PROJECT 10073 RECORD

1. DATE - TIME GROUP 13 September 66 14/0154Z	2. LOCATION Hibbing, Minnesota (Multiple)
3. SOURCE Civilian	10. CONCLUSION Other (ARTIFICIAL CLOUD RELEASE) ✓ Trat Barium Cloud
4. NUMBER OF OBJECTS One	At 0135Z, 14 Sep 66 there was a chemical cloud release from Fort Churchill, Canada
5. LENGTH OF OBSERVATION 12 Minutes	11. BRIEF SUMMARY AND ANALYSIS Observers watched a pale red cloud type object, almost to the point of appearing as a vapor or being transparent, appeared in the northern sky. The object was stationary except it was getting larger. Object was compared to a red translucent cloud with no apparent motion. Object was witnesses by the observer at the International Falls Weather Bureau. A cloud release over Fort Churchill at an altitude of approx 100 miles would have been visible for up to about 900 miles. A Nike-Apache rocket was launched at 0135Z and the cloud release occured shortly after.
6. TYPE OF OBSERVATION Ground-Visual	
7. COURSE N	
8. PHOTOS ☐ Yes XX No	
9. PHYSICAL EVIDENCE ☐ Yes XX No	

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

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?

13	Sept.	66
Day	Month	Year

2. Time of day: 8 (Hour) 54 (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?

Hibbing Flight Service Station Chisholm-Hibbing Airport.	Hibbing	Minnesota
Nearest Postal Address	City or Town	State or County

5. How long was object in sight? (Total Duration) Ø (Hours) 12 (Minutes) _____ (Seconds)

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

5.1 How was time in sight determined? 24 hour clock.

5.2 Was object in sight continuously? Yes _____ No X

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

N/A.

FTD FORM 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 rose later.
d. Don't remember

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

CLOUDS *(Circle One)*:

a. Clear sky NORTH
b. Hazy
c. Scattered clouds South.
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:

Aurora borealis.

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?

NO,

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 none.

b. Color Pale red, almost to the point of appearing as a vapor or transparent.

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?

1/8 to 1/4.

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? Stationary

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~~ ON 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

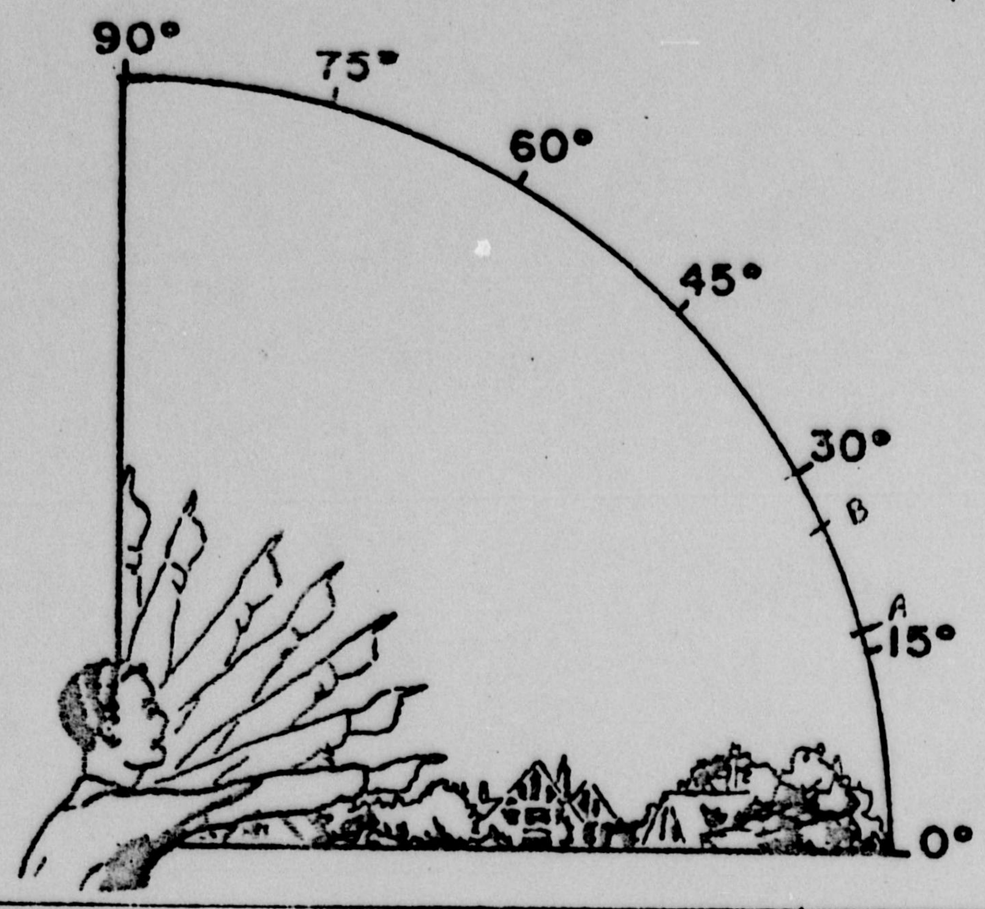
25. Did you observe the object through any of the following?

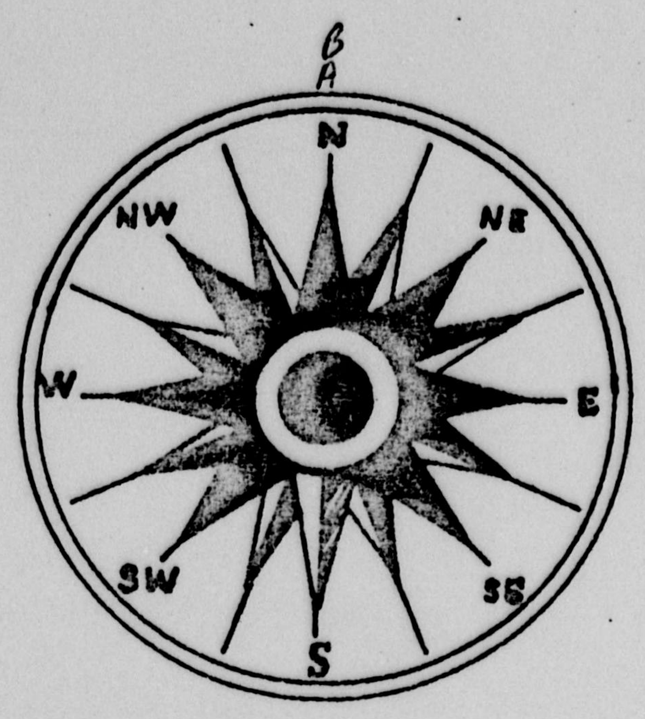
a. Eyeglasses	Yes	No	e. Binoculars	Yes	No
b. Sun glasses	Yes	No	f. Telescope	Yes	No
c. Windshield	Yes	No	g. Theodolite	Yes	No
d. Window glass	Yes	No	h. Other _____		

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.

A red translucent Towering Cumulus or Cumulonimbus cloud.

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.

No apparent motion.

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.

N/A.

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:

Curtis Fischer. Hibbing Flight Service station, Hibbing, Minnesota.

32. Please give the following information about yourself:

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

ADDRESS [redacted] (Street) Chisholm (City) 55719 (Zone) Minnesota (State)

TELEPHONE NUMBER [redacted] AGE 30 SEX Male.

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

U.S. Weather Bureau Certified Weather Observer.

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

13 (Day) Sept. (Month) 66 (Year)

Base operations, Duluth Air Force Base. Duluth, Minnesota.

34. Date you completed this questionnaire: 24 (Day) Sept. (Month) 66 (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.

At the time of observation, about six hours after a cold frontal passage, the weather was broken cirrus clouds or 6/10 sky coverage of which 3/10 were opaque. All clouds were in the southern half of the sky. Visibility was more than one five miles.

This phenomenon was also witnessed by the observer at the International falls weather bureau, International Falls, Minnesota. Also looking North.

Gentlemen,

Rather than filling out another FTD form, I will just add this concurring note to the form Mr. Woodward has completed.

My observation was at the same location and time, [redacted] has described the phenomena almost exactly as I saw it. I am certain it was not a "Flying Saucer", however, it was a rather strange phenomenon.

[redacted]

Hibbing, Minn.

3 Oct 66

Contact was made with Mr. McBay Goddard Space Flight Center, Maryland ex-4893 regarding the observance of alleged UFOs over Northern Minn. The following is the information as stated by Mr. McBay on behalf of Mr. Karl Medrow.

At 0135Z 14 Sept. 66 there was a rocket launch from Fort Churchill, Canada. The rocket was a Nike-Apache (14-278 CA-CI) and went to an altitude of 102 statue miles. This was not a specific barium cloud release but the cloud was similar in chemical composition to those that were launched in August. The cloud would have been similar in color to those launched in August also.

Additional launches -

14 Sept.	0400Z	100 miles altitude	(14-279)
16 Sept.	0122Z	100 miles altitude	(14-280)
16 Sept.	0300Z	120 Miles altitude	(14-281)
16 Sept.	0417Z	120 miles altitude	(14-282)

All of these were cloud releases except the one launched at 0400Z 14 Sept. 66.

Woodward

FTD (TDETR) hl
Wright-Patterson AFB, Ohio 45433
5 October 1966

[redacted]rd
[redacted]W.
Chisholm, Minnesota 55719

Dear Mr[redacted]

After investigating your most unusual observation in the northern sky 13 September 1966, I felt you might be interested to learn of Project Blue Book's findings.

Having considered the available information and having reference to the recent upper atmospheric research studies at Fort Churchill, Canada, contact was made with a Mr. Mc Bay of Goddard Space Flight Center, Greenbelt, Maryland. Conversation with Mr. McBay provided the following information.

"At 0135Z, 14 September 1966, there was a Nike-Apache rocket launched from Fort Churchill. The rocket reached an altitude of approximately 102 statute miles before releasing a cloud that would have been visible for up to 900 miles from the Fort Churchill area. The objectives of these cloud releases is to obtain measuements of electric fields and wind motion in the upper atmosphere by photographing and tracking the movement of the ionized clouds."

Although there were several different cloud releases during a two day period, I feel that this launch at 0135Z was the culprit in your observation. These cloud releases are a truly fascinating phenomena to observe as I am sure you will attest.

Sincerely,

HECTOR QUINTANILLA, Jr, Major, USAF
Chief, Project Blue Book

TDETR
Office of Record

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?

14	SEPT	66
Day	Month	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?

BAUDETTE MINNESOTA (LAKE of the Woods County)

Nearest Postal Address — City or Town — State or County

5. How long was object in sight? (Total Duration) — Hours, 20 Minutes, — Seconds

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

5.1 How was time in sight determined? Noted time on WATCH

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

FTD FORM 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 AN ILLUMINATED Cloud, BRIGHT Red

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?

FADED OUT

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 NONE

b. Color Red – LIKE A ILLUMINATED Red Cloud

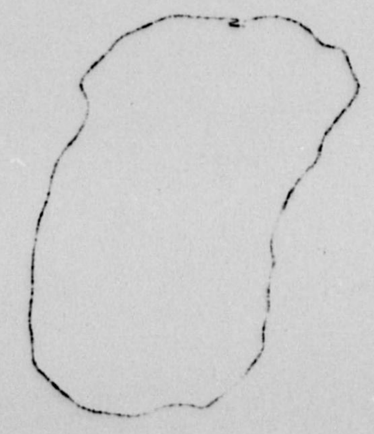
18. We wish to know the angular size. Hold a match stick at arm's length in line with a known object and note how much of the object is covered by the head of the match. If you had performed this experiment at the time of the sighting, how much of the object would have been covered by the match head?

1/4

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.

No Motion

LiKE A Red Cloud



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? 0

21. Do you think you can estimate how far away from you the object was?

(Circle One) Yes (No) But VERY DISTANT

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

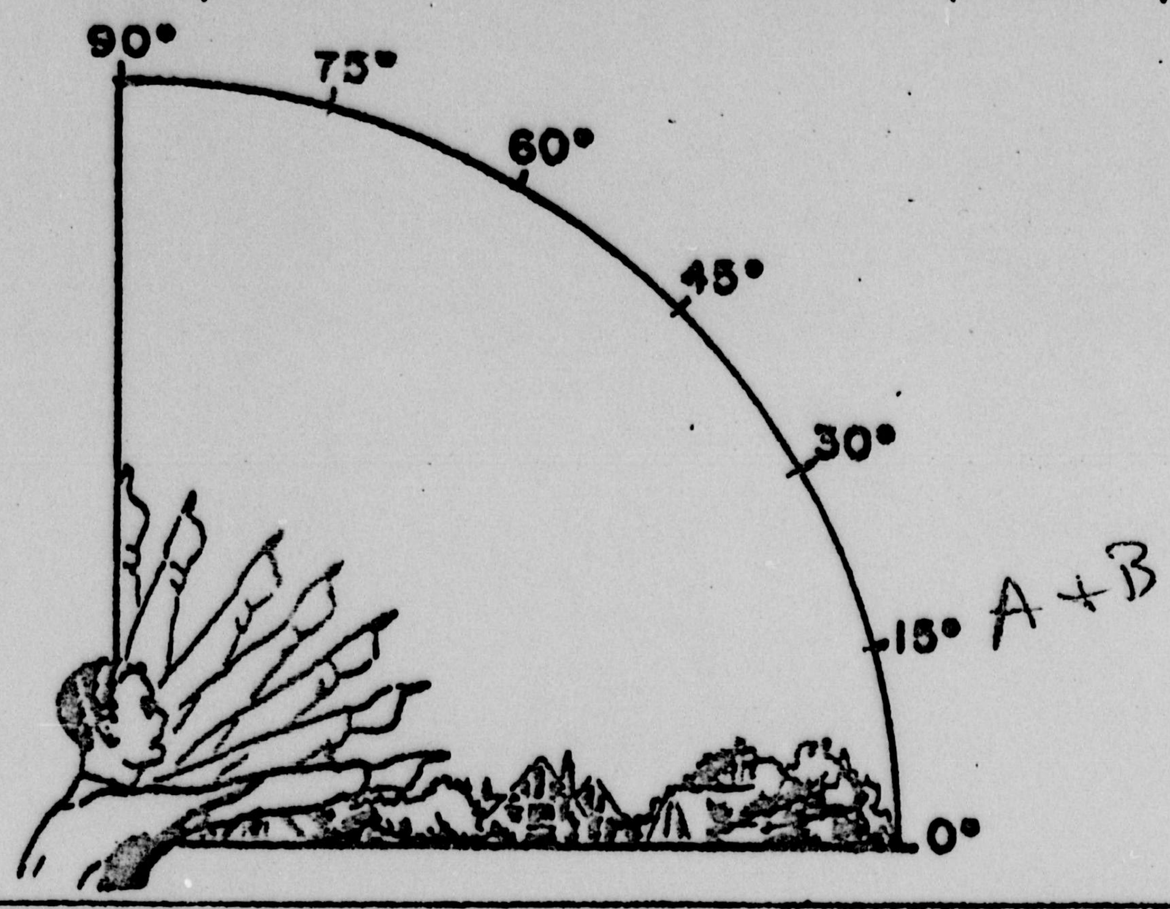
25. Did you observe the object through any of the following?

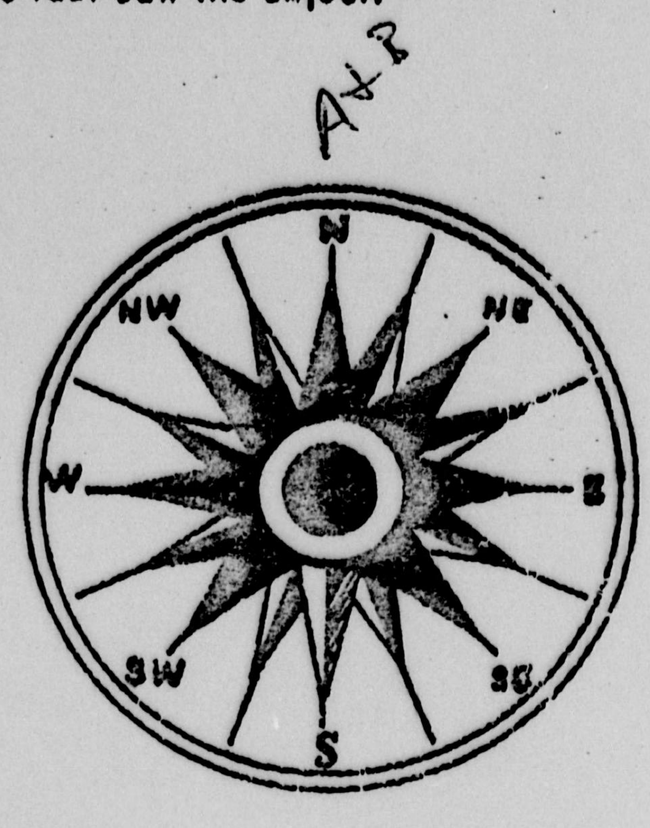
a. Eyeglasses	Yes	(No)	e. Binoculars	Yes	(No)
b. Sun glasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	Yes	(No)	g. Theodolite	Yes	(No)
d. Window glass	Yes	(No)	h. Other _____		

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.

ILLUMINATED Red Cloud

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.

No motion

29. IF there was MORE THAN ONE object, then how many were there? Just ONE

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:

[redacted] BAUDETTE MINN
"
"
"

32. Please give the following information about yourself:

NAME [redacted] (Last Name) [redacted] (First Name) E (Middle Name)

ADDRESS _____ (Street) BAUDETTE (City) MINN (Zone) 56623 (State)

TELEPHONE NUMBER [redacted] AGE 32 SEX M

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

PRIVATE PILOT

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

8 (Day) 14 SEPT (Month) 1966 (Year)

BAUDETTA AIR FORCE STATION

34. Date you completed this questionnaire: ~~15~~ 3 (Day) Oct (Month) 66 (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.

A WEEK LATER this
WAS EXPLAINED IN the
LOCAL NEWSPAPER AS Sodium
Vapor From A Rocket shot
AT Hudson's Bay in CANADA.

Minn 14 Sept. 66

FTD (TDETR) hl
Wright-Patterson AFB, Ohio
29 September 1966

[redacted]
Rowell Laboratories
Baudette, Minnesota 56623

Dear Mr. [redacted]

Reference your unidentified observation of 14 September 1966. The information which we have received is not sufficient for evaluation. Request you complete the FTD Form 164 and return it in the envelope provided.

We wish to thank you for reporting your observation to the Air Force.

Sincerely,

HECTOR QUINTANILLA, Jr, Major, USAF
Chief, Project Blue Book

OFFICIAL FILE COPY
TDETR
Office of Record

Minn. 14 Sept 66

FTD (TDETR) hl
Wright-Patterson AFB, Ohio 45433
20 September 1966

[redacted]
Hibbing Flight Service
Hibbing, Minnesota 55746

Dear Mr. [redacted]

Reference your unidentified observation of 14 September 1966. The information which we have received is not sufficient for evaluation. Request you complete the attached FTD Forms 164 and return them in the envelope provided.

We wish to thank you for reporting your observation to the Air Force.

Sincerely,

HECTOR QUINTANILLA, Jr, Major, USAF
Chief, Project Blue Book

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UNCLASSIFIED PRIORITY

1413

PFTU JAN RUEDYAE0140 2572016-UUUU--RUEDFIA.

DE RUCDDU 26 2871301

ZNR UUUUU

P 141300Z SEP 66

FM 29 AIRDIV DULUTH INTL APRT MINN

TO RUWMFVA/ADC

RUWTFLA/10AF RICHARDS GEBAUR AFS MO

RUEDFIA/AFSC FOREIGN TECH DIV WRIGHT PATTERSON AFB OH

RUEDHRA/HQ USAF

RUEDHRA/SECRETARY OF THE AIR FORCED

BT

UNCLAS 29 CIR 09035 SEP 66.

FOR ADC (ADOIN), 10AF (INT), AFSC (FTD), HQ USAF (SPIDC), SEC OF THE AF (SAFOI). SUXJECT: UFO. REFERENCE AFR 200-2.

1. DESCRIPTION OF THE OBJECT:

A. EGG

B. LARGE

C. RED

D. ONE

E. N/A

F. SURROUNDED BY A CLOUD OR PUFF OF SMOKE

ETR

FTD

UNCLASSIFIED PRIORITY

Send 164

5. LOCATION OF OBSERVERS: BAUDETTE, MINN.; HIBBING, MINN.; AND INTERNATIONAL FALL, MINN.

Send 164

6. IDENTIFYING INFORMATION ON OBSERVERS: CIVILIAN [redacted] AGE 32, BAUDETTE, MINNESOTA, VICE PRESIDENT OF ROWELL LABORATORIES; CIVILIAN [redacted] OF HIBBING FLIGHT

SERVICE, HIBBING MINNESOTA; ALSO SEEN BY WEATHER OBSERVERS AT INTERNATIONAL FALL, MINNESOTA.

7. WEATHER AND WINDS ALOFT CONDITIONS AT TIMES OF SIGHTING:

A. CLEAR.

B. AWS ACCOUNT OF WINDS:

(1) 020/10

(2) 010/30

(3) 330/20

(4) 340/40

(5) 340/25

(6) 250/50

(7) 260/50

C. NONE

D. FIFTEEN NM.

E. CLEAR

F. NONE

G. UNUSUAL ACTIVITY IN THE AREA: STRONG INVERSION AT 36,500 FEET MSL.

9. INTERCEPTION OR IDENTIFICATION ACTION TAKEN: NONE

10. LOCATION OF KNOWN AIR TRAFFIC IN AREA AT TIME OF SIGHTING: NONE

11. POSITION TITLE AND COMMENTS OF PREPARING OFFICER: INTELLIGENCE OFFICER. POSITION, TIME, SHAPE AND COLOR INDICATE SAME OBJECT SEEN BY ALL OBSERVERS. HIBBING ABOUT 110 NM SOUTHEAST OF BAUDETTE, INDICATING HIGH ALTITUDE TO BE SEEN FROM BOTH PLACES, ALSO EXTREMELY LARGE SIZE. UNLIKELY THAT INVERSION WOULD BE SEEN FROM DIFFERENT ANGLES. NO KNOWN BALLOON IN AREA AT THAT TIME. NO KNOWN STRONG LIGHT SOURCE LOCATED NORTHEAST OF BAUDETTE. THINLY POPULATED AREA. UNABLE TO ASCERTAIN CAUSE OF SIGHTING.

12. PHYSICAL EVIDENCE: NONE.

G. NONE

H. NONE

I. NONE

2. DESCRIPTION OF COURSE OF OBJECT:

A. ONE WITNESS WAS IN YARD AND SAW LIGHT IN SKY.

B. NORTH OF BAUDETTE, MOVED NORTHEAST. SEEN NORTH OF HIBBING.

C. NORTHEAST OF BAUDETTE, NORTH OF HIBBING.

D. LOOKED STATIONARY FROM HIBBING.

E. WENT BELOW HORIZON.

F. SEEN TWENTY MINUTES AT BAUDETTE, TEN MINUTES AT HIBBING.

3. MANNER OF OBSERVATION:

A. GROUND-VISUAL.

B. NONE

C. N/A

4. TIME AND DATE OF SIGHTING:

A. 14/0140Z SEP 66 (BAUDETTE) AND 140150Z SEP 66 (HIBBING).

B. NIGHT