

**PROJECT 10073 RECORD CARD**

<b>1. DATE</b> 1 Nov 61		<b>2. LOCATION</b> Diboll, Texas		<b>12. CONCLUSIONS</b>	
<b>3. DATE-TIME GROUP</b> Local <u>2000</u> GMT <u>020200Z</u>		<b>4. TYPE OF OBSERVATION</b> <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>Echo I</u> <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown	
<b>5. PHOTOS</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>6. SOURCE</b> Civilian			
<b>7. LENGTH OF OBSERVATION</b> 5-8 min		<b>8. NUMBER OF OBJECTS</b> 1	<b>9. COURSE</b> E		
<b>10. BRIEF SUMMARY OF SIGHTING</b> Observation of objt like Echo I. Reported because direction was not that as seen previously.			<b>11. COMMENTS</b> Objt has all characteristics of Echo I. A check of orbit of this satellite indicates that it was in position reported for objt at time of sighting. Report is therefore evaluated as Satellite (Echo I).		
			RETURN TO: Director Aerospace Studies Inst ATTN: Archives Branch Maxwell AFB, Alabama	K 243.6012-1 NOV 1961	

34. 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

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

\_\_\_\_\_  
 Day

\_\_\_\_\_  
 Month

\_\_\_\_\_  
 Year

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

(Circle One) Yes No

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

(Circle One) Yes No

36.2 Please list their names and addresses:  
 \_\_\_\_\_

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

(Circle One) Yes No ECHO

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

\_\_\_\_\_  
 SIMILAR TO ECHO  
 \_\_\_\_\_  
 \_\_\_\_\_

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

ECHO OR SIMILAR

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? \_\_\_\_\_

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? \_\_\_\_\_

41. Please give the following information about yourself:

NAME \_\_\_\_\_  
Last Name First Name Middle Name

ADDRESS \_\_\_\_\_  
Street City Zone State  
DIBOLL TEXAS

TELEPHONE NUMBER \_\_\_\_\_

Age 38 Sex M

Indicate any additional information about yourself, including any education, which might be pertinent.  
GRADUATE OF A&M COLLEGE OF TEXAS  
PROFESSIONAL ENGINEER

42. Date you completed this questionnaire:

10 NOV 1961  
:Day Month Year

U.S. AIR FORCE TECHNICAL INFORMATION SHEET  
(SUMMARY DATA)

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

NAME \_\_\_\_\_

(Please Print)

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

Nov. 11, 1961

(Do Not Write in This Space)

CODE:

On the night of November 1, 1961 at approximately 8 P.M. CST at my home in Diboll, Texas, I received a telephone call from Dr. \_\_\_\_\_ a neighbor, that he had observed a satellite and would I care to see it. At that time I went into the street in the front of my home and Dr. \_\_\_\_\_ pointed the object out to me. The object appeared to me to be the Echo Satellite; however, the direction of travel was not the same that I had previously observed Echo on several occasions the past several months.

After observing the object several minutes, it disappeared suddenly. The night was clear and numerous stars were in the sky and the object could be observed readily since it was brighter than the stars. I did not observe any other lights, such as the red and green, usually seen in connection with high flying aircraft.

ECHO I

U.S. AIR FORCE TECHNICAL INFORMATION SHEET

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

1. When did you see the object?

1 Nov 1961  
Day Month Year

2. Time of day: 8<sup>00</sup>         
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?

\_\_\_\_\_ Deball Texas  
Nearest Postal Address City or Town State or Country

Additional remarks: \_\_\_\_\_

5. How long was object in sight?

\_\_\_\_\_ 5-8 \_\_\_\_\_  
Hours Minutes Seconds

5.1 How was time in sight determined?

a. Certain  
b. Fairly certain

c. Not very sure  
d. Just a guess

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. The object appeared:

(Circle One): a. As a light b. Shiny c. Dark d. Don't remember

10. If it appeared as a light, was it brighter than the brightest stars?

*It was as bright as most stars, but not as bright as Sirius*

11. Did the object:

(Circle One for each question)

- |   |                                      |                                     |            |
|---|--------------------------------------|-------------------------------------|------------|
| a. Appear to stand still at any time?           | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| b. Suddenly speed up and rush away at any time? | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| c. Break up into parts or explode?              | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| d. Give off smoke?                              | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| e. Change brightness?                           | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| f. Change shape?                                | Yes                                  | <input checked="" type="radio"/> No | Don't Know |
| g. Flash or flicker?                            | <input checked="" type="radio"/> Yes | No                                  | Don't Know |
| h. Disappear and reappear?                      | Yes                                  | <input checked="" type="radio"/> No | Don't Know |

12. 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: \_\_\_\_\_

13. 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: \_\_\_\_\_

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

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

- |                 |     |                                     |                |     |                                     |
|-----------------|-----|-------------------------------------|----------------|-----|-------------------------------------|
| a. Eyeglasses   | Yes | <input checked="" type="radio"/> No | e. Binoculars  | Yes | <input checked="" type="radio"/> 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 _____ |     |                                     |

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

a. Sound none . A small plane was in the sky at the same time  
 b. Color bright star. No color

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

18. The edges of the object were:

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

e. Other \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

19. IF there was MORE THAN ONE object, then how many were there? \_\_\_\_\_

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

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



21. How large did the object appear to you as compared to an object with which you are familiar?

*Echo satellite*

22. 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?

*All.*

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

*yes. Suddenly*

24. 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.

*Echo satellite  
High flying plane*



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 (type)
- e. At sea
- f. Other \_\_\_\_\_

26. Were you (Circle One)

- a. In the business section of a city?
- b. In the residential section of a city?
- c. In open countryside?
- d. Near an airfield?
- e. Flying over a city?
- f. Flying over open country?
- g. Other \_\_\_\_\_

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

Getting out of car & happened to look over-  
head.

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     | g. West      |
| b. Northeast | d. Southeast | f. Southwest | h. 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     | <input checked="" type="radio"/> g. West      |
| b. Northeast | d. Southeast | f. Southwest | <input checked="" type="radio"/> h. Northwest |
|              |              |              | <input checked="" type="radio"/> i. Overhead  |

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

- |   |              |              |              |
|---|--------------|--------------|--------------|
| <input checked="" type="radio"/> a. North | c. East      | e. South     | g. West      |
| b. Northeast                              | d. Southeast | f. Southwest | h. Northwest |
|   |              |              | i. Overhead  |

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

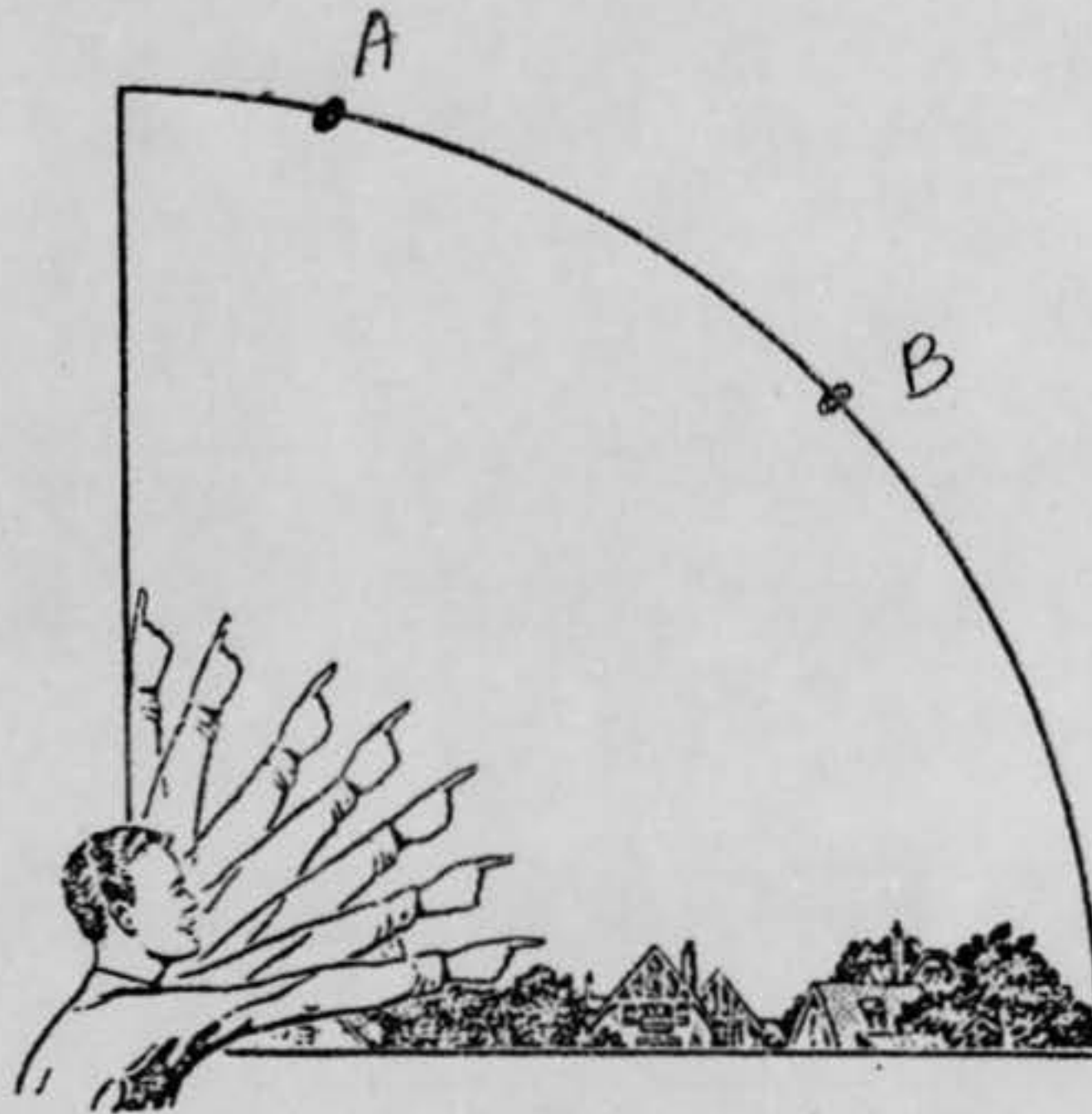
31.1 When it first appeared:

- a. From true North 90 degrees.
- b. From horizon 70 degrees.

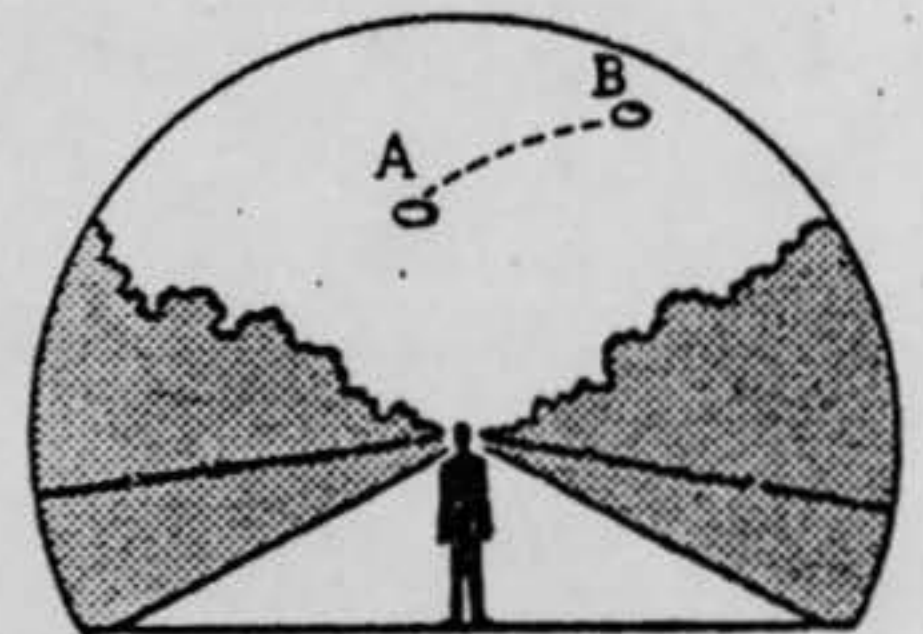
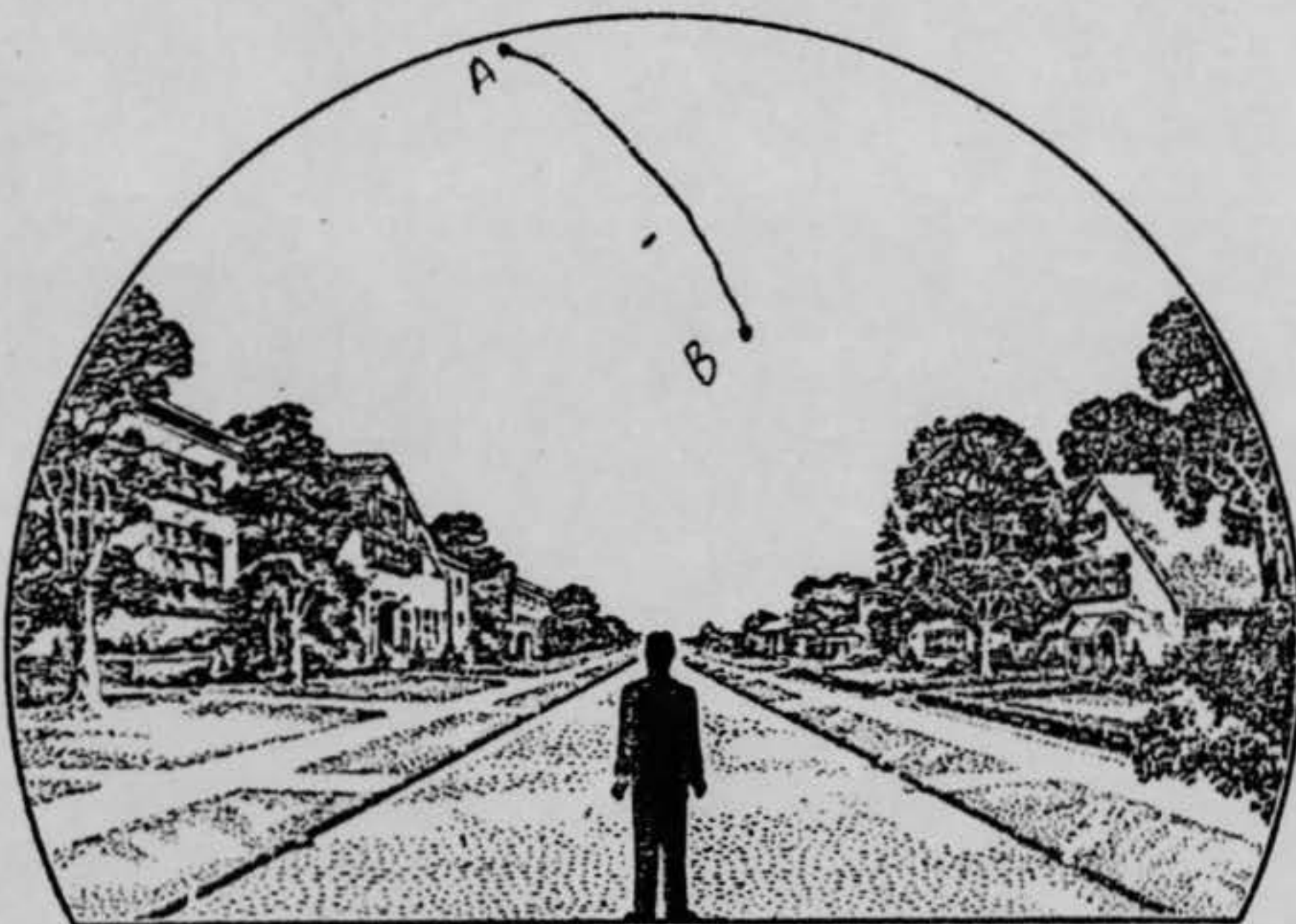
31.2 When it disappeared:

- a. From true North 0 degrees.
- b. From horizon 45 degrees.

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



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



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

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

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

3 Nov 1961  
 Day Month Year

AIR FORCE

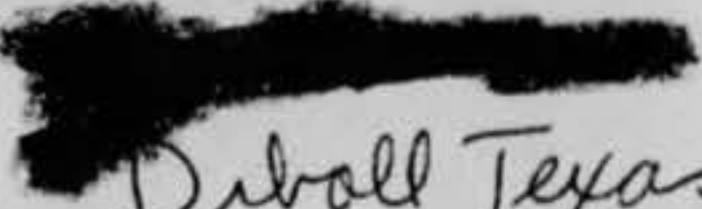
36. Was anyone else with you at the time you saw the object?

(Circle One)  Yes No

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

(Circle One)  Yes No

36.2 Please list their names and addresses:

  
 Daboll Texas

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

(Circle One)  Yes No

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

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

Echo Satellite which may have moved out of reflected light.  
 High flying airplane with landing lights (but no running lights observed)

[REDACTED]  
DIBOLL, TEXAS

November 2, 1961

Department of the Air Force  
Washington 25, D. C.

RE: Unidentified flying object.

Dear Sirs:

This letter is to report a phenomenon observed on the night of November 1, 1961, at Diboll, Texas, at approximately 8:00 P. M. CST. What was thought to be a satellite, was seen in the western sky at an angle of 70 to 80 degrees. This was observed for several minutes traveling in a northerly direction. [REDACTED] Diboll, Texas, a neighbor was called to observe.. The object would have been dismissed as a satellite, if when it was in the northern sky at an angle of 45 degrees, it suddenly disappeared at 8:00 P. M. CST and was not seen again.

The object could not be distinguished from a star of 2nd degree magnitude except by it's motion.

Respectively submitted,  
[REDACTED]  
[REDACTED]

ELH:bbb

SMC

1003597

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? \_\_\_\_\_

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? \_\_\_\_\_

41. Please give the following information about yourself:

NAME

\_\_\_\_\_ Last Name

\_\_\_\_\_ First Name

\_\_\_\_\_ Middle Name

ADDRESS

\_\_\_\_\_ Street

\_\_\_\_\_ City

\_\_\_\_\_ Zone

\_\_\_\_\_ State

TELEPHONE NUMBER \_\_\_\_\_

Age 35

Sex male

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

B.S. in Chemical engineering U of Texas

M.D. U of Texas

42. Date you completed this questionnaire:

5

Day

Dec

Month

1961

Year

U.S. AIR FORCE TECHNICAL INFORMATION SHEET  
(SUMMARY DATA)

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

NAME \_\_\_\_\_

(Please Print)

(Do Not Write in This Space)

SIGNATURE \_\_\_\_\_

CODE:

DATE \_\_\_\_\_

12-5-61

On the evening of 1 Nov, 1961 at approximately 8 PM CST in DeBolt, Texas I returned from a house call. I looked overhead and noted 2 stars and realized that one was in motion. When first observed it was at an angle of approx 70° from the horizon in the western sky moving toward the north. Assuming that it was a satellite I asked my wife, children and a neighbor to observe it. We observed it moving steadily to the north. When it was in the ~~no~~ northern sky about 45° above the horizon it suddenly disappeared. The time was then ascertained as 8:51 PM CST. The light was constant with some flickering. It was moving with an even, regular motion. No red or green was seen with the light. It would have been dismissed as a satellite except for its sudden disappearance.

7 November 1961

Dear [REDACTED]

Your letter of November 2nd has been received. Your interest in reporting this sighting is appreciated.

I am enclosing two questionnaires for you and your neighbor Mr. [REDACTED] to complete. When you have filled them out, please mail them in the enclosed pre-addressed envelopes which do not require postage.

Sincerely,

WILLIAM T. COLEMAN, JR.  
Major, USAF  
UFO Information Project Officer  
Public Information Division  
Office of Information

[REDACTED]  
Diboll, Texas

## U.S. AIR FORCE TECHNICAL INFORMATION SHEET

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

1. When did you see the object?

1                      NOV.                      1961  
Day                      Month                      Year

2. Time of day: 8:00                      \_\_\_\_\_  
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?

DIBOLL                      DIBOLL                      TEXAS  
Nearest Postal Address                      City or Town                      State or Country

Additional remarks: \_\_\_\_\_

5. How long was object in sight?

\_\_\_\_\_                      5-8                      \_\_\_\_\_  
Hours                      Minutes                      Seconds

5.1 How was time in sight determined?

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

6. What was the condition of the sky?

DAY	NIGHT
a. Bright	a. <u>Bright</u>
b. Cloudy	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                      d. To your left  
b. In back of you                      e. Overhead  
c. To your right                      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. The object appeared:

(Circle One): a. As a light b. Shiny c. Dark d. Don't remember

10. If it appeared as a light, was it brighter than the brightest stars?

YES

11. Did the object:

(Circle One for each question)

- |   |            |           |            |
|---|------------|-----------|------------|
| a. Appear to stand still at any time?           | Yes        | <u>No</u> | Don't Know |
| b. Suddenly speed up and rush away at any time? | Yes        | <u>No</u> | Don't Know |
| c. Break up into parts or explode?              | Yes        | <u>No</u> | Don't Know |
| d. Give off smoke?                              | Yes        | <u>No</u> | Don't Know |
| e. Change brightness?                           | Yes        | <u>No</u> | Don't Know |
| f. Change shape?                                | Yes        | <u>No</u> | Don't Know |
| g. Flash or flicker?                            | <u>Yes</u> | No        | Don't Know |
| h. Disappear and reappear?                      | Yes        | <u>No</u> | Don't Know |

12. 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: \_\_\_\_\_

13. 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: \_\_\_\_\_

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

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

- |                 |     |           |                |     |           |
|-----------------|-----|-----------|----------------|-----|-----------|
| a. Eyeglasses   | Yes | <u>No</u> | e. Binoculars  | Yes | <u>No</u> |
| b. Sun glasses  | Yes | <u>No</u> | f. Telescope   | Yes | <u>No</u> |
| c. Windshield   | Yes | <u>No</u> | g. Theodolite  | Yes | <u>No</u> |
| d. Window glass | Yes | <u>No</u> | h. Other _____ |     |           |

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

- a. Sound NONE
- b. Color BRIGHT STAR

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

18. The edges of the object were:

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

e. Other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. IF there was MORE THAN ONE object, then how many were there? \_\_\_\_\_

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

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

21. How large did the object appear to you as compared to an object with which you are familiar?

ECHO SATILIGHT

22. 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?

ALL

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

YES

24. 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.

ECHO SATILIGHT

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 (type) \_\_\_\_\_
- e. At sea
- f. Other \_\_\_\_\_

26. Were you (Circle One)

- a. In the business section of a city?
- b. In the residential section of a city?
- c. In open countryside?
- d. Near an airfield?
- e. Flying over a city?
- f. Flying over open country?
- g. Other \_\_\_\_\_

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

CALL BY ~~XXXXXXXXXX~~ TO OBSERVE OUTDOORS

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     | g. West      |
| b. Northeast | d. Southeast | f. Southwest | h. 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. <u>North</u> | c. East      | e. South     | g. West      |
| b. Northeast    | d. Southeast | f. Southwest | h. Northwest |
|                 |              |              | i. Overhead  |

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

- |                 |              |              |              |
|-----------------|--------------|--------------|--------------|
| a. <u>North</u> | c. East      | e. South     | g. West      |
| b. Northeast    | d. Southeast | f. Southwest | h. Northwest |
|                 |              |              | i. Overhead  |

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

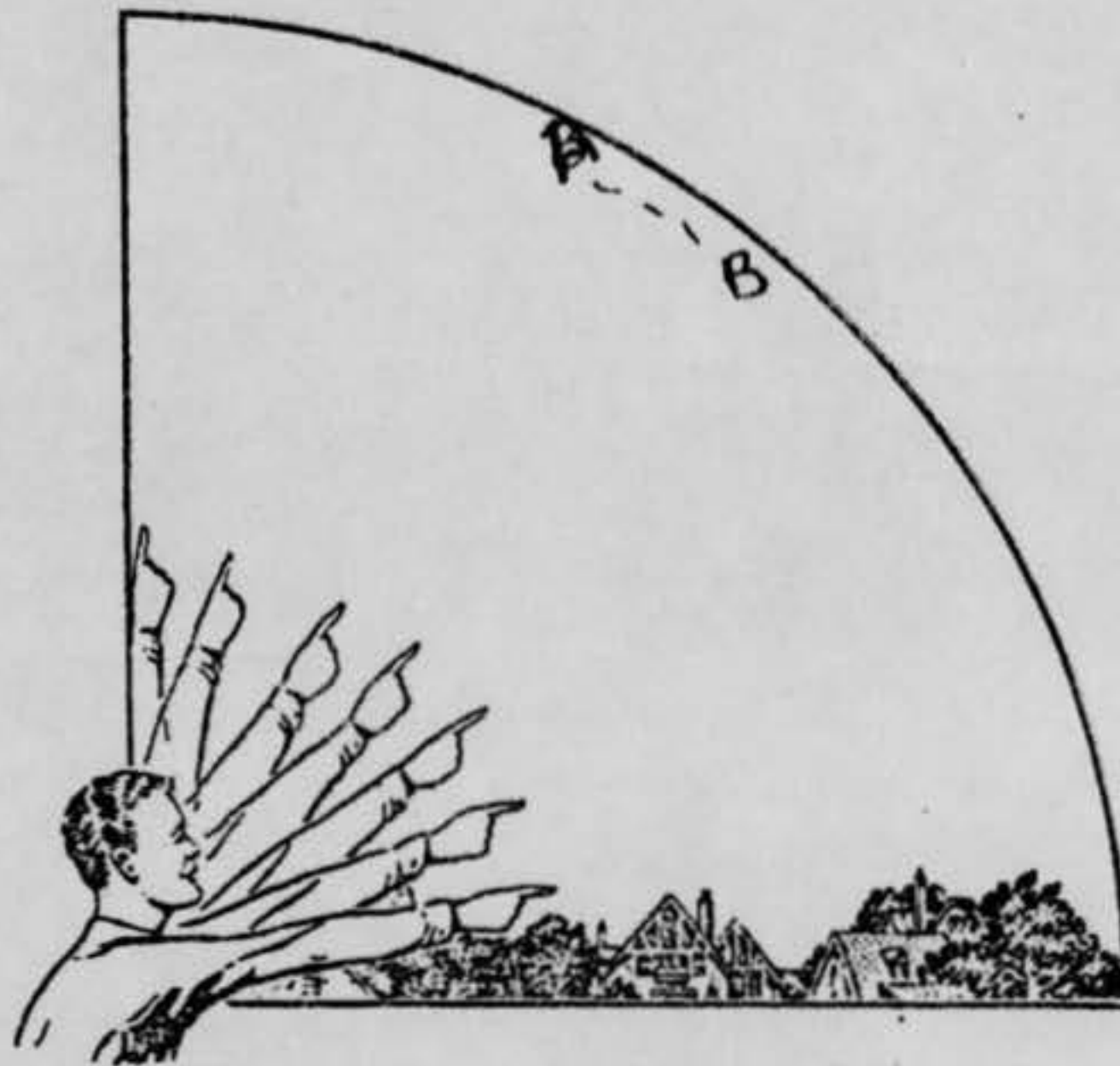
31.1 When it first appeared:

- a. From true North \_\_\_\_\_ degrees.
- b. From horizon \_\_\_\_\_ degrees.

31.2 When it disappeared:

- a. From true North 0° degrees.
- b. From horizon \_\_\_\_\_ degrees.

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



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

