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663RD AIRCRAFT CONTROL AND WARNING SQUADRON
LAKE CITY AIR FORCE STATION
Lake City, Tennessee

INT

24 September

SUBJECT: Unidentified Flying Object

23 Sep 54
Lake City, Tenn.

TO: Commander
Flight 2-B
4602nd Air Intelligence Service Squadron
516th Air Defense Group
McGhee-Tyson Municipal Airport
Knoxville, Tennessee

The inclosed data is forwarded for your information and/or
action.

Arthur M. Hansen

1 Incl
Rad Obs Data Sheet

ARTHUR M HANSEN
Captain USAF
Intelligence Officer

Incl #1

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AF FORM 112
APPROVED 1 JUNE 1948**UNCLASSIFIED**
(CLASSIFICATION)

COUNTRY USA	REPORT NO. 2B-UFOB-1	(LEAVE BLANK)
AIR INTELLIGENCE INFORMATION REPORT		
SUBJECT Report of UFOB		
AREA REPORTED ON CENTRAL TENNESSEE, USA	FROM (Agency) Flt 2-B, 4602d AISS	
DATE OF REPORT 28 September 1954	DATE OF INFORMATION 23/0722 to 0723Z/Sep 54	EVALUATION F/O
PREPARED BY (Officer) JAMES N KULPAN, 2nd Lt., USAF	SOURCE UFOB	
REFERENCES (Control number, directive, previous report, etc., as applicable) AFR 200-2, dtd 12 Aug 54		
SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112-Part II.) (Format for this report is in accordance with AFR 200-2, dtd 12 Aug 54)		
1. Description of object a. Negative b. Larger than conventional aircraft target c. Negative d. One e. N/A f. Negative g. Negative h. Negative i. Negative 2. Description of course of object a. Noted on radar scope b. Range - 93 miles, azimuth - 280°, angle of elevation - negative, altitude - negative. c. See 2b. d. See page 3 of Incl 1a. e. Vanished from radar scope f. Target remained on scope for one full minute. 3. Manner of observation a. Ground-electronic: AN/FPS-10 type radar with no recent maintenance difficulties; soft tube modulator used; AFC circuit was operating properly; interference from another radar set has been observed recently and operating personnel are familiar with the effects caused by an interfering signal; PPI scope was utilized; radar scan rate was 4 sweeps per minute; frequency of transmitter was 3,000 mc. b. Negative c. N/A 4. Time and date of sighting a. 23/0722Z to 0723Z/Sep 54 b. Night 5. Lo - 663rd AC & W Sq, LAKE CITY, TENNESSEE - GEOREF (Classified) 1 Incl; See Individual Report		
DISTRIBUTION BY ORIGINATOR 1 cy Comdr, 4602d AISS, Ent AFB, Colorado Springs, Colo 1 cy File		

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U. S. C.—21 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF INTELLIGENCE, USAF.

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APPROVED 1 JUNE 1948

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE	2	OF	6	PAGES
Flt 2-B, 4602d AISS	2B-UFOB-1					

6. Identifying information of all observers
 - a. N/A
 - b. Arthur M Hansen, Capt., USAF, Intelligence Officer of 663rd AC&W Sq; F/O.
7. Weather and winds-aloft conditions at time and place of sighting
 - a. N/A
 - b. Wind velocity 1 mile; 5,000 Ft - temp plus 13; 40,000 Ft - temp minus 56; Nashville near target area.
 - c. 15 miles
 - d. Clear
 - e. Some
 - f. No effects from rain storms except for cloud formations
8. Unusual activity, ie astronomical and/or meteorological - Negative
9. Interception action - None
10. Location of air traffic - None
11. OIC Flight 2-B, 4602d AISS - None
12. See Incl 1a

CREDIT LINE: S/Sgt Charles F Goodman-Malamuth, AF 19389111

James N. Kulpan
JAMES N KULPAN
2nd Lt., USAF
OIC FLIGHT 2-B

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RADAR OBSERVATION DATA SHEET

I. QUESTIONS REGARDING DETECTING RADAR EQUIPMENT

1. What type radar equipment is involved?

AN/FPS-10

2. Has there been any recent maintenance difficulties? If so, describe.

No

3. What type modulator (i.e., spark gap, hard tube, etc.) is used in the radar equipment?

Soft tube

4. Was the AFC (automatic frequency control) circuit of the receiver operating properly?

Yes

5. Has interference from another radar set been observed recently, and are personnel familiar with the effects caused by an interfering signal?

Yes - Yes

6. What type indicators, "A scope", "B scope", etc., were used to follow the target?

PPI Scope

7. What was the radar scan rate?

4 sweeps per minute

8. What was the approximate frequency of the transmitter?

3,000 mc

II. GENERAL QUESTIONS

1. What were the general weather conditions at the time unidentified target was observed?

Clear, 15 miles visibility

2. What weather data from nearby U.S. weather stations is available on temperature vs altitude, humidity vs altitude, and wind velocity vs altitude?

5,000 ft - temp plus 13 Nashville (near target area)

40,000 ft temp minus 56 Wind velocity 1 mile

3. Was the target observed by any other nearby radar equipments? If so, give details.

No

4. Are the operator and the supervisor familiar with the effects of anomalous (duct-effect) propagation as they pertain to this type radar?

Yes

INCL #1a

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(USE REVERSE SIDE OF SHEET IF MORE SPACE IS REQUIRED)

5. Has anomalous propagation been observed to extend the range of ground clutter by this radar at this site, and did this condition exist during or near the time that unknown target was observed?

Anomalous propagation has been observed, but not at that distance nor at the time of sighting.

6. What effects of rain storms and lightning have been observed on this radar?

No effects from rain storms except for cloud formations.

7. Were any checks made to determine if unknown target could have been one of our own aircraft?

Yes.

8. Was any interception attempted? If so, give details.

No

9. Was a visual and/or Auditory observation made simultaneously with scope observation? If so, give detailed description.

No

III. SPECIFIC TARGET QUESTIONS

1. Did any technical personnel observe the unknown target on the Radar Scope? Have they been questioned thoroughly? What was their opinion?

No, operator was only observer.

2. Was a permanent record "track" made of the target positions as they appeared on the indicators? If so, attach to this report. (Plot on back of page 1.)

No

3. At what range, azimuth, altitude, and time was the target observed?

Range - 93 miles, azimuth - 280°, altitude - unknown, time 0722Z (0222EST)
Target remained on scope for one full minute.

4. How did the target appear in size and shape as compared with conventional aircraft targets?

Larger

5. Was the target of consistent size, or did it change rapidly?

Consistent

6. Was the speed of the target constant or variable? Explain.

Constant

7. Did the target appear "fuzzy" or clear and sharp as compared with a known aircraft target?

Clear and sharp. Seemed like a simulated target, but simulator was turned off.

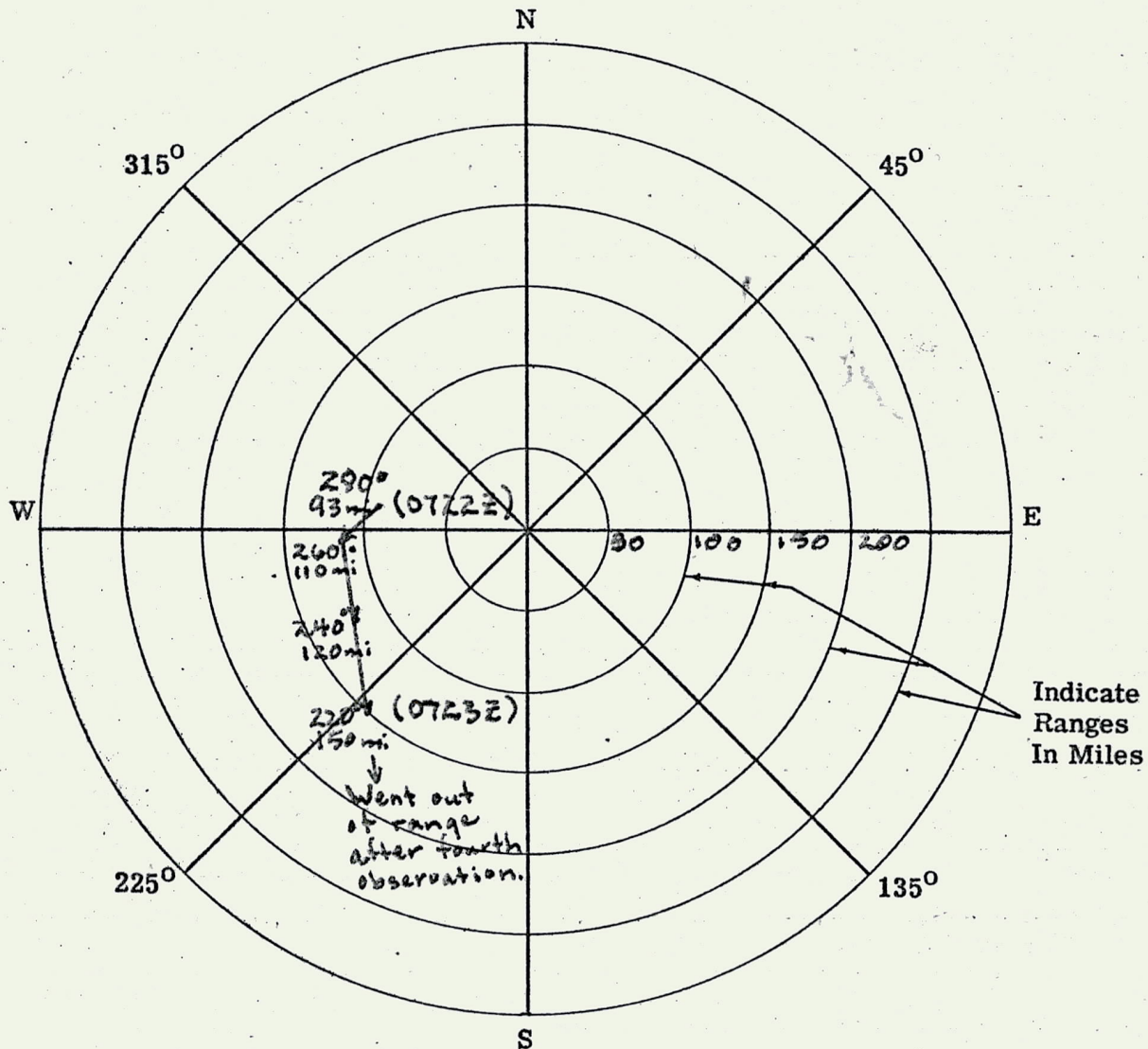
8. What other (aircraft) targets were observed in the same general area, altitude, and time as that of the unknown target?

The following tracks were on the scope at time of sighting:
0718Z, AC68K at 14,000 ft 0651Z, AC67 at 6,000 ft

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INSTRUCTIONS: PLOT TRACK OF TARGET, INDICATE RANGE AND AZIMUTH. GIVE TIME AT START AND END OF TRACK.

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