

IRIS Public Record

Key Information

Main: GROUP/0416/BOMBARDMENT (LIGHT)

Document Type:

Call Number: **GP-416-SU-OP-S**

IRIS Number: **00091905**

Accessions Notes:

Old Accession Nbr:

Title:

Beginning Date:

End Date:

Publication Date: **1944/07/14**

Classification **UNCLAS**

Media Roll #: **0000001709** First Frame: **1866** Last Frame: **1902** Linear Feet: **0**

Old MFlm Roll # **B0530**

Audio Rec:

NUMPAGE **36**

Title Extensions:

Abstract CONTAINS TARGET DATA. TARGET: BOURTH RAILROAD EMBANKMENT. MISSION SUMMARY.

Descriptive

Notes:

Title MISSION NUMBER 98

Added

Entries

Author:

Subject:

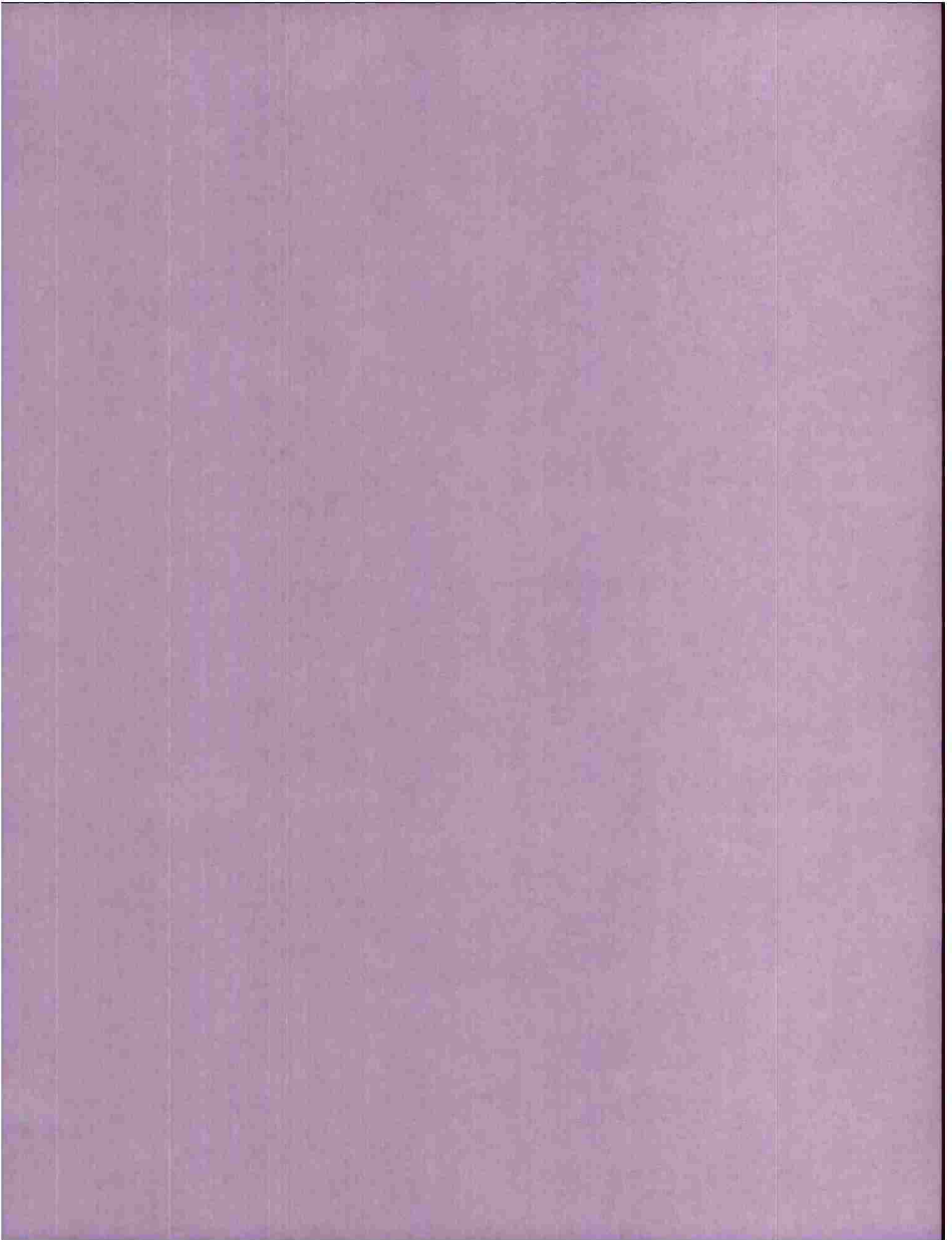
Major Command:

Administrative Markings

No Administrative Markings Listed

Security Review Information:

Rcvd:	Rel	1985/03/05
Indexer ID: 24	Entered Date:	
QC ID:	QC'd Date::	
Scanner ID:	Scanned Date:	
Acc ID	Acc Date:	



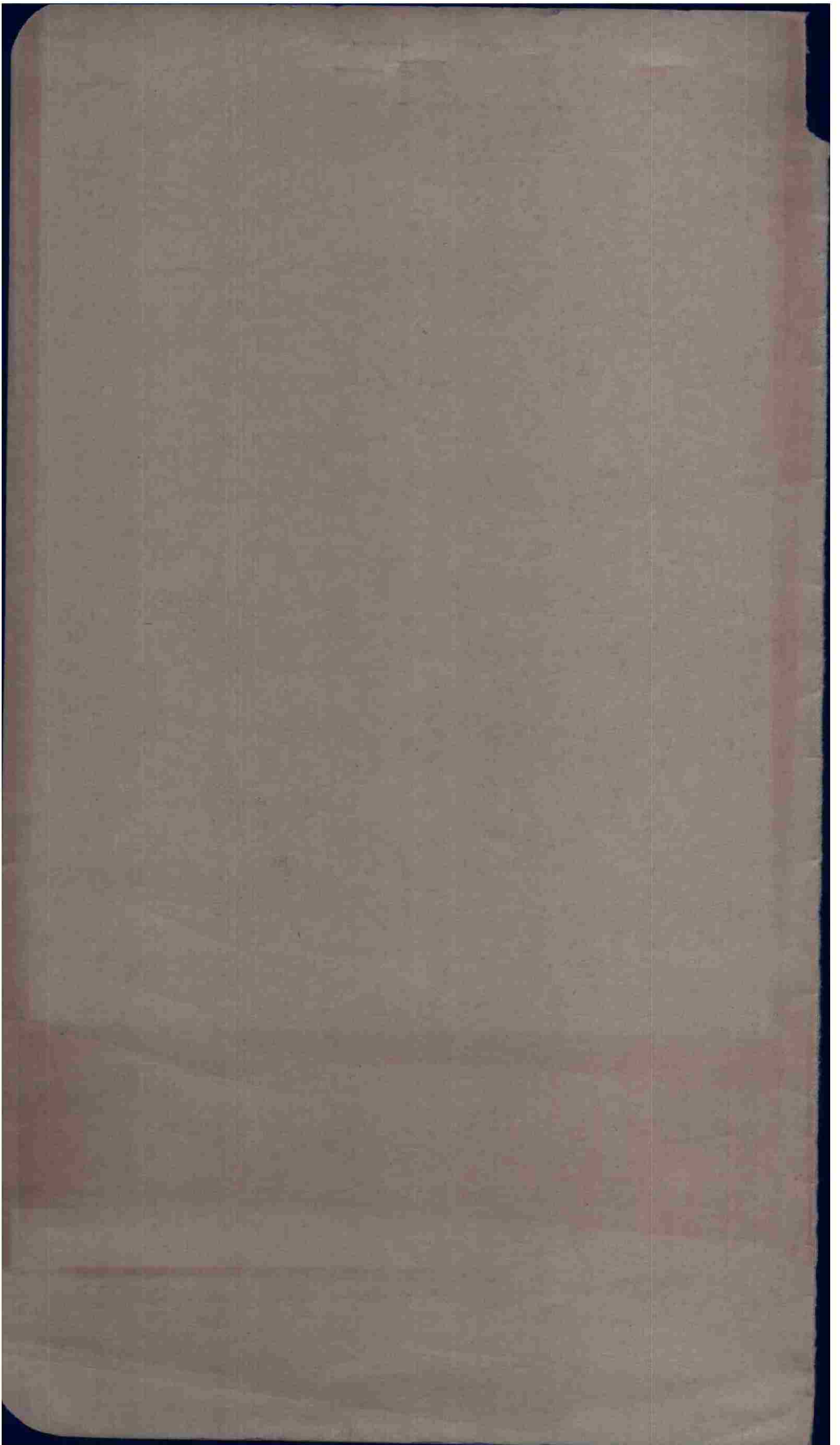
62-416-Su-Op-5
14 Jul 1944

P.R.C.

SCANNED BY ACD
= 2007

00091905

~~MICROFILMED~~



GENERAL INDEX

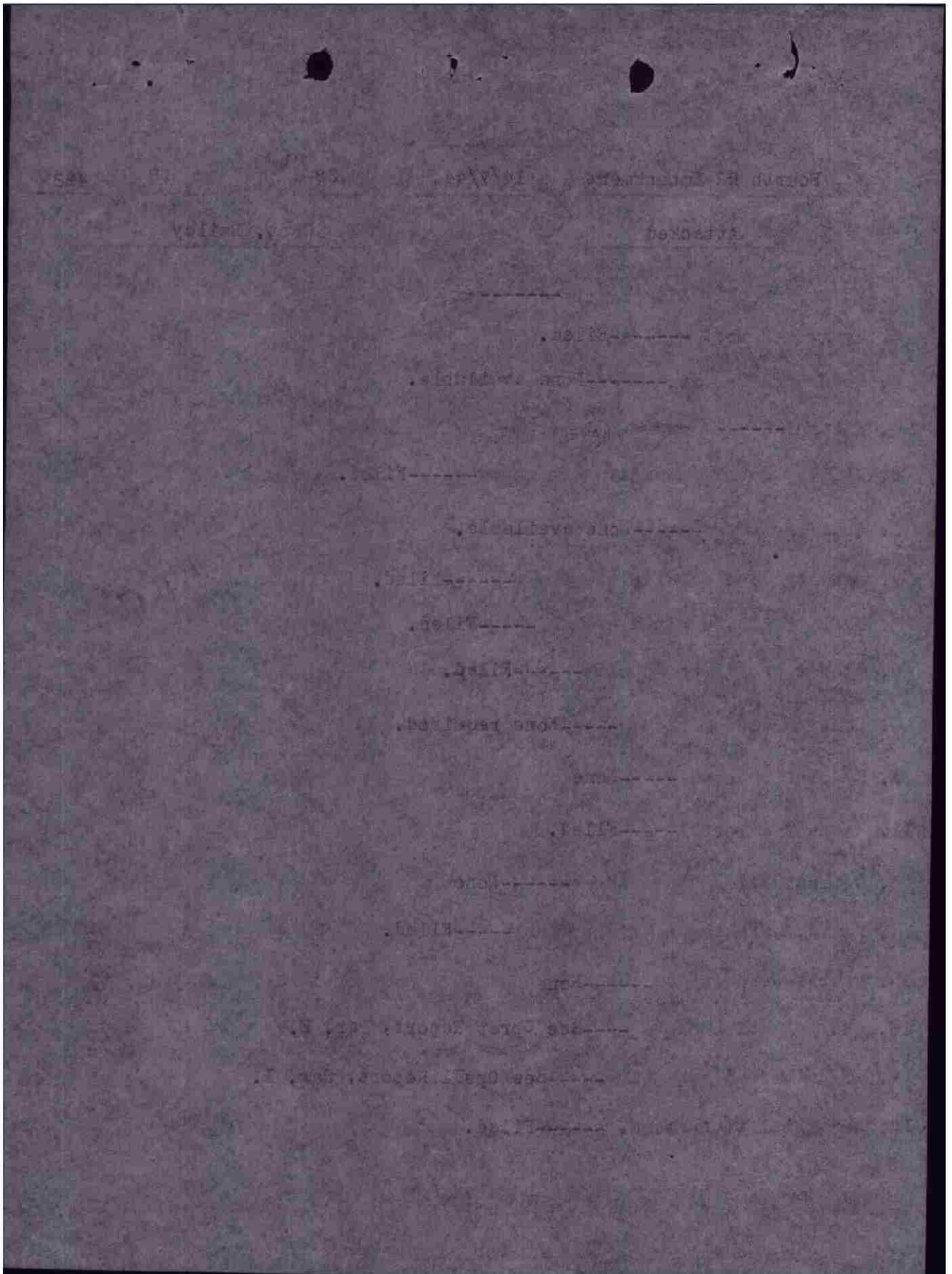
Target Bourth RR Embankment Date 14/7/44 NoA/C 32 Mission 98 PO 428

Status Attacked Briefing Officer Capt. Bailey

1. IX BC Synopsis of Mission ----- Filed
2. OpFlash Report ----- Filed.
3. Telephone Report ----- None available.
4. Photos ----- ~~FILED~~ None
5. Field Orders, Annex's, Amendments ----- Filed.
6. Briefing Notes ----- None available.
7. Loading List of Airplane Crews ----- Filed.
8. Chart of Route Flown - FLAK ----- Filed.
9. Operations Oprep Report ----- Filed.
10. Bombing Information ----- None required.
11. E/A Encountered ----- None
12. Weather Reports ----- Filed.
13. Communication "YS" Report ----- None
14. Navigator's Log & Flight Plan ----- Filed.
15. Battle Casualties ----- None
16. Analysis of Gunnery ----- See Oprep Report, Par. E.
17. Ammunition Expenditure ----- See OpsFl Report, Par. I.
18. Recapitulation Forms. ----- Filed.

P.R.C.

00091305



MISSION SUMMARY

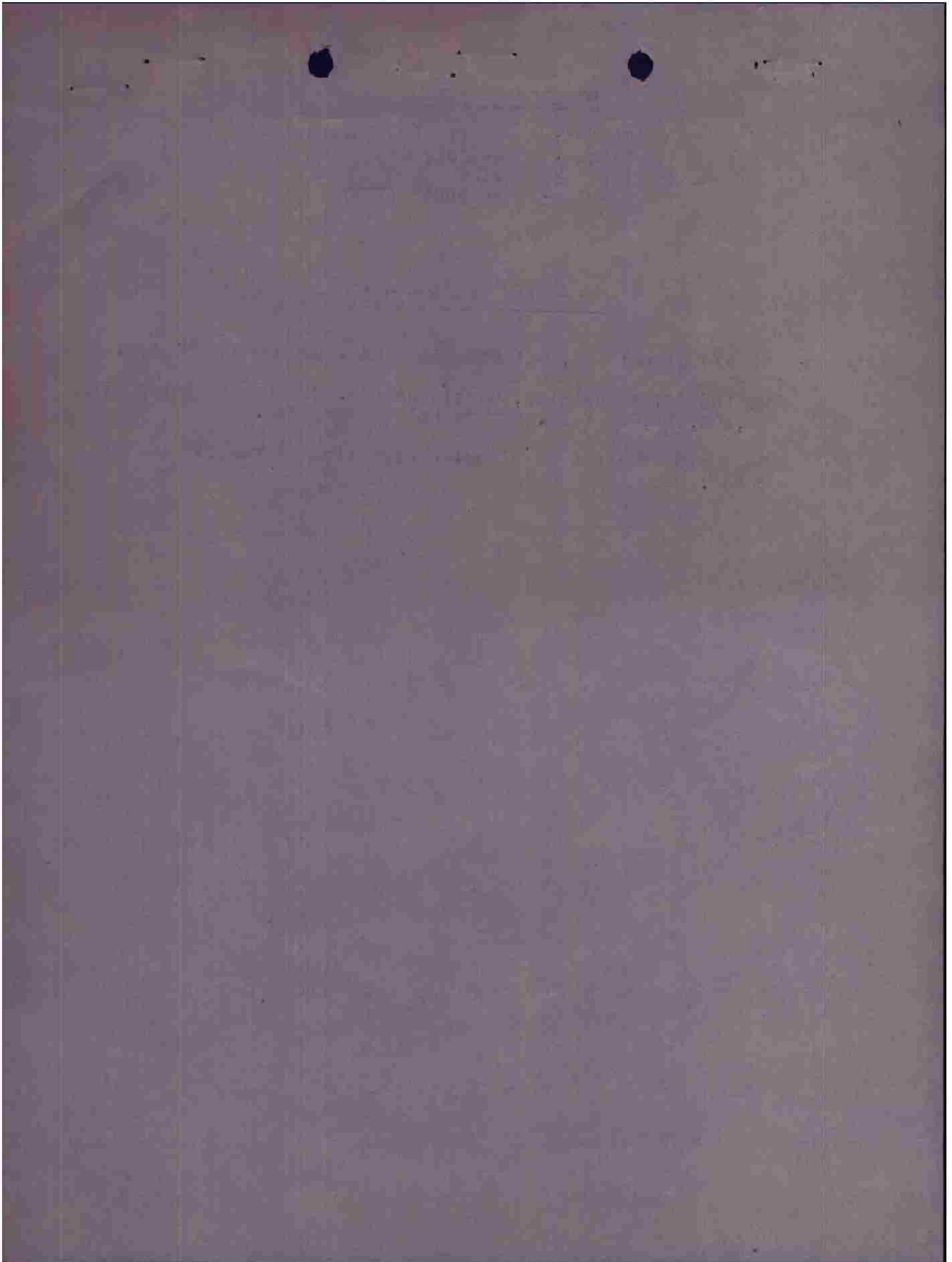
Target: Bourth (RR Embankment)
Date : 14 July 44
F/O : #428
Results: No cover (PPF)

BOURTH (RR EMBANKMENT)

416 BG: 32 a/c dispatched, all dropping 156 x 500 GP on primary.

No losses, casualties, battle damage. Bombing by boxes from 12,400, 12,000 feet. PPF technique employed.

No photo coverage or visual observation of results due to cloud cover.



File - AD3
685

YAA V COG COG 17/5 R

FROM COMBOMCON NINE 17/1130B
TO CO 416TH BOMB GROUP (L)
INF CPY TO CO 97TH COMBAT WING
RESTRICTED BT

9BC Y-364-A
RECONNAISSANCE PHOTOGRAPHS SHOW EXCELLENT RESULTS OBTAINED ON PPF
MISSION AGAINST BOURTH EMBANKMENT ON 14 JULY. MY CONGRATULATIONS
TO YOU AND YOUR CREWS.

ANDERSON

BT 17/1130B
AS

MD AB R
YAA R.....17/1325B RWS AB
M

THIS PAGE DECLASSIFIED IAW EO12958



THIS PAGE DECLASSIFIED IAW EO12958

OICOG LAI V YAA YAA 12/14 "OP"

FROM 416TH BOMB GROUP (L) 14/1745B
 TO HQ IX BOMBER COMMAND ATTN: A-2
 HQ 97TH COMBAT WING ATTN: A-2

1834

CONFIDENTIAL BT

Y-245-D

OPFLASH NO. 98 FOR 14 JULY 1944.

- A. (1) BOURTH RR EMBANKMENT
 (2) BOURTH RR EMBANKMENT
- B. (1) 416TH BG
 (2) 30 A-20'S AND 2 B-26'S
 (3) NONE
 (4) 29 A-20'S AND 2 B-26'S
 INFORMATION LACKING FROM 1 A-20 LANDED AWAY FROM BASE
- C. (1) 1259
 (2) 1500 AND ONE HALF - 1501
 (3) 1638
- D. (1) NIL
 (2) 0-0-0
 (3) 0-0-0
- E. UNOBSERVED. BOMBING WAS BY PATHFINDER TECHNIQUE.
- F. (1) (A) NIL
 (B) NIL
 (2) (A) NIL
 (B) WEAK INACCURATE HFF 8 MILES EAST OF CAEN AT U2366
- G. TRUCK CONVOY AT 1451 HOURS FROM 12,000 FEET. 7 VEHICLES VISIBLE THROUGH SMALL BREAK IN CLOUDS AT U1420 HEADED NORTHWEST. MANY SMALL BOATS ON BEACH NEAR LE HAVRE AT L4530
- H. 10/10 THROUGHOUT WITH OCCASIONAL SLIGHT BREAKS. CLOUD TOPS TO 7,000 FEET. VISIBILITY OVER CLOUDS 10 PLUS MILES. CLEAR OVER CHANNEL.
- I. 148
 142 X 500 ON PRIMARY BY 29 A-20'S
 8 X 500 ON PRIMARY BY 2 B-26'S
 2 X 500 RETURNED BY A-20.
 INFORMATION LACKING FROM 1 A-20 LANDED AWAY FROM BASE - AT FORD ON SINGLE ENGINE
- J. 12,400 - 12,000 FEET.

BT 14/1745B

FD AS AR

OICOG R.....14/1815B

RT

AR

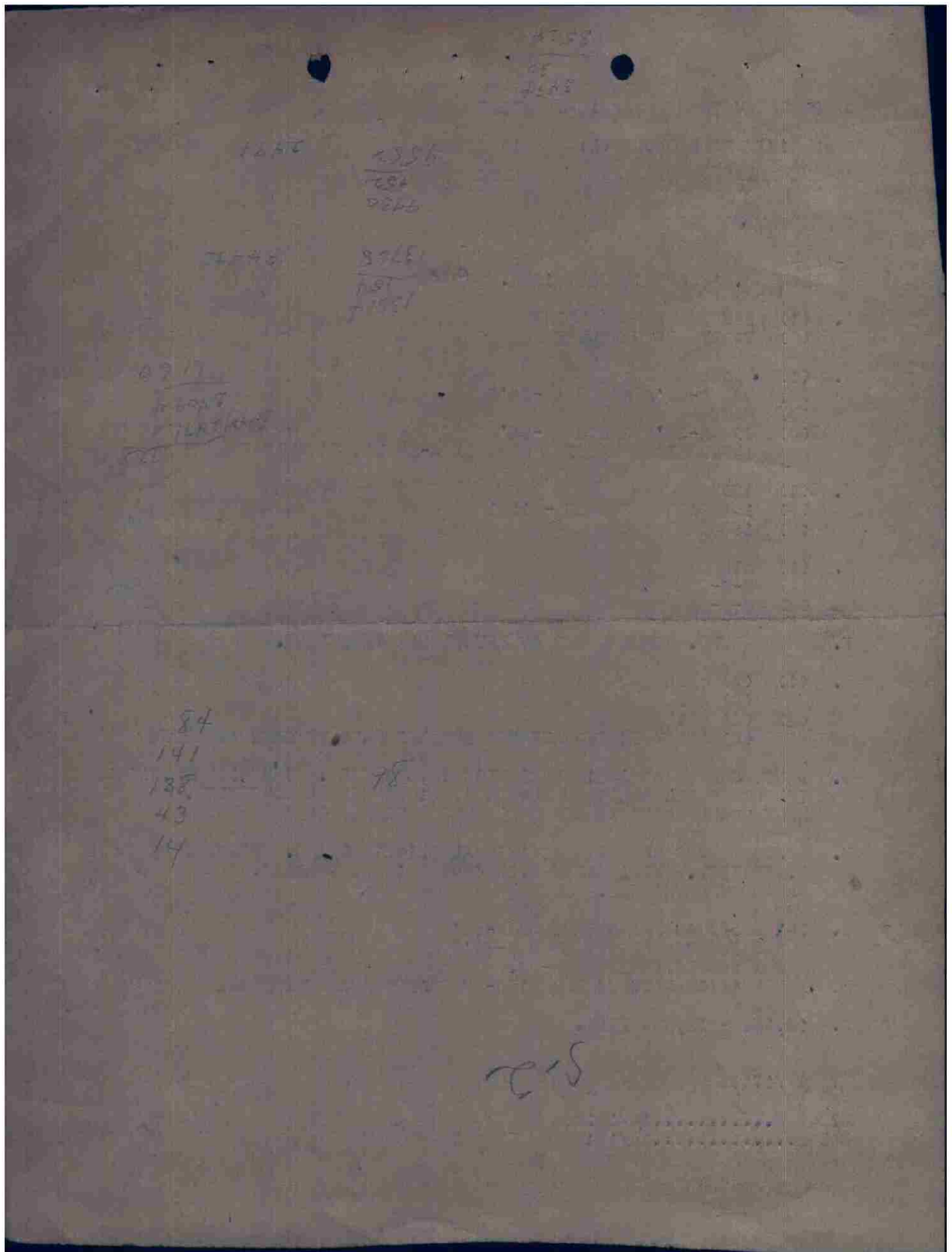
K

LAI R.....14/1815B

FK

AR

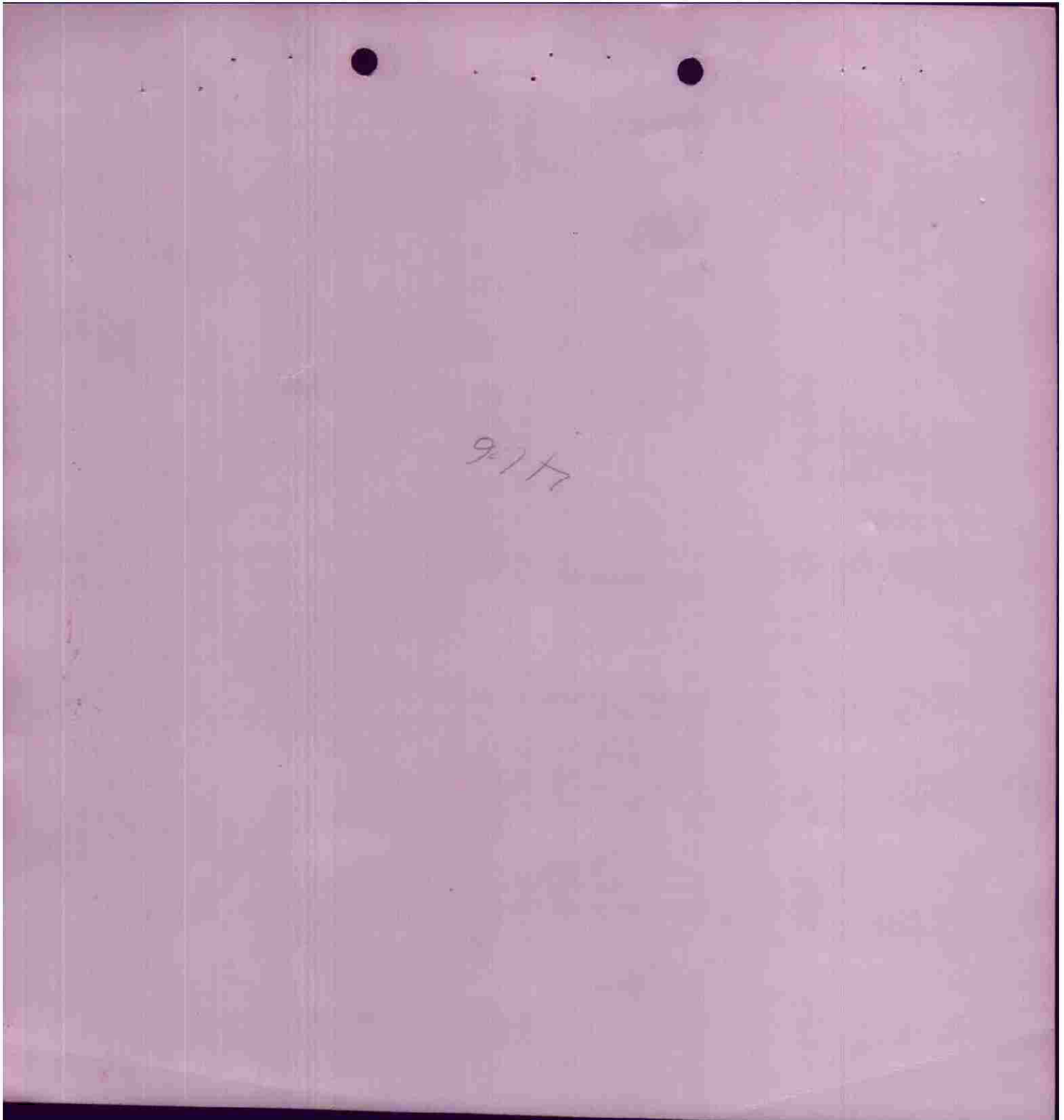
MUMV





5002

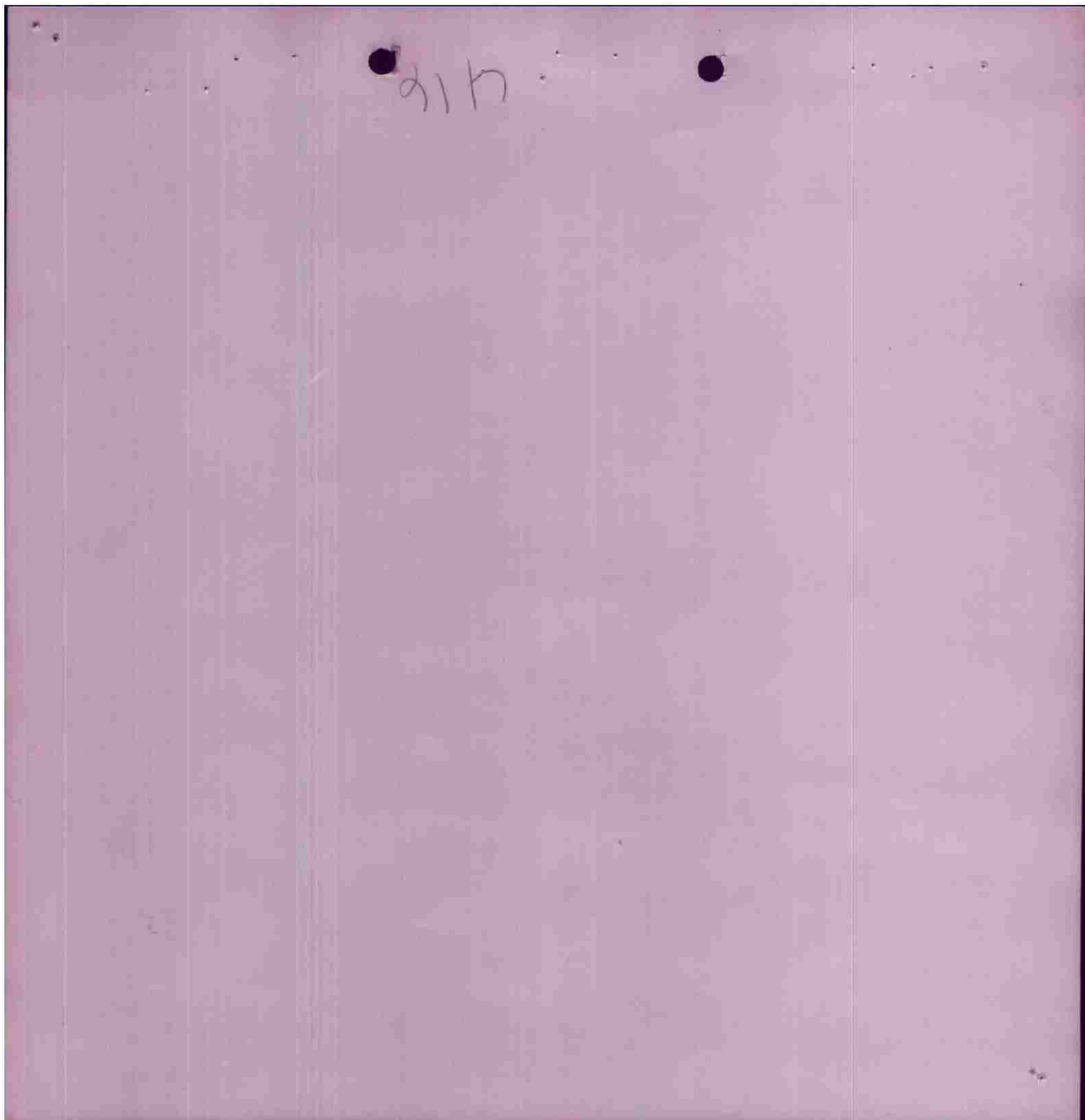
(US 15/1295) 15 JULY 44 (F/6) // 10 PG (2500) (1750B) BOURTH



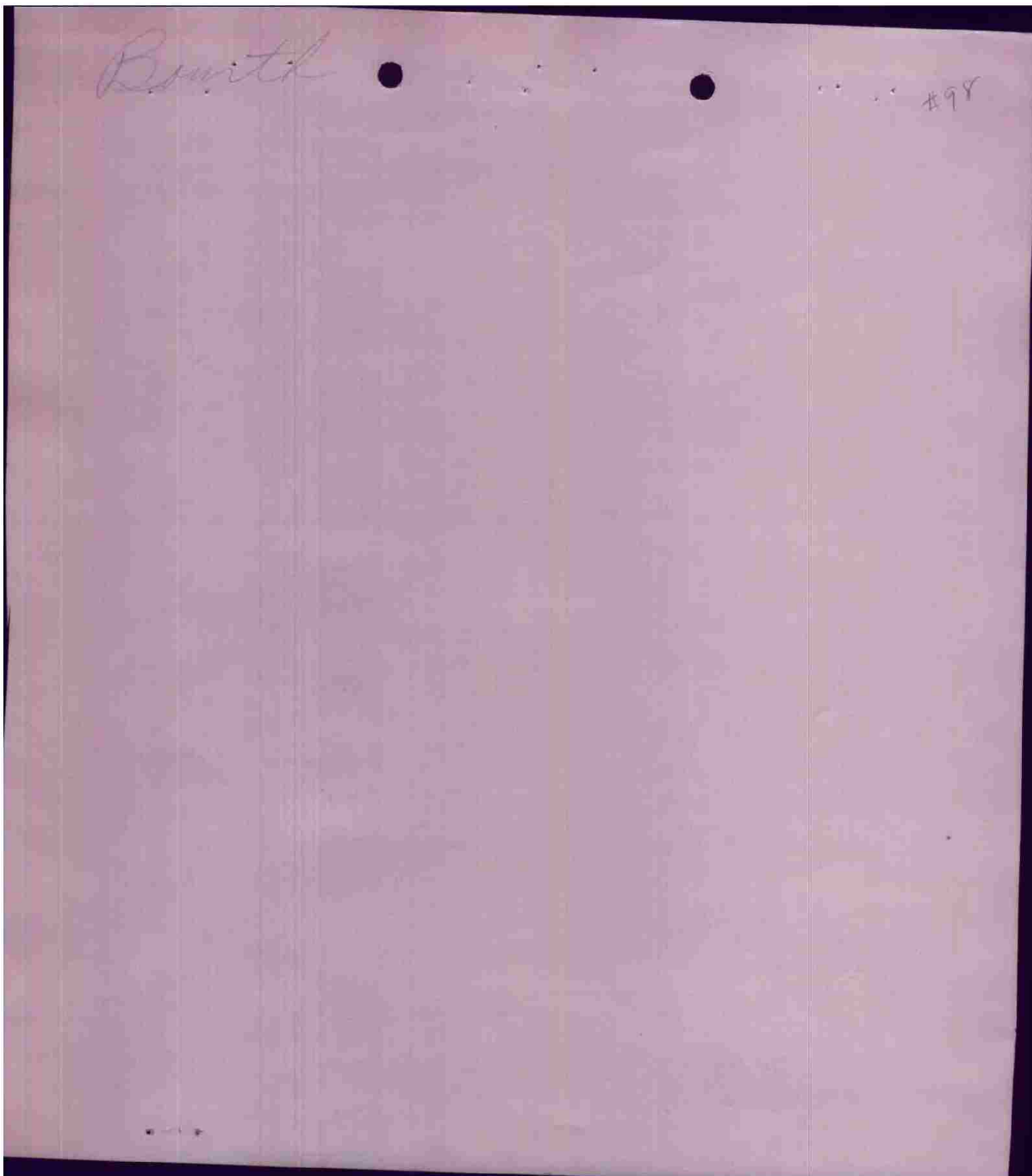


5001

(US15/1295) 15 JUL 44 (F/6) // 10 PG (2500) (1750B)







OIYAA V OILAI 06/17 P

FROM 97TH COMBAT BOMB WING 17/1220B
TO 416TH BOMB GROUP.

PRIORITY CONFIDENTIAL BT

97TH COMBAT BOMB WING

V-96-E JULY 17 1944

A. US 15/1295 TR SORTIE 1650B 15 JULY 44 16PG

B. RR BRIDGE AND EMBANKMENT, BOURTH, 4040A/46SE/906425 TO 910422
PRINTS 5001, 5002.

1. TARGET COVERED ON VERY HAZY PRINTS.
2. BRIDGE OVER STREAM APPEARS INTACT. RAIL LINES ON EMBANKMENT SOUTHEAST OK. BRIDGE PROBABLY CUT BY AT LEAST FOUR (4) HITS.
3. TRAIN ON EAST RAIL LINE HAS SUSTAINED SOME DAMAGE TO ROLLING STOCK. CRATERS CONCENTRATED IN FIELDS ON EITHER SIDE OF BRIDGE.

---END OBERNDORFER---

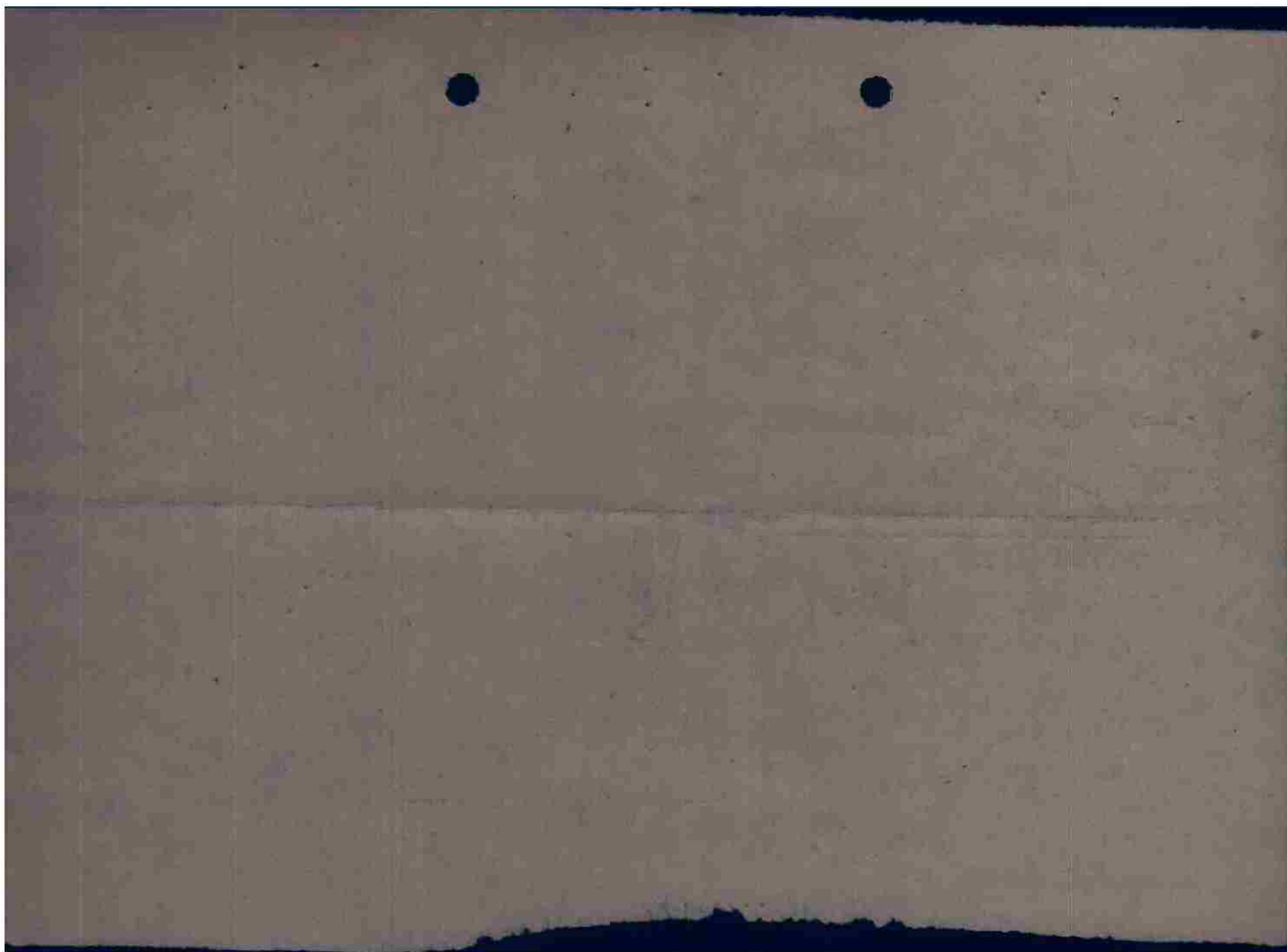
BT 171220B

PK AS

OIYAA WITH RO

OILAI / OIYAA G.....17/1300B EJS AR

THIS PAGE DECLASSIFIED IAW EO12958



THIS PAGE DECLASSIFIED IAW EO12958

OICOG OINAK OIYAA OIGOF V OILAI OILAI 05/14 OP
 FROM 97TH COMBAT BOMBARDMENT WING 14/1100B Y-0072-E
 TO COMBOMCOM IX
 409TH BOMB GROUP (INFO)
 410TH BOMB GROUP (INFO)
 416TH BOMB GROUP
 OPERATIONAL PRIORITY DT

SECRET SENT IN THE CLEAR AUTH: LT. COL. MC AFEE

97TH COMBAT BOMB. WING
 A P O 140
 14 JULY 1944

FIELD ORDER NO. 127-428

MAPS: NORMAL

1. B. NINTH FIGHTER COMMAND WILL FURNISH P-38 ESCORT FOR THIS WING.
2. THIS WING WILL ATTACK A TARGET IN FRANCE.

ZERO HOUR 14/1500B

3. A. 416TH BOMB GROUP
 - (1) 4800B/2
 - (2) 2 BOXES OF 15 A/C
 - (3) WITH P-38 AT WORTHING AT 10,000 FEET OR ABOVE OVERCAST ONE BOX AT ZERO HOUR MINUS 49 MIN. ONE BOX ZERO HOUR MINUS 50 MIN.
 - (4) BASE TO MAIDENHEAD TO WORTHING TO 49 DEG. 17 MIN. NORTH 00 DEG. 03 MIN. WEST TO 48 DEG. 52 MIN. NORTH 00 DEG. 23 MIN. WEST TO 48 DEG. 45 MIN. NORTH 00 DEG. 12 MIN. WEST TO TARGET.
 - (5) PRIMARY TARGET LEFT TURN TO 49 DEG. 17 MIN. NORTH 00 DEG. 03 MIN. WEST TO WORTHING TO MAIDENHEAD TO BASE.
 - (6) BOMB: 1 BOX 12,500 FEET 1 BOX 12,000 FEET CROSS ENEMY COAST OUT 12,000 FEET.
 - (8) GENERALLY WEST TO EAST.
 - (9) ILL. 4800/9/A ONE BOX ON REF. 047028 ONE BOX ON REF. 056023 TO BE USED IF BOMBING IS VISUAL.
 - (10) 6 X 500 LB. G.P. FUSE 1/10 SEC. NOSE 1/40 SEC. TAIL.
- XX (12) THIS WILL BE A BLIND BOMBING MISSION RENDEZVOUS WITH PFF A/C OVER HOME BASE FOR PFF TACTICS SEE IX BC MEMORANDUM NO. 56-17
- (13) TIME OVER TARGET TARGET
 - 1 BOX ZERO HOUR
 - 1 BOX ZERO HOUR PLUS 1 MIN
- X. (1) TO (4) NO CHANGE
- (5) SECONDARY AND CASUAL TARGETS WILL NOT BE ATTACKED

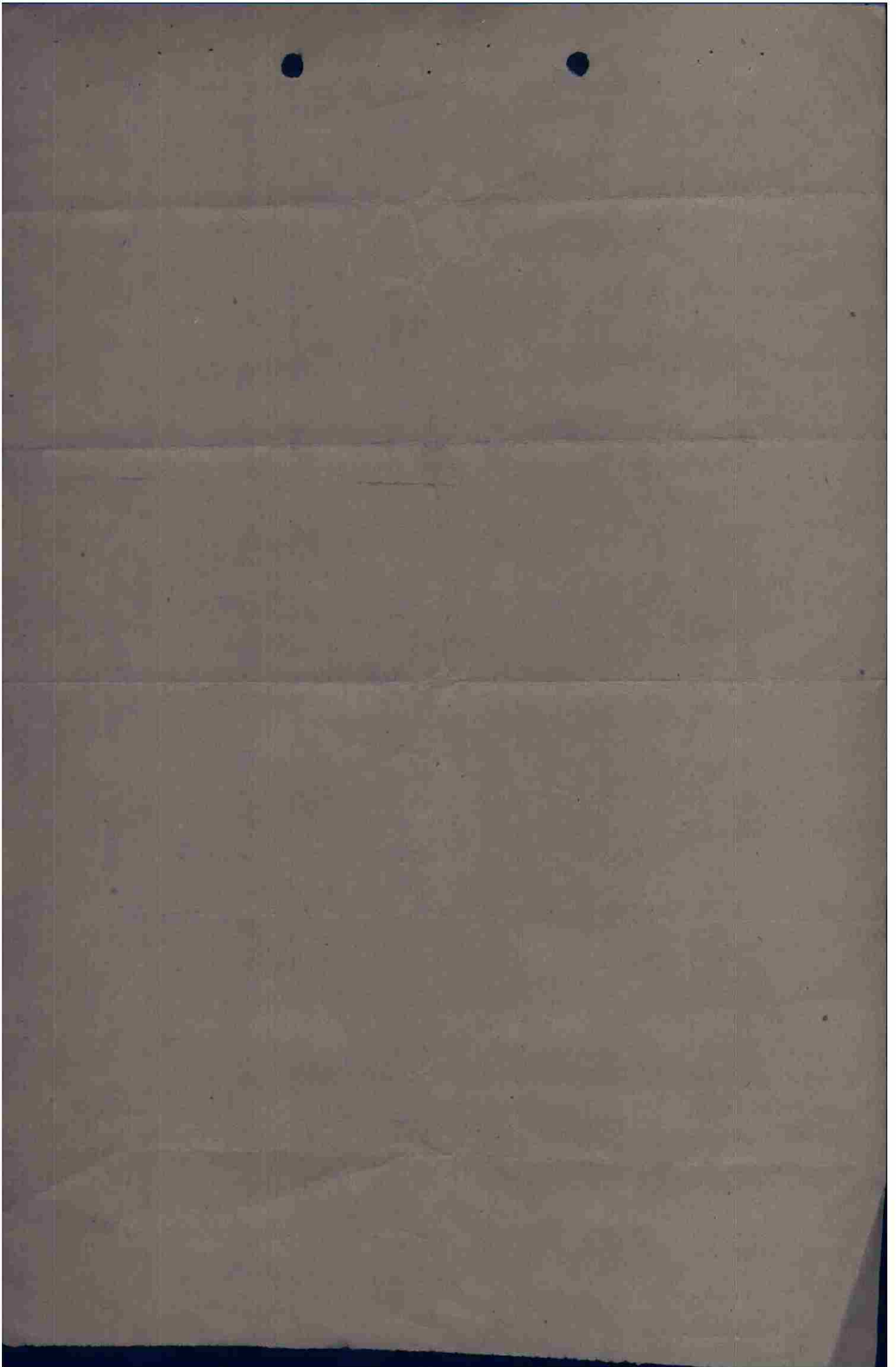
4. NO CHANGE

5. COMMUNICATIONS
 - C. 416TH BOMB GROUP
 - (2) ENGAGEMENT
 - (3) TOWNER
 - X. GENERAL INFORMATION
 - (3) DELETE BRXX 9F/9F ADD 11F/11F
 - (10) TAVB/TAVB

COCBTWIG 97

BT 141100B
 AR JMD
 OINAK R.....14/1132B US DBB
 OIYAA R.....14/1134B WJF AR
 M

*Recd
 1145
 14 July 44
 544*



FIELD ORDER BY TELEPHONE

Zero Hour 1500Aircraft required 2X15 Formation _____

Target: _____

Primary: 4800/9/24800/9/A

Illustration _____

I 047028II 056023

Secondary: _____ Illustration _____ Reference _____

Bomber Rendezvous: _____

Group	Place	Time	Altitude
-------	-------	------	----------

Fighter Rendezvous: _____

Type

Place

Time

Altitude

Route Out: Base to M Head to working 4917N 0003W4852N 0023W to 4845N 0012W to tpt.Route Back: left to 4917N 0003W to workingto M Head to Base.

IP _____

Axis of Attack _____

RP _____

Bombing Altitude 12500Altitude Enemy Coast Out 12500

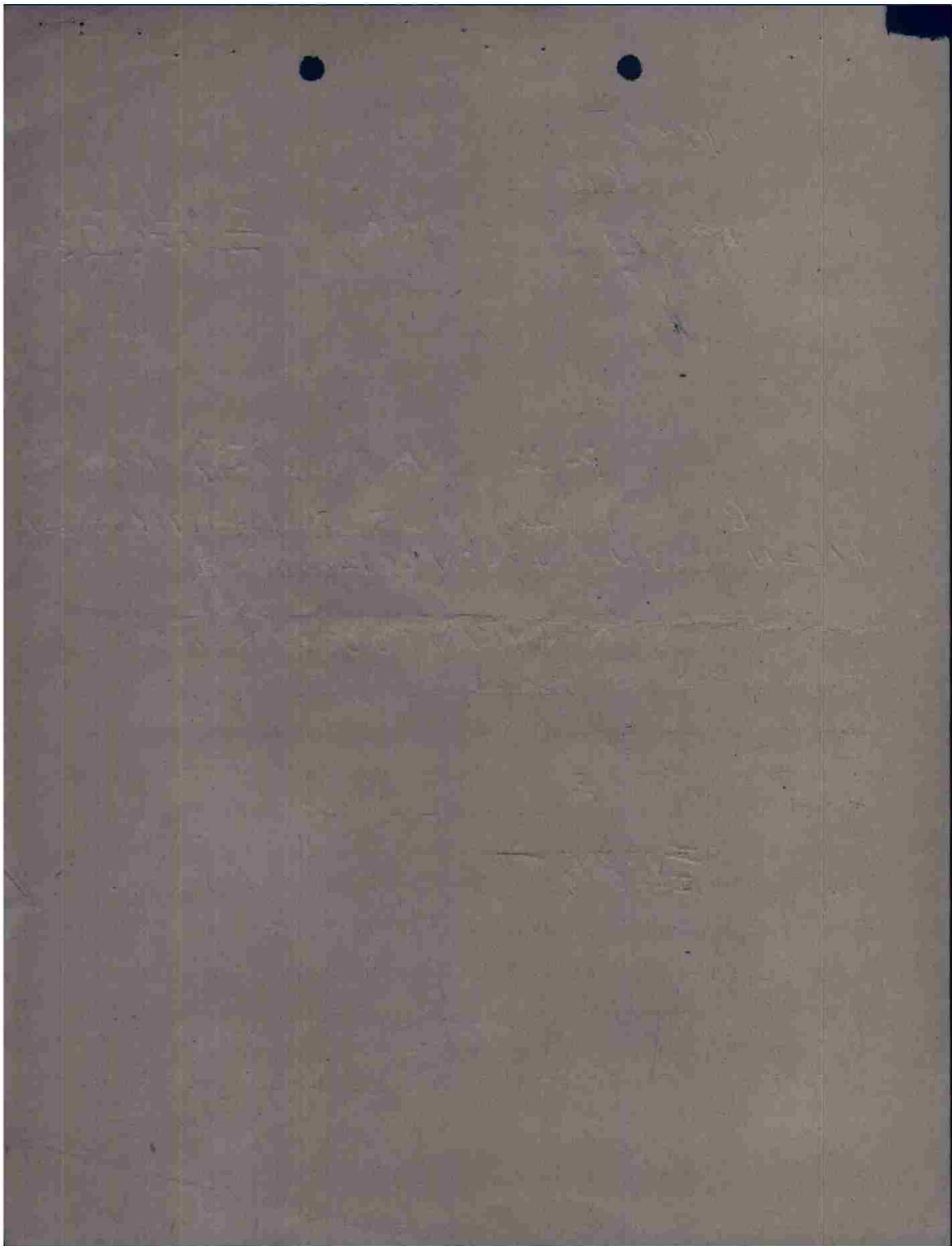
Bomb Load _____

Nose _____

Tail _____

REMARKS _____

Above 8000' across English Coast.



FIELD ORDER BY TELEPHONE

Zero Hour 1500Aircraft required 2X15 Formation _____

Target: _____

Primary: 4800/B/2Illustration 4800/9/a

I 047028

Reference U 056023

Secondary: _____ Illustration _____ Reference _____

Bomber Rendezvous: _____

Group _____ Place _____ Time _____ Altitude _____

Fighter Rendezvous: _____

P-38

Worthing

0.50

10,000

(OR above cloudy)

Type

Place

Time

Altitude

Route Out: Base to Maidenhead to Worthing - 4917N0003W - 4852N 0023W - 4845N 0012Wto targetRoute Back: left to 4917N 0003W to
Worthing to Maidenhead to Base

IP _____

Axis of Attack _____

RF _____

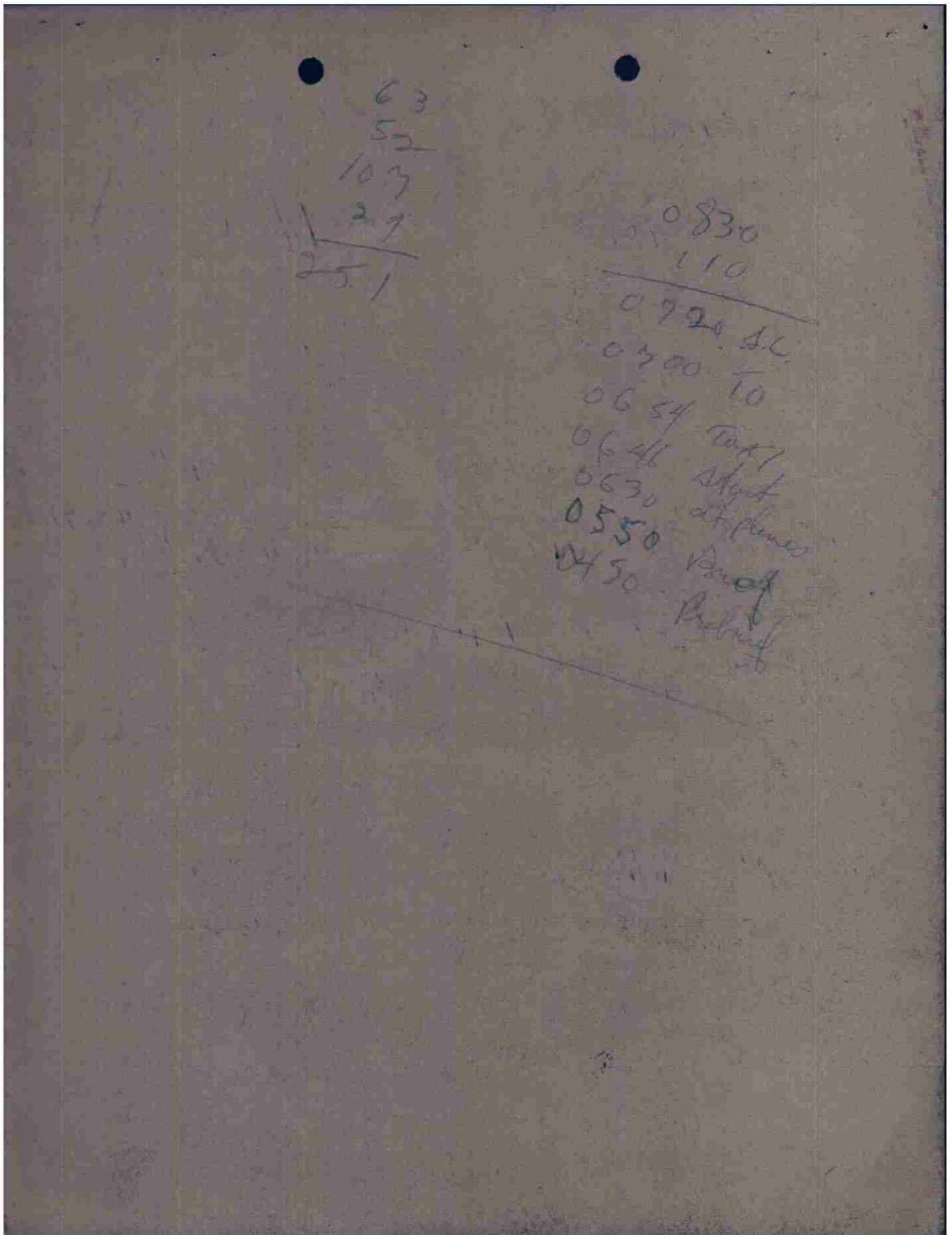
Bombing Altitude I 12500U 12000Altitude Enemy Coast Out 12500

Bomb Load _____

Nose _____

Tail _____

REMARKS _____



MISSION NO. 98

LOADING LIST
BOX I
FLIGHT I

14 JULY 1944

- Intel*
1. 914 X
MAJOR LF DUNN
LT H T ARRINGTON
S/S H A MARION
S/S V P ADAMS
 2. 712 H
MAJOR JOHN G. NAPIER
LT J MADENFORT
SGT R A CLARK
SGT F P BASFORD
 3. 701 H-1
LT COL W W FARMER
SGT F W ELLIOTT
PVT J MOSKOWITZ

FLIGHT II

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. 943 F
LT E E DEMUN
S/S M ROSENSTEIN
S/S H O CARNEY 2. 202 B
LT T BOUKAMP
S/S R J COLOSIMO
S/S J B WING | <ol style="list-style-type: none"> 3. 743 W
LT J F SMITH
S/S C VAFIADIS
S/S R C HOFFMAN 4. 900 Q
LT R L BEHLMER
T/S W J KELLY
S/S W G FERGUSON |
|--|--|

FLIGHT III

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. 363 L
LT J D ADAMS
S/S P L CLEARMAN
S/S A J ZEIKUS 2. 937 B-1
LT A R DURANTE
S/S H T BEST
S/S I R DEGIUSTI | <ol style="list-style-type: none"> 3. 951 P
LT G L ESTES
S/S C R ORVOLD
S/S A E DIMARTINO 4. 220 E
LT F W HENDERSON
S/S D H DEBOWER
S/S P E GOULOMBE |
|--|--|

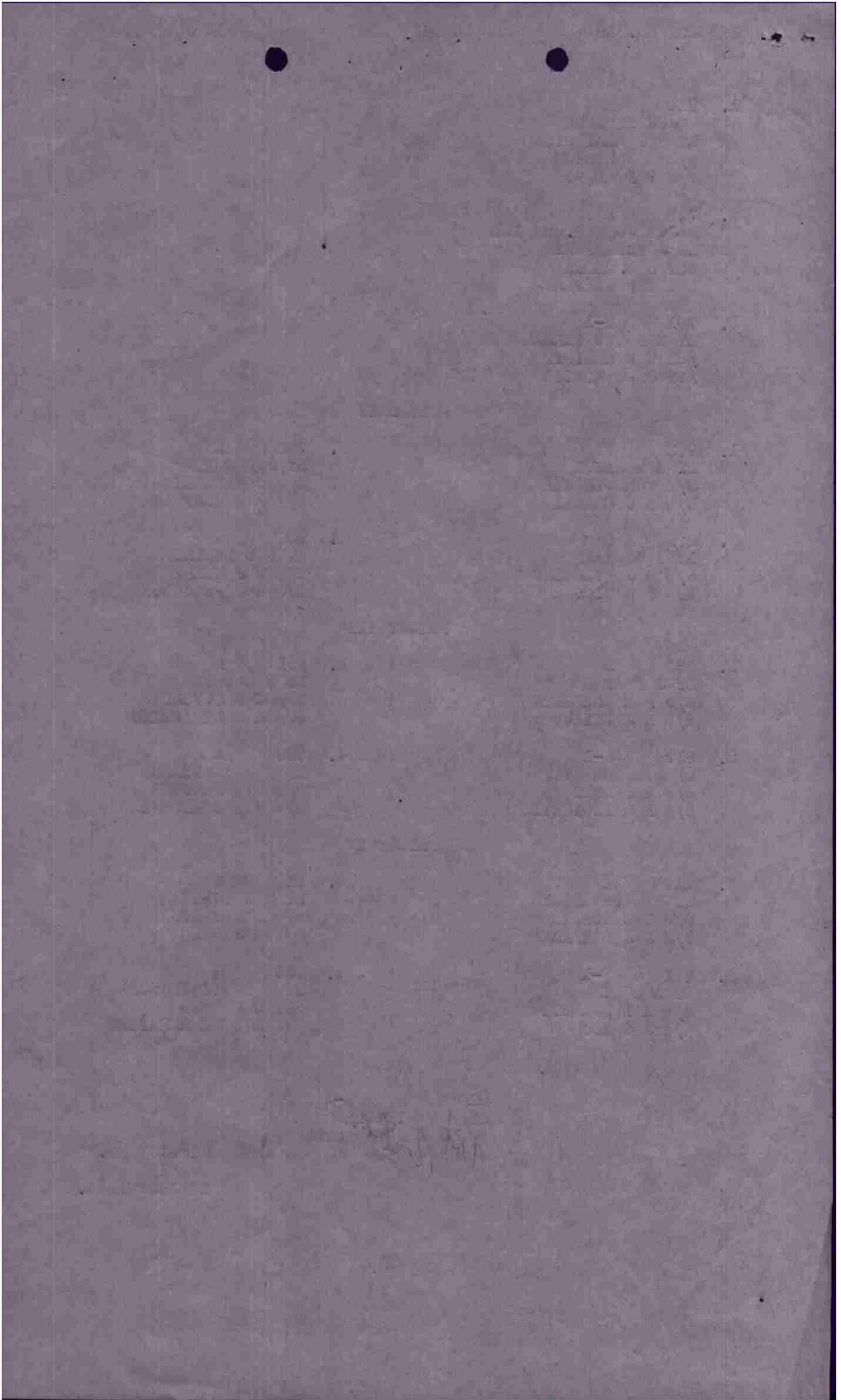
FLIGHT IV

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. 214 C
LT R E GREENLEY
S/S H C WORDEN
S/S J J RZEPKA 2. 221 F-1
LT A E HERMAN
S/S A D GARRETT
S/S J O YOUNG | <ol style="list-style-type: none"> 3. 219 D
LT R W YORK
S/S L A ASHTON
S/S H J WILDS 4. 956 Z
LT D L WITHINGTON
SGT C F HUSS
SGT L D MC ELHATTAN |
|--|--|

SPARE

210 A-1
LT R V MIRACLE
S/S J C BURKHALTER
S/S B C SIEG

MISSION NO. 98
BOX I
14 JULY 1944.



MISSION NO. 98

LOADING LIST
BOX II
FLIGHT I

14 JULY 1944

1. 640 Z
LT A E OSBORNE
LT W FORMA
SGT J W ROBINSON
SGT S P NEWELL
2. 058 C
CAPT G R JACKSON
LT A H MALTSY
SGT D E BURNS
SGT W J DANIEL
3. 226 E
LT R G MEREDITH
SGT P G EUGA
S/S R W MACDONALD

FLIGHT II

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. 907 O
CAPT R B PRENTISS
XXXXXXXXXXXX
S/S J E MCCREERY
S/S H J SYLVA 2. 784 X
LT J P KENNY
SGT J K SPADONI
SGT F NOTERIANI | <ol style="list-style-type: none"> 3. 935 F
LT J K COLQUITT
SGT S H GIEBY
SGT F E CHERRY 4. 362 L
LT R D LESHER
S/S H R HEDRICK
S/S A J ANTANAITIS |
|--|--|

FLIGHT III

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. 819 K
Lt. G.F. Bartmus
S/S D. Hantske
S/S F.L. Flacks 2. 176 T
Lt. G.C. Mish
S/S C.J. Clark
S/S R.F. Chustz | <ol style="list-style-type: none"> 3. 195 D
Lt. R.R. Svenson
S/S P.G. Fild
S/S G.E. Pfenning 4. 975 W
Lt. A.J. Welsh
Sgt. R.E. Wright
Sgt. S.G. Novak |
|---|---|

FLIGHT IV

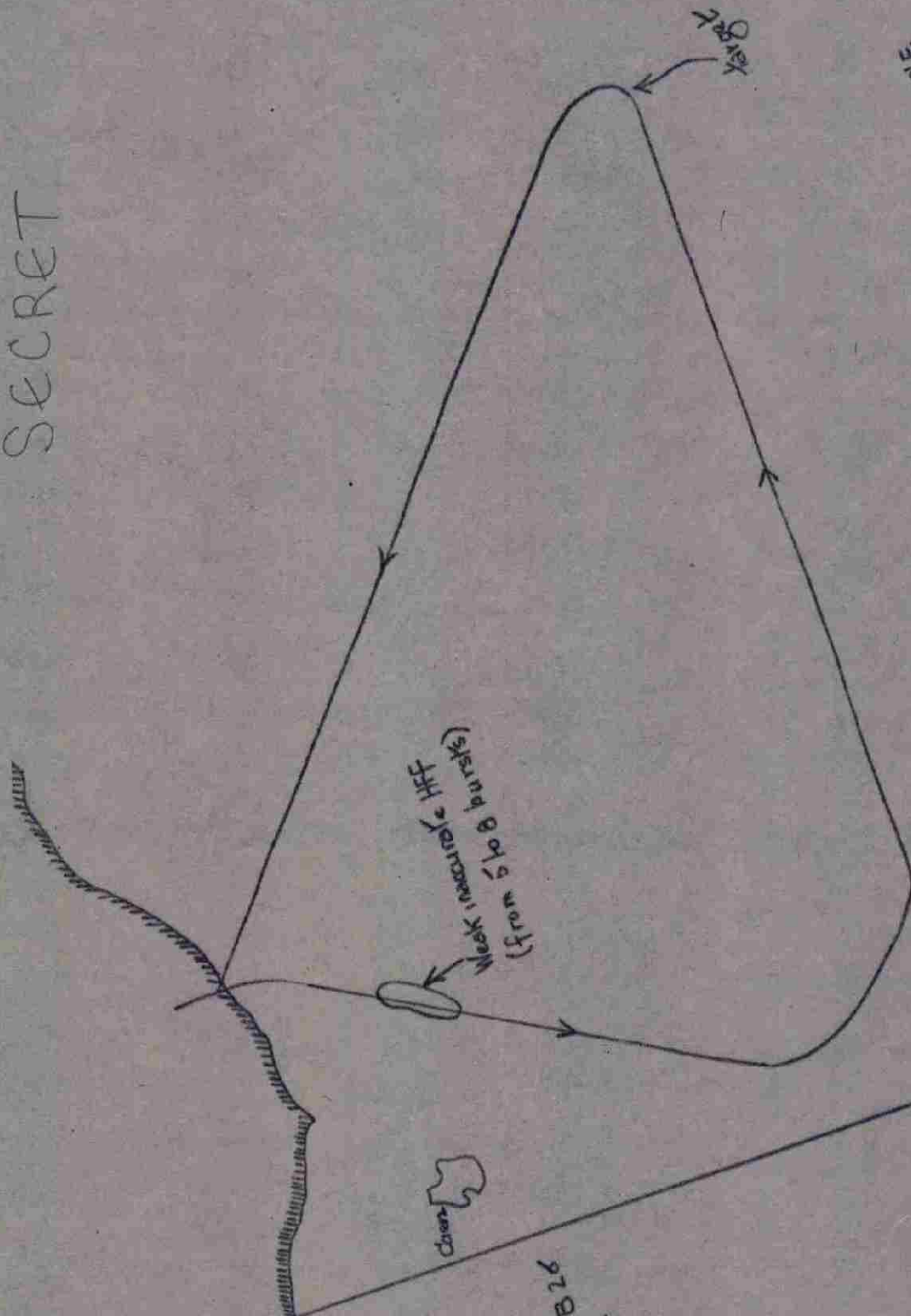
- | | |
|--|---|
| <ol style="list-style-type: none"> 1. 211 O
Lt. W.J. Greene
S/S J.A. Oehaba
S/S W.F. Colbert 2. 207 B
Lt. F.J. Harrold
S/S E.L. Griffin
S/S C.W. Maziasz | <ol style="list-style-type: none"> 3. 200 A
Lt. N.G. Brown
S/S H.E. White
S/S R.F. Addleman 4. 689 I
Lt. P.G. Atkinson
S/S J.O. Swafford
S/S P.F. Glynn |
|--|---|

SPARE

209 K-1
Lt J C Sewell
S/S E R Wilson
S/S C L Shaw

MISSION NO. 98
BOX II
14 JULY 1944

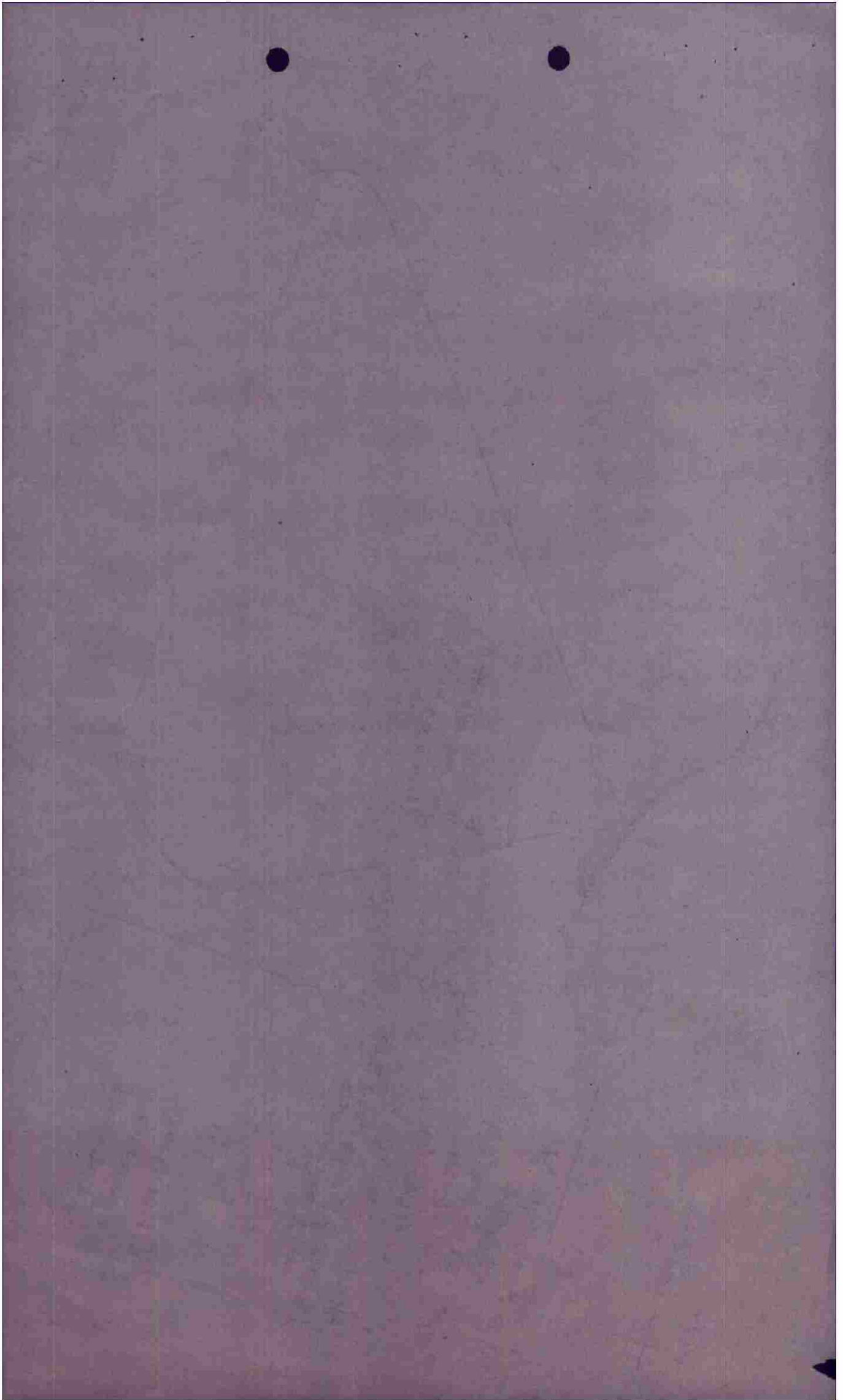
SECRET



00°40'N
—
48°30'E

416th Bomb. Gp. (1)
14 July 1944
Target: R.R. 2 miles from Y-28
T.O. = 1600/2-1501
Altitude = 12400/12000'
2 boxes of 15 ships plus 1 B26
2 leading TT TT TT
TT TT TT
TT TT TT
No wind used
No phenomena
No feld observed

00°40'N
—
48°30'E



CONFIDENTIAL

HEADQUARTERS
 16TH BOMB GROUP (L)
 OFFICE OF THE UNIT COMMANDER

APC 140
 14 July 1942

SUBJECT: Interrogation Report

TO : Staff Weather Officer, Headquarters IX
 Bomber Command, APC 140, U. S. Army.

BASE AT TAKEOFF: 6/10 stratocumulus and cumulus at 3,000
 feet. Overcast at 5,000 feet. Visibility
 4 miles.

ROUTE OUT: 8/10 to 9/10 stratocumulus and cumulus at 3,000
 to 4,000 feet to the channel. Clouds broke over
 channel to less than 1/10 but became 10/10 over
 France with tops to 7,000 feet. Visibility over
 England 3 to 4 miles. Over France visibility
 above cloud was unlimited.

TARGET: 10/10 stratocumulus with tops 7,000 feet. Horizontal
 visibility unlimited.

ROUTE BACK: Similar to route out.

BASE ON RETURN: 6/10 stratocumulus and cumulus at 3,500 feet
 with overcast of stratocumulus 5,000 feet.
 Visibility 4 miles.

WINDS: Reported as slightly weaker than forecast.

TIME OVER TARGET: 1801

REMARKS ON WEATHER ON RETURN: Clouds were dropped on
 pathfinder thru solid overcast.

Walter D. Castle

WALTER D. CASTLE
 1st Lt. AIR CORPS,
 Staff Weather Officer.

CONFIDENTIAL

OPERATIONAL FORECAST PERIOD 1300 to 1800 22 July 1944

BASE TO TARGET: 6/10 to 9/10 variable stratocumulus and cumulus base 2500 to 3000 feet tops 4000 to 5000 feet increasing to 10/10 on south coast but becoming clear over channel. 8/10 to 10/10 stratocumulus in layer base 1500 feet tops (Max) 8000 feet. Visibility 2 to 4 miles becoming 8 miles across channel in haze

TARGET: 8/10 to 10/10 stratocumulus and cumulus base 1500 feet tops 7000 feet. Visibility above cloud 20 miles.

TARGET TO BASE: Similar to route out, but cumulus decreasing to 3/10 to 5/10. Visibility 6 miles.

HAZARDS TO FLYING: Haze

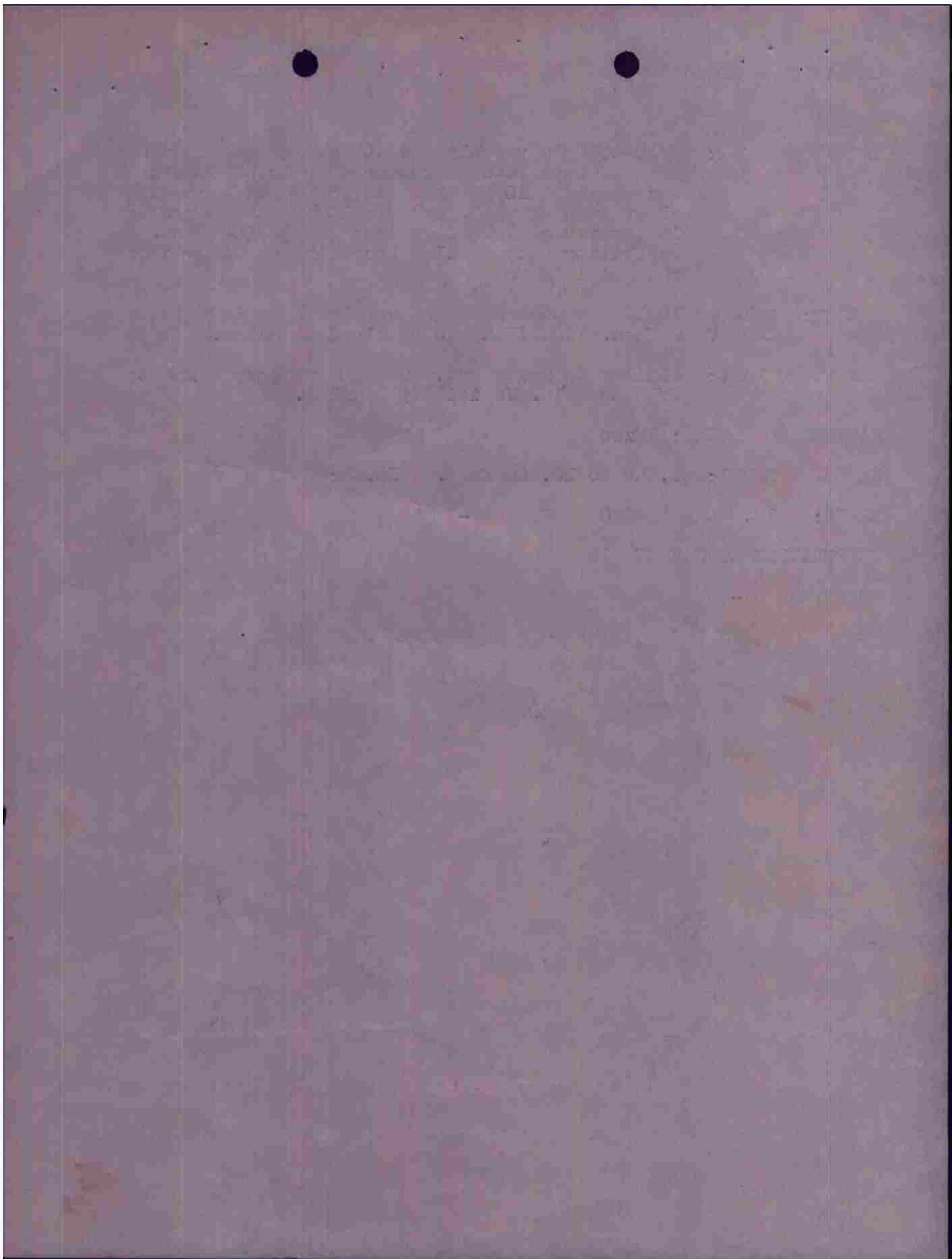
FREEZING LEVEL: 9,000 to 10,000 feet. ICING: Nil

WINDS: 12,000 320 33 -1

TEMPERATURE AT TARGET 18

MEAN TEMP -6

+109 29.80



USAAF FORM 34A

S E C R E T

SECRET

HEADQUARTERS
416TH BOMBARDMENT GROUP (L)
Office of the Commanding Officer

AUTH: CO STA
DATE: 16 July 1944
INIT:

TO:

From: 416th Bombardment Group (L), APO 140, U.S. Army.

Ref : Oprep A No. 105 for 24 hrs. ending midnight 14 July 1944
Mission or Operation No. 30 97 01 125 - 427

A. Short Narrative of Operation:

Target South N/A Submarine
Place of take-off RAF Station 170
Place of landing RAF Station 170. 1 N/A landed at Ford - engine trouble.
Take-off time 1839 Landing time 1838
Time over target 1900 1/2 - 1901 Bombing Altitude 12,000 - 12,500 feet
Nature of mission bombing Other None
Weather 10/10 throughout with occasional slight breaks, cloud tops 7000 feet.
Results Unobserved.
Enemy opposition None

B. Type & model of aircraft:

1. Dispatched 26 A-200
4 A-200
2 A-200 (1 N/A = 0)
2. Attacking target (indicate target) or completing mission.
26 A-200 South N/A Submarine
4 A-200 South N/A Submarine
3. Abortive due to:
(1) Weather: None
(2) Personnel: None
(3) Mechanical: None
(4) Other: None
4. Missing (i.e. cause and place unknown) None
5. Destroyed - before reaching target None
giving cause where known
6. Destroyed - over or after leaving None
target giving cause where known
7. Damaged (give category & cause) None
8. Sorties 26 A-200
4 A-200

S E C R E T

(over)

SECRET

GEORGE SCHWABEIN
Captain, Air Corps,
Adjutant.

For the Commanding Officer:

- a. Destroyed
- b. Prob. Destroyed
- c. Damaged

H. Enemy aircraft by type or designation (tentative entries):

Type of	Pilot	Co-pilot	Nav	Beam	R.Gun	B.Gun	T.Gun
Casualty							
Killed in							
Action							
Missing in							
Action							
Wounded							
Slightly							
Wounded							

G. Own Personnel Casualties:

- a. Total Returned
- b. Lost or wrecked on missing e/c
- c. Detached

B. Expended on operations: (List targets separately)

F. Bombs, flares, etc. used:

- a. Total carried into air
- b. Expended on operations
- c. Lost on wrecked or missing e/c

b. Night (Sunset to sunrise)

D. Total operational flying hours

USAF FORM 374 (cont'd) SECRET

BOMBARDIER'S LOG

TARGET

DATE

Pressure Altitude of Target: +477 (29.41)	Type of Release: Train Ind. Salvo
Altimeter Setting: 29.82	Interval:
Ind. Alt.: 12500 True Alt.: 12200	Length of Run: Time of Release:
Ground Speed: Drift:	Mag. Head. Ordered: 284 actual:
Est.: 224 Act.: Est.: 4 Act.:	Aircraft Number:
Ind. Air Sp.: 200 True Air Sp.: 244	Pilot: DUNN
Tan. Dropping Angle: 72	Navigator: ARRINGTON
Disc Speed: 186 Trail: 60	Bombardier:
Sighting: Tagged: Bombsight:	

M.T. +6

BOMBS AND FUZES

Types: Number: Nose: Tail:

LEFT			INTERMEDIATE TANGENTS AND DRIFT FOR ORDERED HEADING.	RIGHT		
HEADING MAG.	DRIFT	TANGENT		HEADING MAG.	DRIFT	TANGENT
227 214°	5°L	.73		221 294°	3°L	.70
231 204°	5½°L	.73		219 304°	2°L	.70
236 304°	6°L	.75		219 304°	1°L	.70
240 244°	6½°L	.76		220 324°	1°R	.70

MINUS			INTERMEDIATE DISC SPEEDS AND TRAIL FOR PLUS OR MINUS ALTITUDES.	PLUS		
IND. ALTITUDE	DISC SPEED	TRAIL		IND. ALTITUDE	DISC SPEED	TRAIL
12600	190.1	60		13600	182.1	60
11600	194.4	60		13500	178.5	60
11000	199.1	59		14000	175	61
10500	204.1	59		14500	171.8	61

PA - 130

IND. 12500	MAG. 321°	T. 60
TRUE. 12800	DRIFT 0	D.S. 181.4
E.A.S. 200	G.S. 218	D.A. 167
T.A.S. 246		

REMARKS

--

DESCRIPTION OF OBSERVATIONS OF FLYING EQUIPMENT

TIME	ALTITUDE	TYPE	REMARKS
1200	12000		
1100	11000		
1000	10000		
900	9000		
800	8000		
700	7000		
600	6000		
500	5000		
400	4000		
300	3000		
200	2000		
100	1000		

102
110
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199
200

WIND DIRECTION

I - DEPT

BOMBARDIER'S LOG

TARGET

DATE

Pressure Altitude of Target:	+109	Type of Release:	Train Ind. Salve
Altimeter Setting:	29.92	Interval:	
Ind. Alt. : 12400	True Alt. : 12500	Length of Run :	Time of Release:
Ground Speed :	Drift :		
Est. : 266	Act. : 6R	Mag. Head, Ordered :	091° Actual:
Ind. Air Sp. : 200	True Air Sp. : 246	Aircraft Number :	
	Est. : Act. :		
Tan. Dropping Angle :	83	Pilot :	
Disc Speed : 183.6	Trail : 60	Navigator :	
Sighting:	Toggled : Bombsight :	Bombardier :	

BOMBS AND FUELS

Types: Number: Nose : Tail :

260
255
249
244

LEFT			INTERPOLATE TANGENTS AND DRIFT FOR READING LEFT AND RIGHT OF ORDERED READINGS.	RIGHT			
READING	DRIFT	TANGENT		READING	DRIFT	TANGENT	
081	7R	.81		181°	5R	.84	270
891	7R	.80		199°	4R	.85	274
061	7R	.79		120°	3R	.85	275
659	8R	.78		136°	2R	.87	278
MINUS			INTERPOLATE DISC SPEEDS AND TRAIL FOR PLUS OR MINUS READINGS.	PLUS			
ALTITUDE	DISC SPEED	TRAIL		ALTITUDE	DISC SPEED	TRAIL	
500	187.6	60		500	179.9	60	
1000	191.8	60		1000	176.4	60	
1500	196.3	59		1500	173	61	
2000	201.1	59		2000	169.9	61	

REMARKS

DESCRIPTION OF INSTANCES OF BOARDING EQUIPMENT

		12000
		11000
		10000
		9000
		7000
		5000
		3000
		1000
HEIGHT	WIND DIRECTION & VELOCITY	TEMPERATURE

WIND DIRECTION

Target is approximately
10 L. 10.00
100.00
T.M. 10.00
T.M. 10.00
T.M. 10.00
D/S 183.6
D/A 66
GS 213

[illegible]

BOMBARDIER'S MISSION DATA			
BOX	FLIGHT	INDICATED ALTITUDE	BOMB LOAD TYPE
METEO DATA:		TEMPERATURES AT TARGET:	GROUND ALT
		WINDS ALOFT AT TARGET:	DEGREES
TARGET DATA:		PRIMARY	SECONDARY
1. TARGET			
2. INITIAL POINT			
3. MAG. READING FROM I.P. TO TARGET			
4. DISTANCE FROM I.P. TO TARGET			
5. TIME FROM I.P. TO TARGET			
BOMBING DATA:			
1. INTERVELOMETER SETTING			
2. PRESSURE ALTITUDE OF TARGET			
3. INDICATED BOMBING ALTITUDE			
4. TRUE ALTITUDE ABOVE TARGET			
5. INDICATED AIR SPEED			
6. TRUE AIR SPEED			
7. GROUND SPEED FOR BRIEFED HEADING			
SIGHT DATA:			
1. DISC SPEED			
2. TRAIL			
3. DRIFT ON BRIEFED HEADING			
4. TANGENT OF DROPPING ANGLE			
5. ACTUAL TIME OF FALL			

Boat L

4/14 1230

Set course at 1312 1/2

PILOT MAJ. NAPIER

NAVIG. TOR. MADENFORD

PLANE 912

MISSION THE BRIDGES???

DATE 7/14/44

START ENG 1245

TAKI OUT 1253

TAKE OFF 1259

ON COURSE 1318

RENDLEZVOUS 1440

COAST OUT

COAST IN

I. F.

TARGET

COAST OUT

ALT.

ETA

M. H.

DR

TH

VAR

MH

ALT.

TIME

CS

TO

FROM

POSITION

TO

Base

Wardrun

00 03W

00 23W

48 45 IP 00 12W

Target

49 17 00 03W

Wardrun

Wardrun

Base

ALTITUDE 12500

HEADING 90

AIR SPEED 115

TIME 1501

RESULTS

RELAYS

TO RUN

DIST.

TIME

ETA

19 1/2

1337

1410

1448

1450 1/2

1500

1511 1/2

1603 1/2

1619

CHALLENGE

REPLY

COLDS

VHF CHANNEL

BOATMAN C/S

FIGHTER C/S

BOATMAN TO BOATMAN FRQ.

FLIGHT RECORD

Base collected and 25 sec late over fuel on take off.

Scored

4000

5000

8000

10000

12000

15000

200/14

310/24

315/25

510/28

320/33

320/35

+18

+7

+4

+1

-1

-4

Target

Base

Wardrun

Wardrun

Base

Target

COAST OUT

COAST IN

Base

Target

COAST OUT

COAST IN

Base

Target

COAST OUT

COAST IN

Base

1336

1440

1448

1450 1/2

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172

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088

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6 1/2

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1. DISC SPEED		
2. TRAIL		
3. DRIFT ON RELEASED HEADING		
4. LAGTIME OF DRIFTING ANGLE		
5. ACQUISITION TIME OF BALL		

SIGHT DATA

1. INTERSECTION BEARING		
2. ASSUMED ALTITUDE OF TARGET		
3. INDICATED BOEING ALTITUDE		
4. TRUE ALTITUDE ABOVE TARGET		
5. INDICATED AIR SPEED		
6. TRUE AIR SPEED		
7. GROUND SPEED FOR RELEASED HEADING		

BOMBING DATA

1. TARGET		
2. INITIAL POINT		
3. MAG. HEADING FROM I.P. TO TARGET		
4. DISTANCE FROM I.P. TO TARGET		
5. TIME FROM I.P. TO TARGET		

TARGET DATA

PRIMARY

SECONDARY

WIND DATA

TEMPERATURES AT TARGET: GROUND ALTITUDE WINDS ALOFT AT TARGET: WITH FROM DIRECTION.

BOEWARDEER'S MISSION DATA

BOX FLIGHT INDICATED ALTITUDE BOMB LOAD TYPE

Ind. 12400 toward 60 Dir in front 183.6 D.K. 66

PILOT	
DUNN	
NAVIC. FOR	
ARRINGTON	
PLANE	
MISSION	
DATE	July 14 th 1944

START ENG	0929
FLY OUT	0935
FLY OFF	0943
ON COURSE	1003
RENDZVOUS	1000

COAST OUT	1231
COAST IN	1306
I.F.	
TARGET	
COAST OUT	1207
COAST IN	
TARGET	

ALTITUDE	
HEADING	
AIR SPEED	
TIME	
RESULTS	
TO RUN	
ETL	
REMARKS	

FROM	TO	M. H.	ETA	ATL	TC	DR	TH	VLR	MH	TIME	TIME	OS	DIST.	TIME	ETL	REMARKS
Base	Mindenhead	254			241	+3	244	10	254	5:00	17	190	62	19 1/2	0740 1/2	
	Peters Field	209			194	+5	199	10	209	8:00	24	228	37	10	0752 1/2	
	Worthing	129			117	+2	119	10	129	8:00	24	228	29	7	0800	
	48°17'N 00°03'W	189			173	+6	179	10	189	12:50	-2	190	105	26	0824	
	48°00'00'00'E	105			153	+3	156	9	165	12:50	-2	200	24	5 1/2	0831 1/2	
	48°52'N 00°03'E	140			135	-4	136	9	145				34 1/2	8	0838 1/2	
	48°48'N 01°02'E	145			135	+1	136	9	145				13	3	0841 1/2	
	TET	284			271	+4	275	9	284				18	5	0847 1/2	
	48°00'N 00°10'E	304			299	+1	300	9	309				32 1/2	9	0856 1/2	
	48°17'N 00°03'W	339			333	-3	330	9	339				24	6 1/2	0903	
	ST Cath. Rt.	335			328	-3 1/2	325	10	335	5:00	17	220	103 1/2	28	0931	
	Mindenhead	026			021	-5	016	10	026	5:00	17	210	71	18 1/2	0950	
	Base	067			060	-3	057	10	067	5:00	17	240	62	15 1/2	1006	DIVERSION AT 1000

2000	270/8	+17	TARGET	COAST OUT	COAST IN	BASE	TARGET ALT.
4000	5000 200/14	+7	COAST OUT	COAST IN	BASE	REND. ALT.	
6000	10000 200/24 300/14	+7	RENDZVOUS	COAST OUT	COAST IN	REND. ALT.	
8000	12000 200/24 300/14	-1	COAST OUT	COAST IN	BASE	TARGET ALT.	
10000			COAST IN	COAST IN	BASE		
12000			I.P.				

CHALLENGE	
REPLY	
COLORS	
VHF CHANNEL	
BOOMER O/S	
FIGHTER O/S	
BOOMER TO BOOMER FREQ.	

FLIGHT RECORD

BOMBARDIER'S MISSION DATA

BOX _____ FLIGHT _____ INDICATED ALTITUDE _____ BOMB LOAD _____ TYPE _____

METRO DATA:

TEMPERATURES AT TARGET: GROUND _____ ALT _____ MEAN _____

WINDS ALOFT AT TARGET: _____ MPH FROM _____ DEGREES.

TARGET DATA:

PRIMARY

SECONDARY

1. TARGET	PRIMARY	SECONDARY
2. INITIAL POINT		
3. MAG. READING FROM I.P. TO TARGET		
4. DISTANCE FROM I.P. TO TARGET		
5. TIME FROM I.P. TO TARGET		

BOMBING DATA:

1. INTERVELOMETER SETTING		
2. PRESSURE ALTITUDE OF TARGET		
3. INDICATED BOMBING ALTITUDE		
4. TRUE ALTITUDE ABOVE TARGET		
5. INDICATED AIR SPEED		
6. TRUE AIR SPEED		
7. GROUND SPEED FOR BRIEFED HEADING		

SIGHT DATA:

1. DIBS SPEED		
2. TRAIL		
3. DRIFT ON BRIEFED HEADING		
4. TANGENT OF DROPPING ANGLE		
5. ACTUAL TIME OF FALL		

BOMBARDIER'S MISSION DATA

BOX FLIGHT INDICATED ALTITUDE BOMB LOAD TYPE METRO DATA:TEMPERATURES AT TARGET: GROUND ALOFT MEAN WINDS ALOFT AT TARGET: MPH FROM DIRECTION TARGET DATA:PRIMARYSECONDARY

1. TARGET		
2. INITIAL POINT		
3. MAG. READING FROM I.P. TO TARGET		
4. DISTANCE FROM I.P. TO TARGET		
5. TIME FROM I.P. TO TARGET		

BOMBING DATA:

1. INTERVELOMETER SETTING		
2. PRESSURE ALTITUDE OF TARGET		
3. INDICATED BOMBING ALTITUDE		
4. TRUE ALTITUDE ABOVE TARGET		
5. INDICATED AIR SPEED		
6. TRUE AIR SPEED		
7. GROUND SPEED FOR BRIEFED HEADING		

SIGHT DATA:

1. DISC SPEED		
2. TRAIL		
3. DRIFT ON BRIEFED HEADING		
4. TANGENT OF DROPPING ANGLE		
5. ACTUAL TIME OF FALL		

Box #	Opsfl	Date	F/O	Target	Alt.	Box Leader	T/O	15 min.
I		18 JUL 44		AR BRIDGE BOATH		DUNN	TOT L/D	
A/C	Fail to Bomb	ATT	Bomb	Disp	A/C Dam	E/A	Pers.	
Pers No.	Reason	P	S	O	F	S	J	T
714			6					
712			6					
701			4					
943			6					
202			4					
743			4					
363			4					
937			6					
951			6					
220			4					
900			6					
214			6					
221			4					
219			4					
956			4					
201	Not Airborne							

①

914
Dunn

③ 701
Fanner
712
Hogan

② 943
DeMun

202
Bouscamp

743
Smith

900
Bellman

937
Dulan

951
Henderson

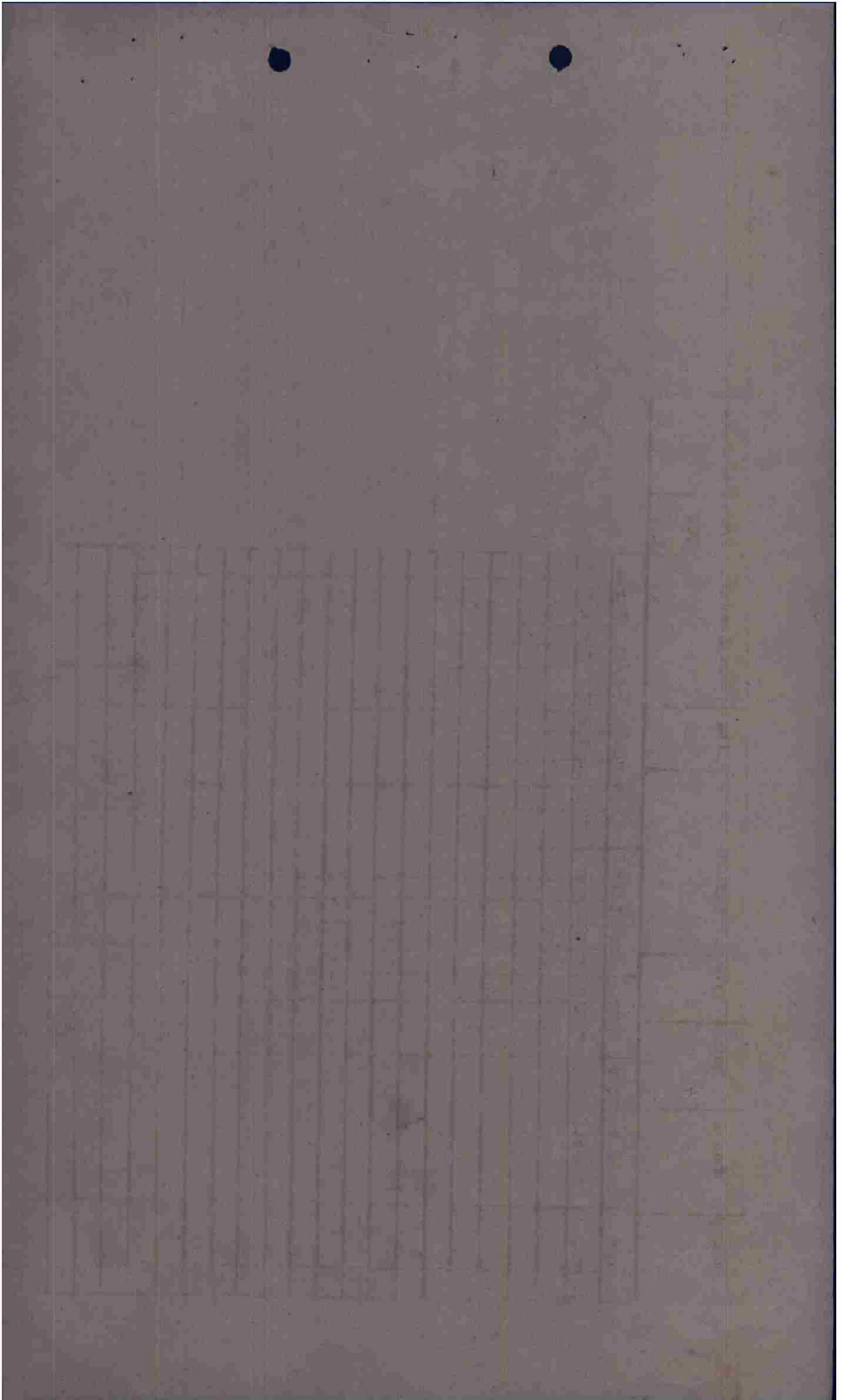
④

214
Grunby

219
York

221
Herman

956
Withington



Box #	Qbspl	Date	F/O	Target	Alt.	Box Leader	T/O	15 min.
II						OSBORNE	TOT	
							L/D	
A/C	Fail to Bomb	ATT	Bomb Iisp	A/C Dam	E/A	Pers.		
Exp. No.	Reason	P S O	T S J F R	M D A C B E D	P D K W M			
640			4					
058			6					
226								
907			6					
764			5					
935			6					
362			4					
819			4					
176			5					
195			4					
975			6					
211			6					
207			4					
200			4					
689			4					

OSBORNE

MEREDITH JACKSON

BARTMUS

SVENSON MISH

WELSH

COLQUITT KENNY

LESHER

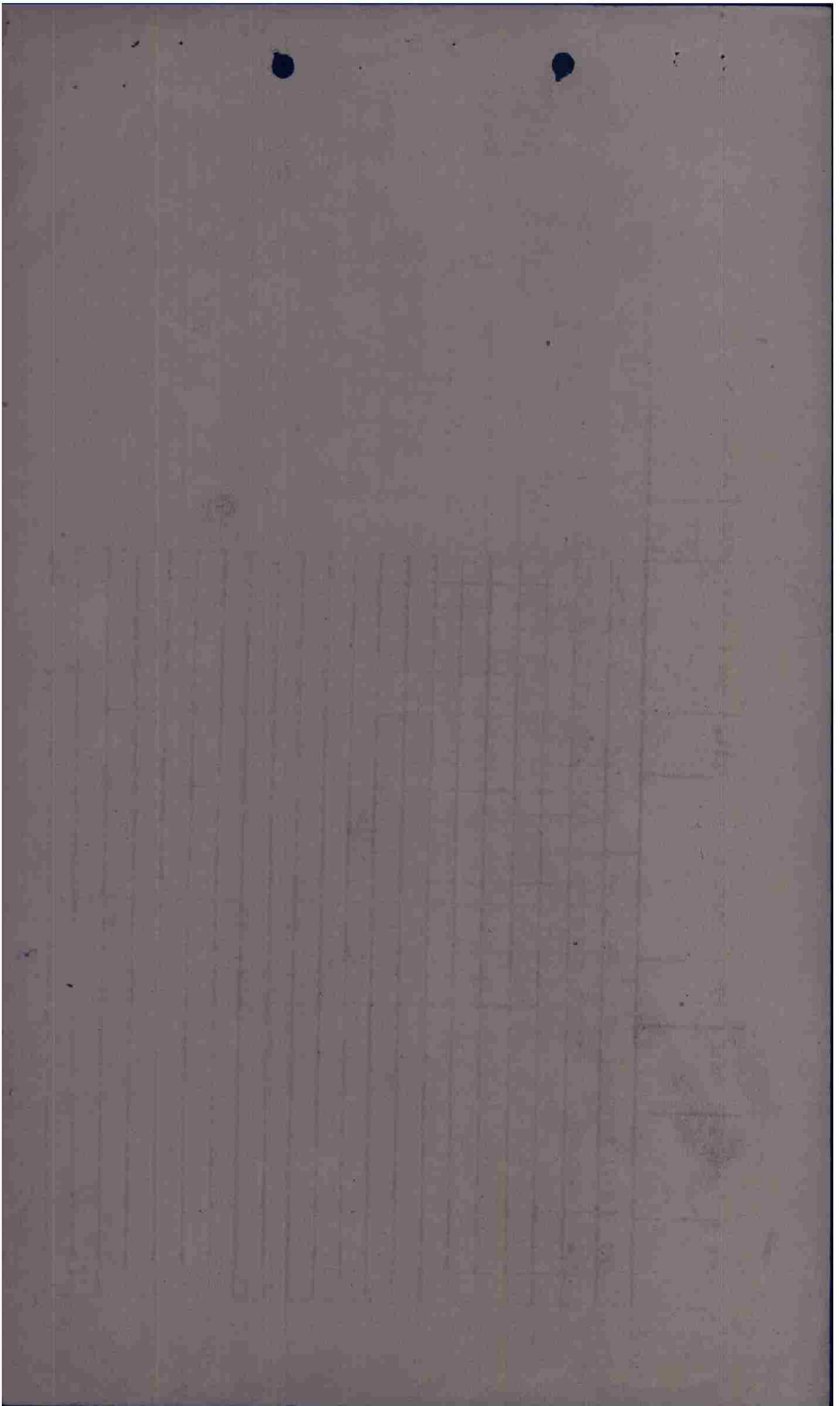
GREENE

BROWN HAROLD

ATKINSON

UP 1259

DOWN 1638



MISSION # 98

