the NE. Wallops Island located at 120 deg az. from Manassas, Virginia. Sighting more likely assoc. with activities from this location in view of initial appearance of meteor. and the rising. Also poss. <del>xx</del> balloon launch for atmospheric studies from this location.	

HEADQUARTERS  
FOREIGN TECHNOLOGY DIVISION  
AIR FORCE SYSTEMS COMMAND  
UNITED STATES AIR FORCE  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



REPLY TO  
ATTN OF: TDFCC/Major George Mills/57223  
SUBJECT: Unidentified Aerial Phenomenon

1 May 1964

TO: TDEW

1. Reference: Sighting of 18 April 1964 1930L near Manassas, Virginia. The time, location and description suggest this sighting may have been the 19 April 0030Z radiosonde release from Washington, D.C.

2. Supporting facts

a. The radiosonde train consists of a balloon, a radiosonde package and another intermediate object. Oscillations of the radiosonde package may cause the entire train to take a triangular shape from time to time.

b. The release time of the radiosonde train preceded the sighting sufficiently to allow a climb to an altitude consistent with the sighting angle.

c. Sunset for the area occurred at 1849 local time followed by 30 minutes of twilight. At the sighted altitude the radiosonde would first be bathed in direct sunlight. As sunset occurs for the higher elevation the radiosonde would be bathed in more of the red light from the sun. This might account for the observed color change. The time and altitude were correct for this transition. There were no weather systems and few clouds to the west which also permits this sequence. (High clouds, cirrus, often show this same color change at sunrise or sunset).

d. The trajectory of the radiosonde train is determined by the following winds:

<u>1000 foot levels</u>	<u>Direction from which</u>	<u>Speed knots</u>
2-12	250	20
14	270	25
30	290	40
35	310	40
40	300	35
50	280	40



(e.g., 270 degrees is a wind from the west, 250 degrees is from south of west). The rise rate is 1000 feet per minute. The 250 degree winds would carry the radiosonde train into the NE quadrant which would appear to the observer as a movement to the north. The apparent motion would be more noticeable than that caused by the higher winds which occurred at higher elevations and from the NW quadrant. At this later time the distance of the radiosonde from the observer reduces the apparent motion.

3. No explanations of this nature are conclusive but there is enough consistency between Mr. [REDACTED] observations and the supporting data above to make our hypothesis plausible. Please let me know if more detailed analysis is required.

*George Mills II*  
GEORGE MILLS II  
Major, USAF  
Meteorologist

18 APR

MEMO ROUTING SLIP		NEVER USE FOR APPROVALS, DISAPPROVALS, CONCURRENCES, OR SIMILAR ACTIONS		ACTION
1	TO HELEN		INITIALS	CIRCULATE
2			DATE	COORDINATION
3				FILE
4				INFORMATION
				NOTE AND RETURN
				PER CON- VERSATION
				SEE ME
				SIGNATURE
REMARKS THE ATTACHED LETTER IS TO BE UTILIZED ON WHICH TO BASE A REPLY TO THIS GENTLEMEN. I TALKED TO YOU ON THE PHONE ABOUT THIS. I NOTICED THAT MAJ MILLS USES THE WORDS MAY AND MIGHT. SUGGEST YOU LEAVE THESE OUT.				
THANK YOU SGT OBENOUR				
FROM		DATE		
		PHONE		

DD FORM 1 OCT 50 95

Replaces DD Form 94, 1 Feb 50 and DD Form 95,  
1 Feb 50 which will be used until exhausted.

GPO 1961 : O-596753

18 APR

May 13, 1964

Dear Mr. [REDACTED]

This letter is in further reference to the sighting of an Unidentified Flying Object you reported seeing on April 18, 1964.

The time, location and description of this sighting coincide with the release of a radiosonde balloon in the Washington, D.C. area.

The radiosonde train consists of a balloon, a radiosonde package and another intermediate object. Oscillations of the radiosonde package may cause the entire train to take a triangular shape from time to time. The release time of the radiosonde train preceded the sighting sufficiently to allow a climb to an altitude consistent with the sighting angle.

Sunset for this area occurred at 6:49 p.m. local time, followed by 30 minutes of twilight. At the sighted altitude the radiosonde would first be bathed in direct sunlight. As sunset occurs for the higher elevation, the radiosonde would be bathed in more of the red light from the sun. This accounts for the observed color change. The time and altitude were correct for this transition. Also, the winds at that time would have carried the radiosonde train into the NE quadrant which would appear to you as a movement to the north.

It is hoped that this information will answer your query. Thank you for reporting this sighting to the Air Force.

Sincerely,

MASTON M. JACKS  
Major, USAF  
Public Information Division  
Office of Information

Mr. [REDACTED]

George Washington Station  
Alexandria, Virginia

18 APR

Form 164

from

to Box

Geo Wash. Station

Alex, Va.

Business:

Send over Measures. Bagby

## 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?

15      April      1964

Day

Month

Year

2. Time of day: 10:30

Hour

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?

Nearest Postal Address

City or Town

State or County

5. How long was object in sight? (Total Duration)

Hours      Minutes      Seconds

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

5.1 How was time in sight determined? \_\_\_\_\_

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

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;

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:**

- a. Appear to stand still at any time?
- b. Suddenly speed up and rush away at any time?
- c. Break up into parts or explode?
- d. Give off smoke?
- e. Change brightness?
- f. Change shape?
- g. Flash or flicker?
- h. Disappear and reappear?

(Circle One for each question)

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

It moved behind something, up and down, and disappeared.

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 \_\_\_\_\_

b. Color \_\_\_\_\_

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?

\_\_\_\_\_

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.

Front side eye - C  
The right side is a dot

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	c. East	e. South	g. West
b. Northeast	d. Southeast	f. Southwest	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?

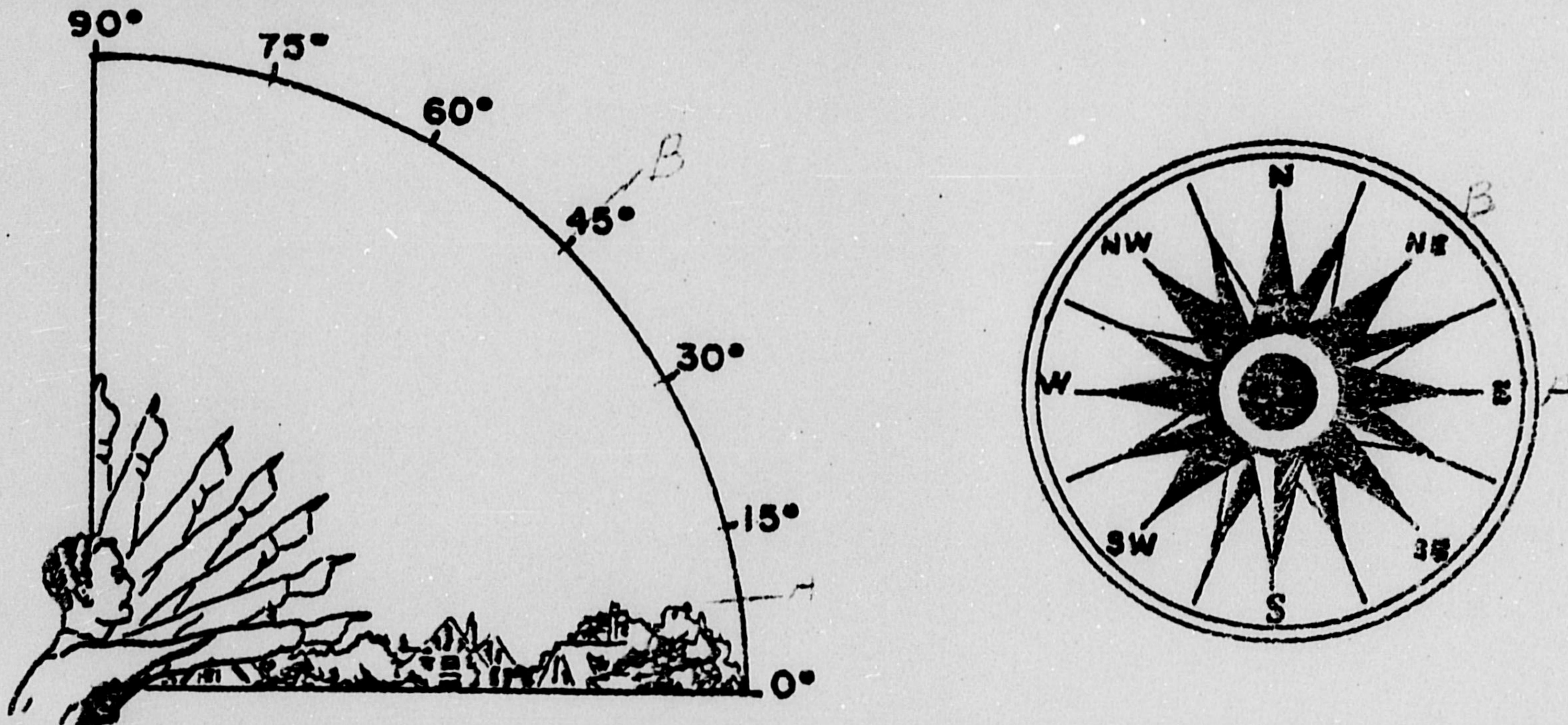
(Circle One) Yes No

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.

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? \_\_\_\_\_  
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. *No*

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:

*Bladensburg, Maryland*

*Phone [REDACTED] Home - 864-5662*

32. Please give the following information about yourself:

NAME *[REDACTED]* *[REDACTED]* *[REDACTED]*  
Last Name *[REDACTED]* First Name *[REDACTED]* Middle Name *[REDACTED]*

ADDRESS *[REDACTED]* *[REDACTED]* *[REDACTED]* *[REDACTED]*  
Street *[REDACTED]* City *[REDACTED]* Zone *[REDACTED]* State *[REDACTED]*  
*Bladensburg, Maryland*

TELEPHONE NUMBER *[REDACTED]* AGE *[REDACTED]* SEX *[REDACTED]*

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

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

Day

Month

Year

34. Date you completed this questionnaire:

19 1964

Day

Month

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.

I first saw the object through binoculars  
around 10:15 P.M. on the 1st of June and became  
convinced that it was something other than a plane.  
It was a saucer shaped object with a horizontal band and  
appeared to be a single light source. It was  
about when went to the window and the light  
ended, my sight seemed to have left me and  
tried to look up the object. I could no longer  
see it. The month following altitude in  
relation to the horizon.

I would appreciate some insight from  
you. I would like to have a sighting of your  
own and to compare notes.