PROJECT 10073 RECORD CARD

1. DATE 4 April 1949	2. LOCATION X Delta, Colorado	12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT N/A	4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☐ No	6. SOURCE Civ	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION N/A	8. NUMBER OF OBJECTS	9. COURSE ☒ Other See below ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

Found by farmer in 1946 near Delta, Colorado rptd 4 Apr 49. Cast aluminum wheel shaped with 72 holes in the periphery into which explosive plugs are inserted.

11. COMMENTS

Definitely identified as ballast ring from Japanese incendiary balloon.

ATIC FORM 329 (REV 26 SEP 52)

UNCLASSIFIED

Incident: 286

Name and address of observer: Mr. [redacted]

Merced, California

Occupation and hobbies:

Former Pilot -Major in active USAF
Has 2200 hours ~~xxxx~~ flying time

Comments of Interrogator relative to intelligence and character of observer(s):

NARRATIVE SUMMARY: I had occasion to step from home, located [redacted] of the town of Merced, on the night of April 4, 1949, at approx. 2220. My attention was diverted to a clicking noise of considerable intensity. I stopped on the sidewalk about 20 feet from the steps and recognized the source of this clicking to be in the sky in an area about 40° frpm the surface of the earth in an easterly direction. The sky condition was 20,000 thin broken with 12 miles visibility and surface winds were reported as North 9 mph at Castle Air Force weather station. My home is approx. 7 miles south of Castle and in an area somewhat sheltered from surface winds and no appreciable suffface wind was apparent at the time the aural observation was made. After about ten seconds of looking into the area described previously as being the source of this sound, an object was observed blanking out stars in describing a flight path in a west or northwesterly direction. Only one object was apparent; Its shape can be described as only a solid mass. Its size can be estimated as 4 or 5 feet in diameter in keeping with an estimated altitude of considerably less than 1,000 ft. Color was shown by the reflection of ground lights on only two occasions, and appeared to be dull suffaced, light colored metal. The only ground lights of intensity were a row of street lights behind me one half block which leads me to belived the under surface of this object to be curved in shape.

This object whan first sighted, was moving very slowly in a West or Northwesterly direction. I would estimate that I had it in my range of vision for 35 seconds, after having heard it about ten seconds before locating it. It passed on beyond the house and maneuvered through an arc of turn to the left of about 90° , the clicking sound was continuous throughout this turn, however, it became louder on its new heading of south or southwest. On its return the clicking sound became louder, but I was unable to see it at this time. The clicking sound stopped ~~xxx~~ when it was at its greatest intensity and appeared to come from a position directly overhead. I was unable to see the object after the sound stopped.

This clicking sound retained the same pitch and speed throughout the entire course observed, but intensity varied. There was no whistle or roar, but only the clicking noise which might be compared to beaters of a home mixer that was not properly meshed. No lights or flames were observed during its ~~xxx~~ entire course with exception of the previous descriBed reflections twice. No exhaust trail was ~~distinguishable~~ distinguishable.

My dog was with me and directed here attention in the general direction of this objects flight throughout its course. She had been romping with me on comming out of the house, but without spoken word stop ed and directed her attention to the previously described area. The clikking soundmight have been unusual to the dog, but there is a possibility of sounds on wave lenghts descernable only to the dog, being emitted.

UNCLASSIFIED

[redacted]

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HEADQUARTERS 93D BOMBARDMENT WING (M)
Castle Air Force Base, California

SFJ/JMC/db

OTCI 000.92

APR 7 1949

SUBJECT: Report of Possible Intelligence Interest.

TO: Commanding General
Air Materiel Command
Wright-Patterson AFB,
Wright Field, Ohio
ATTN: MCIAXO

Mr. [redacted], residing at [redacted], Merced, California, appeared at this base of his own accord and made the enclosed statement. Mr. [redacted] is a member of the Active USAF Reserve with rank of Major. He attained rating of pilot in August, 1941 and has approximately 2200 hours flying time. During his active duty period in World War II he states that he had considerable night flying experience in connection with his military assignment. Mr. [redacted] wishes to state that he did not hear Walter Winchell's newscast on the night of 3 April 1949. He states that the reason for reporting this occurrence is the unusual observation and was not prompted by anything written or heard concerning these objects because he states that he has neither heard or read mention of same for approximately six months. An attempt to locate other witnesses in the area or through the local newspaper proved unsuccessful.

"I had occasion to step from my home, located approximately one mile west of the town of Merced, on the night of April 4, 1949, at approximately 2220. My attention was diverted to a clicking noise of considerable intensity. I stopped on the sidewalk about 20 feet from the front steps and recognized the source of this clicking to be in the sky in an area about 40° from the surface of the earth in an easterly direction. The sky condition was 20000 thin broken with 12 miles visibility and surface winds were reported as north nine M.P.H. at Castle Air Force weather station. My home is approximately seven miles south of Castle and in an area somewhat sheltered from surface winds and no appreciable surface wind was apparent at the time the aural observation was made. After about ten seconds of looking into the area described previously as being the source of this sound, an object was observed blanking out stars in describing a flight path in a west or northwesterly direction. Only one object was apparent; its shape can be described as only a solid mass. Its size can be estimated as four or five feet in diameter in keeping with an estimated altitude of considerably less than 1000 (one thousand) feet. Color was shown by the reflection of ground lights on only two occasions, and appeared to be dull

1

[redacted]

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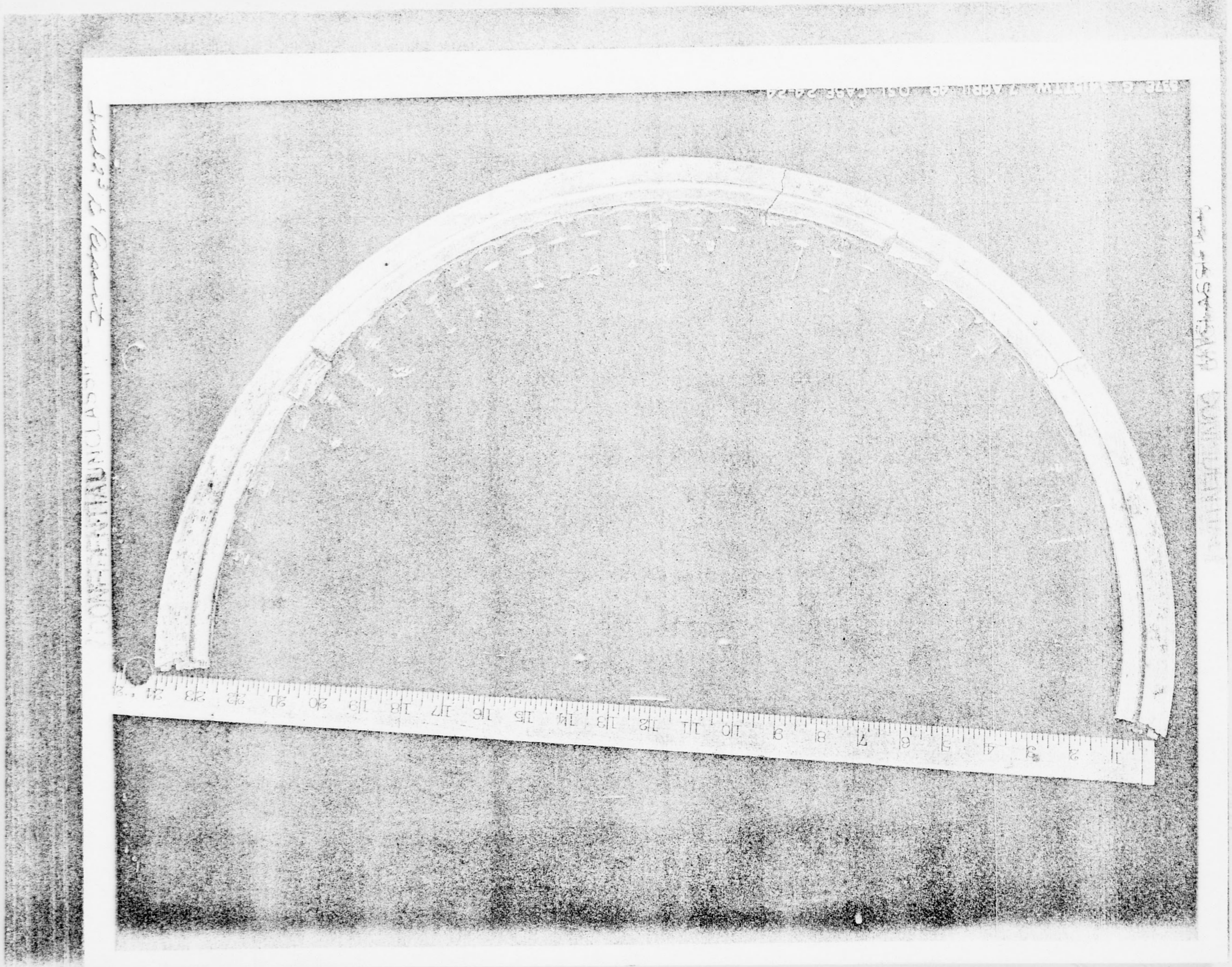
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

UNCLASSIFIED



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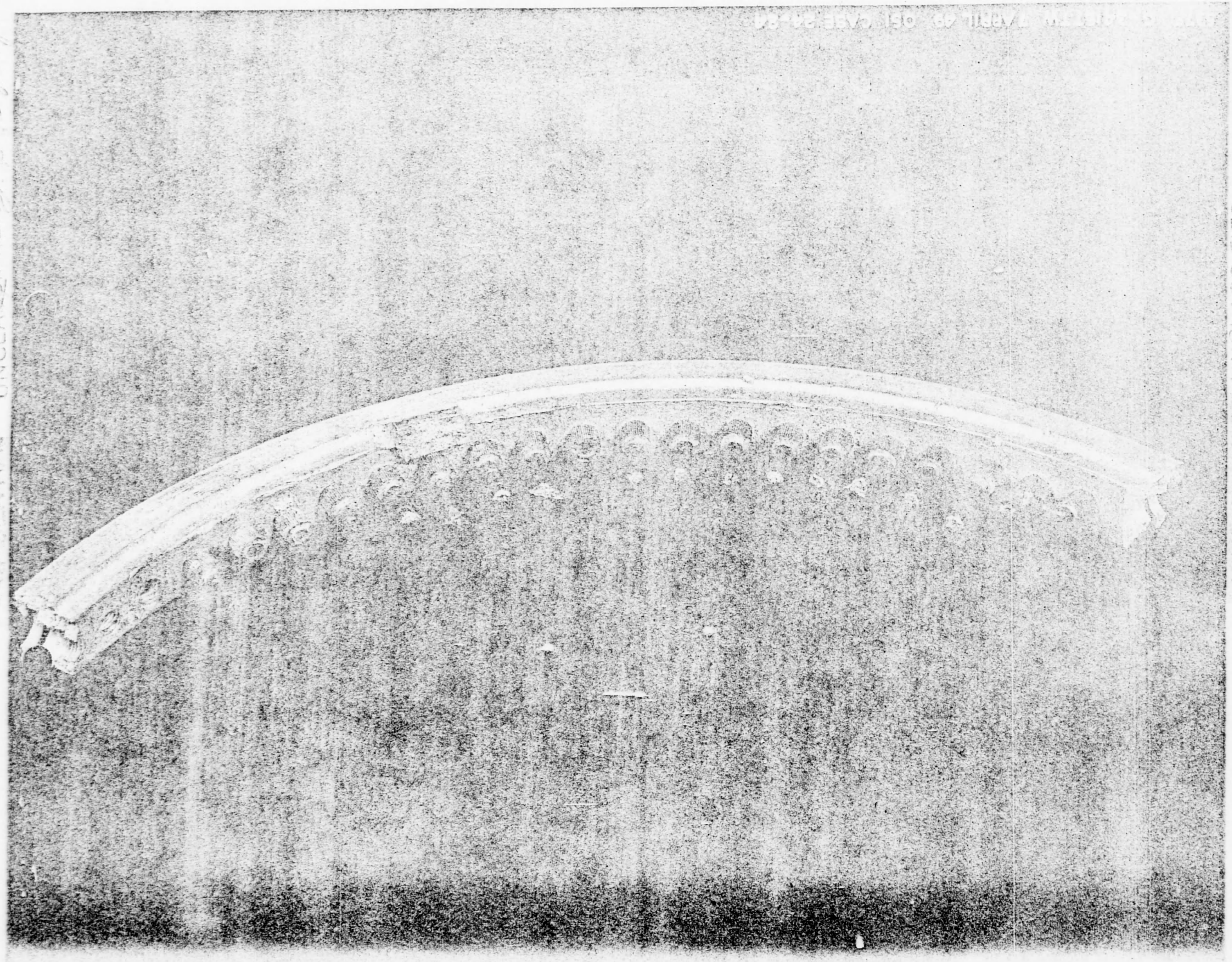

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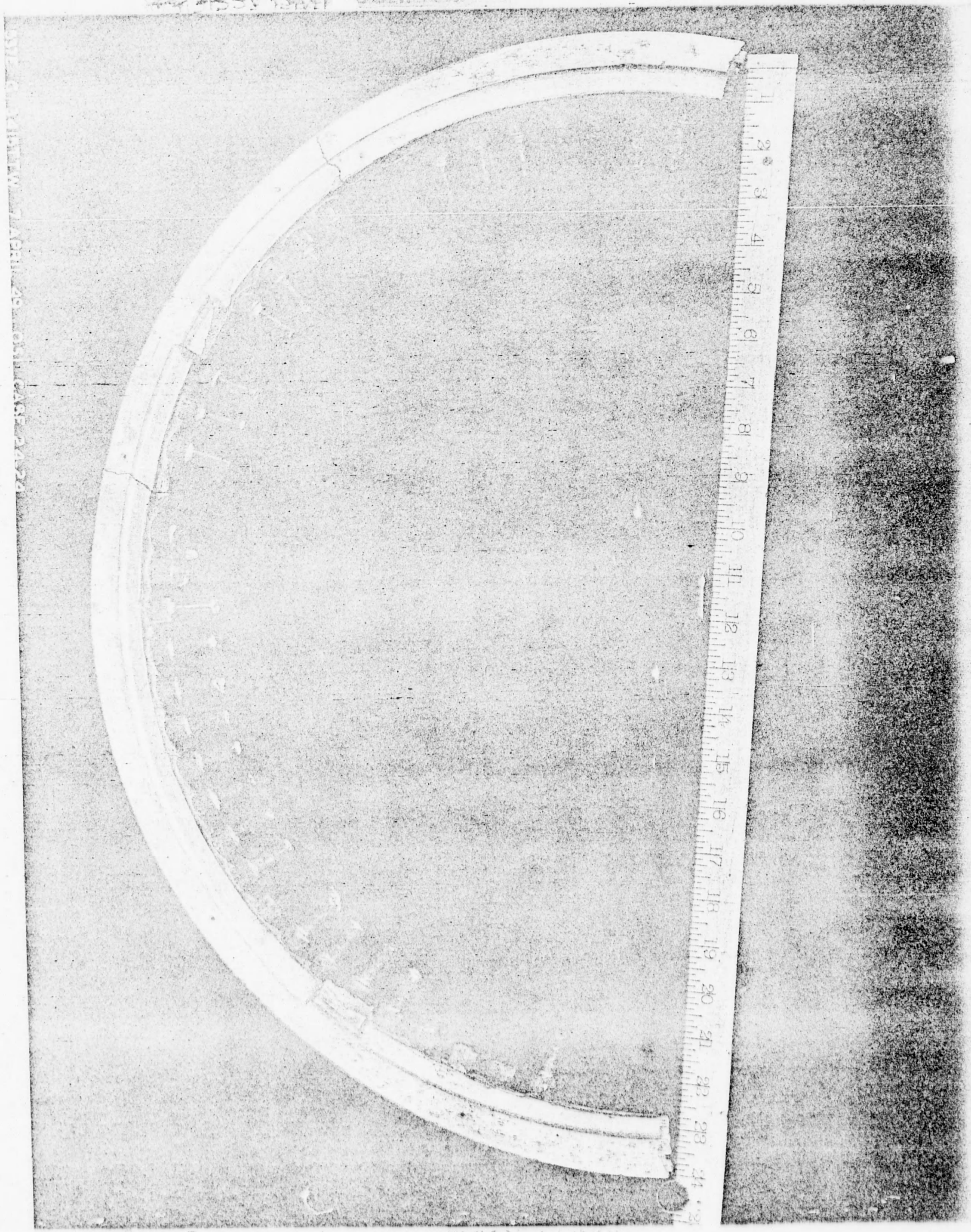
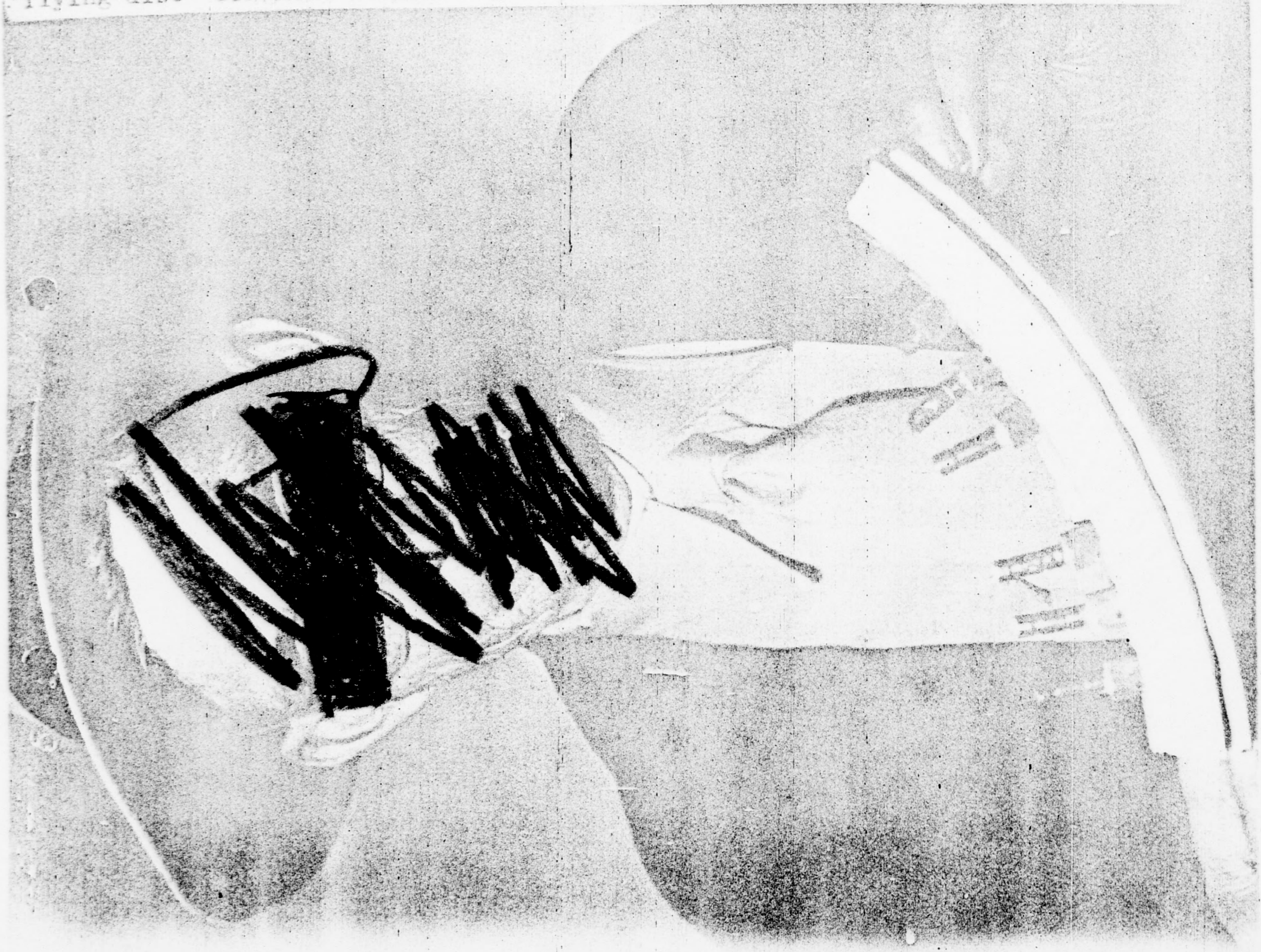


UNCLASSIFIED

UNCLASSIFIED

DEN-(69)-4/7/49 DENVER, COLO.: [redacted], Montrose, Colo., shown with "flying disc" fragment he found in Western Colorado on Uncompahgre Plateau.



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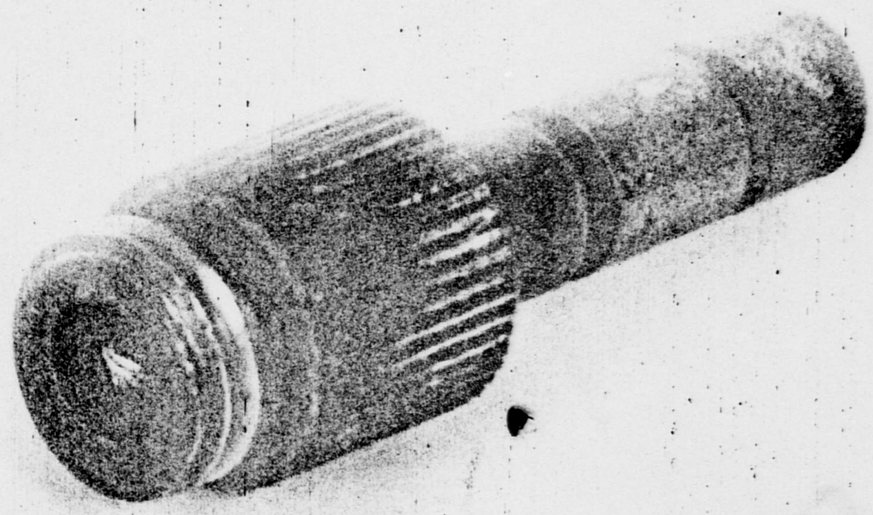
UNCLASSIFIED



Sheet 2 to Photograph

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BY A G 3415 TTW 7APRIL 49 OSI CASE 24-24

CONFIDENTIAL

UNCLASSIFIED

[redacted]

5D-OSI/JEM/fmn

UNCLASSIFIED

5D 21-21-1

18 April 1949

SUBJECT: PROJECT GRUDGE
SPECIAL INQUIRY

TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio
ATTN: MCIAXS

1. Reference TWX from Lowry Air Force Base, to your activity, Cite No. LUGB-2039, and telephone conversation between Mr. Fowles of your office and Mr. Morrill of this office on 6 April 1949.

2. Inclosed for your information is report of investigation of S/A ROBERT C. LANE, DO #14, Lowry Air Force Base, Colorado.

[redacted]

3. Your attention is invited to the fact that the unidentified objects were subsequently identified as parts of a Japanese Bomb or Incendiary Carrying Balloon.

4. No further investigation is contemplated by this OSI District.

1 Incl
Rpt of Inv dtd 7 Apr 49

JEROME M. BRAUN
Acting District Commander

UNCLASSIFIED

[redacted]

AF FORM 112--PART II
APPROVED 1 JUNE 1948

CONFIDENTIAL

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(CLASSIFICATION)

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 3415th TT Wing, Lowry AFB, Denver, Colorado	LAFB 000.9-1	PAGE 2 OF 2 PAGES

Relative to Radar Sightings

1. Negative information.

2. Negative information.

GENERAL

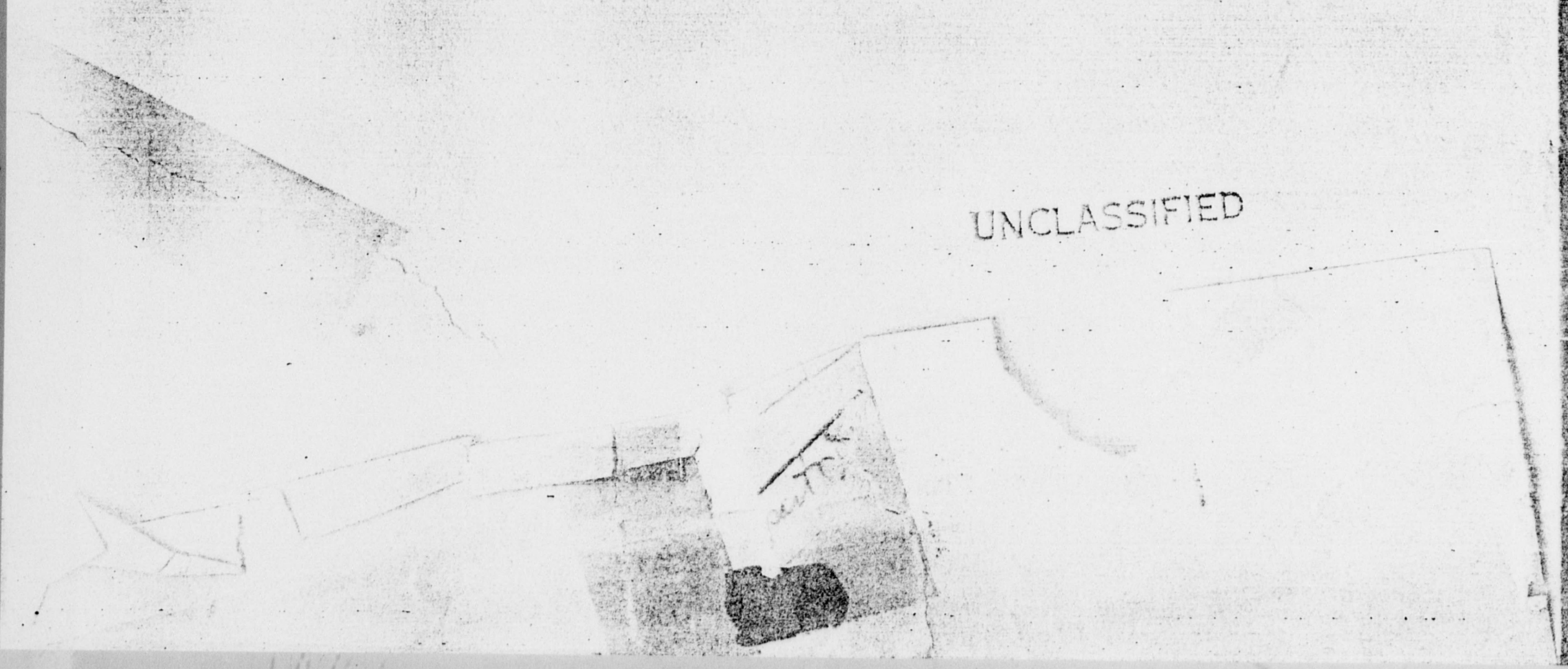
1. thru 6. Negative.

7. Copies of photos taken by OSI attached, consisting of set of 5 views, pertinent to this report.

8. See attached OSI Report.

9. Three broken pieces of ring returned by OSI investigators to Hq. 14th District OSI, Lowry AFB for proper disposition.

10. Unknown



UNCLASSIFIED

5D-OSI/JEB/fmm

R I OR I T Y

April 1949

[redacted] "O"

UNCLASSIFIED

Director of Special Investigations, Office of The Inspector General, United States Air Force, Washington 25, D. C.
(Action)

JEROME M. BRAUN,
Acting District Commander
5th OSI District (IG)

Acting District Commander
14th OSI District (IG)
Lowry Air Force Base
Denver, Colorado

THE REFERENCE IS TARE WILLIAM XRAY FROM OBOE SUGAR ITEM DISTRICT OFFICE NUMBER ONE FOUR TO COMMANDING GENERAL AIR MATERIEL COMMAND CMA CITE LOVE UNCLE GEORGE BAKER TWO ZERO EIGHT NINE CMA WITH INFORMATION COPY TO DIRECTOR OF INTELLIGENCE UNITED STATES AIR FORCE PD REQUEST PIECES OF JAPANESE INCENDIARY BALLOON BE FORWARDED TO COMMANDING GENERAL, AIR MATERIEL COMMAND CMA WRIGHT-PATTERSON AIR FORCE BASE CMA DAYTON OHIO CMA ATTENTION MIKE CHARLIES ITEM ABLE XRAY OBOE DASH THREE AS SOON AS POSSIBLE

S-31223-2

The making of an exact copy of this m... is prohibited. Only such extracts as are ... may be made and [redacted] copy will be ... and ... Unit, ... for destruction ... delay AR 380-5, Par. 57D, ... 1946.

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[redacted]

Sent out 4-12

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NR 17 6 APR 49

CONFIDENTIAL PRIORITY

CONFIDENTIAL

FROM LOWRY AFB DENVER COLORADO 07023OZ
TO CG AMC WRIGHT PATTERSON ATTN MCIAKO-1
INFO TO DIR OF INTELL USAF WASHDC
CG ATC BARKSDALE AFB LA ATTN INTELL OFF
CG TD ATC SCOTT AFB IL ATTN INTELL OFF

LUGB2039.
14 DIST OSI THIS HQ INVESTIGATED CIRCULAR RING LIKE
OBJECT FOUND NEAR DELTA, COLO BY RANCHER APRIL 1946 BUT
REPORTED TO LOCAL OSI 4 APRIL 1949. OSI PLANNING TO RETURN
PIECES TO HQ OSI WASH DC FOR ANALYSIS. WING
INTELL THIS HQS IDENTIFIED OBJECT AS BALLAST RING
FROM JAPANESE INCENDIARY BALLOON
EVALUATION A-1. REQUEST HQ OSI WASH BE ADVISED
TO INSTRUCT DIST OSI IF OTHER DISPOSITION THIS MATERIAL
DESIRED BY AMC AN THIS HQ ALSO ADVISED OF ACTION TAKEN.
NEWSPAPER RELEASES THIS DATE DESCRIBE THE OBJECT AS PIECE
OF FLYING DISC

CONFIDENTIAL

PRIORITY

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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This copy will be safeguarded with the greatest care until action is completed, at which time it will be prepared for destruction in accordance with Section IV, Hq. Office Instruction No. 11-2.

MCAG Form No. 22
(Rev. 25 Oct 48)

WE-L-16 FEB 49 10M

CLASSIFIED MESSAGE

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AF FORM 112--PART II
APPROVED 1 JUNE 1948

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(CLASSIFICATION)

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FROM (Agency)	REPORT NO.	
Hq 3415th TT Wing, Lowry AFB, Denver, Colorado	LAFB 000.9-1	PAGE 2 OF 2 PAGES

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UNCLASSIFIED

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U.S.C. --31 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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AF FORM 112--PART II
APPROVED 1 JUNE 1948

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
Hq 3415th TT Wing, Lowry AFB, Denver, Colorado	LAFB 000.9-1	PAGE 1 OF 2 PAGES

PART II - REQUIREMENTS

General

1. Date of sighting: Latter part of April 1946.

2. Time of sighting: Day time.

3. Where sighted (observer's position): In open, rocky, treeless terrain area, 25 mile mesa, about six miles South Southwest Delta, Colorado on a ranch. Observer was on horseback. Spot was South of Grand Mesa Mountain about 20 miles and about 20 miles Southeast of Uncompahdre National Forest. Coordinates approximately 38° 40' 30" North, 108° 10' 30" West.

4. Number of objects: Three broken pieces of aluminum ballast ring from Japanese incendiary balloon.

5. Observable celestial phenomena: None

6. Distance of object from observer: Examined by observer on the ground. Objects had been there for some time.

7. Time in sight: Objects not seen while airborne.

8. Appearance of object: Aluminum type alloy in the original form of a ring. Part of Japanese balloon used during World War II, outside periphery diameter 24", casted form with 72 holes in the periphery containing explosive plug inserts.

9. Direction of flight: None. From general knowledge of past history, presumption of flight would be eastward.

10 thru 20: Unknown

Relative to the Observer

1. Name of observer: Mr. [redacted], rancher, [redacted] miles South Southwest Delta, Colorado. (See attached OSI Report for details of observer). About six weeks ago Mr. [redacted] picked up the articles. Report not made to 14th District OSI until 2 April 1949.

UNCLASSIFIED

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AF FORM 112--PART II
APPROVED 1 JUNE 1948

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(CLASSIFICATION)

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Hq 3415th TT Wing, Lowry AFB, Denver, Colorado	LAFB 000.9-1	PAGE 1 OF 2 PAGES

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AF FORM 112--PART I
APPROVED 1 JUNE 1948

CONFIDENTIAL UNCLASSIFIED
(CLASSIFICATION)

COUNTRY	REPORT NO.	(LEAVE BLANK)
U.S.A.	LAFB 000.9-1	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT:
Unconventional Aircraft - "Flying Disc"

AREA REPORTED ON	FROM (Agency)
Vicinity of Delta, Colorado	Hq 3415th TT Wing, Lowry AFB, Denver, Colo.

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
8 April 1949	2 April 1949	A-1

PREPARED BY (officer)	SOURCE
WM. A. WILTBERGER, Major, USAF, Wing Intel. O.	14th District OSI

REFERENCES (Control number, directive, previous report, etc., as applicable)

TT LUGB 2089, Hq 3415th TT Wing, Lowry AFB, Denver, Colorado, 7 April 1949

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.)

1. 14th District OSI reported 2 April 1949 receiving a report that Mr. [redacted], rancher, six miles South Southwest of Delta, Colorado, had previously discovered three pieces of a metal ring in April 1946 but had not picked it up until approximately six weeks ago. OSI agents proceeded to scene, made investigation, and returned with parts the evening of 5 April 1949.

2. Inspection of objects by Wing Intelligence Officers, verified by picture and description, pages 2061 to 2063, ONI Weekly Publication, Vol. IV, No. 26, June 27, 1945, confirmed identification.

3. Newspaper story, Rocky Mountain News, 7 April 1949, and other news services, reported finding as that of a Flying Disc.

4. 14th District OSI holding parts for advice as to disposition.

5. Object identified as a cast aluminum wheel shaped device, with 72 holes in the periphery into which explosive plugs are inserted, which was used in Japanese paper balloons to drop incindenary and explosive material in the United States during World War II. Case closed.

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

2 INCLS.
1 - 14th Dist. OSI Report
2 - 1 set 5 Photos

UNCLASSIFIED

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1. Director Intelligence, Hq. USAF
1. ATRC Barksdale AFB, La.
1 - TD ATRC Scott AFB, Illinois
1 - 14th Dist. OSI, Lowry AFB
1 - Intell. Office File

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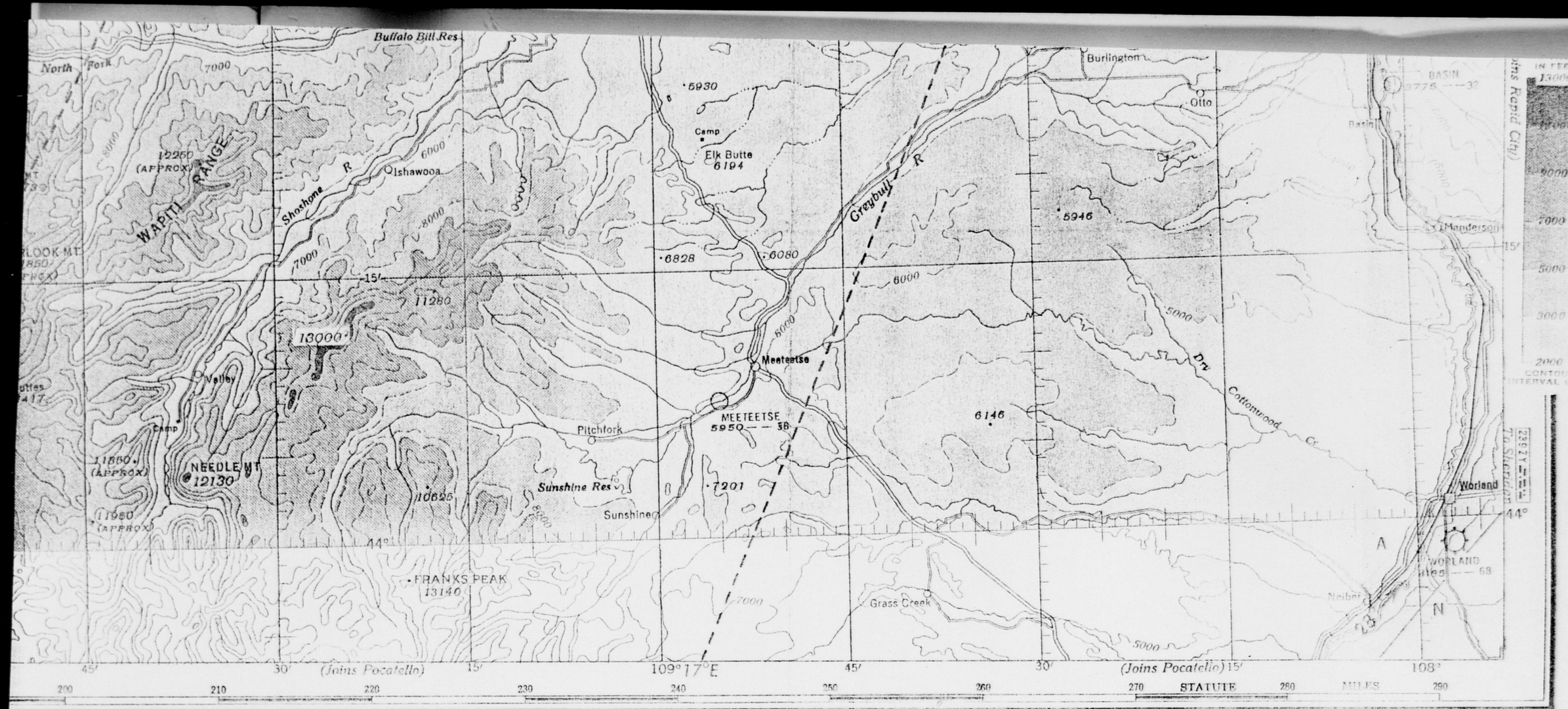
Clark Fork
INDIAN PK 10920
10275
Bldgs
Sunlight Cr
17°30'E
SUNLIGHT PK 11977
DEAD INDIAN PK
12253
12259
TROUT PK
10059
8013
POWELL
5054 — 57
Race track
Powell
Garland
Byron
Lovell
LOVELL
5950 — 26
Kane
Hirmes
BS
KPOW
1260
R
4580
Ralston
Eagle
Shoshone
17°E
Corbett
Race track
Cody
CODY
5084 — H 50
Dry Cr
Emblem
Greybull
GREYBULL
4900 — 71
Buffalo Bill Res
North Fork
Burlington
Otto
Basin
BASIN
3775 — 32
Camp
Elk Butte
6194
5930
Ishawooa
Shoshone R
WAPITI RANGE
12250 (APPROX)
PORTRAIT MT 12073
OVERLOOK MT 11850 (APPROX)
5946
Greybull R
6828
6080
Manderson
11280
10000
Meeteetse
Valley
Camp
Meeteetse Buttes 11417
11800 (APPROX)
NEEDLE MT 12130
11950 (APPROX)
10626
Fitchfork
MEETEETSE
5950 — 36
6146
Sunshine Res
7201
Sunshine
Worland
Dry Cottonwood
(Joins Rapid City)
ELEVATION IN FEET



RADIO FACILITIES

Use of the word "Radio" within the box indicates voice facilities.

- Radio range (Without voice) — WOODY RANGE 291 AB
- Marine radiobeacon (Without voice) — Rbn EVERETT 224 10m-20m & 30m-40m
- Radio direction finder (With voice) — DF MANUA RADIO 500 VFPW
- Omni-directional range (Without voice) — OMNI CHICAGO RANGE 115.5 OG
- Radio communication station (With voice) — CS GOWEN RADIO 4765
- Radio broadcasting station — BS WGL 1250
- Radiobeacon, nondirectional (homing) — Rbn BEDFORD RADIO 522 DBH

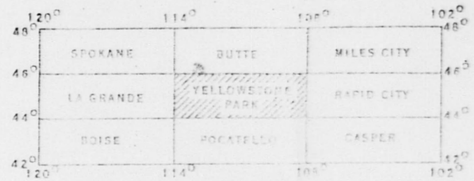
Consult Civil Aeronautics Administration Notices for changes in aeronautical data on this chart after

MAY 12, 1948

NOTE: It is requested that users of this chart indicate corrections and additions which come to their attention and notify "THE DIRECTOR, U. S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C."

YELLOWSTONE PARK (W-3)

SECTIONAL AERONAUTICAL CHART



Yellowstone L
Frank I
Shoshone L
Lewis L
MT SHERIDAN 10250· (APPROX)
Heart L
10650· (APPROX)
North Fork
11050 (APPROX)
Table Mt 10850 (APPROX)
FORTRESS MT 12073
OVERLOOK MT 11850 (APPROX)
12250 (APPROX)
WAPITI RANGE
Buffalo Bill Res
Shoshone R
Oshawooa
5920
Camp
Elk Butte 6194
6828
11280
13000·
Valley
Meeteetse
MEETEETSE 5950
Thorofare Buttes 11417
Camp
11850· (APPROX)
NEEDLE MT 12130
11850 (APPROX)
11960 (APPROX)
10625
Pitchfork
Sunshine Res
Sunshine
7201
FRANKS PEAK 13140
253° 73°
Snake R
9250 (APPROX)
9850 (APPROX)
Jackson
(Joins Pocatello)
17° 30' E
110°
(Joins Pocatello)
109° 17° E

MISCELLANEOUS

Mooring mast
Dirigible base
Ocean station vessel
Prominent transmission line
Obstruction (Numerals indicate elevation above sea level of top)
Civil airway-limit of (Traffic controlled) (Traffic uncontrolled)
Visual ground sign — M
Town having visual ground sign — Houston
Isogonic line or isogonal — 8° E — Values for 1947
Prohibited area
Danger or restricted area
Caution area
Control zone

RADIO FACILITIES

Use of the word "Radio" within the box indicates voice broadcast

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Omni-directional range (Without voice) — OMNI CHICAGO RANGE 115.5 OG
Radio communication station (With voice) — CS GOWEN RADIO 4765
Radio broadcasting station — BS WOL 1260
Radiobeacon — Rbn BEDFORD RADIO 522 DBH

Fan Marker Beacons (75 mez)

N
270°
A

TORNEY
EASTON

AURAL RADIO RANGE
by a B and Y; the Aural Sectors by A and N

NOTE: It is requested
"THE DIRECTOR, U.

MT HOLMES 10350

MT. WASHBURN 10346

Hotel

Gibbon R

YELLOWSTONE 8550 (APPROX)

NATIONAL PARK

Bldgs

Bldgs

Yellowstone L

Frank I

Shoshone L

Lewis L

MT SHERIDAN 10250 (APPROX)

Heart L

Snake R

Lamar R

Saddle Mt 10678

INDIAN PK 10329

11350 (APPROX)

Clark Peak

10275

Bldgs

Sunlight Cr

SUNLIGHT PK 11977

DEAD INDIAN PK 12253

TROUT PK

10050

8113

Carbon

Ralston

Shoshone

Rocky Fork

Cody

CODY

Buffalo Bill Res

North Fork

10650 (APPROX)

10650 (APPROX)

FORTRESS MT 12073

11050 (APPROX)

Table Mt 10850 (APPROX)

Yellowstone R

OVERLOOK MT 11850 (APPROX)

10250 (APPROX)

ABSAROKA RANGE

Shoshone R

Ishawooa

18000

Valley

Camp

Thorofare Buttes 11417

11850 (APPROX)

11850 (APPROX)

11850 (APPROX)

NEEDLE MT 12130

9250 (APPROX)

9850 (APPROX)

18°E

17°30'E

253° 73°

45'

30'

15'

8000

9000

YELLOWSTONE PARK (W-3)

Lambert Conformal Conic Projection Standard Parallels 33° and 45° Scale 1:500,000

(Joins Miles City)

STATUTE MILES

18°E (Joins Butte)

17°30'E (Joins Butte)

109°

108°

46°

45°

Broadview

Gibson

Rapelje

RAPELJE
4030 — 38

Wheat Basin

Molt

Acton

RIMBER 36

326°

146°

BILLINGS
3612 L H 57
INSTR LDG SYSTEM
278 118.3

Shepherd

Worden

Ballantine

Huntley

Nibbe

Corinth

HUNTLEY

GREEN 2

BILLINGS RADIO
400 BIL
Race Track

Refinery

BILLINGS

BILLINGS

PARK CITY

Laurel

YELLOWSTONE R

Pryor

Reedpoint

Columbus

Park City

COLUMBUS
3575 — 50

Ranch

Bidgs

Silesia

Rockvale

Absaloka

Beehive

Fishtail

Red Lodge

Boyd

Joliet

Edgar

Pryor

Fromberg

Clark Fork

Church

247°

67°

297°

117°

4875
(APPROX)

4714

4955
(APPROX)

4725
(APPROX)

4026
(APPROX)

4025
(APPROX)

4054

4272

4125
(APPROX)

5000

4000

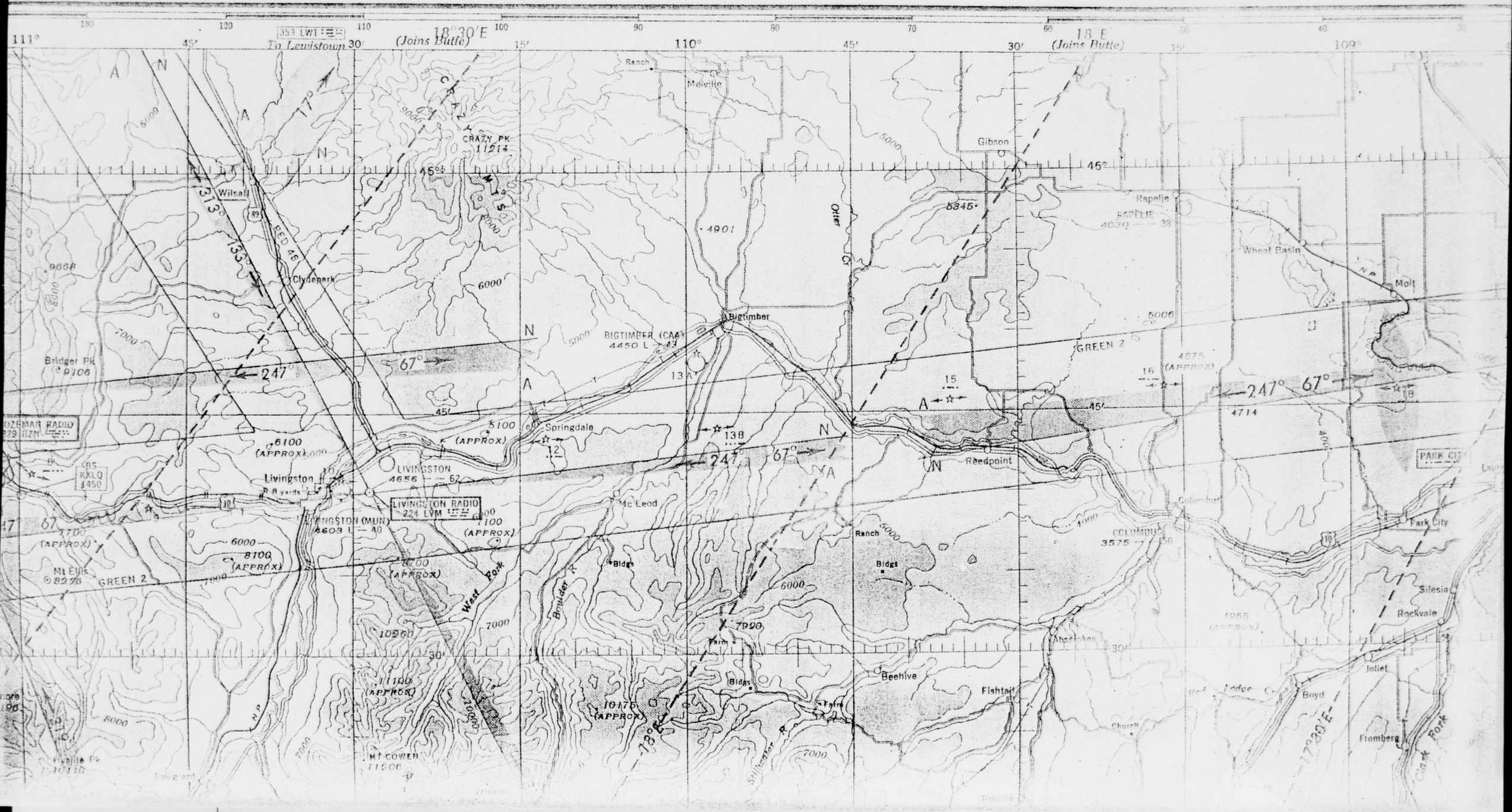
6845

5006

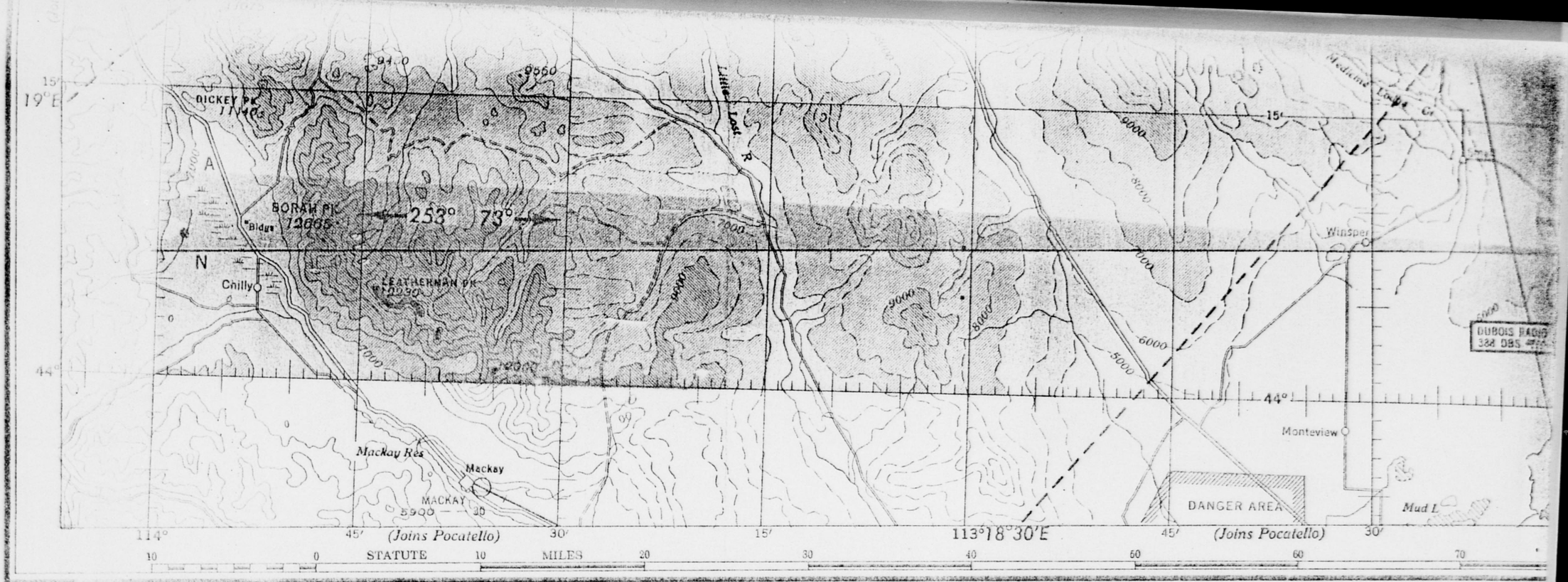
215 CUT OFF

(Joins Rapid City)

Molt
GREEN 2
5006
4875 (APPROX)
15
16
18
247° 67°
4714
45'
4000
BILLINGS RADIO
KOO BIL
Race Track
BILLINGS
5500
Refinery
BILLINGS
4054
4272
4125 (APPROX)
PARK CITY
Laurel
YELLOWSTONE R.
BS
KGHL
790
Pryor
38
297°
117°
AMBER 3
Reedpoint
Columbus
Park City
NP
COLUMBUS
3575 — 650
Ranch
Bldgs
Silesia
Rockvale
4955 (APPROX)
4725 (APPROX)
4025 (APPROX)
A
N
Absarokee
30'
36
Beehive
Fishtail
Red Lodge Cr.
Joliet
Edgar
Boyd
Pryor
Church
17°30'E
Fromberg
Clark Fork
5000
6000
8000
Roberts
Roscop
East Rosebud Cr.
West Rosebud Cr.
Bridger
BRIDGER
3675 — 30
C B & Q
Cemetery
Red Lodge
RED LODGE
5600 — 30
Bearcreek
Washoe
Belfry
9000
7000
8766
Hillsboro
Big Horn R.
Warren
Trannie
MONTANA
WYOMING
45°
10805
Badger Basin
OWLEY LOVELL BYRON
17° E (Joins Rapid City)
15'
30'
45°


111°
45'
30'
15'
110°
45'
30'
15'
109°
353 LWT
To Lewistown
18°30'E
(Joins Butte)
18°E
(Joins Butte)
Ranch
Melville
Gibson
Rapelje
RAPELJE
4030
Wheat Basin
Molt
CRAZY PK
11214
Wilsall
313°
133°
Clyde park
Bridger Pk
9106
9668
7000
6000
5000
4901
5845
5006
4876
(APPROX)
Bigtimber
BIGTIMBER (CAA)
4450 L — 43
GREEN 2
247°
67°
17°
13A
13B
15
16
12
Springdale
5100
(APPROX)
6100
(APPROX)
LIVINGSTON
4656 — 62
Livingston
LIVINGSTON RADIO
224 LVM
KINGSTON (MUN)
4603 L — 40
6700
(APPROX)
6100
(APPROX)
8100
(APPROX)
8700
(APPROX)
Mt Ellis
9276
West Fork
Bridger R.
Mc Leod
Bldgs
Ranch
Reedpoint
4714
PARK CITY
Columbus
3575
Park City
Silesia
Rockvale
Joliet
Absaloka
Beehive
Fishtail
Boyd
Fromberg
Clarks Fork
Yellowstone R.
10200
11100
(APPROX)
10175
(APPROX)
Mt COWEN
11200
Emigrant
Pyramid Pk
10110
Farm
Church
Lodge
Stillwater R.
Roscoe
LBS
KKLQ
1450
BOZEMAN RADIO
229 BZN
NP

MONTANA
WYOMING



PRICE 25 CENTS

YELLOWSTONE PARK (W-3)

COMPILED AND PRINTED AT WASHINGTON, D. C.
BY THE U. S. COAST AND GEODETIC SURVEY
UNDER AUTHORITY OF THE SECRETARY OF COMMERCE

Principal Sources: U.S. Geological Survey, U.S. Dept. of Agriculture, Civil Aeronautics Administration and the U.S. Coast and Geodetic Survey.

BASE: Edition of May 1945 Revised Apr. 1948

AERODROMES

LANDPLANE	SEAPLANE	
○	⊕	Military base
✡	✡	Civil
✡	✡	Joint civil and military base
○	⊕	Military
✡	✡	Civil
✡	✡	Joint civil and military
⌀	⚓	Landing strip or sheltered anchorage
○	⚓	Landing area or emergency anchorage

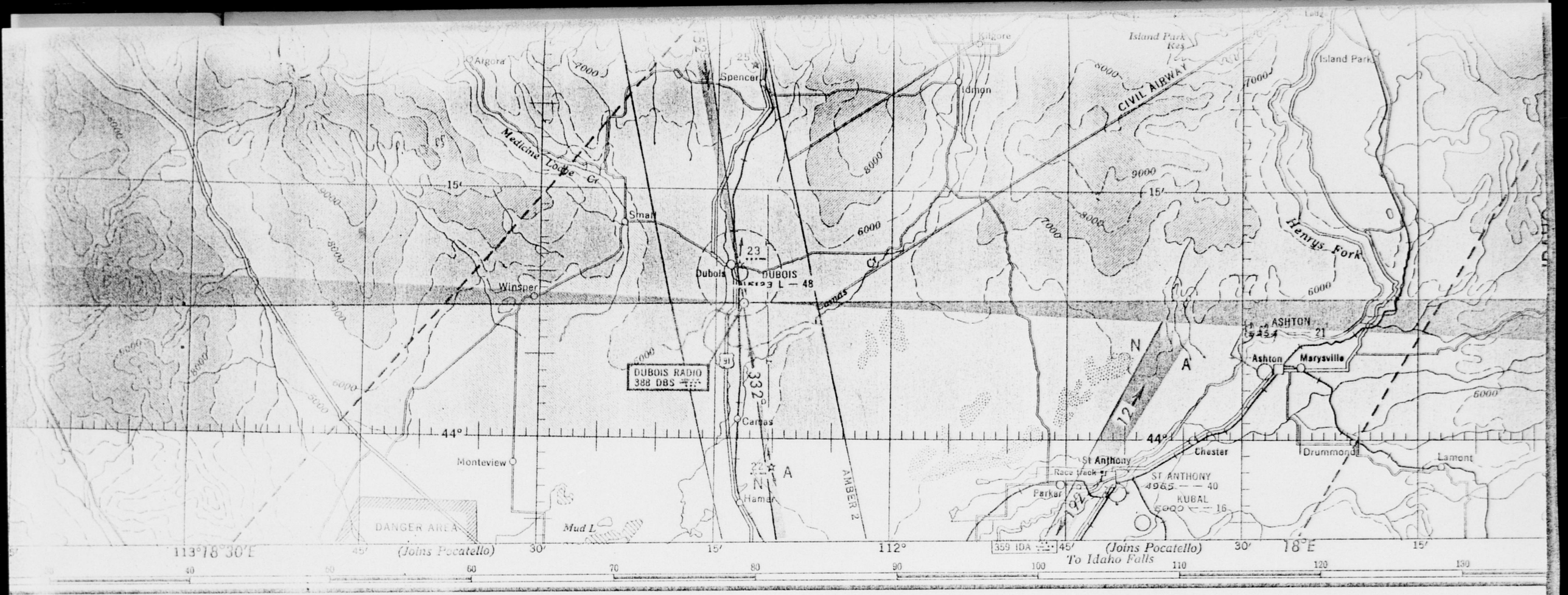
AIRPORTS - COMPLETE FACILITIES
"Complete facilities" includes refueling services, complete repairs, shelter and, where applicable, passenger or cargo services and/or seaplane ramp with hauling-out facilities.

AIRFIELDS OR SEAPLANE PORTS
"Limited facilities" includes refueling services for normal traffic and limited repair facilities.

Limited or no facilities or information thereon not complete.

Rotatin
Rotatin
Rotatin
Flashir
F-fixed FL-flas
Ma

HARMON
19 E
Airport
6CAS
275



AERODROMES

LANDPLANE	SEAPLANE	
○	①	Military
○	④	Civil
○	⑪	Joint civil and military
○	①	Military
○	④	Civil
○	⑪	Joint civil and military
⁄	⚓	Landing strip or sheltered anchorage
○	⚓	Landing area or emergency anchorage

AIRPORTS - COMPLETE FACILITIES
"Complete facilities" includes refueling services, complete repairs, shelter and where applicable, passenger or cargo services and/or seaplane ramp with boating aid facilities.

AIRFIELDS OR SEAPLANE PORTS
"Limited facilities" includes refueling services for normal traffic and limited repair facilities.

Limited or no facilities or information thereon not complete.

AIR NAVIGATION LIGHTS

Rotating light
Rotating light (With flashing code)
Rotating light (With course lights) 17
Flashing light
Flashing light (With code)
Obstruction light
Marine light
Lightship

F-fixed Fl-flashing Occ-occulting Alt-alternating Gp-group R-red W-white G-green Bl-blue (U)-unwatched SEC-sector sec-second
Marine alternating lights are red and white unless otherwise indicated. Marine lights are white unless colors are stated.

AERODROME DATA

HARMON FIELD
18 L H 46
Airport of entry
GCA SYSTEM
278 116.1

LANDPLANE		SEAPLANE	
18	Elevation in feet	00	Elevation in feet
L	Minimum lighting	L	Minimum lighting
H	Hard surfaced runway	S	Normally sheltered Take-off area
46	Length of longest runway to nearest hundred feet	62	Length of longest runway to nearest hundred feet

NAS ANACOSTIA
00 L S 62
3155 6155

When information is lacking the respective character will be replaced by a dash — VALLEY (750 L — 32

NEWTON
(Reporting point)
A
90°
N

VHF FOUR COU
The Blue and Yellow Visual Sectors a

YEARIAN RANCH
5300 — 14

LEMHI MTS

LEMHI RANGE

LEADORE
5990 — 41

Leadore

Patterson

Goldburg

Gilmore

Ellis

May

Pahsimeroi

Lemhi R

Lost R

Little Lost R

Sheep Ck

Black R

Dell

Lima

Lima Res

Monida

Garfield Mt

Argora

Spencer

Medicine Lodge Cr

Small

Dubois

Winsper

Monteview

Humphrey

Camas

DUBOIS
15123 L — 48

DUBOIS RADIO
388 DBS

Mackay Res

Mackay

Chilly

Bldgs

DEAD HORSE MT
11324

GILMORE PK
10921

GOLDBURG PK
10700

GROUSE CREEK MT
11105

11075

DICKEY PK
11140

BORAH PK
12665

LEATHERMAN PK
12230

GARFIELD MT
10961

10118

9550

9500
(APPROX)

9450

9650

10220

253° 73°

(Joins La Grande)

19°E

45'

30'

15'

44°

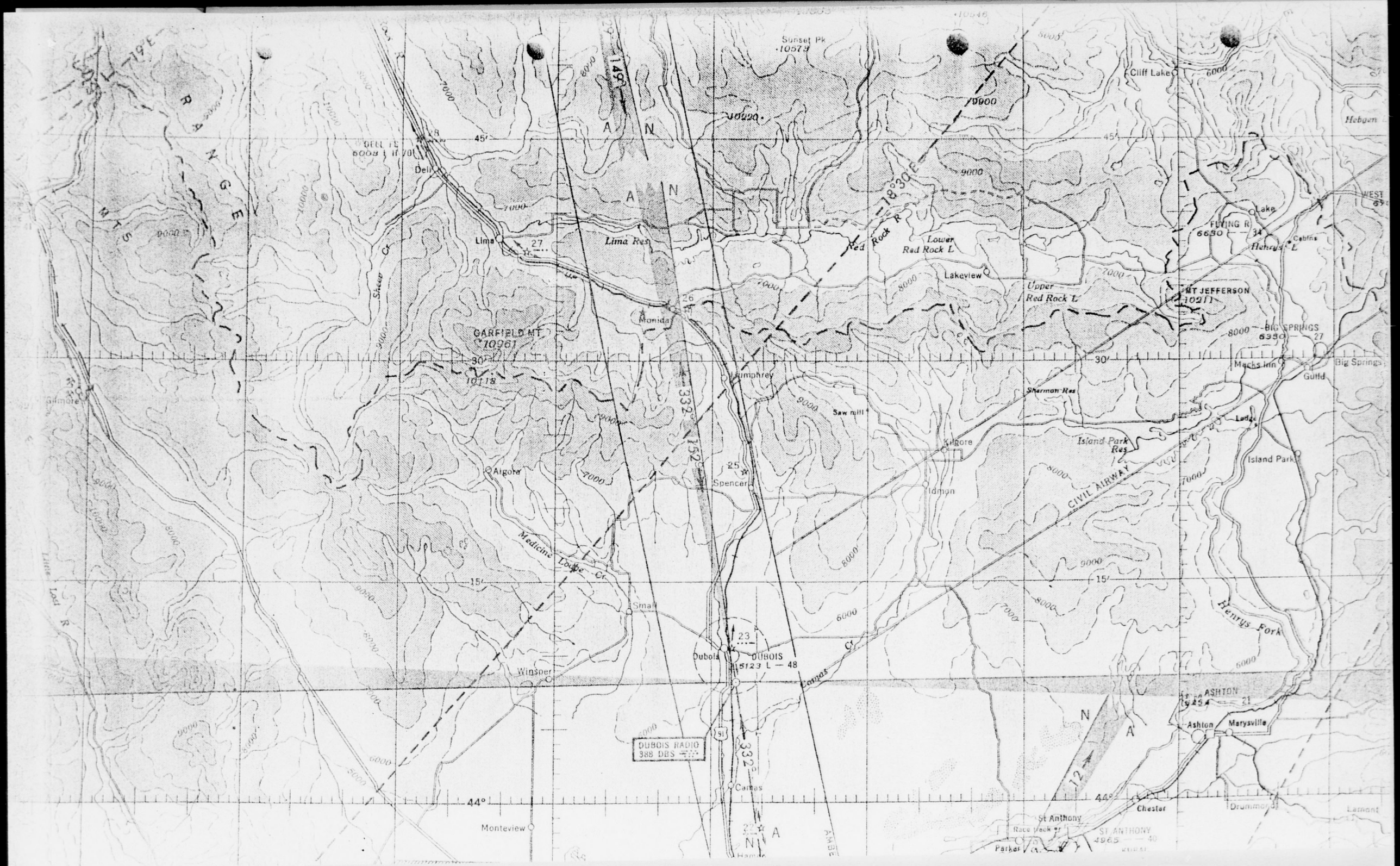
A

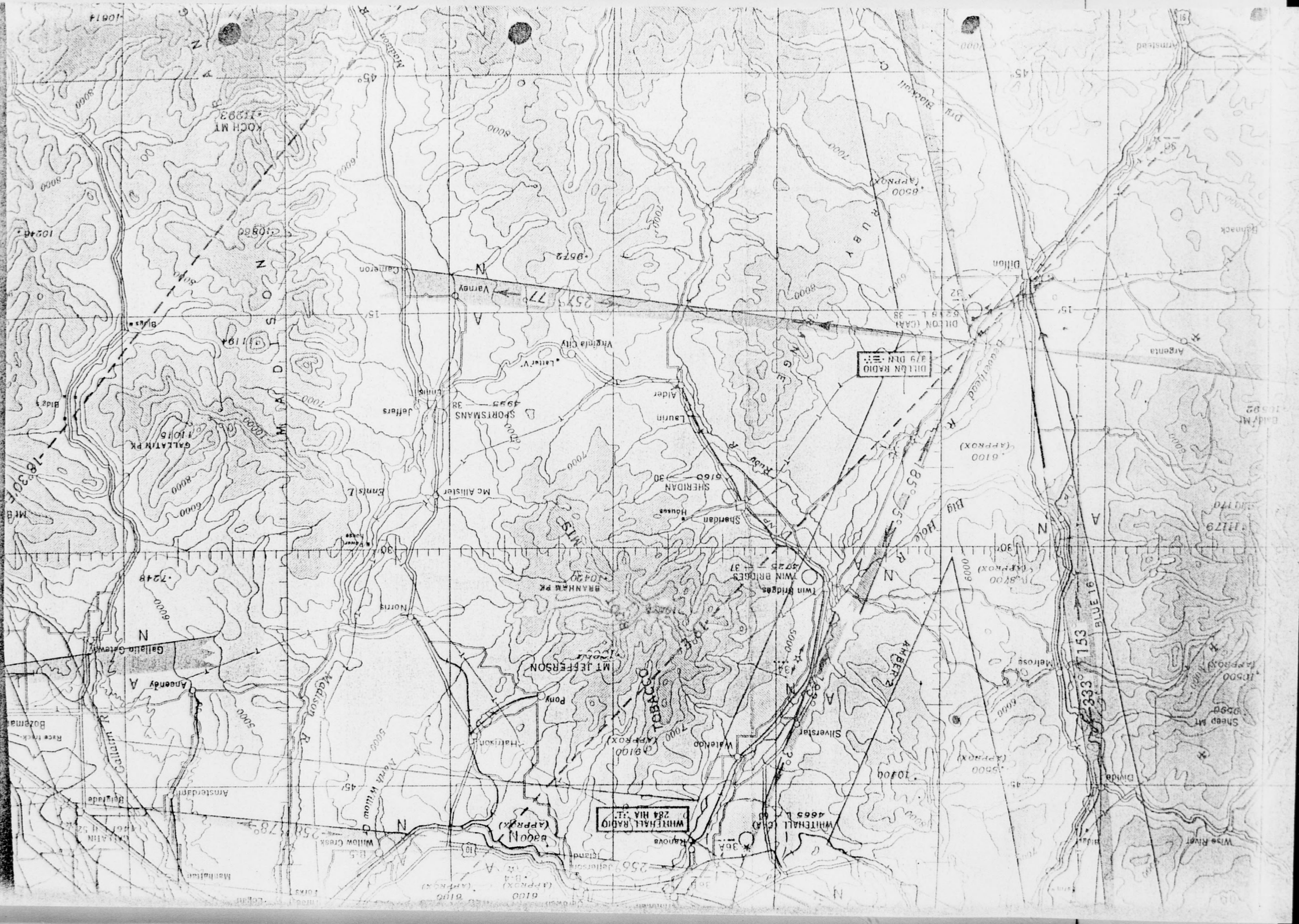
N

149

332

152


Sunset Pk
10573
Cliff Lake
Hebgen
Dell
Lima
Lima Res
Red Rock R
Lower
Red Rock L
Lakeview
Upper
Red Rock L
Lake
FLYING R
6630
Cabins
Hebgen L
WEST
MT JEFFERSON
10211
BIG SPRINGS
6350
Big Springs
Gulfd
Machs Inn
GARFIELD MT
10961
Monida
Humphrey
Saw mill
Sharman Res
Island Park
Res
Island Park
Kilgore
Idmon
CIVIL AIRWAY
Algora
Spencer
Medicine Lodge Ck
Smal
Henrys Fork
Dubois
DUBOIS
5123 L — 48
Canas Ck
Winsper
DUBOIS RADIO
388 DBS
ASHTON
5254
Ashton
Marysville
Canas
Chester
Drummond
Lamont
Monteview
St Anthony
ST ANTHONY
4965
Parker
Sheep Ck
Lost R
Little
Gilmore
Race track
R A N G E
A N
N A
A
332
152
18°30'E
19°E
45°
44°
30'
15'


Yarney
Dillon
Virginia City
Sheridan
Twin Bridges
Melrose
Silverstar
Whitehall
Ennis
Norris
Pony
Jeffers
Laurin
Alder
Willow Creek
Manhattan
Bozeman
Belgrade
Gallatin Gateway
Big Hole
Beaverhead
Blacktail
Big Sheep Mt
Wise River
Divide
Sheep Mt
Argenta
Bannack
Armstead
Galen
Koch Mt
Gallatin Pk
Branham Pk
Mt Jefferson
Tobacco
Ruby
Madison
Gallatin
Jefferson
Amsterdam
Ramsay
Sheridan
Whitehall
Dillon
Melrose
Divide
Wise River

Wise River
Big Hole R
Alder Pk
9210
Divide
Sheep Mt
9500
10500
(APPROX)
8536
9197
9000
7000
Gibbonsville
9241
Wisdom
Wise R
9446
9000
8000
10500
(APPROX)
Melrose
9700
(APPROX)
11179
8000
8585
North Fork
Ranch
Jackson
Ranch
Polaris
Baldy Mt
10592
Grasshopper Cr
Argenta
AJAX MT
10900
Salmon R
5000
6000
8000
Carmen
SALMON RIVER
3990 — 23
Rete track
Salmon
MONTANA
IDAHO
BITTERROOT
8000
7000
6000
SALMON
4045 — 40
Baker
9892
Lemhi R
Monument
Tendoy
Prairie Cr
Horse
Grant
Armstead
Bannack
Dillon
Beaverhead R
DILLON RADIO
279 DEG
DILLON (CAA)
5238 L — 38
32
8500
(APPROX)
Dry Blacktail C
RUBY
AMBER 2
BLUE 18
333°
153°
257°
77°
85°
5°
45°
30'
15'
45
30
15
19
30'E
45
91
29
90