PROJECT 10073 RECORD CARD

1. DATE
20 Oct 55

2. LOCATION
Minnesota

3. DATE-TIME GROUP
Local
GMT 21/0140Z 21/0200Z

4. TYPE OF OBSERVATION
☐ Ground-Visual ☐ Ground-Radar
☒ Air-Visual ☒ Air-Intercept Radar

5. PHOTOS
☐ Yes
☒ No

6. SOURCE 2.
military (2)

7. LENGTH OF OBSERVATION
1. Visual - 2 secs
2. Radar - 15-20 seconds

8. NUMBER OF OBJECTS
1

9. COURSE
varied

10. BRIEF SUMMARY OF SIGHTING
1. Oblong, glowing white, fast sharp 90° turn. No definite tail. Visually by one pilot.

2. Picked up on radar (A/B). By fighter pilot from same organ. Obj on radar oblong in shape.

11. COMMENTS
1. METEOR. Alleged turn considered, illusion due to observers a/c being in bank (note briefness of sighting)

2. RADAR, TEMP INVERSION. Poss Reflection due to very strong and very pronounced temp inversion existing between 35,000 and 39,000.

12. CONCLUSIONS
☐ Was Balloon
☐ Probably Balloon
☐ Possibly Balloon

☐ Was Aircraft
☐ Probably Aircraft
☐ Possibly Aircraft

☒ Was Astronomical Meteor
☐ Probably Astronomical
☐ Possibly Astronomical

1. Rdar Temp Inversion
☒ Other
☐ Insufficient Data for Evaluation
☐ Unknown

ATIC FORM 329 (REV 26 SEP 52)

ROUTING	COORDINATION
ATI	
ATIM-1	AFOIN-4E4
ATIMG	
TO:	
ATIMS	
ATIMX	
ATIR	
ATIS	
OIN ~~ATIA~~ 4E4	
1	R. W. Dreppard, T/Sgt, 4E4, 12/9/55
	H. A. Miley
OTHERS	

AFOIN-4E4/Sgt. Drepperd/vp
69216

12 DEC 1955

SUBJECT: Unidentified Flying Object over Minneapolis, Minnesota

TO: Commander
4602D Air Intelligence Service Squadron (ADC)
Ent Air Force Base
Colorado Springs
Colorado

1. Reference AISOP918, concerning UFOB over Minneapolis, Minnesota on 21 October 1955.

2. A comprehensive analysis of the weather conditions existing in the Minneapolis area at the time of sightings revealed the presence of an unusually strong tropopause (temperature inversion) from the altitude of 33,800' to 39,200'. Also, another temperature inversion of less intensity was plotted at an altitude of 4,980'.

3. After consideration of the statements of the sources; duration of the sightings and the existance of a pronounced inversion, this case has been evaluated as a PROBABLE OPTICAL AND ELECTRONIC reflection due to meteorological conditions.

FOR THE COMMANDER

MARY L. STORM
1st Lt. USAF
Assistant Adjutant

PERM____TEMP____	RETENTION PERIOD
DESTROY	
RETIRE	
FILE AUTHORITY	

ATIC FORM 144 (REV 1 FEB 55) ROUTING AND COORDINATION SHEET

AFOIN-4E4 OFFICIAL FILE COPY

Oct 25 02 32 '55

RR RJEDEN RJEDWP RJEPHQ

DE RJEDNG 37A

R 242032Z

FM COMDR 31ST ADIV SNELLING AF STA ST PAUL MINN

TO RJEDEN/COMDR ADC ENT AFV COLORADO SPRINGS COLO

RJEDWP/COMDR ATIC WRIGHT-PATTERSON AFB OHIO

RJEPHQ/D/I HQRTS USAF ASH D C

BT

/U N C L A S S I F I E D/ OIN 5168A PD UFOB PD (1) DESCRIPTION OF THE OBJECT. (A) OBLONG(B) PEA (C) WHITE, GLOWING (D) ONE (E) NONE (F) VERY FAST, TRUING SHARP, FAST TRUN NINETY DEGREES (G) NO DEFINITE TAIL (TEARDROP) (H) NONE 7I) SHORT, FAST TURN NINETY DEGREES (2) DESCRIPTION OF COURSE OF OBJECT (A) A/C MAKING TURN INTO GLIDE PATH(B) OVERHEAD, 25000 FT (C) N/A (D) STRAIGHT THEN 90 DEGREE TURN (E) INSTANT (F) TWO SECONDS (3) MANNER OF OBERSEVANCE (A) AIR VISUAL (B) NONE (C) FOX 89 DOG ABLE FOX 11322 2500 FT AHNNW, 280 MS P (4) TIME AND DATE OF SIGHTING (A) 21/0200Z (B) NIGHT VISUAL (5) MSP APPROACH (6) ID INFO OF ALL OBJECTS (A) N/A (B) MILITARY, STECK, WILLIAM F. 1/LT 432ND

FIS PILOT (7) WEATH AND WINDS ALOFT (A) 25,000 CEILING SCATTERED (BL ,000-360/20: 10,000-300 DEGREE/30 20-000-300 DEGREE/40;30,000270 GREE/70; 10,000/270 DEGREE/60; (C) NONE (D) NONE (E) 14,000 SCATTERED

22,000 SCATTERED BY WX (F) NONE (8) NONE(9)NONE (10) NONE (11) END OF MSG (12) NONE UFOB RPT PD (1) DESCRIPTION OF THE OBJECT (A) AIRBORNE RADAR PAINT OBLONG(B) LITTLE SMALLER PEA (C) UNKNOWN (D) ONE (E) NONE (F) NONE (G) NONE (H) NONE (I) SEVEN MILES ON SCOPE, 15 OR 20 SECOND IT WAS UP TO 15 MILES. (2) DESCRIPTION OF COURSE OF OBJECT (A) PILOT FOLLOWING ANOTHER A/C WHEN HE JUST NOTICED THE OBJECT. (B) 45 DEGREES TO RIGHT OF A/C 909 DEGREES A/C HEADING (C) LEVEL AND 45 DEGREES OF RIGHT OF A/C (D) HEAD AWAY FM A/C (E) FADE(F) 15 OR 20 SECONDS (3) MANNER OF OBSERVANCE: (A) AIR ELECTRONIC (B) NONE (C) FIX 89 DOG 111309 20,000 090DEGREE-300K MSP (4) TIME AND DATE OF SIGHTING (A) 21/0140Z (B) NIGHT (5) NOW OF OMIN STATRA OBOUT 10 MI OR 30 MI N W OF MSP (6) ID OF INFO OF ALL OBJ (A) N/A (B) CHANAU DONALD E 1ST LT 432ND IFS RO (7) WEATHER (A) 23,000 SCATTERED AND BROKEN (PILOT) (B) 6,000-360/20 10,000--300/30 20,000-300/40 30,000-270/70 40,000-27)/60 (C) CEILING NONE (D) NONE (E) 14,000 SCATTERED 22,000 SCATTERED (WX STATION) 6/10 CLOUD COVER (F) NONE (8) NONE (9) NONE (10) ANOTHER FIGHTER THAT WAS BEING INTEROGATED (11) END OF MSG(12) NONE COMMENT OF PREPARING

PAGE THREE RJEDNG 37A

OFFICER: OBJECT WAS REPORTED TO KIDSKIN GCI STATION CONTROLLER 2/LT FREDRIC W BUSCH WHO REPORTED THAT PAINT BREAK ON HIS SCOPE INDICATED THAT THE OBJECT SEEMED TO DO ABOUT 1000K. ONLY OTHER ACTIVE A/C IN THE AREA WAS A STRATO-CRUISER, 200K HEADING 180 DEGREES AT 50 MILES. LOCAL RESEARCH AGENCIES WERE QUERIED WITH NEGATIVE RESULTS PD END UFOB MSG.

BT

24/2038" OCT RJEDNG

13

OCT 25 8 56 '55

R

2 1 70IN-4E4

3

4 " 4X2a

M WPC11SENB055

PP RJEDWP

DE RJEDEN 89

P 251600Z

FM COMDR 4602D AISS ENT AFB COLO

TO COMDR ATIC WPAFB O

BT

/UNCL/AISOP 918 PD ATTN CLN AFOIN-4E4 PD REF TT MSG OIN 5168 CMM FM COMDR 31ST ADIV SNELLING AF STA MINN CMM DTD 24/2032Z OCT 55 PD REQ ATIC FORM 332 PAREN ELECTRONICS DATA SHEET PAREN BE SENT ALL RADAR OBSVRS OF FOB PD REQ THIS ORGANIZATION BE INFORMED OF ATIC CONCLUSIONS AFTER ANALYSIS OF RETURNED FORMS PD END

BT

25/1641Z OCT RJEDEN

(8499

4E4
fog

ATIC Subject: Request for Additional Information

OIN (28 Oct 55) 1st Ind

HEADQUARTERS 31ST AIR DIVISION (DEFENSE), Snelling Air Force Station, Saint Paul 11, Minnesota

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

Basic communication complied with.

FOR THE COMMANDER:

Homer L. Starks

2 Incl
N/C

HOMER L. STARKS
Major, USAF
Adjutant

AIR TECHNICAL INTELLIGENCE CENTER
WRIGHT-PATTERSON AIR FORCE BASE
OHIO

28 OCT 1955

SUBJECT: Request for Additional Information

TO: Commander
31st Air Division (Def)
Snelling Air Force Station
St. Paul, Minnesota

1. Reference your message OIN 5168A, UFOB dated 24/2032Z October 1955.

2. Request Lt. Donald E. Chanau, of the 432nd Fighter Interceptor Squadron, be asked to complete the inclosed "Electronics Data Sheet" in regards to the UFOB reported at 21/0140Z October 1955.

3. Request Lt. William F. Steck, of the same unit be asked to complete the inclosed "U.S. Air Force Technical Information Sheet" in regards to the UFOB reported at 21/0140Z October 1955.

4. Upon completion of the forms, return same to the following address:

Commander
Air Technical Intelligence Center
ATTN: AFOIN-4E4
Wright-Patterson AFB
Ohio

FOR THE COMMANDER

E. E. DARVEAUX
Capt., USAF
Asst Adjutant

2 Incls
1. Electronics Data Sheet
2. U. S. Information Sheet

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?

~~26~~ 21 (Day) ~~Aug~~ Oct (Month) 55 (Year)

2. Time of day: 0200 (Hour) — (Minutes)

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

3. Time zone:

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

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

4. Where were you when you saw the object?

Anchorage (Nearest Postal Address) Minneapolis (City or Town) Minn. (State or Country)

Additional remarks: Turning into Traffic Pattern

5. Estimate how long you saw the object. — (Hours) — (Minutes) 5 (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? Thin scattered cirrus at 25,000

(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?

N/A

(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

ATIC FORM NO. 164 (13 OCT 54)

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

8.2 MOON *(Circle One)*:

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

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

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

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

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

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

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

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

(Circle One): Yes No Don't Know. IF you answered YES, then tell what it moved behind: seemed To shim just over the top of the thin cloud layer. Was not a spotlight as I especially To note of this.

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

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

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

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

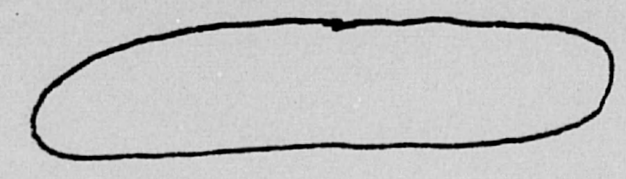
a. Eyeglasses	Yes	No	e. Binoculars	Yes	No
b. Sun glasses	Yes	No	f. Telescope	Yes	No
c. Windshield	Yes	No	g. Theodolite	Yes	No
d. Window glass	Yes	No	h. Other _____		

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

a. Sound none

b. Color glowing 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 an arrow beside the drawing to show the direction the object was moving.

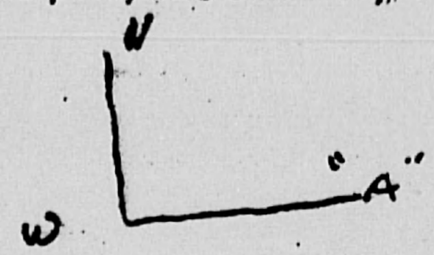


18. The edges of the object were:

(Circle One): a. (Fuzzy or blurred near edge)
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. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
_____ feet. no 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 dollar
h. Baseball
i. Grapefruit
j. Basketball
k. Other _____

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

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

23. How did the object or objects disappear from view? As it went north it seem to get smaller until it disappeared leading me to believe it went upward.

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.

This object appeared more like a meteor than any other thing. However, it burned too long and turned 90° which eliminates that possibility.

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

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

26. Were you *(Circle One)*

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

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

Clearing myself of other aircraft while turning into Traffic Pattern.

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

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

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

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

31.1 When it first appeared:

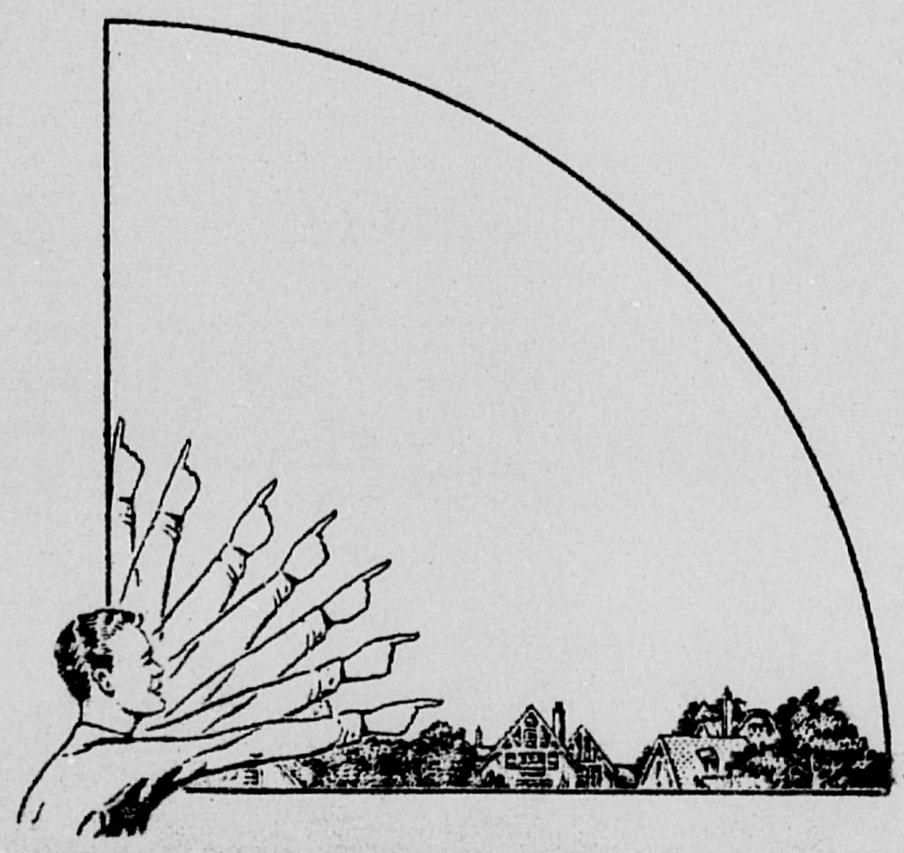
a. From true North 90 degrees.
b. From horizon 70 degrees.

31.2 When it disappeared:

a. From true North 0 degrees.
b. From horizon 60 degrees.

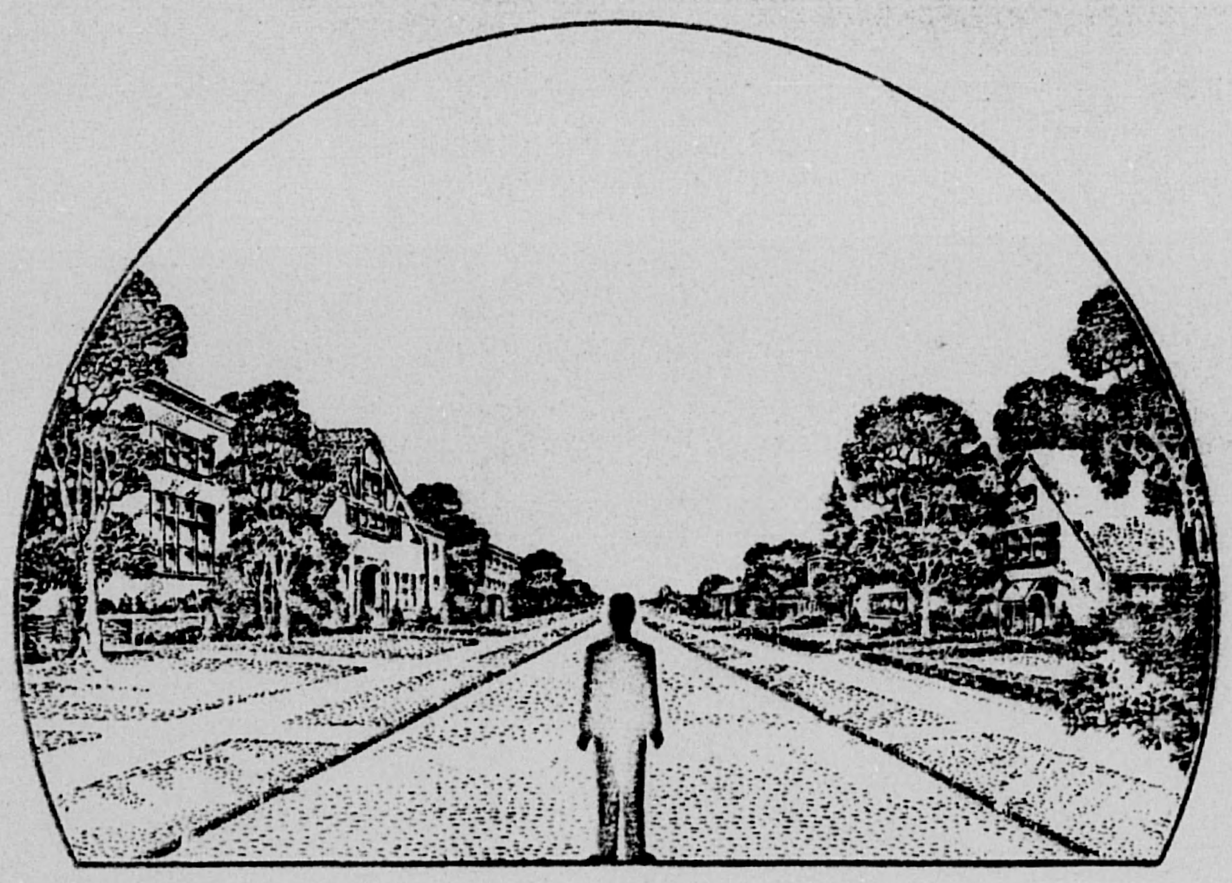
32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the *same* curved line to show how high the object was above the horizon (skyline) when you *last*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

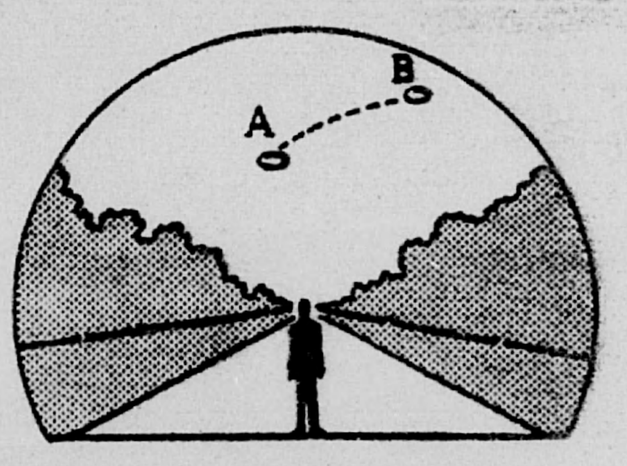
N/A



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.

N/A





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
f. Thin layer at 25000

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?

21 (Day) Aug (Month) 55 (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

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

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

don't Know.

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

(Circle One) (Yes) No

IF you answered YES, then what speed would you estimate? 1000–1500 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? 22000 feet.

41. Please give the following information about yourself:

NAME Steck (Last Name) William (First Name) Franklin (Middle Name)

ADDRESS 432nd F.I.S. (Street) Minne.-St. Paul Mun Arpt. (City) Minneapolis (Zone) Minn. (State)

TELEPHONE NUMBER PA 12915 Ex. 243

What is your present job? Pilot

Age 26 Sex M.

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 Pilot Training

42. Date you completed this questionnaire: 3 (Day) Nov (Month) 55 (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 William F Steck
(Please Print)

SIGNATURE Wm F Steck

DATE 3 Nov 55

(Do Not Write in This Space)

CODE:

The questionaire take care of all description and circumstances that this occured. However, the intresting thing was the two Radar Observers in the aircraft got strange blips on their scopes which moved at a terrific rate of speed. This coos the same way. It was concerned with this and allerted the GCI station to find that they also had seen somthing on their scrollen moving at 1000K.

ELECTRONICS DATA SHEET
(GROUND RADAR)

The purpose of this questionnaire is to provide technical data for evaluating the report of an unusual radar target or track. It is requested that it be completed as accurately as possible.

When not filled in, the form is Unclassified. The reporting officer will use his own judgement as to what degree of classification is required.

It is preferred that the answers to the questions be typewritten, however, if it will expedite the completion of the form, the answers may be printed in ink. If additional space is needed, use reverse side of form.

1. STATION OBSERVING TARGET:
   432 FIS
   Organization
   Mpls-St. Paul Intl Arpt.
   Location
   Mpls - Minn.

2. DATE OF THIS REPORT:
   3 Nov 55
   Day Month Year

3. DATE TARGET OBSERVED:
   21 OCT 55 Local Time ☐ Z Time ☐
   Day Month Year
   Time-Local 1940 Time-Z 0140

4. NAME, RANK AND ORGANIZATION OF REPORTING OFFICER:
   Chavanu, Donald E. 1/Lt
   432 Ftr Intrpt Sqdn

5. EXACT LOCATION OF STATION (COORDINATES):

6. OBSERVER DATE (LIST EACH OBSERVER):

	Name	Rank	Duty	No. of Years Exp. in Radar
A.	Donald E. Chavanu	1/Lt	Radar Observer 1564	2
B.				
C.				
D.				
E.				

7. WAS A VISUAL SIGHTING MADE BY ANY PERSONNEL OF THE STATION? ☑ YES ☐ NO
   IF SO, GIVE NAME AND RANK OF ALL PERSONNEL MAKING A VISUAL SIGHTING AND A BRIEF DESCRIPTION OF WHAT THEY SAW:

ATIC FORM 332 (REVISED 25 NOV 1952)

INCL #1

8. HAVE YOU HEARD OF ANYONE NOT AT THE RADAR STATION MAKING A VISUAL SIGHTING AT APPROXIMATELY THE SAME TIME THE RADAR CONTACT WAS MADE? ☐ YES ☑ NO
IF SO, GIVE NAME AND ADDRESS.

About ½ hour after my sighting Lt. William Stek of the 432 FIS sighted an unknown object while in the Nyls traffic pattern just above the cloud layer. Wx was 23,000 ∅.

9. RADAR SCOPE PHOTOS:

IS RADAR EQUIPPED WITH A SCOPE CAMERA?	☑ YES	☐ NO
WAS CAMERA OPERATIONAL?	☑ YES	☐ NO
WERE SCOPE PHOTOS TAKEN?	☐ YES	☑ NO
WERE PRINTS OF THE SCOPE PHOTOS FORWARDED TO THE AIR TECHNICAL INTELLIGENCE CENTER?	☐ YES	☑ NO

10. TRACK DATA:
WHAT WAS THE NUMBER OF THE TRACK? 090°
WAS A PERMANENT PLOT MADE OF THE TRACK AT THE TIME OF THE OBSERVATION? ☐ YES ☑ NO

11. WERE AIRCRAFT SCRAMBLED TO INTERCEPT THE TARGET? ☐ YES ☑ NO
IF SO, WERE THE AIRCRAFT BEING OBSERVED ON THE SCOPE AT THE SAME TIME AS THE TARGET? ☐ YES ☑ NO

12. WERE ANY NEARBY RADAR INSTALLATIONS QUERIED WHETHER THEY HAD OBSERVED THE SAME TARGET OR TRACK? ☑ YES ☐ NO
IF SO, WHICH STATIONS? Kidskin

13. WAS THE TARGET OBSERVED ON SEARCH RADAR? ☑ YES ☐ NO
IF SO, WHAT IS THE NOMENCLATURE OF THE EQUIPMENT? APG 40 FCS

14. WAS THE TARGET OBSERVED ON HEIGHT FINDING RADAR? ☐ YES ☑ NO
IF SO, WHAT IS THE NOMENCLATURE OF THE EQUIPMENT?

15. HAVE THERE BEEN ANY RECENT MAINTENANCE DIFFICULTIES? ☐ YES ☑ NO
IF SO, DESCRIBE.

16. WHAT TYPE MODULATOR (I.E., SPARK GAP, HARD TUBE, ETC.) IS USED IN THE RADAR EQUIPMENT?
Gas tube triode

17. WAS THE AFC (AUTOMATIC FREQUENCY CONTROL) CIRCUIT OPERATING PROPERLY? ☑ YES ☐ NO
COMMENTS:

18. HAS INTERFERENCE FROM ANOTHER RADAR SET BEEN OBSERVED RECENTLY: ☐ YES ☑ NO
COMMENTS:

19. ARE PERSONNEL FAMILIAR WITH THE EFFECTS CAUSED BY AN INTERFERING SIGNAL? ☑ YES ☐ NO
COMMENTS:

20. ARE PERSONNEL FAMILIAR WITH THE EFFECTS OF ANOMALOUS PROPAGATION (DUCTING EFFECTS) AS THEY PERTAIN TO THIS TYPE OF RADAR? ☑ YES ☐ NO

21. HAS ANOMALOUS PROPAGATION (DUCTING EFFECT) BEEN OBSERVED TO EXTEND THE RANGE OF THE GROUND CLUTTER OF THIS RADAR AT THIS SITE? ☐ YES ☐ NO
COMMENTS: Not too my knowledge.

22. WAS ANOMALOUS PROPAGATION (DUCTING EFFECT) EXTENDING THE RANGE OF THE GROUND CLUTTER AT THE TIME THE TARGET WAS OBSERVED? ☐ YES ☑ NO
COMMENTS:

23. HOW DID THE TARGET APPEAR IN SIZE AND SHAPE AS COMPARED TO CONVENTIONAL AIRCRAFT TARGETS?
It was much larger

24. PERFORMANCE OF TARGET:

a. REMAINED CONSISTENT IN SIZE	☑	CHANGED SIZE RAPIDLY	☐
b. SPEED WAS CONSTANT	☑	SPEED WAS VARIABLE	☐
c. FOLLOWED CONSISTENT TRACK	☑	APPEARED, DISAPPEARED, THEN REAPPEARED IN NEW LOCATION	☐
d. FUZZY COMPARED TO AIRCRAFT TARGET	☑	SHARP COMPARED TO KNOWN AIRCRAFT TARGET	☐
e. SAME AS AIRCRAFT TARGET	☐		

25. WERE OTHER TARGETS (KNOWN) OBSERVED IN THE SAME GENERAL AREA, AT APPROXIMATELY THE SAME TIME AND AT THE SAME ALTITUDE AS THE UNUSUAL TARGET? ☑ YES ☐ NO
IF SO, DESCRIBE. We were running an intercept on another ac at same altitude however our primary tgt came in at a shorter range

26. WHAT TYPE INDICATORS ("A" SCOPE, "B" SCOPE, ETC.) WERE USED TO FOLLOW THE TARGET?
"B"

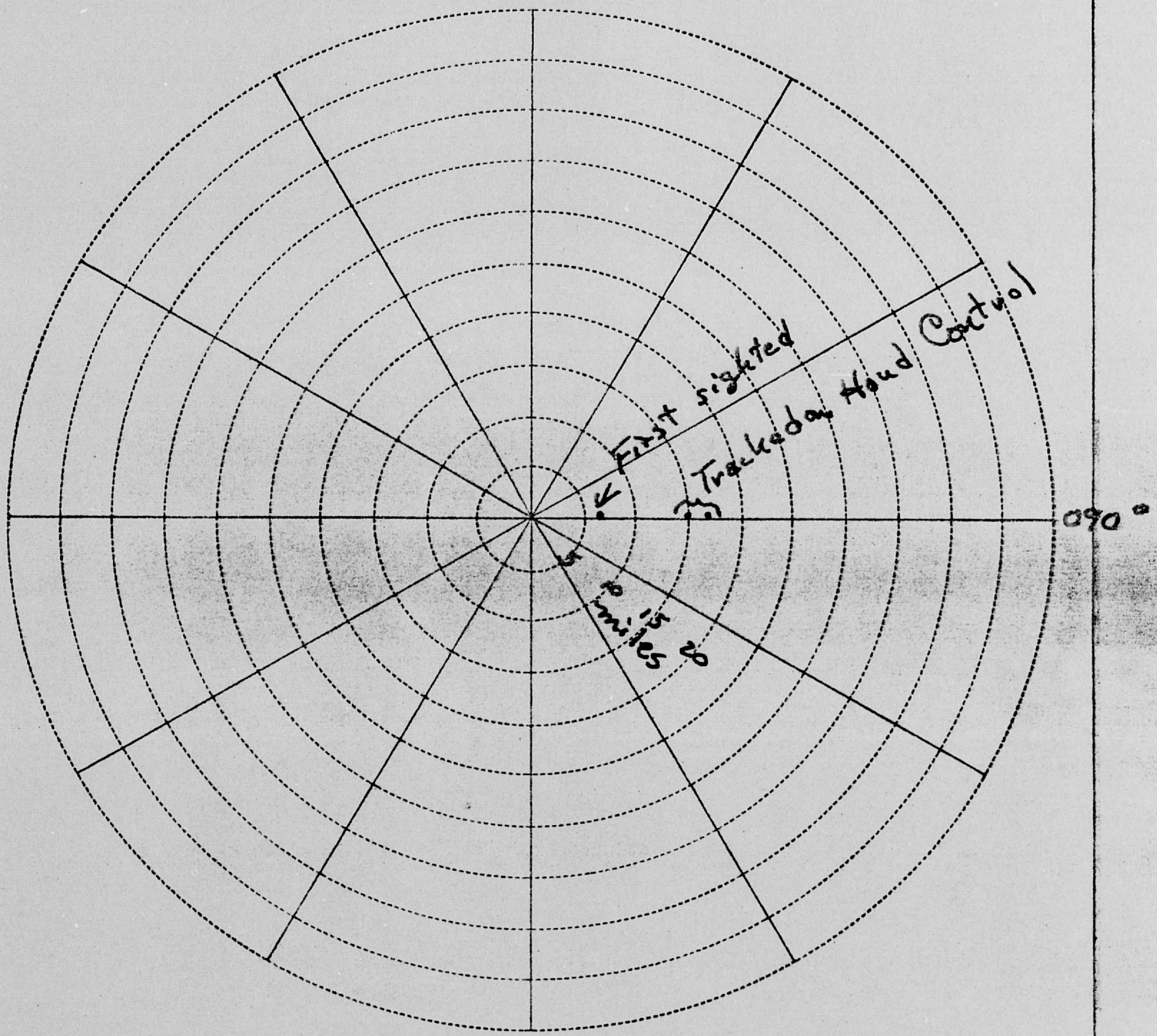
DESCRIBE THE SIGNAL: It was oblong shape, rather fuzzy around the edges.

27. WHAT WAS THE RADAR SCAN RATE? I was on sight scan & the sweep rate was approximately 36 sec.

28. WHAT WAS THE FREQUENCY OF THE TRANSMITTER?
9375 mc.

29. DID ANY OF THE OBSERVERS HAVE ANY OPINIONS AS TO THE NATURE OF THE TARGET? ☐ YES ☑ NO
IF YES, GIVE THEIR NAMES AND OPINIONS BELOW.

30. IF SCOPE PHOTOS ARE NOT AVAILABLE, PLOT THE TARGET TRACK AS ACCURATELY AS POSSIBLE. GIVE THE TIME AND ALTITUDE (IF MEASURED) FOR EACH POINT PLOTTED. PUT THE NECESSARY RANGE SCALE ON THE DIAGRAM.



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31. USE THIS SHEET FOR ANY COMMENTS, OPINIONS OR ADDITIONAL DATA NOT COVERED BY THE QUESTIONS.

We were originally running a practice intercept on a tgt known to be at 25° + 7 miles. The tgt was originally contacted at 45° starboard + 7 miles. During this period I was on search operation. About 10 to 15 secs. later I noticed the tgt tracking the same az with a range of 15 miles. I tracked it on hand control for 2 miles + a period of about 5 secs. Then returned to the intercept.