

R E P O R T O F O P E R A T I O N A L
D A Y

WSP
DE

MISSION No. **249**

Date: **15 APR. 45**

TO: **ROYAN , FRANCE**

T A B L E O F C O N T E N T S

I. MISSION SUMMARY REPORT

- A. Narrative of Mission (with Supplementary Data)
- B. Formation Sheets (On Takeoff and over Target)
- C. Lead Navigators Narrative.
- D. Lead Navigators Log.
- E. Track Chart.

II. STATISTICAL SUMMARY OF OPERATIONS

- A. Statistics of Units Participating.
- B. Statistics of Bombing Run (WDAG Form 12E Modified)
- C. Communications Report.
 - (1) Navigational Aids Used.
 - (2) Equipment Failures.
- D. Flak Report.

401ST BOMBARDMENT GROUP (H)

R E P O R T O F O P E R A T I O N A L
D A Y

MISSION SUMMARY REPORT

MISSION # 249

Date 15 April 1945

ASSIGNMENT

1. Assigned Target: ROYAN, FRANCE (Gun Emplacements)
2. Commitments: The 401st Group furnished the complete 36 A/C 94th "A" Group. Two PFF were included in the lead squadron, one PFF-GH A/C in the low and one PFF and a PFF-GH A/C in the high. A spare accompanied both lead and high squadron.

EXECUTION

1. Target Bombed: ROYAN, FRANCE (Tgt # 19)
2. a. Task Force & GP Leader: Lt. Col. B. K. VOORHEES (Riegler)
 - Lead Navigator: Capt. A. SHAPIRO (Perterson-MO)
 - Extra Navigator: 2nd Lt. E. F. VERCELLI (GH)
 - Lead Bombardier: Capt. H. M. MEADVILLE
 - Low Section Leader: Lt. Col. E. T. DEJONCKHEERE (Ashenbach)
 - Low Section Bombardier: 1st Lt. A. FOLKERTS
- b. Low Sqdn Leader: Major J. R. LOCHER (Hart)
 - Lead Navigator: 2nd Lt. M. H. ANDREWS (Eaton-MO)
 - Lead Bombardier: 1st Lt. G. W. PEEK
 - Low Section Leader: 1st Lt. W. S. KNOWLES
 - Low Section Bombardier: 1st Lt. W. G. KOSTOENI
- c. High Sqdn Leader: 1st Lt. E. A. POST
 - Lead Navigator: 1st Lt. C. TARR (Jenkins-MO)
 - Lead Bombardier: 1st Lt. F. CONWAY
 - Low Section Leader: 1st Lt. K. D. SPEER
 - Low Section Bombardier: 1st Lt. M. L. MOORE

MISSION SUMMARY REPORT (Cont)

3. Flight Over England:

a. Takeoff:

Take off was made without trouble and without delay - all scheduled ships got off.

b. Squadron and Group Assemblies:

Assembly was made on continent and was rather slow - ships flew around until about ten minutes before departure before getting in formation. Left A-58 buncher with all squadrons complete plus two spares.

4. Attack:

a. Flight to Target:

We made control point one on time and on course; circled Orbit Point to the right for one hour - circled IP for forty five minutes, then split up into sections and bombed. The 437th bombed first, then 351st and then the 401st. The Wing leader (401st) bombed last as he passed instructions to others. We circled IP to let 351st bomb before us, then fell in trail. The bombing order was low section of high squadron, lead section high squadron, low section of low squadron, lead section low squadron, lead squadron low section, and lead section lead squadron.

b. Bombing Run:

Our group circled the orbiting point, as briefed, for about an hour and 45 minutes. We were then assigned to a target. We split up into 6 six-ship sections and made the IP good, while in this trail formation. The 1st section to bomb picked up the wrong MPI and bombed about 7000' over and left of the assigned target. The second section did a 360° turn just after the IP and eventually came in 4th and hit about 1500' to the right. This section bombed manually because of C-1 trouble but all others used the AFCE. The last 4 section had good bomb runs with excellent results. The weather was clear with good visibility, enabling the bombardiers to see the area from a good distance, but the MPI was so indistinguishable from the sand on the beach that in most cases the MPI was seen only 20 or 30 seconds before bombs away. All ships salvoed.

c. Flight from Target:

The entire wing came home in six ship sections following the briefed course as close as possible. Let down was made to 8000' coming off target. Control Point Two was passed 88 minutes late.

d. Return to Base:

The group hit the English coast on course, 75 minutes late and at 4000'. Let down to 2500' due to 6/10ths low cloud and followed briefed course to base. All ships landed safely at home base.

MISSION SUMMARY REPORT (Cont)

4. e. Weather:

Weather was CAVU over target and on return.

f. Fighter Support:

No fighter support was scheduled.

g. Comments on Formation and Interval:

Formation was very good. Interval was little too much but this was probably due to tail end sections going in first.

h. Conclusions and Recommendations:

Bombing results were good. The lead pilot wouldn't recommend using this type system again unless lead sections make first run to target. Not the tail end sections as briefed for this mission.

5. Aircraft Not Attacking:

All scheduled A/C (plus 2 spares) attacked.

6. Enemy Opposition:

No enemy air opposition seen nor flak encountered;
(see Flak Report)

7. Battle Damage:

None.

8. Casualties:

None.

9. Statistical Summary of Operations: (see attached form)

10. Bombing Data:

a. Observations:

Four of the sections' bombfall were excellent- having 100% within 1000' of the MPI. Two were poor- one having a gross error, the other selecting a wrong aiming point.

MISSION SUMMARY REPORT (Concl'd)

10. b. Disposition of Bombs:

Lead Squadron: Thirteen A/C (incl spare) attacked the target, dropping 12 X 1000# RDX and 14 X 1000# GP and 26 X 2000# GP bombs.

Low Squadron: Twelve A/C attacked the target, dropping 2 X 1000# RDX, 22 X 1000# GP and 24 X 2000# GP bombs.

High Squadron: Thirteen A/C (incl spare) attacked the target, dropping 20 X 1000# RDX, 6 X 1000# GP and 26 X 2000# GP bombs.

c. Tabular Summary of Disposition of Bombs:

	Aircraft		Bombs				
	Over Target	Bomb- ing	Num- ber	Size	Type	Fusing	
						Nose	Tail
Main Bombfall	38	38	42	1000#	GP	1/10	1/40
			34	1000#	RDX	1/10	1/40
			76	2000#	GP	1/10	1/40
Other Attacks	-	-	-	-	-	-	-
Total Bombs on Target			42	1000#	GP	1/10	1/40
			34	1000#	RDX	1/10	1/40
			76	2000#	GP	1/10	1/40
Other Expenditures	-	-	-	-	-	-	-
Bombs Returned			-	-	-	-	-
			42	1000#	GP	1/10	1/40
			34	1000#	RDX	1/10	1/40
Total (loaded on A/C taking Off)			76	2000#	GP	1/10	1/40

11. Lost Aircraft: None.

Submitted by:

KEN W. DAUBLE
 Captain, Air Corps
 Statistical Officer

94th A, B, and C will bomb by six ship flights. Woodcraft able leader will assign the flights to bomb upon receiving instructions from LONGFELLOW as to which target and the amount of flights needed. It is imperative that lead bombardiers of the B force familiarize themselves with all nine targets so they may bomb any target assigned by WOODCRAFT ABLE.. LONGFELLOW will arrive at the I.P. 10 minutes before Woodcraft Able on 1st A.D. common B channel and give ~~out~~ directions on this channel. Woodcraft able will inturn direct his units to bomb, using common 94th Wing A channel. Woodcraft able will have a deputy standing by on B channel at all times.

The 36 A/C GROUP WILL BE MADE UP OF 6 SECTIONS OF 6 A/C EACH THE LEAD AND HIGH FLIGHT OF EACH SQUADRON WILL COMPOSE ONE SECTION AND THE ~~LOW~~ TWO LOW FLIGHTS WILL COMPOSE THE OTHER SECTION, GROUPS WILL NUMBER SECTIONS AS FOLLOWS:

- LEAD SQUADRON - LEAD SECTION (LD AND HIGH FLTS) 1 ~~and 2~~
- LOW SECTION 2
- LOW SQUADRON LEAD SECTION (LD AND HIGH FLTS) 3
- LOW SECTION 4
- HIGH SQUADRON LEAD SECTION (LD AND HIGH FLTS) 5
- LOW SECTION 6

B FORCE WILL REFER TO THEIR SIX SHIP ~~XXXXXXXXXX~~ SECTIONS IN THE FOLLOWING MANNER: FOR EXAMPLE 94 A - WOODCRAFT ABLE 1,2,3,4,5,6.

WOODCRAFT ABLE 1 WILL BE THE LAST SECTION TO BOMB OF THE B FORCE.

SECOND RUNS ARE AUTHORIZED FOR B FORCE ^{indefinitely} UNLESS THEY ARE TOLD TO CEASE BOMBING BY LONGFELLOW.

EACH SECTION BOMBARDIER MAY BE CALLED UPON TO BOMB ANY ONE OF THE NINE ASSIGNED TARGETS.

WOODCRAFT ABLE LEADER WILL MONITOR B CHANNEL VHF EXCEPT WHEN GIVING INSTRUCTIONS TO BOMB OVER CHANNEL A. ALL SECTIONS LEADERS WILL MONITOR CHANNEL A FROM 10 MINUTES BEFORE THE ORBITING POINT UNTIL AFTER BOMBING AT WHICH TIME THEY MAY REVERT TO THEIR NORMAL CHANNEL GUARD.

WOODCRAFT ABLE LEADER WILL GIVE INSTRUCTIONS ON A CHANNEL VHF. A FTER LEAVING THE ASSEMBLY BUNCHER RADIO SILENCE WILL BE MAINTAINED ON VHF CHANNEL A BY ALL A/C EXCEPT FOR INSTRUCTIONS GIVEN BY WOODCRAFT ABLE LEADER AND ACKNOWLEDGEMENT OF INSTRUCTIONS BY SECTION LEADERS

LEADERS WILL COORDINATE ANY CHANGE IN ASSEMBLY ALTITUDE WITH WOODCRAFT A ABLE LEADER.

NORMAL GROUP ASSEMBLY AND FORMATION WILL BE MAINTAINED UNTIL WOODCRAFT ABLE LEADER DISPATCHES SECTIONS TO TARGETS. SECTIONS WILL PROCEED FROM ORBITING POINT TO I.P. AND TARGET AS DIRECTED AND MAY RETURN TO BASE INDIVIDUALLY AFTER BOMBING..

ORBITING WILL BE TO THE RIGHT. SECTIONS WILL LEAVE THE ORBIT AND PROCEED TO THE I. P. INDIVIDUALLY IN THE ORDER AS INSTRUCTED BY WOODCRAFT ABLE LEADER.

AIR COMMANDERS WILL GIVE OUT WINDS BEFORE THE I.P.

THE LEAD A/C OF EACH SIX SHIP SECTION WILL, IF CALLED UPON TO BOMB, SEND A W/T MESSAGE TO 7 MT CONSISTING ~~KN~~ OF THE TARGET NUMBER (i.e. 32,17,19,18,24,29,26,27, or 28) AND THE STRIKE RESULT USING THE SOP REPORTING PROCEDURE. CONTROL POINT MESSAGES WILL BE SENT ONLY BY RESPECTIVE GROUP LEADERS

LONGFELLOW WILL REFER TO TARGETS BY THEIR NUMBER 1.e. 32,17,18,24, etc.



SCOUTING FORCE OF P-51 A/C C/S BUCKEYE BLUE WILL SCOUT ROUTE AND XXXX
TARGET WEATHER FOR COWBOY ABLE AS PER EXISTING S.O.P. TARGET CODE
FOR ALL 1st A.D. TARGETS Z-ZED

group LEADERS ARE CAUTIONED TO AVOID THE ISLES OF GUERNSEY AND JERSEY
BECAUSE THEY ARE STILL HEAVILY DEFENDED BY ENEMY "ACK ACK" BATTERIES.

94TH K SCOUTING A/C PARTNERSHIP SUGAR WILL BE FURNISHED BY THE
351ST GP AND WILL BE FLOWN BY GEN. LACY.

A STRIPPED DOWN B 17 C/S GOOSEY G GEORGE WITH A SUPER IMPOSED
K INSIDE A YELLOW TRIANGLE ON THE TAIL WILL BE TAKING PICTURES
OF THE FORMATION ALONG THE ROUTE AND IN THE TARGET AREA.

A STRIPPED DOWN B 17 COMMAND SCOUT C/S SWORNFISH SCOUT WITH A SUPER
IMPOSED L INSIDE A RED TRIANGLE ON TAIL WILL BE SCOUTING ROUTE
AND TARGET FOR SWORNFISH ABLE.

~~XX~~

JETTISON POSITION IN CASE OF EMERGENCY IS POINT B. IF THE
NECESSITY ARISES TO JETTISON BOMBS IN THE SEA NEAR THE TARGET AREA
CREWS ARE CAUTIONED TO KEEP A SHARP LOOKOUT FOR FRENCH WARSHIPS
THAT WILL BE STANDING OFF SHORE FROM THE TARGETS.

1
2
3
4
5
6

B FORCE WILL REFER TO THEIR SIX SHIP XXXXXXXXXXXX SECTIONS IN THE FOLLOWING
MANNER: FOR EXAMPLE 94 A - WOODCRAFT ABLE 1, 2, 3, 4, 5, 6.

WOODCRAFT ABLE 1 WILL BE THE LAST SECTION TO BOMB OF THE B FORCE.
SECOND RUNS ARE AUTHORIZED FOR B FORCE UNLESS THEY ARE TOLD TO CEASE
BOMBING BY LONGFELLOW.

EACH SECTION BOMBARDEER MAY BE CALLED UPON TO BOMB ANY ONE OF THE
NINE ASSIGNED TARGETS.

WOODCRAFT ABLE LEADER WILL MONITOR B CHANNEL VHF EXCEPT WHEN GIVING
INSTRUCTIONS TO BOMB OVER CHANNEL A. ALL SECTIONS LEADERS WILL
MONITOR CHANNEL A FROM 10 MINUTES BEFORE THE ORBITING POINT UNTIL
AFTER BOMBING AT WHICH TIME THEY MAY REVERT TO THEIR NORMAL CHANNEL
GUARD.

WOODCRAFT ABLE LEADER WILL GIVE INSTRUCTIONS ON A CHANNEL VHF. AFTER
LEAVING THE ASSEMBLY BOMBER RADIO SILENCE WILL BE MAINTAINED ON VHF
CHANNEL A BY ALL A/C EXCEPT FOR INSTRUCTIONS GIVEN BY WOODCRAFT ABLE
LEADER AND ACKNOWLEDGMENT OF INSTRUCTIONS BY SECTION LEADERS

LEADERS WILL COORDINATE ANY CHANGE IN ASSEMBLY ALTITUDE WITH WOODCRAFT A
ABLE LEADER.

NORMAL GROUP ASSEMBLY AND FORMATION WILL BE MAINTAINED UNTIL WOODCRAFT
ABLE LEADER DISPATCHES SECTIONS TO TARGETS. SECTIONS WILL PROCEED
FROM ORBITING POINT TO I.P. AND TARGET AS DIRECTED AND MAY RETURN TO
BASE INDIVIDUALLY AFTER BOMBING.

ORBITING WILL BE TO THE RIGHT. SECTIONS WILL LEAVE THE ORBIT AND PROCEED
TO THE I. P. INDIVIDUALLY IN THE ORDER AS INSTRUCTED BY WOODCRAFT ABLE
LEADER.

AIR COMMANDERS WILL GIVE OUT WINDS BEFORE THE I.P.

THE LEAD A/C OF EACH SIX SHIP SECTION WILL, IF CALLED UPON TO BOMB,
SEND A WT MESSAGE TO VMT CONSISTING OF THE TARGET NUMBER (1.e.g.
32, 14, 18, 24, 28, 27, or 28) AND THE STRIKE RESULT USING THE SOP
REPORTING PROCEDURE. CONTROL POINT MESSAGES WILL BE SENT ONLY BY RESPECTIVE
GROUP LEADERS

TOP SECRETION WITH REFERENCE TO TARGETS TO BE LAUNCHED BY THESE MEMBERS I.e. 23, 18, 19, 24, 27, etc.

DIV. C.O. _____ WING C.O. _____

GROUP C.O. _____ SMOKE SCREEN _____

P/W CAMP _____ SCREEN FORCE _____

RELAY & COMMUNICATIONS _____

GROUP INHERENT _____

EVASION & S.O.P. _____

SPECIAL INSTRUCTIONS *Special Bombing Instructions - If targets cannot be bombed visually, bombs will be returned to base. Only in case of emergency will bombs be jettisoned.*

Group's Note

A Stopped down B-7 of Group G - Gorge with

ROUTE OVER CONTINENT-----

a. A super imposed K inside a yellow triangle on tail will be taking photos of formation along route and in target area.

A Stopped down B-7 Command Scout C/S Swordfish sent with a super imposed L inside a red triangle on tail will be scouting route and target for S/able.

Group A Stopped down Black B-7 C/S Partnership Super with a super imposed J in a white triangle on tail will be acting as low marker and Duster A/C for G-4 crew flown by Gen Hacey.

Jettison position in case of emergency is Point B located 1000-008W. If the necessity arises to jettison bombs in the area near the target area, crews are cautioned to keep sharp look out for French Warships that will be standing off shore from the target.

Group leaders are cautioned to avoid the Isles of Jersey and Guernsey because they are still heavily defended by A/S Battalions.

Combat Sq. Leader: LT POST Date: 15 Apr 45

Deputy Sq. Leader: LT SPEER

Deputy Gp. Leader: LT COL DE JONCKHEERE

- 612 SC JAWOCK
- 613 IN MACRO
- 614 IW GOLFCLUB
- 615 IY BUZZARD

At takeoff, on cruise
and over target

POST
653 PFF

SHORT
425

SALISBURY
677

SPEER
545

AYRE
931

GIBSON
602

GRAY
780

STEINMAN
478

CAMERON
646

SORENSEN
791

YRANGAN
077

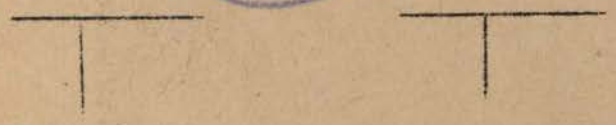
VIEBMAN
322

HIGH SQDN 94 A GP
over target

SPARES
JAMES
012

SPARE LEADS:

GROUND SPARES:



Combat Sq. Leader: MAJOR LOCHER Date: 15 Apr 45

Deputy Sq. Leader: LT KNOWLES

Deputy Gp. Leader: LT COL DE JONCKHEERE

- 612 SC JAWOCK
- 613 IN MACRO
- 614 IW GOLFCLUB
- 615 IY BUZZARD

At takeoff, on cruise
and over target

HART (LOCHER)

812 PFF

REYNOLDS

891

SMITH

637

KNOWLES

941

STEPHENS

118

GLENNONS

628

GILLER

541

MULVHILL

506

HOLT

992

HOWARD

662

GUY

664

HARVESON

393

LOW SQDN 94 "A" GP

SPARES

SPARE LEADS:

GROUND SPARES:

Combat Sq. Leader: LT COL VOORHEES Date: 15 Apr 45

Deputy Sq. Leader: LT COLE

Deputy Gp. Leader: LT COL DE JONCKHEERE

- 612 SC JABWOCK
- 613 IN MACRO
- 614 IW GOLFCUB
- 615 IY BUZZARD

Formation at takeoff,
 on cruise and over target

RIEGLER (VOORHEES)

449 PFF

MAHARICK

COLE

160

148

ASCHENBACH (DE JONCKHEERE)

SMITH

648

132

SNYDER

BERNBURG

LOVELACE

KING

072

947

862

588

MAY

125

LEVY

FORD

LEAD SQDN 94 A GP

767

842

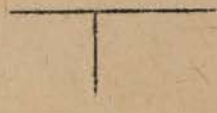
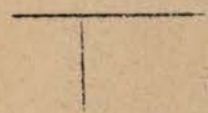
SPARES

SPARE LEADS:

TRUPI

146

GROUND SPARES:



HEADQUARTERS
FOUR HUNDRED FIRST BOMBARDMENT GROUP (H)
Office of the Navigation Officer

Lead

Date: 15 April 1945

SUBJECT: Lead Navigator's Narrative of Raid on Boyer, France
TO : Commanding Officer, 401st Bombardment Group (H), A-0 557,
U. S. Army.

1. Flight plan and Log attached.
2. Track chart attached.
3. Narrative:
 - a. T/O at 0710 hours.
 - b. Group formed at 0750 hours on A-50 buncher.
at 12,000 ft.
 - c. Wing assembly was completed at 0820 hours at A-50.
 - d. Route over England was (~~not~~) flown as briefed.

e. Methods of navigation over England.

Cec, 777, D.R., Pilotage

- f. Division formation was joined at 1019 hrs. at 12-270 02-102.
- g. Flight to I. P. was (~~not~~) as briefed.

h. Methods of navigation to the I. P.

D.R., Cec, Pilotage, 777

i. Bomb run.

(1) Actual I. P. was (~~not~~) as briefed.

- (2) True heading over target 270
- (3) Actual drift 22
- (4) Altitude over target 15200
- (5) Time bombs away 1322
- (6) Wind used for bombing 370/05
- (7) Method of target identification.

2nd Section

277
32

1322

Visual

(8) Difficulties on bomb run.

None

(9) Weather over Target.

CAVU

(10) Axis of withdrawal 283

- j. Group rally was accomplished at _____ at _____ hrs.
- k. Wing rally was accomplished at _____ at _____ hrs.
- l. Division rally was accomplished at _____ at _____ hrs.
- m. Flight home was ~~(not)~~ as briefed.

n. Methods of navigation on return route.

FFF, D.R., Pilotage

- o. Winds aloft were ~~(not)~~ called out to the formation.
- p. Fighter rendezvous were (not) as briefed.

q. Performance of equipment.

- (1) Mickey
- (2) Gee
- (3) Radio Compass
- (4) Fluxgate
- (5) Other equipment.

/s/ Aaron Shapiro
AARON SHAPIRO
Capt., A. C.

Lead Navigator, Lead Sq.

~~HEADQUARTERS~~
FOUR HUNDRED FIRST BOMBARDMENT GROUP (H)
Office of the Navigation Officer

Date 15 April 1945

SUBJECT: Lead Navigator's Narrative of Raid on Royan, France
TO : Commanding Officer, 401st Bombardment Group (H), APO 557,
U. S. Army.

1. Flight plan and Log attached.
2. Track chart attached.
3. Narrative:

- a. T/O at 0716 hours.
- b. Group formed at 0950 hours on _____ buncher.
at 12,000 ft. A-58
- c. Wing assembly was completed at _____ hours at _____.
- d. Route over England was (not) flown as briefed. A-58

e. Methods of navigation over England.

Geo. Pilotage, D.R., FTF

- f. Division formation was joined at _____ hrs. at _____.
- g. Flight to I.P. was (not) as briefed. 1319 13-271 02-205

h. Methods of navigation to the I. P.

Geo. Pilotage, D.R., FTF

i. Bomb run.

(1) Actual I. P. was (not) as briefed.

- (2) True heading over target 275
- (3) Actual drift 3L
- (4) Altitude over target 12,400
- (5) Time bombs away 1321
- (6) Wind used for bombing 061/40
- (7) Method of target identification.

2nd section
264
3L
1319

Visual

(8) Difficulties on bomb run.

~~none~~

(9) Weather over Target.

~~CAVU~~

(10) Axis of withdrawal _____ ~~272~~ _____.

- j. Group rally was accomplished at _____ at _____ hrs.
- k. Wing rally was accomplished at _____ at _____ hrs.
- l. Division rally was accomplished at _____ at _____ hrs.
- m. Flight home was (not) as briefed. ~~xxxx~~

n. Methods of navigation on return route.

~~PFF, Gee, D.R., Pilotage~~

- o. Winds aloft were (not) called out to the formation.
- p. Fighter rendezvous were ~~xxxx~~ (not) as briefed. ~~-----~~

q. Performance of equipment.

- (1) Mickey
- (2) Gee ~~OK~~
- (3) Radio Compass ~~OK~~
- (4) Fluxgate ~~OK~~
- (5) Other equipment. ~~OK~~

 /s/ M. H. Andrews
M. H. ANDREWS
1st Lt., A.C.

 Lead Navigator. 1st Sq.

~~HEADQUARTERS~~
FOUR HUNDRED FIRST BOMBARDMENT GROUP (H) **High**
Office of the Navigation Officer

Date: 15 April 1945

SUBJECT: Lead Navigator's Narrative of Raid on Rozen, France

TO : Commanding Officer, 401st Bombardment Group (H), APO 557,
U. S. Army.

- 1. Flight plan and Log attached.
- 2. Track chart attached.
- 3. Narrative:

- a. T/O at 0711 hours.
- b. Group formed at 0950 hours on A-58 buncher.
at 12000 ft.
- c. Wing assembly was completed at 0950 hours at A-58.
- d. Route over England was ~~(not)~~ flown as briefed.

e. Methods of navigation over England.
Gee, Pilotage, D.R.

- f. Division formation was joined at 1010 hrs. at 18-27N 02-10E.
- g. Flight to I.P. was ~~(not)~~ as briefed.

h. Methods of navigation to the I. P.
Gee, Pilotage, D.R., Mickey, Radio

- 1. Bomb run.
- (1) Actual I. P. was ~~(not)~~ as briefed.

2nd Section

- (2) True heading over target 267 . **270**
- (3) Actual drift 21 . **21**
- (4) Altitude over target 15500 .
- (5) Time bombs away 1327 . **1318**
- (6) Wind used for bombing 350/030 .
- (7) Method of target identification.

Pilotage

(8) Difficulties on bomb run.

propwash forced us to make a 360°.

(9) Weather over Target.

CAVU

(10) Axis of withdrawal 291 _____.

j. Group rally was accomplished at _____ at _____ hrs.

k. Wing rally was accomplished at _____ at _____ hrs.

l. Division rally was accomplished at _____ at _____ hrs.

m. Flight home was (not) as briefed.

n. Methods of navigation on return route.

Gee, Mickey, D.R., Pilotage, Radio

o. Winds aloft were (not) called out to the formation.

p. Fighter rendezvous were (not) as briefed.

q. Performance of equipment.

- (1) Mickey
- (2) Gee
- (3) Radio Compass
- (4) Fluxgate
- (5) Other equipment.

/s/ Charles Tarr Jr.
CHARLES TARR, JR.
1st Lt., A. C.

Lead Navigator, High Sq.

FLIGHT RECORD

TIME	COURSE	W/V USED &/OR D.R. DRIF.	TRUE HDNC.	MAC. HDNC.	NAVIGATIONAL OBSERVATION	GENERAL OBSERVATION	IAS. MPH. /K	HEIGHT & AIR TEMP.	T.A.S.	RUN		C. S.	TO RUN		E.T.A.
										DIST.	TIME		DIST.	TIME	
0813½			175		Eng. coast 50-52N 00-35E		150	12000							
0813½			155		50-47N 00-43E		150	12000	157			159	57	21½	0835
0821	250/19 00c				50-35N 00-58E					22	07½	176	35	12	0833
0823			160				150	12000							
0833½			160		50-04N 01-23E. French Coast			12000				162	97	36	0909½
0833½			150												
0845			150		49-41N 02-00E		150		157						
0852			150		49-25N 02-15E. Buncher CR				157						
0858	255/16 AP				49-12N 02-33E		150	12000		36½	13	168	28	10	0908
0907½			150		Buncher 48-50N 03-00E		150	12000							
0950					Buncher. Group Formed		150	12000							
0952	270	255/16	269		Leave Buncher. Wing formation							144	27	11	1003
1003	266	A3	269												
1003	197	A5	202		48-50N 02-20E		150	12000				159	57	21½	1024½
1010	300/14 AP		202		Drift on two headings		150								
1013			202		48-29N 02-10E Division										
1015			202		48-29N 02-08E 12X		150	12000							
1017½			202									159	20	7½	1024½
1024½			202		CP 1, on course, 1½' early		150	12000							
1024½			213		start climbing		150	12000				(163)	85	31½	1056
1032			213		47-40N 01-43E		145	13500							
1041	10/15		213		47-17N 01-22E		150	15000	(166)						
1041			210					-9							
1050			210		46-53N 01-03E. P.P.		150	15000	166	28	9	187	13	04	1054
1054			210		46-40N 00-54E. P.P.							187	68	22	1116
1101	001/8		210		46-29N 00-41E. P.P.		150	15000		31	11	168	50	18	1119
1102			205												
1118			205		orbit point. start circle		150	15000	166						
1220					Going to IP to try to contact Longfellow										
1220			225		on course to IP		150	15000	166			171	18	06½	1226½
1225½	-3		222		Circling IP										
1230	100/11				Wind by drift on two headings										
1308			275		IP		150	15000				166	43	14½	1322½
1322	268	A2	270	280	EGRES AWAY. Boyan area 45-31N 01-08E		150	15200							
1326					Circling target area										
1326	350/5		283		Leaving target area		153	14000							
1332			283		D.S. 45-30N 01-40E										
1332			254				150	14000				166	50	18	1350
1336			352		45-46N 01-43E		150	13500							
1352			352		46-30N 01-47E		160	10500				(153)	91	35½	1427½
1352			005				160	10000							
1403			005		47-04N 01-47E		160	8000							
1405			010				150	8000	149			144	60	25	1430

FLIGHT RECORD

TIME	COURSE	W/V USED &/OR D.R. DRIF.	TRUE HDNG.	MAG. HDNG.	NAVICATIONAL OBSERVATION	GENERAL OBSERVATION	IAS. MPH. /K	HEIGHT & AIR TEMP.	T. A. S.	RUN		C. S.	TO RUN		E. T. A.
										DIST.	TIME		DIST.	TIME	
1407			010		47-13N 01-43W		150	8000							
1419	06	173/21	010		47-45N 01-35W		(153)	8000	152	34	12	170	151	051	14241
1420			007												Base 1690
1424	006		007		CP 2, on course		(153)					170	101	351	1500
1434	006		007		48-26N 01-28W		152			25	10	150	76	301	15041
1438			007		mont St. Michael		153	8000							
1450			007		49-09N 01-17W		156	7500		441	16	167	31	11	1501
1451			005				154	7600							
1458			005		49-36N 01-12W		155	7500							
1458			330				155	7500	154			173	64	22	1520
1502			330		49-40N 01-15W. French Coast		168	6500							
1510			330		D.R. 50-01N 01-31W Base wind 111/125°		(165)	(5500)	(157)			(176)			
1512			50-06N 01-37W				153	4000		301	10	183	30	10	1522
1524			333		50-35N 01-57W. Eng. Coast										
1524			001				155	6500				142	126	53	1617
1533			025				150	2500							
1539					51-11N 01-35W		155	2500		301	15	154	871	34	1611
1551			025		51-37N 01-14W		150	2500							
1600			025		51-56N 01-01W		155	2500							
1615					Over base, circling		150	2500							
1633					Landed										

I certify that this is a true copy of the Lead Navigator's Log.

JAMES P. DEAN
Major, A. C.
Group Navigation Officer

SECRET

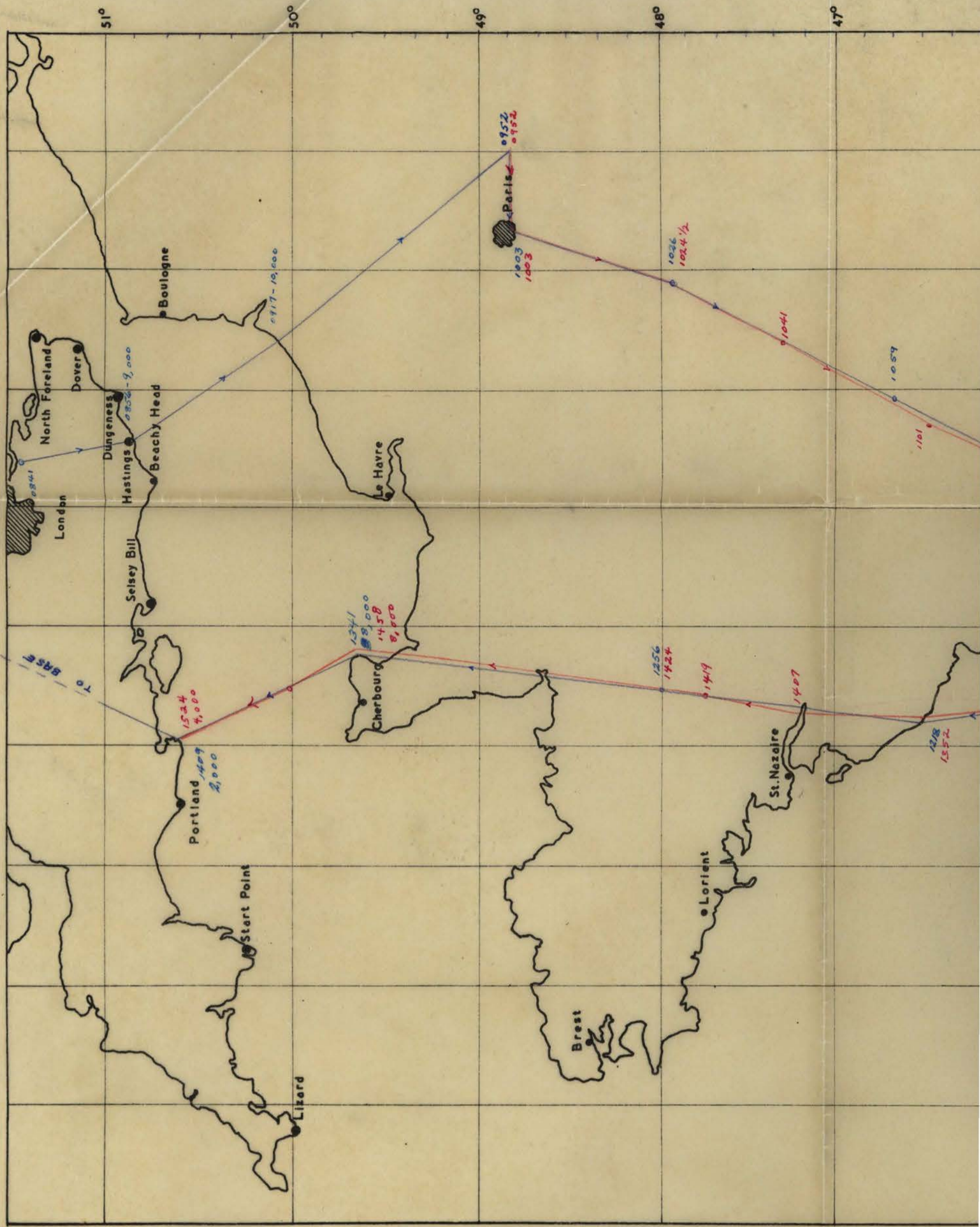
TRACK CHART

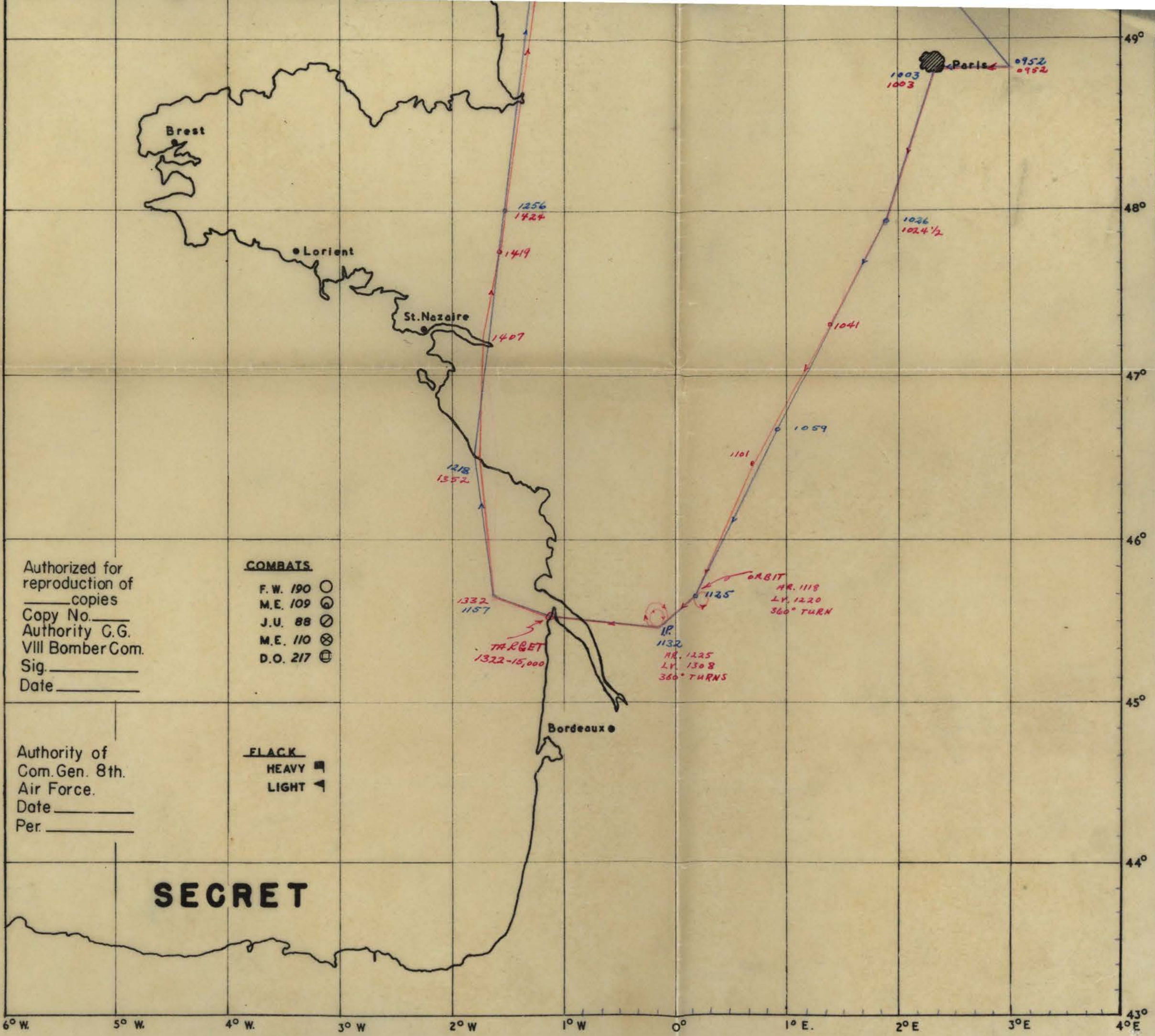
DATE April 15-45

TARGET Primary Rohan, France

Route followed by

<u>Blue</u>	<u>Blue fed</u>
<u>Red</u>	<u>401st B.G. (H)</u>
"	"
"	"
"	"
"	"
"	"
"	"
"	"
"	"





Authorized for reproduction of _____ copies
 Copy No. _____
 Authority C.G. VIII Bomber Com.
 Sig. _____
 Date _____

- COMBATS**
- F.W. 190 ○
 - M.E. 109 ⊙
 - J.U. 88 ⊗
 - M.E. 110 ⊗
 - D.O. 217 ⊕

Authority of Com. Gen. 8th. Air Force.
 Date _____
 Per. _____

- FLACK**
- HEAVY ▣
 - LIGHT ◀

SECRET

STATISTICAL SUMMARY OF OPERATIONS

401st Bomb Group (H)

1st AD F. O. 688

Date of 15 April 1945

PART I - ATTACKS & RESULTS

94th "A" Group

	Lead	Low	High
	Borrowed A/C	Borrowed A/C	Borrowed A/C
1. No. of A/C Failing to Take Off	---	---	---
2. No. of A/C Sorties	13	12	13
3. No. of A/C Sorties less Unused Sp	13	12	13
4. No. of A/C Credit Sorties	13	12	13
5. No. of Effective Sorties	13	12	13
6. No. of Non-Effective Sorties	---	---	---
(a) Early Returns Included			
7. Name of Primary Target	ROYAN (TARGET # 19)		
(a) No. of A/C Attacking	13	12	13
(b) No., Size, Type of Bombs	12X1000#RDX 14X1000#GP	2X1000#RDX 22X1000#GP	20X1000#RDX 6X1000#GP
8. Name of Secondary Target	26X2000#GP 24X2000#GP 26X2000#GP		
(a) No. of A/C Attacking			
(b) No., Size, Type of Bombs			
9. Name of Last Resort Target (LRT)			
(a) No. of A/C Attacking			
(b) No., Size, Type of Bombs			
10. Name of Target of Opportunity			
(a) No. of A/C Attacking			
(b) No., Size, Type of Bombs			
11. Name of Target of Opportunity			
(a) No. of A/C Attacking			
(b) No., Size, Type of Bombs			
12. No. of A/C MIA - TOTAL	None	None	None
13. No. of A/C MIA - Flak			
14. No. of A/C MIA - Flak and E/A			
15. No. of A/C MIA - Enemy Aircraft			
16. No. of A/C MIA - Accident over E.T			
17. No. of A/C MIA - Other & Unknown			
18. Time of Take Off	0710	0716	0711
19. Time of Attack	1322&1322	1321&1319	1327&1318
20. Total Time for Mission	116	108	117
21. Altitude of Release	15,200	14,400	15,500
22. Type of Sighting (Vis. H2X, GH, etc)	VIS	VIS	VIS
23. Enemy Resistance --AA Inten & Acc	None	None	None
24. Enemy Resistance - Fighters	---	---	---
25. Enemy Resistance - Bombers	---	---	---
26. U.S. A/C Engaged by Enemy A/C	---	---	---
27. No. of Passes made by Enemy A/C	---	---	---
28. Degree of Success	Excellent	Excellent	Good

A/C borrowed from Groups: None

A/C loaned to Groups:

STATISTICAL SUMMARY OF OPERATIONS

401st Gp Mission # 249

Date 15 April 1945

PART II - NON-EFFECTIVE SORTIES

94th "A" Group

	Lead	Borrowed A/C	Low	Borrowed A/C	High	Borrowed A/C
29. Non-Effective Sorties	None		None		None	
(a) Weather						
(b) Personnel						
(c) Enemy Action						
(d) Other Non-Mechanical						
(e) Mechanical & Equipment						
30. Mechanical & Equipment Failures						
(a) Engine						
(b) Oil System						
(c) Fuel System						
(d) Supercharger						
(e) Propeller & Governor						
(f) Communication System						
(g) Guns & Turrets						
(h) Bomb Release						
(i) Bombay Doors						
(j) Electric System						
(k) Instruments						
(l) Oxygen Equipment						
(m) Bomb Sights						
(n) A/C in General						

31. Reasons for Failure to Attack:

None

W.D.A.G. FORM
 12 ². Modified
 10-4-45 401st BG APO 567

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER LT. CONWAY DATE 15 April 1945
 PILOT LT. POST TAKE OFF 0711
 NAVIGATOR LT. TARR AIRPLANE _____
 WING 94th A GROUP 401st SQDN High Lead LANDED 1529
 OBJECTIVE ROYAN, FRANCE (MPI) _____

METHOD OF ATTECK _____
 _____ Individual Flight SECTION Squadron Group Wing
 NUMBER A/C IN GROUP 7 COMPOSITE GROUP _____
 DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____

NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1 A/C
 BOMBS, TYPES AND SIZES M 65 1000# HE FUSING: NOSE 1/10 TAIL 1/40
 BOMBS, TYPES AND SIZES M 66 2000# HE FUSING: NOSE 1/10 TAIL 1/40
 BOMBS, TYPES AND SIZES _____ FUSING: NOSE _____ TAIL _____
 NUMBER OF BOMBS LOADED 14 x M 65 14 x M 66 RELEASED 14 x M 65 14 x M 66

INFORMATION AT RELEASE POINT:
 Altitude of Target 25 Temp Aloft: Metro -9 Actual -10
 True Altitude above target 15900 Mag Head, order 290 Actual 277
 Ind. Altitude 15500 True Heading 267
 Pressure alt of target -266 @ SL Drift, Est 1L Actual 1L
 Altimeter setting 29.92 True Track 266
 C.I.A.S. 150 T.A.S. 193 Actual Range 8,745
 G.S. Est 190 Actual 192 B.S. Type M-9
 Wind Direc Metro 315 Actual 350 Time of Release 1327
 Wind Veloc. Metro 5 Actual 8 Intervalometer Setting Salvo
 D.S. 163.4 Trail 31 ATF 32.32 Length of Bombing Run 7 min
 Tan. D.A. Est .55 Actual .55 C-1 Pilot _____ A-5 _____
 Mean Temp: Metro 46 Actual 46 Manual Pilot _____ Yes _____
 Type of Release: Lead A/C Salvo Type of Release: Other A/C Salvo
 LOW SQDN: ALTITUDE _____ TIME OF RELEASE _____ MAG HEADING _____
 HIGH SQDN: ALTITUDE _____ TIME OF RELEASE _____ MAG HEADING _____

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
 Major Air Corps
 Group Bombing Officer

W.D.A.G. FORM
 12 ⁴. Modified
 10-4-45 401st BG MPD 557

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER LT. MOORE DATE 15 April 1945
 PILOT LT. SPEER TAKE OFF 0714
 NAVIGATOR LT. SIMON AIRPLANE _____
 WING 94th A GROUP 401st SQDN H1 Low Sect. LANDED 1524
 OBJECTIVE ROYAN, FRANCE (MPI) _____

METHOD OF ATTECK _____ SECTION _____
 _____ Individual _____ Flight _____ Squadron _____ Group _____ Wing _____
 NUMBER A/C IN GROUP 6 COMPOSITE GROUP _____

DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____

NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1 A/C

BOMBS, TYPES AND SIZES M 65 1000¹ HE FUSING: NOSE 1/10 TAIL 1/40

BOMBS, TYPES AND SIZES M 66 2000¹ HE FUSING: NOSE 1/10 TAIL 1/40

BOMBS, TYPES AND SIZES _____ FUSING: NOSE _____ TAIL _____

NUMBER OF BOMBS LOADED 12 x M 65 - 12 x M 66 RELEASED 12 x M 65 -- 12 x M 66

INFORMATION AT RELEASE POINT:

Altitude of Target 25 Temp Aloft: Metro -3 Actual -8

True Altitude above target 16050 Mag Head, order 290 Actual 280

Ind. Altitude 15500 True Heading 270

Pressure alt of target -266 @ SL Drift, Est 1L Actual 2L

Altimeter setting 29.92 True Track 268

C.I.A.S. 150 T.A.S. 191 Actual Range 8960

G.S. Est 190 Actual 193 B.S. Type M-9

Wind Direc Metro 315 Actual 004 Time of Release 1318

Wind Veloc. Metro 5 Actual 9 Intervalometer Setting Salvo

D.S. 163 Trail 30 ATF 52.45 Length of Bombing Run 3 min

Tan. D.A. Est .53 Actual .56 C-1 Pilot OK A-5 --

Mean Temp: Metro 40 Actual 45 Manual Pilot --

Type of Release: Lead A/C Salvo Type of Release: Other A/C Salvo

LOW SQDN: ALTITUDE _____ TIME OF RELEASE _____ MAG HEADING _____

HIGH SQDN: ALTITUDE _____ TIME OF RELEASE _____ MAG HEADING _____

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
 Major, Air Corps
 Group Bombing Officer

W.D.A.G. FORM
 12 E. Modified
 1-9-44 401st BG APO 557

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER CAPT MEADVILLE DATE 15 April
 PILOT CAPT RIEGLER TAKE OFF 0710
 NAVIGATOR CAPT SHAPIRO AIRPLANE _____
 WING 94th A GROUP 401st SQDN Lead Lead Sect. 1634
 OBJECTIVE ROYAN, FRANCE (MPJ)

METHOD OF ATTACK SECTION
Individual Flight Squadron Group Wing

NUMBER A/C IN GROUP 6 COMPOSITE GROUP _____
 DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____

NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1 A/C
 BOMBS, TYPES AND SIZES M 65 1000# HE FUSING: ROSE 1/10 TAIL 1/40
 BOMBS, TYPES AND SIZES M 66 2000# HE FUSING: ROSE 1/10 TAIL 1/40
 NUMBER OF BOMBS LOADED 12 x 1000# - 12 x 2000# RELEASED 12 x 2000#

INFORMATION AT RELEASE POINT:

Altitude of Target <u>25</u>	Temp Aloft Metro <u>-9</u> Actual <u>-8</u>
True Altitude above target <u>15600</u>	Mag Head, order <u>290</u> Actual <u>280</u>
Ind. Altitude <u>15200</u>	True Heading <u>270</u>
Pressure alt of target <u>286 @ 51</u>	Drift, Est <u>1L</u> Actual <u>2L</u>
Altimeter setting <u>29.92</u>	True Track <u>268</u>
C.I.A.S. <u>150</u> I.A.S. <u>192</u>	Actual Range <u>8,580</u>
G.S. Est <u>190</u> Actual <u>190</u>	B.S. Type <u>M-9</u>
Wind Direc Metro <u>315</u> Actual <u>350</u>	Time of Release <u>1322</u>
Wind Veloc. Metro <u>5</u> Actual <u>6</u>	Intervalometer Setting <u>Salvo</u>
D.S. Trail <u>186.2</u> ATF <u>31</u> <u>32.01</u>	Length of Bombing Run <u>4min</u>
Tan. D.A. Est <u>.54</u> Actual <u>.55</u>	Pilot <u>OK A-5</u>
Mean Temp: Metro <u>76</u> Actual <u>76</u>	Annual Pilot <u>-</u>
Type of Release: <u>Lead A/C</u> <u>Salvo</u>	Type of Release: Other A/C <u>Salvo</u>

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
 Major, Air Corps
 Group Bombing Officer

W.D.A.G. FORM
12 E. Modified
1-9-44 401st BG APO 557

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER LT. FOLBERT DATE 15 April 1945
 PILOT LT. ANGELO TAKE OFF 0712
 NAVIGATOR LT. MARSH AIRPLANE _____
 WING 44th GROUP 401st SQDN Lead Low est. LANDED 1018
 OBJECTIVE REXAN, FRANCE (MPI) _____

METHOD OF ATTACK _____
 Individual Flight Squadron Group Wing

NUMBER A/C IN GROUP 7 COMPOSITE GROUP _____

DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____

NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1 A/C

BOMBS, TYPES AND SIZES 2 x 55 10000 lb FUSING: NOSE 1/10 TAIL 1/40

BOMBS, TYPES AND SIZES 2 x 55 20000 lb FUSING: NOSE 1/10 TAIL 1/40

NUMBER OF BOMBS LOADED 14 x 55 14 x 55 RELEASED 14 x 55 14 x 55

INFORMATION AT RELEASE POINT:

Altitude of Target <u>25</u>	Temp Aloft: Metro <u>-2</u> Actual <u>-8</u>
True Altitude above target <u>15000</u>	Mag Head, order <u>200</u> Actual <u>207</u>
Ind. Altitude <u>15000</u>	True Heading <u>277</u>
Pressure alt of target <u>2600 ft</u>	Drift, Est <u>11</u> Actual <u>31</u>
Altimeter setting <u>29.52</u>	True Track <u>274</u>
C.I.A.S. <u>180</u> I.A.S. <u>180</u>	Actual Range <u>8,511</u>
G.S. Est <u>220</u> Actual <u>182</u>	B.S. Type <u>N-2</u>
Wind Direc Metro <u>315</u> Actual <u>034</u>	Time of Release <u>1822</u>
Wind Veloc Metro <u>8</u> Actual <u>8</u>	Intervalometer Setting <u>Salvo</u>
D.S. <u>157.2</u> Trail <u>50</u> ATF <u>11.50</u>	Length of Bombing Run <u>4min</u>
Tan. D.A. Est <u>.55</u> Actual <u>.545</u>	C-1 Pilot <u>OK</u> A-5 <u>--</u>
Mean Temp: Metro <u>48</u> Actual <u>47</u>	Manual Pilot <u>--</u>
Type of Release: Lead A/C <u>Salvo</u>	Type of Release: Other A/C <u>Salvo</u>

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
Major, Air Corps
Group Bombing Officer

W.D.A.G. FORM
 12 E. Modified
 1-9-44 401st BG APO 557

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER LT. FREE DATE 10 April 1945
 PILOT LT. HART TAKE OFF 0715
 NAVIGATOR LT. ANDREWS AI RPLANE _____
 WING 94th A GROUP 401st SQDN Low Lead Sect. LANDED 1609
 OBJECTIVE ROYAL, FRANCE (MPI) _____
 METHOD OF ATTACK Individual Flight Squadron Group wing
 NUMBER A/C IN GROUP 6 COMPOSITE GROUP _____
 DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____
 NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1A/C
 BOMBS, TYPES AND SIZES M 65 10000 HE FUSING: NOSE 1/10 TAIL 1/40
 BOMBS, TYPES AND SIZES M 65 20000 HE FUSING: NOSE 1/40 TAIL 1/40
 NUMBER OF BOMBS LOADED 12 x M 65 12 x M 65 RELEASED 12 M 65 12x M 65
 INFORMATION AT RELEASE POINT:
 Altitude of Target 25 Temp Aloft: Metro -9 Actual -6
 True Altitude above target 15000 Mag Head, order 290 Actual 25 285
 Ind. Altitude 14400 True Heading 275
 Pressure alt of target -265 @ 21 Drift, Est 15 Actual 18
 Altimeter setting 29.32 True Track 170
 C.I.A.S. 150 T.I.A.S. 190 Actual Range 9, 250
 G.S. Est 190 Actual 190 B.S. Type 1-9
 Wind Direc Metro 315 Actual 04 Time of Release 1522
 Wind Veloc. Metro 5 Actual 9 Intervalometer Setting Salvo
 D.S. 169 Trail 31 ATF 31.30 Length of Bombing Run 6 min
 Tan. D.A. Est .55 Actual .55 C-1 Pilot OK A-5 _____
 Mean Temp: Metro 48 Actual 49 Manual Pilot _____
 Type of Release: Lead A/C Salvo Type of Release: Other A/C Salvo

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
 Major, Air Corps
 Group Bombing Officer

W.D.A.G. FORM
 12 E. Modified
 1-9-44 401st BG APO 557

COMBAT BOMBING FLIGHT RECORD

BOMBARDIER LT. KORTLIK DATE 15 April 1945
 PILOT LT. KENNEL TAKE OFF 0710
 NAVIGATOR LT. GRISHAM AIRPLANE _____
 WING 94th A GROUP 401st SQDN Low Low Sect. LANDED 1619
 OBJECTIVE Hovan, France (MPI) _____
 METHOD OF ATTACK Individual Flight Squadron Group wing
 NUMBER A/C IN GROUP 6 COMPOSITE GROUP _____
 DEFLECTION AND RANGE SIGHTING GROUP Lead A/C COMPOSITE GROUP _____
 NUMBER A/C DROPPING BOMBS BY OWN SIGHTING OPERATION: 1 A/C
 BOMBS, TYPES AND SIZES M 65 10000 LB FUSING: NOSE 1/10 TAIL 1/10
 BOMBS, TYPES AND SIZES M 66 20000 LB FUSING: NOSE 1/10 TAIL 1/10
 NUMBER OF BOMBS LOADED 12 x M 65 12 x M 66 RELEASED 12 x M 65 12 x M 66
 INFORMATION AT RELEASE POINT:
 Altitude of Target 25 Temp Aloft: Metro 29 Actual 28
 True Altitude above target 14850 Mag Head, order 290 Actual 276
 Ind. Altitude 14400 True Heading 264
 Pressure alt of target 286 @ 24 Drift, Est 11 Actual 38
 Altimeter setting 29.92 True Track 267
 C.I.A.S. 150 I.A.S. 180 Actual Range 21 8465
 G.S. Est 180 Actual 194 B.S. Type M-9
 Wind Direc Metro 315 Actual 167 Time of Release 1519
 Wind Veloc. Metro 6 Actual 21 Intervalometer Setting Salvo
 D.S. 171 Trail 21 ATF 51.10 Length of Bombing Run Gain
 Tan. D.A. Est .56 Actual .57 C-1 Pilot OK A-5 _____
 Mean Temp: Metro 70 Actual 70 Manual Pilot _____
 Type of Release: Lead A/C Salvo Type of Release: Other A/C Salvo

I certify that the above figures have been checked and are correct.

JULIUS PICKOFF
 Major, Air Corps
 Group Bombing Officer

CONFIDENTIAL

J-A-1/1

HEADQUARTERS
 401ST BOMBARDMENT GROUP (H)
 Office of the Communications Officer
 AAF Sta 128, APO 557

413.44

15 APRIL 1945

SUBJECT: Communications Report, Operational Mission No 249. (Field Order 688)

TO: Commanding Officer, 401st Bomb Gp (H), AAF Sta 128, APO 557.

SECTION ONE - USE OF RADIO NAVIGATIONAL AIDS

1. Radio Beacons used:		2. MF/DF Fixes	<u>2</u>
a. MF Beacons	<u>1</u>	3. HF/DF Bearings (QDM's)	<u>0</u>
b. Bunchers, England	<u>4</u>	4. VHF/DF Homings	<u>0</u>
c. Bunchers, Continent	<u>35</u>	5. Distress Action (SOS's)	<u>0</u>

SECTION TWO - USE OF RADAR

	<u>Airborne</u>	<u>Used</u>		<u>Airborne</u>	<u>Used</u>
1. Gee	<u>38</u>	<u>38</u>	4. Gee-H	<u>0</u>	<u>0</u>
2. H2X	<u>5</u>	<u>5</u>	5. Carpet (Barrage)	<u>27</u>	<u>27</u>
3. Micro-H	<u>0</u>	<u>0</u>	6. Carpet (Spot)	<u>6</u>	<u>6</u>
			7. Total aircraft releasing Chaff	<u>33</u>	
			8. Total number of units released	<u>11,880</u>	

SECTION THREE - ACTUAL DEFICIENCIES BY EQUIPMENT

1. Interphone	<u>0</u>	7. Gee	<u>0</u>
2. VHF	<u>0</u>	8. H2X	<u>0</u>
3. Compass	<u>0</u>	9. Micro-H	<u>0</u>
4. Liaison	<u>0</u>	10. Gee-H	<u>0</u>
5. Command	<u>1</u>	11. Carpet (Barrage)	<u>0</u>
6. SCS-51	<u>0</u>	12. Carpet (Spot)	<u>0</u>

SECTION FOUR - REMARKS

HAROLD M. KENWARD, JR.
 Maj, A C,
 Gp Com O.

CONFIDENTIAL

SECRET

REPORT ON A.A. GUNFIRE.
 401st. BOMBARDMENT GROUP (HV)

1. TARGET: ASSIGNED... Bayan, France DATE OF MISSION. 15-Apr 1945
 BOMBED..... Bayan, France

2. ROUTE AS FLOWN:

As briefed.

3.	AT TARGET	ENROUTE
WEATHER - - -	<u>Clear</u>	<u>Clear</u>
CONTRAILS - -	<u>None</u>	<u>None</u>
SEEN-UNSEEN -	<u>Seen</u>	<u>Seen</u>

4. DESCRIPTION OF FLAK AT TARGET:

NONE

5. FLAK ENCOUNTERED OR OBSERVED ENROUTE: (IN ORDER EXPERIENCED)

Baleines point - Meagre, accurate, tracking - 14,000 feet.

6. CHAFF; HOW DISCHARGED: As briefed.

7. POSITION OF GROUP: 84th "A" - 10th.

8. DETAILS:-

SQUAD; POS.	NO. A/C	DAMAGE		A/C LOST TO			AXIS OF		TIME OVER TARGET	HEIGHT	
		MAJ.	MIN.	AA	EA	ACC	UNK	ATTN			WITH
<u>Lead 1</u>	<u>6</u>							<u>280°M</u>	<u>293°M</u>	<u>1522</u>	<u>15,200</u>
<u>Lead 2</u>	<u>7</u>							<u>277°M</u>	<u>309°M</u>	<u>1522</u>	<u>14,900</u>
<u>Low 3</u>	<u>6</u>							<u>285°M</u>	<u>285°M</u>	<u>1521</u>	<u>14,400</u>
<u>Low 4</u>	<u>6</u>							<u>280°M</u>	<u>280°M</u>	<u>1520</u>	<u>14,500</u>
<u>High 5</u>	<u>7</u>							<u>277°M</u>	<u>291°M</u>	<u>1527</u>	<u>15,500</u>
<u>High 6</u>	<u>6</u>							<u>279°M</u>	<u>291°M</u>	<u>1518</u>	<u>15,500</u>
TOTALS	<u>38</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>				

9. COMMENTS - PHENOMENA:-

Lt. P.R. Myers.

249 - Royen -
15 Apr 45

C-O-N-F-I-D-E-N-T-I-A-L

PFF BOMBING REPORT

1. Formation Led: Lead Squadron 94th "A" Group. Date 15 April 1945.
2. Mickey Operator 2nd Lt. SMITH, L.B. No. of PFF Missions 4
3. Pilot 1st Lt. ASCHENBACH, A.D. D/R Nav. 1st Lt. BRAZZILL, W.R.
4. Bombardier 1st Lt. FOLKERTS, A. 615 Sqdn. 401st Group 1st Div.
5. Airplane B-17 648 Briefed Position X
(Type) (Serial No.) (Lead) (Deputy Lead)
6. Take off 0712 Landing 1617
7. If deputy lead assumed the lead, state when and why nil
8. Where was the decision made to bomb by PFF? nil
9. Initial point used As briefed Was this the briefed I.P.? yes.
10. Distance at which the micky operator first identified the target: 42 miles
11. Length of the bombing run: Visual 42 miles PFF _____
12. Was there crowding or interference by other formations on the bombing run?
 If so, explain _____
13. In the opinion of the micky operator was drift killed? yes.
14. If not explain why _____
15. Were bombs released early, on time, or late according to the micky equipment? on time
16. Was the micky equipment operating so that a satisfactory sighting could be made on the target: Yes NO Explain _____
17. What was the bombing formation? _____
(Group) (Squadron) (Section)
18. Target attacked Bayan, France
19. Where did the sighting team try to center the bombfall? N.P.I.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

19. Where do you think the bombs hit? On the target

20. Bombs away altitude 15,300' Truck 219° G.S. 188 m. Time 1322-W

004 of 8K

21. Bomb Load 2 X 2000 Bombs Dropped 2 X 2000
1 X 1000 1 X 1000

(a) Brought back, reason SB.

(b) Where jettisoned, reason _____

22. Type of Sighting: (Check One)

(a) PFF _____ (c) Dropped on smoke Bombs of _____

(b) Visual (f) PFF sighting for range only _____

(c) Pff (Visual Assist) _____ (g) Visual sighting for range only _____

(d) Visual (PFF assist) _____ (h) Any other _____

23. In making sighting did micky operator:

(a) Set up course? no

(b) Sight for range? no

(c) Supply data to bombardier for presetting bomb sight? no

(d) Do anything else? no

24. In making sighting did bombardier:

(a) Sight for deflection? yes

(b) Sight for range? yes

(c) Preset bombsight with data from micky operator? no

(d) Do anything else? no

25. What assistance did navigator give bombardier and Micky operator? _____

ground speed and winds.

26. If weather interfered with success of this mission, state how? Yes

27. What was the nature and extent of cloud coverage on bombing run and at the target CAU

C-O-N-F-I-D-E-N-T-I-A-L

PFF Bombing report (Cont'd)

28. Remarks and Recommendations: I.P. was made as briefed
A visual run was made, requiring
no aid from the M.O. M.O. followed
through on the run. Bombing was by
6 ship sections.

29. were scope photos taken? Yes _____ No If not, explain
no camera

30. Draw below the bombing formation (i.e. ~~Combat wing, Group~~ Section
or Squadron) with the serial no. of each PFF A/C at the target.

LEAD

449

648

C-O-N-F-I-D-E-N-T-I-A-L

PFF BOMBING REPORT

1. Formation Led: Low Squadron 94th "A" Group. Date 15 April 1945.
2. Mickey Operator 1st Lt. EATON, H.M. No. of PFF Missions 22
3. Pilot 1st Lt. HART, J.E. D/R Nav. 2nd Lt. ANDREWS, M.H.
4. Bombardier 1st Lt. PEEK, G.W. 615 Sqdn. 401st Group 1st Div.
5. Airplane B-17 812 Briefed Position X
(Type) (Serial No.) (Lead) (Deputy Lead)
6. Take Off 0716 Landing 1606
7. If deputy lead assumed the lead, state when and why _____
8. Where was the decision made to bomb by PFF? Not made
9. Initial point used Briefed IP Was this the briefed I.P.? _____
10. Distance at which the mickey operator first identified the target: 40 miles
11. Length of the bombing run: Visual 43 miles PFF _____
12. Was there crowding or interference by other formations on the bombing run?
No If so, explain _____
13. In the opinion of the mickey operator was drift killed? Yes
14. If not explain why _____
15. Were bombs released early, on time, or late according to the mickey equipment?
On time
16. Was the mickey equipment operating so that a satisfactory sighting could be made on the target: Yes NO Explain _____
17. What was the bombing formation? _____ (Section)
(Group) (Squadron)
18. Target attacked - ROYAN
19. Where did the sighting team try to center the bombfall? On MP

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

35706

19. Where do you think the bombs hit? On MPI

20. Bombs away altitude 14425 Track 273 G.S. 163 Time 1321

21. Bomb Load 2 X 2000 GP Bombs Dropped See X
1000 GP

(a) Brought back, reason * Smoke

(b) Where jettisoned, reason _____

22. Type of Sighting: (Check One)

(a) PFF _____ (e) Dropped on smoke Bombs of _____

(b) Visual (f) PFF sighting for range only _____

(c) Pff (Visual Assist) _____ (g) Visual sighting for range only _____

(d) Visual (PFF assist) _____ (h) Any other _____

23. In making sighting did mickey operator:

(a) Set up course? Yes

(b) Sight for range? No

(c) Supply data to bombardier for presetting bomb sight? No

(d) Do anything else? No

24. In making sighting did bombardier:

(a) Sight for deflection? Yes

(b) Sight for range? Yes

(c) Preset bombsight with data from mickey operator? No

(d) Do anything else? No

25. What assistance did navigator give bombardier and Mickey operator? _____

None, just a hand signal

26. If weather interfered with success of this mission, state how? No

27. What was the nature and extent of cloud coverage on bombing run and at the target CRVU

C-O-N-F-I-D-E-N-T-I-A-L

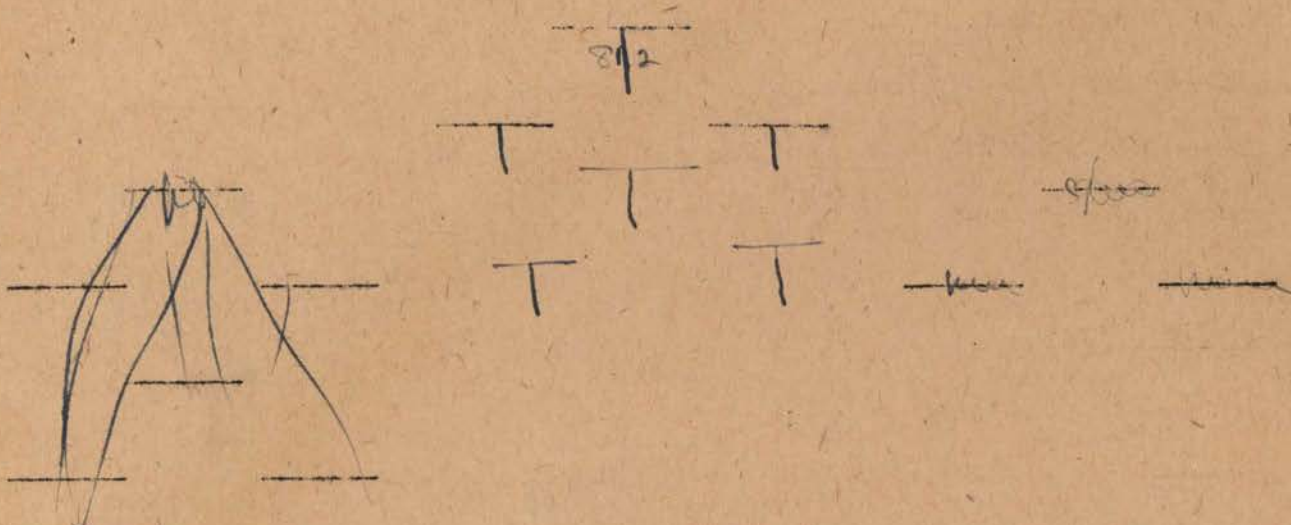
PFF Bombing report (Cont'd)

28. Remarks and Recommendations: Trails were primarily for
navigational purposes - Bombardier took over at
Pond made initial run on target.

29. were scope photos taken? Yes No If not, explain

30. Draw below the bombing formation (i.e. ~~Combat wing, Group~~
~~Section~~
~~or Squadron~~) with the serial no. of each PFF A/C at the target.

Low Sq (Section I)



C-O-N-F-I-D-E-N-T-I-A-L

PFF BOMBING REPORT

1. Formation Led: Lead Squadron 94th "A" Group Date 15 April 1945.
2. Mickey Operator 1st Lt. PETERSON, G.E. No. of PFF Missions 27
3. Pilot Capt. RIEGLER, W. D/R Nav. Capt. SHAPIRO, A.
4. Bombardier Capt. MEADVILLE, H.W. 613 Sqdn. 401st Group 1st Div.
5. Airplane B-27 449 Briefed Position X
(Type) (Serial No.) (Lead) (Deputy Lead)
6. Take Off 0710 Landing 1633
7. If deputy lead assumed the lead, state when and why _____
8. Where was the decision made to bomb by PFF? Not made
9. Initial point used Briefed IP Was this the briefed I.P.? _____
10. Distance at which the mickey operator first identified the target: 60 miles
11. Length of the bombing run: Visual 40 miles PFF _____
12. Was there crowding or interference by other formations on the bombing run?
No If so, explain _____
13. In the opinion of the mickey operator was drift killed? Yes
14. If not explain why _____
15. Were bombs released early, on time, or late according to the mickey equipment?
On time
16. Was the mickey equipment operating so that a satisfactory sighting could be made on the target: Yes NO Explain _____
17. What was the bombing formation? _____
(Group) (Squadron) (Section)
18. Target attacked ROHAN, France
19. Where did the sighting team try to center the bombfall? ON MP 1

C-O-N-F-I-D-E-N-T-I-A-L

C O N F I D E N T I A L

19. Where do you think the bombs hit? On MP1

20. Bombs away altitude 15,400' Track 272° G.S. 892 mph Time 1322

350/c

21. Bomb Load 2 X 2000 GP Bombs Dropped One X
1 X 1000 GP

(a) Brought back, reason Smoke

(b) Where jettisoned, reason _____

22. Type of Sighting: (Check One)

(a) PFF _____ (c) Dropped on smoke Bombs of _____

(b) Visual ✓ (f) PFF sighting for range only _____

(c) Pff (Visual Assist) _____ (g) Visual sighting for range only _____

(d) Visual (PFF assist) _____ (h) Any other _____

23. In making sighting did mickey operator:

(a) Set up course? YES

(b) Sight for range? No

(c) Supply data to bombardier for presetting bomb sight? No

(d) Do anything else? No

24. In making sighting did bombardier:

(a) Sight for deflection? YES

(b) Sight for range? YES

(c) Preset bombsight with data from mickey operator? No

(d) Do anything else? No

25. What assistance did navigator give bombardier and Mickey operator? _____

Winds, Duff & Time

26. If weather interfered with success of this mission, state how? No

27. What was the nature and extent of cloud coverage on bombing run and at

the target SAVU

C-O-N-F-I-D-E-N-T-I-A-L

PFF Bombing Report (Cont'd)

28. Remarks and Recommendations: Leading was primarily for
organizational purposes; upon leading to target for
IP bomb ardeir then took over and made visual
run.

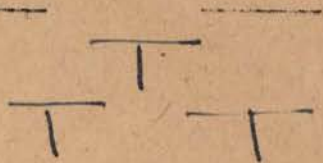
29. were scope photos taken? yes no If not, explain

30. Draw below the bombing formation (i.e. Combat wing, ~~Group~~ Section, ~~or Squadron~~) with the serial no. of each PFF A/C at the target.

Lead by

(Section I)
449

(Section II)
648



~~of~~
the the

C-O-N-F-I-D-E-N-T-I-A-L

PFF BOMBING REPORT

1. Formation Led: High Squadron 94th "A" Group. Date 15 April 1945.
2. Mickey Operator 2nd Lt. BELL, T.P. No. of PFF Missions 1
3. Pilot 2nd Lt. SPEER, K.D. D/R Nav. 2nd Lt. SIMON, R.W.
4. Bombardier 1st Lt. MOORE, M.L. 615 Sqdn. 401st Group 1st Div.
5. Airplane B-17 454 Briefed Position I
(Type) (Serial No.) (Lead) (Deputy Lead)
6. Take Off 0713 Landing 1622
7. If deputy lead assumed the lead, state when and why Nil
8. Where was the decision made to bomb by PFF? Not made
9. Initial point used as briefed Was this the briefed I.P.?
10. Distance at which the mickey operator first identified the target: brief
11. Length of the bombing run: Visual 43 miles PFF
12. Was there crowding or interference by other formations on the bombing run?
no If so, explain
13. In the opinion of the mickey operator was drift killed? unk.
1. If not explain why
14. Were bombs released early, on time, or late according to the mickey equipment?
unk.
15. Was the mickey equipment operating so that a satisfactory sighting could be made on the target: Yes NO Explain Current 7/5 ~~unk.~~
take arising.
16. What was the bombing formation? (Group) (Squadron) (Section)
17. Target attacked Bayan, France
18. Where did the sighting team try to center the bombfall? M.P.I.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

19. Where do you think the bombs hit? Target area
20. Bombs away altitude 15,500' Truck 2740 G.S. 166K Time 1318 W.
21. Bomb Load X 2000 G.P. Bombs Dropped 2 X 1000 G.P.

- (a) Brought back, reason _____
- (b) Where jettisoned, reason _____

22. Type of Sighting: (Check One)

- (a) PFF _____
- (b) Visual ✓
- (c) Pff. (Visual Assist) _____
- (d) Visual (PFF assist) _____
- (e) Dropped on smoke Bombs of _____
- (f) PFF sighting for range only _____
- (g) Visual sighting for range only _____
- (h) Any other _____

23. In making sighting did micky operator:

- (a) Set up course? no
- (b) Sight for range? no
- (c) Supply data to bombardier for presetting bomb sight? no
- (d) Do anything else? no

24. In making sighting did bombardier:

- (a) Sight for deflection? yes
- (b) Sight for range? yes
- (c) Preset bombsight with data from micky operator? no
- (d) Do anything else? no

25. What assistance did navigator give bombardier and Micky operator? _____

ground fuel 4 units
26. If weather interfered with success of this mission, state how? no

27. What was the nature and extent of cloud coverage on bombing run and at the target CAVO

C-O-N-F-I-D-E-N-T-I-A-L

PFF Bombing Report (Cont'd)

28. Remarks and Recommendations: Bombing was by 6
ship sections. This op left the low section
of the high sq. I.P. was made as briefed
and a visual run and drop was made.
~~a.o. led an unproductive pt.~~

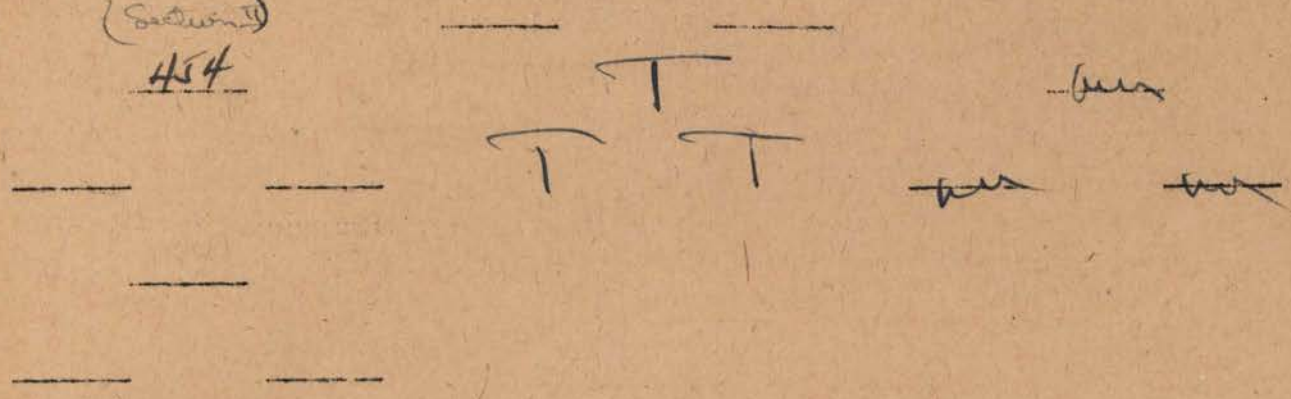
29. Were scope photos taken? Yes No If not, explain
no camera

30. Draw below the bombing formation (i.e. Combat wing, Group or Squadron) with the serial no. of each PFF A/C at the target.

HIGH SQ

(Section)
653

(Section)
454



20
1000
100

C-O-N-F-I-D-E-N-T-I-A-L

PFF BOMBING REPORT

1. Formation Led: High Squadron 94th "A" Group, Date 15 April 1945.
2. Mickey Operator F/O JENKINS, F.S. No. of PFF Missions 12
3. Pilot 1st Lt. POST, E.A. D/R Nav. 1st Lt. TARR, C.
4. Bombardier 1st Lt. CONWAY, F. 615 Sqdn. 401st Group 1st Div.
5. Airplane B-17 653 Briefed Position X
(Type) (Serial No.) (Lead) (Deputy Lead)
6. Take Off 0710 Landing 1630
7. If deputy lead assumed the lead, state when and why _____
8. Where was the decision made to bomb by PFF? Not made
9. Initial point used Pouébo I.P. Was this the briefed I.P.? —
10. Distance at which the micky operator first identified the target: 28 miles
11. Length of the bombing run: Visual 32 miles PFF _____
12. Was there crowding or interference by other formations on the bombing run?
No. If so, explain _____
13. In the opinion of the micky operator was drift killed? Yes
14. Were bombs released early, on time, or late according to the micky equipment?
On time
15. Was the micky equipment operating so that a satisfactory sighting could be made on the target: Yes NO Explain _____
16. What was the bombing formation? _____
(Group) (Squadron) (Section)
17. Target attacked Royen, France
18. Where did the sighting team try to center the bombfall? On MPI.

C-O-N-F-I-D-E-N-T-I-A-L

19. Where do you think the bombs hit? Slightly over
20. Bombs away altitude 15600 Track 261 G.S. 192mp Time 1327 350-8
21. Bomb Load 2 X 2000 GP Bombs Dropped 2
1000 GP
smoke
- (a) Brought back, reason _____
- (b) Where jettisoned, reason _____
22. Type of Sighting: (Check One)
- (a) PFF _____ (e) Dropped on smoke Bombs of _____
- (b) Visual ✓ (f) PFF sighting for range only _____
- (c) Pff (Visual Assist) _____ (g) Visual sighting for range only _____
- (d) Visual (PFF assist) _____ (h) Any other _____
23. In making sighting did mickey operator:
- (a) Set up course? _____
- (b) Sight for range? no
- (c) Supply data to bombardier for presetting bomb sight? no
- (d) Do anything else? no
24. In making sighting did bombardier:
- (a) Sight for deflection? yes
- (b) Sight for range? no
- (c) Preset bombsight with data from mickey operator? no
- (d) Do anything else? no
25. What assistance did navigator give bombardier and Mickey operator? _____
None, both were trained
26. If weather interfered with success of this mission, state how? No
27. What was the nature and extent of cloud coverage on bombing run and at the target CAU

C-O-N-F-I-D-E-N-T-I-A-L

FFF Bombing report (Cont'd)

28. Remarks and Recommendations:

in day used primarily for navigational purposes. in day and by course to target from 1P gave pilot going down bomb run to bombardier navigator.

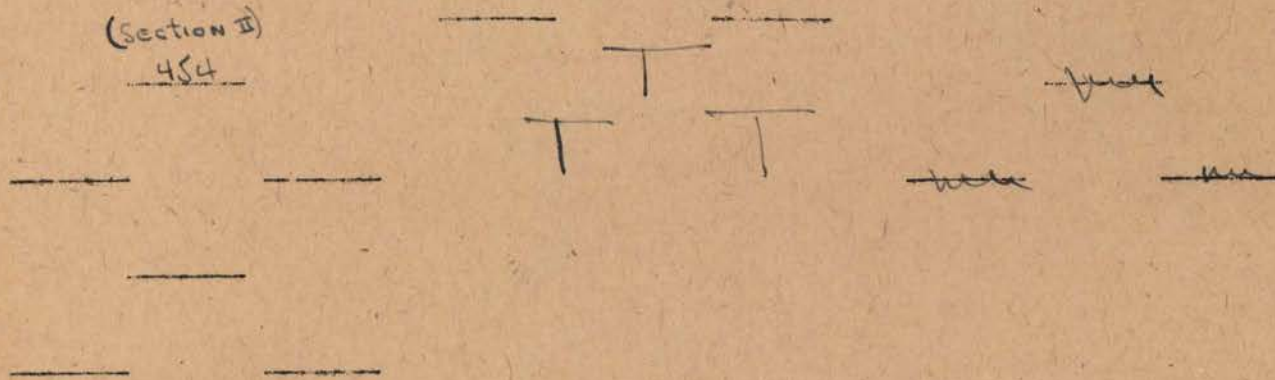
29. were scope photos taken? Yes No If not, explain

30. Draw below the bombing formation (i.e. ~~Combat wing, Group~~ Section or Squadron) with the serial no. of each FFF A/C at the target.

High Sq

(Section I)
633

(Section II)
454



S-3

612TH BOMBARDMENT SQUADRON (H)
 401ST BOMBARDMENT GROUP (H)
 Office of the Operations Officer

Mission No. 249
 15 April 1945

SUBJECT: Loading List

TO: Operations Officer, 401st Bomb Group (H), AAF, Station #128.

A/C 43-37628

P	Clemmons, James A.	2nd Lt.	612th.
CP	Codispoti, Vincent A.	F/O	"
N	Smith, Robert F.	2nd Lt.	"
TOG.	Parker, Joseph W.S.	Sgt.	"
RO	Gooding, Gale A.	Sgt.	"
TTG	Engel, Claire H.	Sgt.	"
BFG	Raines, Bruce A.	Sgt.	"
TG	Burkart, Lester G.	Sgt.	"
WG	Burks, Willman C., Jr.	Sgt.	"

A/C 42-31891

P	Reynolds, Ralph L.	2nd Lt.	612th.
CP	Elfstrom, Herbert W.	2nd Lt.	"
N	Eittle, James T.	2nd Lt.	"
TOG.	Madden, Ted H.	S/Sgt.	"
RO	Black, Warren E.	Sgt.	"
TTG	McDaniel, Richard L.	T/Sgt.	"
BFG	Stevenson, Cleo D.	Sgt.	"
TG	Wieszczecinski, Frank H.	Sgt.	"
WG	Collinga, Robert J.	S/Sgt.	"

A/C 44-6113

P	Stephens, Lloyd J.	2nd Lt.	612th.
CP	Wilt, Elmer L.	2nd Lt.	"
N	Harper, Robert F.	2nd Lt.	"
TOG.	Whitlock, Howard D.	S/Sgt.	"
RO	Douglass, James B.	T/Sgt.	"
TTG	Graham, James D.	S/Sgt.	"
BFG	Wisdom, Went S.	Sgt.	"
TG	Brennan, William J.	S/Sgt.	"
WG	Lewelling, Fred N.	S/Sgt.	"

A/C 42-97664

P	Guy, Richard H.	1st Lt.	612th.
CP	Mastrangelo, Donald M.	2nd Lt.	"
N	Goodlett, John R., Sr.	2nd Lt.	"
TOG.	Polin, Arthur (NMI)	Sgt.	"
RO	Bury, Paul R.	Sgt.	"
TTG	Foulkes, Ellis A.	Sgt.	"
BFG	Gray, John J.	Sgt.	"
TG	Fitts, Leonard R.	Sgt.	"
WG	Webb, Clayton T., Jr.	Sgt.	"

A/C 44-6506

P	Mulvihill, William J., Jr.	2nd Lt.	612th.
CP	Peterson, Grant E.	2nd Lt.	"
N	Leigh, Dale (NMI)	2nd Lt.	"
TOG.	Bean, Andrew S.	Sgt.	"
RO	Hakeman, Harold M.	Sgt.	"
TTG	Musial, Henry J.	Sgt.	"
BFG	Gardner, Donald J.	Sgt.	"
TG	Chandler, Henry E., Jr.	Sgt.	"
WG	Jackson, Louis A.	Sgt.	"

A/C 43-38637

P	Smith, Max M.	1st Lt.	612th.
CP	Korwald, Morris N.	2nd Lt.	"
N	VanDuinen, Richard B.	2nd Lt.	"
Tog.	Schmaltz, Nyle R.	S/Sgt.	"
RO	Hendrickson, Ernest W.	T/Sgt.	"
TTG	Genga, Pietro J.	T/Sgt.	"
BTG	Laing, John (NMI)	S/Sgt.	"
TG	Filiatraut, Frank E.	S/Sgt.	"
RGC.M.	Martin, James G.	S/Sgt.	"
WG	Connors, John N.	S/Sgt.	"

A/C 42-106992

P	Holt, Howard L.	2nd Lt.	612th.
CP	Gailey, Ivan L.	2nd Lt.	"
N	Lively, Coy L.	2nd Lt.	"
Tog.	MINN Guin, Frederick D.	Sgt.	"
RO	Hunt, Ray D.	Sgt.	"
TTG	Chapman, Carl W.	Sgt.	"
BTG	Huston, Cecil A.	Sgt.	"
TG	Crosson, James J., Jr.	Sgt.	"
WG	Klapow, Benjamin	Sgt.	"

A/C 43-38541

P	Guiler, Gilbert S.	2nd Lt.	612th.
CP	Bergman, Wayne H.	2nd Lt.	"
N	Sims, Morton D.	2nd Lt.	"
Tog.	Graner, John C., Jr.	Sgt.	"
RO	Mountain, John M.	Sgt.	"
TTG	Martin, Norman R.	Sgt.	"
BTG	Kaschak, Joseph J.	Sgt.	"
TG	Deacle, Walter W.	Sgt.	"
WG	Barrett, Robert C.	Sgt.	"

NOTE: R.C.M.
Sgt. John J. Stitt (613)

A/C 42-108393

P	Harveson, Lloyd D.	2nd Lt.	612th.
CP	Parsons, Silas P.	2nd Lt.	"
N	Zacamy, John R.	2nd Lt.	"
Tog.	Crosby, Lewis A.	Sgt.	"
RO	Hall, Jewell L.	Sgt.	"
TTG	Brockway, Glenn L.	Sgt.	"
BTG	Moore, Kenneth V.	Sgt.	"
TG	Kuhn, Bill W.	Sgt.	"
WG	Jeter, Kenneth A.	Sgt.	"

A/C 42-31662

P	Howard, Louis F., Jr.	1st Lt.	612th.
CP	Wilford, Joseph E.	2nd Lt.	"
N	Davis, Rex D.	2nd Lt.	"
Tog.	Rossok, Michael R.	S/Sgt.	"
RO	Carson, Edward M.	T/Sgt.	"
TTG	Corbo, Frank J.	T/Sgt.	"
BTG	Ford, Billie M.	S/Sgt.	"
TG	McQuiston, George E., Jr.	S/Sgt.	"
WG	Taylor, Charles F.	S/Sgt.	"

Note: Capt. Shapiro flying with 615th.
 - The End -

613th BOMBARDMENT SQUADRON (H)
OFFICE OF THE OPERATIONS OFFICER
AAF STATION 128, APO 557

15 APRIL 1945

LOADING LIST

PLANE NO.	DUTY	RANK	LAST NAME	FIRST NAME	MI
42-102947	P	F/O	BERNEBURG	LAFRANE	L.
	CP	2nd LT.	FUNK	PHILLIP	R.
	N	F/O	BEUSCHER	CLIFTON	H.
	B	S/SGT.	BAILEY	FRANK	W.
	RO	T/SGT.	TOMPKINS	HARRY	A.
	TT	S/SGT.	BUSH	MARVIN	L.
	BT	S/SGT.	BAGKUS	WILBUR	R.
	TG	S/SGT.	KEY	CHARLES	W. JR.
WG	S/SGT.	DICK	CHARLES	B.	
44-6132	P	2nd LT.	SMITH	SAMUEL	B.
	CP	2nd LT.	MILLER	WALTER	A.
	N	2nd LT.	ANDLER	LYLE	E.
	B	S/SGT.	RICKERS	RUSSELL	E.
	RO	S/SGT.	HERCHENROTHER	RAYMOND	A.
	TT	S/SGT.	DILZ	REINOLD	J.
	BT	S/SGT.	Mc DOW	MILES	H.
	TG	S/SGT.	WOESTMAN	ROBERT	J.
WG	SGT.	HOOD	CLYDE	L.	
43-38160	P	1st LT.	MAHARICK	MATT	(NMI)
	CP	2nd LT.	ROBERSON	WENDALL	W.
	N	2nd LT.	ROWLEY	RONALD	E.
	B	SGT.	CARMICHAEL	WILSON	F.
	RO	T/SGT.	RHED	WILLIAM	H. JR.
	TT	T/SGT.	LANIER	LESLIE	H.
	BT	S/SGT.	MOORE	WILLIAM	F.
	TG	S/SGT.	WEBB	MENDELL	R.
WG	S/SGT.	PIROMALLI	EUGENE	B.	
42-31072	P	2nd LT.	SNYDER	GEO.	F.
	CP	F/O	WALTERSHED	JOSEPH	(NMI)
	N	F/O	JENISCH	THEODORE	(NMI)
	B	F/O	KAULKIN	EDWARD	W.
	RO	SGT.	METZGER	JOHN	J. JR.
	TT	SGT.	CLOSE	LOREN	J.
	BT	SGT.	LACY	VIRGIL	(NMI)
	TG	SGT.	KRAMER	ROBERT	C.
WG	SGT.	BARBOUR	CHARLES	E.	
44-6588	P	2nd LT.	KING	LIONEL	L.
	CP	2nd LT.	YOUNG	ROBERT	D.
	N	2nd LT.	Mc GARTY	JUSTIN	J.
	B	F/O	WALL	HALLEY	P.
	RO	SGT.	REDDEN	GEO.	E.
	TT	SGT.	MOLESKI	JOHN	(NMI)
	BT	SGT.	MERCON	LAWRENCE	C.
	TG	SGT.	ALLEN	PHYLLIS	R.
WG	S/SGT.	YORK	EDWARD	N.	
RCM	SGT.	SHARKMAN	PERRY	L.	
43-3862	P	2nd LT.	LOVELACE	JAMES	G.
	CP	2nd LT.	Mc KINNEY	MELVIN	K.
	N	2nd LT.	PETERSON	MARVIN	W.
	B	SGT.	TAYLOR	THOMAS	H.
	RO	SGT.	WETHERBEE	CHARLES	W.
	TT	SGT.	KUTIL	LESLIE	W.
	BT	SGT.	WRIGHT	CHARLES	L.
	TG	SGT.	HUIRAS	FLOYD	J.
WG	S/SGT.	COUGHLIN	JOSEPH	B.	

44-6842 P 2nd LT. FORD WILBUR H.
 CP 2nd LT. Mc AFRON TERRENCE B.
 N 2nd LT. DAVIS CHARLES E.
 B 2nd LT. JANSSEN DONALD P.
 RO SGT. HANSEN GGE. (NMI) JR.
 TT SGT. MOODY PHILLIP L.
 BT SGT. ENGLETT WILLIAM L.
 TG SGT. BAILEY CLARENCE (NMI)
 WG SGT. BURNS FRANCIS F.

44-8767 P 1st LT. LEVY MEYER (NMI)
 CP 2nd LT. SOUTH VEEDER (NMI) JR.
 N 2nd LT. HERT CALVIN A.
 B SGT. CROSSLEY CHARLES A.
 RO SGT. LAUDERDALE WILBUR C.
 TT SGT. HOLLAND JOHN W.
 BT SGT. NICHOLAS MIKE S.
 TG SGT. HUDSON JOHN W.
 WG SGT. FOLEY ROBERT J.

44-6125 P 1st LT. MAY JAMES H.
 CP 2nd LT. MALONEY JOSEPH M.
 N 1st LT. ANDERS WALTER R.
 B SGT. BENSON WALLARD K.
 RO T/SGT. PAULK ALBERT L.
 TT T/SGT. SMITH CHESTER J.
 BT SGT. KROZEL JOSEPH A.
 TG S/SGT. Mc KEE WILLIAM W.
 NC S/SGT. NACHTIGAL FRED C.
 RCM SGT. KARRE WILLIAM H.

44-6146 P 2nd LT. TRIPI JOSEPH B.
 CP 2nd LT. HARDIN HOWARD I.
 N 1st LT. SIMPSON ALLEN R.
 B 1st LT. BILLMAN ROBERT C.
 RO SGT. WALKER GORDON H.
 TT SGT. Mc CARTY LUTHER R.
 BT SGT. MAGOON RICHARD D.
 TG SGT. PARKER GEO. D.
 WG SGT. TUSTIN WILLIAM A.

44-3449 P CAPT. RIEGLER WILLIAM I.
 CP LT. COL. VOORHEES BURTON K. (94th)
 N CAPT. SHAPIRO AARON (NMI) (612th)
 B CAPT. MEADVILLE HARRY M.
 RO T/SGT. MOLLER THEODORE H.
 TT T/SGT. BACCHIS GEO. B.
 WG RB S/SGT. QUIST WILLIAM (NMI)
 EX.N 2nd LT. VERCELLI EDWARD F. (615th)
 V 1st LT. PETERSON GEO. W. (615th)
 TG 2nd LT. MACKIN PETER D.

FLYING WITH THE 615th. MAJ. LOCHER JAMES R.
 LT. COL. DE JONCKHEERE ERIC T.

FLYING WITH THE 612th RCM SGT. STITT JOHN J.

SIX HUNDRED AND FOURTEENTH BOMBARDMENT SQUADRON (H)
 FOUR HUNDRED AND FIRST BOMBARDMENT GROUP (H)
 Office of the Operations Officer

AAF Station # 128
 15 April 1945

SUBJECT: Loading List.

TO : Operations Officer, 491st Bomb Gp (H), AAF Station # 128, APO # 557.

1. The following is the loading list for today's mission.

PLANE 43-38425

P	2nd Lt.	SHORT, CARL W.	614th Sq
CP	2nd Lt.	WEATHERLY, WENDLE R.	"
N	2nd Lt.	POSS, ROBERT L.	"
CTG	Sgt.	Post, George W.	"
RO	Sgt.	Penny, Leonard V.	"
TT	Sgt.	Kirby, Max E.	"
BT	Sgt.	Hill, Henry H.	"
TG	Sgt.	Tonkin, Harold B.	"
WG	Sgt.	Hallman, Calvin S.	"

PLANE 43-58677

P	1st Lt.	SALISBURY, THOMAS E.	"
CP	F/O	WYLIE, RONOLD J.	"
N	2nd Lt.	BOUCHER, JAMES D. JR.	"
CTG	Sgt.	Wagener, Norman N.	"
RO	Sgt.	Pinkerton, Oliver	"
TT	Sgt.	Benthall, Clyde T.	"
BT	Sgt.	Walls, Joseph F.	"
TG	Sgt.	Chapman, Guy W.	"
WG	Sgt.	Cain, Robert P.	"

PLANE 42-97602

P	2nd Lt.	GIBSON, LEE R.	"
CP	2nd Lt.	WOODBURN, JAMES JR.	"
N	F/O	GOLDBERG, BERNARD	"
CTG	Sgt.	Brown, George W.	"
RO	Sgt.	Schoberth, John A.	"
TT	Sgt.	Husnik, Harry J.	"
BT	Sgt.	Macmillan, John A.	"
TG	2nd Lt.	GERHART, CARLTON M. JR.	"
WG	Sgt.	Miller, Jack	"

Loading List (Con't)

PLANE 42-97780

P	1st Lt.	GRAY, CARL M.	614th Sq
CP	2nd Lt.	SMITH, CHARLES	"
N	2nd Lt.	STEWART, RICHARD E.	"
CTG	S/Sgt.	Ginthwain, Edward A.	"
RO	Sgt.	Fort, Collins G.	"
TT	Sgt.	Bonanno, Joe M.	"
BT	Sgt.	Harrell, Jean F.	"
TG	Sgt.	Saenz, Hector J.	"
WG	Sgt.	Kirby, Lee D. Jr.	"

PLANE 43-38791

Pst	1st Lt.	SORENSEN, MELVIN H.	"
CP	2nd Lt.	TROUPE, JOHN T.	"
N	2nd Lt.	BURNS, THOMAS E.	"
CTG	S/Sgt.	Lee, William J.	"
RO	S/Sgt.	Collins, John G.	"
TT	T/Sgt.	Senoric, Steve S.	"
BT	Sgt.	Leppanen, Calvin E.	"
TG	Sgt.	Nichols, Norman D.	"
WG	Sgt.	Turner, Eldon A.	"
RCM	S/Sgt.	Rickey, Leland H.	"

PLANE 42-102077

P	1st Lt.	YEARGAN, OTIS L.	"
CP	2nd Lt.	BLEES, LEONARD A.	"
N	2nd Lt.	BINZEL, CHARLES C.	"
CTG	Sgt.	Seabridge, William F.	"
RO	Sgt.	Braxton, Leonie A. Jr.	"
TT	Sgt.	Hirzel, Robert C.	"
BT	Sgt.	Enterkin, Isaac J. Jr.	"
TG	Sgt.	Gross, J. C.	"
WG	Sgt.	Thomas, Edward B.	"

PLANE 42-97522

P	1st Lt.	VIRMAN, EUGENE A.	"
2nd Lt CP	2nd Lt.	COUTTS, HAROLD K.	"
N	2nd Lt.	STALZER, JAMES J.	"
CTG	S/Sgt.	Orlando, Peter	"
RO	S/Sgt.	Retzlaff, Jmaes A.	"
TT	S/Sgt.	Schwarz, Edwin D.	"
BT	Sgt.	Hobson, Kenneth E.	"
TG	Sgt.	Rutkowski, Joseph E.	"
WG	S/Sgt.	Hay, David M.	"

PLANE 42-39012

P	1st Lt.	JAMES, HERBERT W.	"
CP	2nd Lt.	PARKER, VICTOR E.	"
N	2nd Lt.	SASSMANNSHAUSEN, WALTER B.	615th Sq
CTG	S/Sgt.	Branch, Willard A.	614th Sq
RO	S/Sgt.	Kent, Donald R.	"
TT	S/Sgt.	Parker, Robert S.	"
BT	Sgt.	Toloso, Melvin W.	"
TG	Sgt.	McCallen, Lynn G.	"
WG	Sgt.	Baumann, Archie M.	"

Loading List (Con't)

PLANE 42-97478

P	1st Lt.	STENMAN, ROBERT M.	614th Sq
CP	2nd Lt.	BUSH, FRANK R.	"
N	1st Lt.	SACKS, DAVID W.	"
CTG	Sgt.	Petrowsky, Albert F.	"
RO	Sgt.	Bacon, George S. Jr.	"
TT	Sgt.	Crowe, Harold F.	"
BT	M/Sgt.	Royal, William E.	"
TG	Sgt.	Laura, Libere L.	"
WG	Sgt.	Bateman, Maurice B.	"

PLANE 43-38646

P	1st Lt.	CAMERON, ELLIOTT F.	"
CP	F/O	DAVIDSON, ROBERT L.	"
N	F/O	STANTON, WILLIAM C.	"
CTG	S/Sgt.	Fasullo, Thomas G.	"
RO	Sgt.	DeLeon, Jerrald J.	"
TT	S/Sgt.	Fabian, Emory P. Jr.	"
BT	Sgt.	Hargas, Mike S.	"
TG	Sgt.	Clendenin, Charles M.	"
WG	Sgt.	Gabbert, David J.	"
RCM	S/Sgt.	Allaire, Joseph S.	"

PLANE 43-97931

P	1st Lt.	AYRE, LAWRENCE E.	"
CP	2nd Lt.	COSDEN, BRYAN L.	"
N	2nd Lt.	LEASE, GERALD H.	"
CTG	S/Sgt.	DeLorie, George A.	"
RO	T/Sgt.	Massa, Attilio	"
TT	S/Sgt.	Brass, Forrest A.	"
BT	S/Sgt.	Wilczynski, Walter J.	"
TG	Sgt.	Myers, John E.	"
WG	Sgt.	Iuni, Andrew E.	"
RO	T/Sgt.	Tompkins, Harry A.	Flying with 613th Sq

For the Squadron Commander:

DONALD V. KIRKHUFF,
 CAPT., Air Corps,
 Operations Officer.

SIX HUNDRED AND FIFTEENTH BOMBARDMENT SQUADRON (H)
 FOUR HUNDRED AND FIRST BOMBARDMENT GROUP (H)
 Office of the Operations Officer
 AAF Station 128 APO 557

15 April 1945

SUBJECT: Loading List

TO : Operations Officer, 401st Bomb Gp.(H), AAF Station 128, APO 557

DUTY	RANK	(LAST)NAME	FIRST	(MI)	SQUADRON
<u>AIRPLANE #43-88941</u>					
P	1st Lt.	Knowles	Willis	S.	615th
CP	2nd Lt.	Cornelius	Carl	J.	"
N	F/O	Grisham	Cecil	W.	"
B	2nd Lt.	Kostalni	Walter	G.	"
RO	S/Sgt	McCormick	Thomas	F.	"
TT	Pvt.	Boever	Robert	A.	"
BT	S/Sgt	Wasemiller	Clifford	E.	"
TG	S/Sgt	St.Ledger	Robert	E.	"
FG	S/Sgt	Settle	John	B.	"
<u>AIRPLANE #44-8648</u>					
P	1st Lt.	Aschenbach	Allen	D.	615th
CP	Lt.Col.	de Jonkheere	Eric	T.	613th
N	1st Lt.	Brazzil	William	R.	615th
B	1st Lt.	Folkerts	Arthur	(NMI)	"
M/O	2nd Lt.	Smith, Jr.	Larkin	B.	"
RO	T/Sgt	Feigenbaum	George	J.	"
TT	T/Sgt	Allex	Marvin	L.	"
TG	S/Sgt	Wilson	Ben	G.	"
FG	S/Sgt	Watson	Robert	W.	"
<u>AIRPLANE #44-8812</u>					
P	1st Lt.	Hart	Jerald	E.	615th
CP	Maj.	Locker	James	B.	613th
N	2nd Lt.	Andrews	Melvin	H.	615th
B	1st Lt.	Peek	George	W.	"
M/O	1st Lt.	Eaton	Harry	M.	"
RO	T/Sgt	Reiss	Herbert	(NMI)	"
TT	T/Sgt	Raney	Robert	E.	"
TG	S/Sgt	Pickering	Edward	M.	"
FG	S/Sgt	Smakler	Myron	M.	"
<u>AIRPLANE #44-8454</u>					
P	2nd Lt.	Speer	Kenneth	D.	615th
CP	2nd Lt.	Kelly	James	J.	"
N	2nd Lt.	Simon	Robert	M.	"
B	1st Lt.	Moore	Max	L.	"
M/O	2nd Lt.	Bell	Thomas	P.	"
RO	S/Sgt	Yohay	David	(NMI)	"
TT	S/Sgt	Cupp	Gordon	C.	"
TG	Sgt	Thompson	Leonard	E.	"
FG	Sgt	Averett	Jack	C.	"
<u>AIRPLANE #44-8658</u>					
P	1st Lt.	Post	Edwin	A.	615th
CP	2nd Lt.	Taylor, Jr.	Richard	W.	"
N	1st Lt.	Tarr, Jr.	Charles	(NMI)	"
B	1st Lt.	Conway, Jr.	Francis	(NMI)	"
M/O	F/O	Jenkins	Frederick	S.	"
RO	T/Sgt	Backlin	John	F.	"
TT	T/Sgt	Antill	Clarence	W.	"
TG	S/Sgt	Harris	Cecil	D.	"
FG	S/Sgt	Affel	Richard	H.	"
<u>AIRPLANE #43-89146</u>					
P	1st Lt.	Cole, Jr.	John	S.	615th
CP	2nd Lt.	Spellman	John	W.	"
N	2nd Lt.	Hanson	Clifford	M.	"
B	F/O	Butler	Thomas	H.	"
RO	S/Sgt	Crespi	Ralph	M.	"
TT	S/Sgt	McClure	James	R.	"
BT	S/Sgt	Griggs	Crawford	F.	"
TG	Sgt	Smith	Ralph	H.	"
FG	S/Sgt	Power	James	E.	"
N (ext)	2nd Lt.	Vercelli	Edward	F.	615th fly with 613th
M/O	1st Lt.	Peterson	George	E.	615th fly with 613th
M/O	2nd Lt.	Sassmannshausen	Walter	B.	615th fly with 614th

HEADQUARTERS
401ST BOMBARDMENT GROUP (H)
Office of the Engineering Officer
AAF Station 128
APO 557

F-A-1

15 April 1945

SUBJECT: Abortive Report of Aircraft 42-31591.

TO : COMMANDING OFFICER, 401st Bomb Group (H), Station.
ATTN: Air Statistical Officer.

1. The following is a report of abortive of Aircraft 42-31591 on 14 April 1945, caused by failure of #1 engine.

a. Failure occurred approximately 2 1/2 hours after take-off at an altitude of 6000 ft. Pilot reported power setting of 2500 RPM and 46" Hg. MP for take-off and a subsequent setting of 2200 RPM and 33" Hg. MP until failure occurred.

b. Pilot reported that engine had operated satisfactorily and all engine instrument indications were normal. The first indication of failure was a sudden drop to zero of oil pressure, fuel pressure and R.P.M. Pilot was unable to feather prop and it continued to rotate.

c. Ground inspection revealed the #6 cylinder push rods bent and the housings broken. The reduction gear bolts were sheared and the prop shaft broken free from the engine. A large quantity of metal was found in the oil sump.

d. The Form 41-B and allied forms pertinent to the Aircraft show that a compression check was made on this engine on 10 April 1945, with compression on cylinders between 120 and 130 psi. Oil consumption had remained steady at approximately 1 1/2 quarts per hour.

e. It is impractical to state definitely the cause of the failure, due to the condition of the engine after the prop had windmilled. The most probable cause is a broken piston or articulating rod or a sudden seizure of a bearing or the reduction gear train. No other cause is known which would result in a complete loss of RPM's, bent push rods and broken prop shaft.

CHARLES W. HUNT,
Capt., Air Corps,
Group Engineering Officer.

Eug

LEAD SQDN 94th O GP

Combat Sq. Leader: LT COL SILVER Date: 13 April

Deputy Sq. Leader: COLE

Deputy Gp. Leader: COLE

SIEDER (SILVER)
612 SO CASWOCK
613 IN MACRO
614 IW GOLFCRUS
315 IY BUZZARD
IY D 8550 PFF ✓

LEAP
SC A 7628 ✓
COLE
IY NK ~~8825~~ PFF ✓
J 8825 PFF ✓

SMITH
* SC L 8637 ✓
HOWARD
SC B 1662 ✓

GUY
SC X 7634 ✓
GUILER
SC Y 8541 ✓
MULVIHILL
SC D 6992 ✓
ANLERS
SC P 1891 ✓

KAMPER
* SC N 8508 ✓

HAZELTON
SC O 9995 ✓
BLONQUIST
SC V 8810 ✓

SPARES

REYNOLDS
SC H 2398 ✓

SPARE LEADS: IY F 8449 Disp 80 PFF
IY L 8941 " 24 VIS

GROUND SPARES: IY ~~K~~ ^{S 0468} 8647 Disp 2
SC M 7039 " 11

0200 - 0800 RGG
0800 - 1400 RY
1400 - 2000 RG

12 x 500 GP
1/10 1/40

W SQ 94TH C GROUP

Combat Sq. Leader: LT GERBER Date: 14 April 1945

Deputy Sq. Leader: LT EGLIN

Deputy Gp. Leader: LT COLE

612 SC JAMROCK
613 IN MACRO
614 IN GOLFCUB
615 IY BUZZARD

GERBER

IY C 2033 PFF ✓

GIBSON

EGLIN

IN ~~S 2468~~
K 8677 ✓

IY P 6247 ✓

SALISBURY

SORENSEN

IN B 7151 (RCM) ✓

IN G 8791 ✓

YEARGAN

VIEHMAN

JAMES

REINHARD

IN D 7322 ✓

IN H 8077

IN P 2012 ✓

IN U 8425 ✓

AYRE

IN A 7931 ✓

GRAY

CAMERON

IN R 7780 ✓

IN T 8646 (RCM) ✓

SPARE LEADS: PFF IY F 8449 Disp 50
VIS IY L 8941 " 24

GROUND SPARES: IN ~~E 8677~~ ^{S 2468} Disp 2
SC M 7089 " 11

HIGH SQDN 94th C GP

Combat Sq. Leader: POST Date: 14 April

Deputy Sq. Leader: LOVELL

Deputy Gp. Leader: COLE

612 SC JAWOCK
613 IN MACRO
614 IW GOLJULUB
615 IY BUZZARD

POST

IY S 3653 PFF ✓

EFRENBURG

LOVELL

IN S 2947

IY T 8454 PFF ✓

SHEPHERD

MAHARICK

IN A 8459 ✓

IN J 1591

SHUNK

LEVY

LONG

TRIPPI

IN V 6842

* IN D 6688

IN C 8160 ✓

IN F 6318

MC KENNY

IN W ~~8767~~
8767

KING

LOVELACE

* IN P 8758

IN N 8862

SPARES:

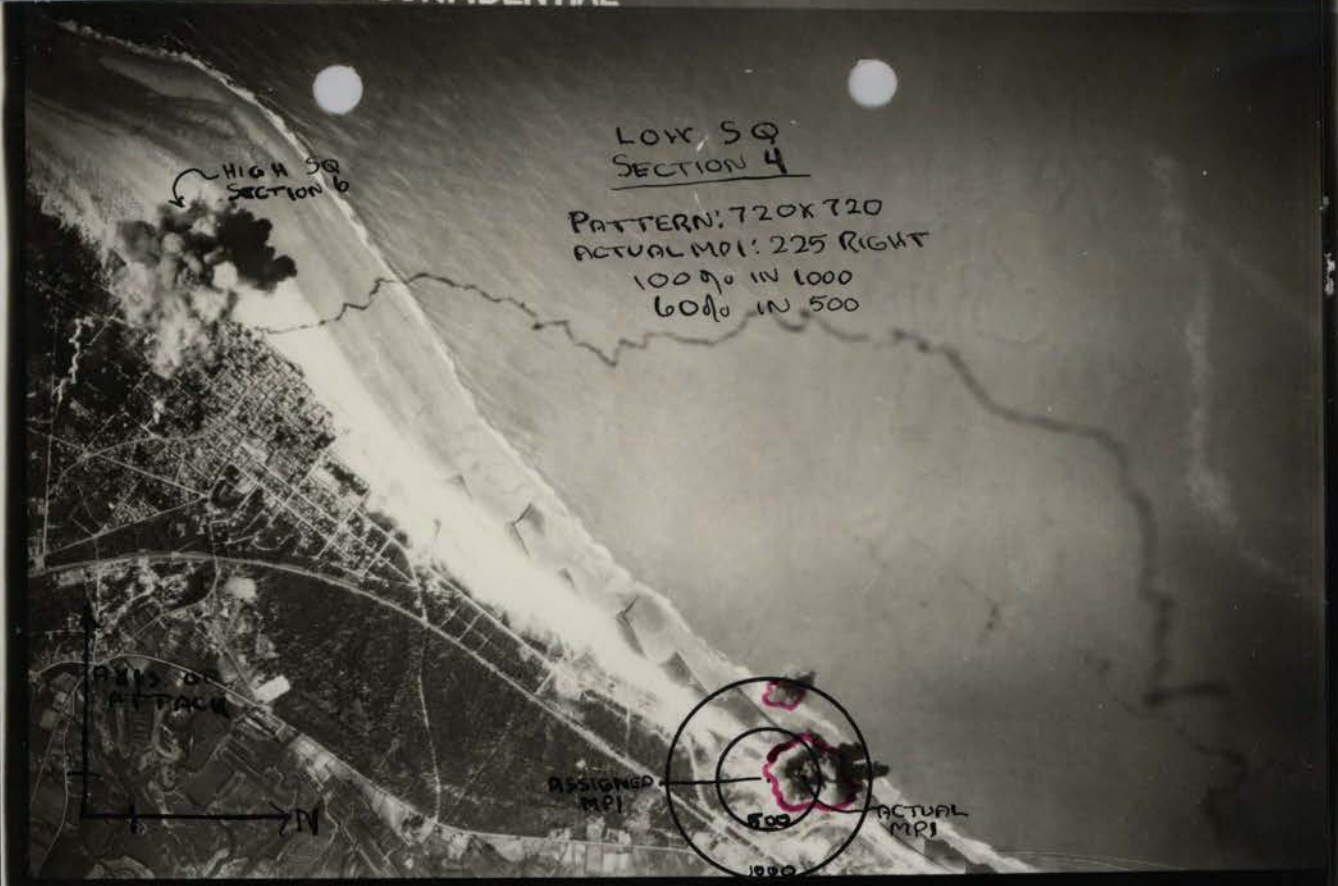
EVANS

IN U 7706

SPARES LEADS: PFF IY F 8449 Disp 50
VIS IY L 8941 " 24

GROUND SPARES: IW ^{S 2468} ~~K 8877~~ Disp 2
SC M 7039 " 11

CONFIDENTIAL

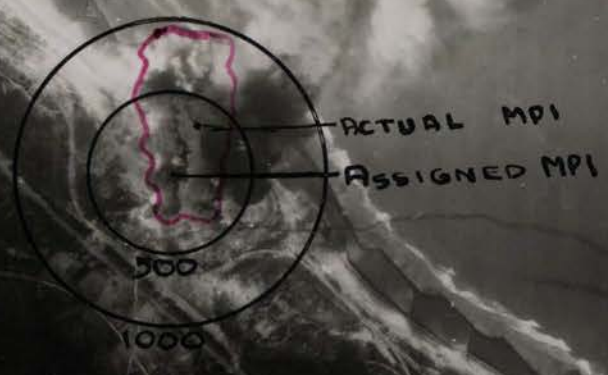
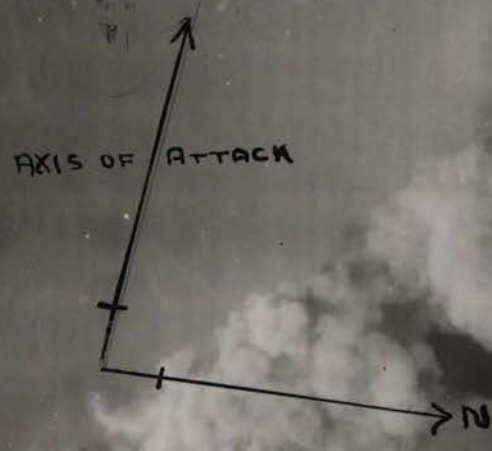


SAV-401 11357- 1815-4-4514 8941 -7-14500X ROYAN
LOW-4
CONFIDENTIAL

LEAD SQ
SECTION 1

PATTERN: 600 X 1110
ACTUAL MPI: 300 OVER
90 RIGHT

100 ft. IN 1000
70 ft. IN 500



(SAV-401 113548 X 15. 4. 45X4 8449-12 15000) ROYAN
LEAD-1
CONFIDENTIAL

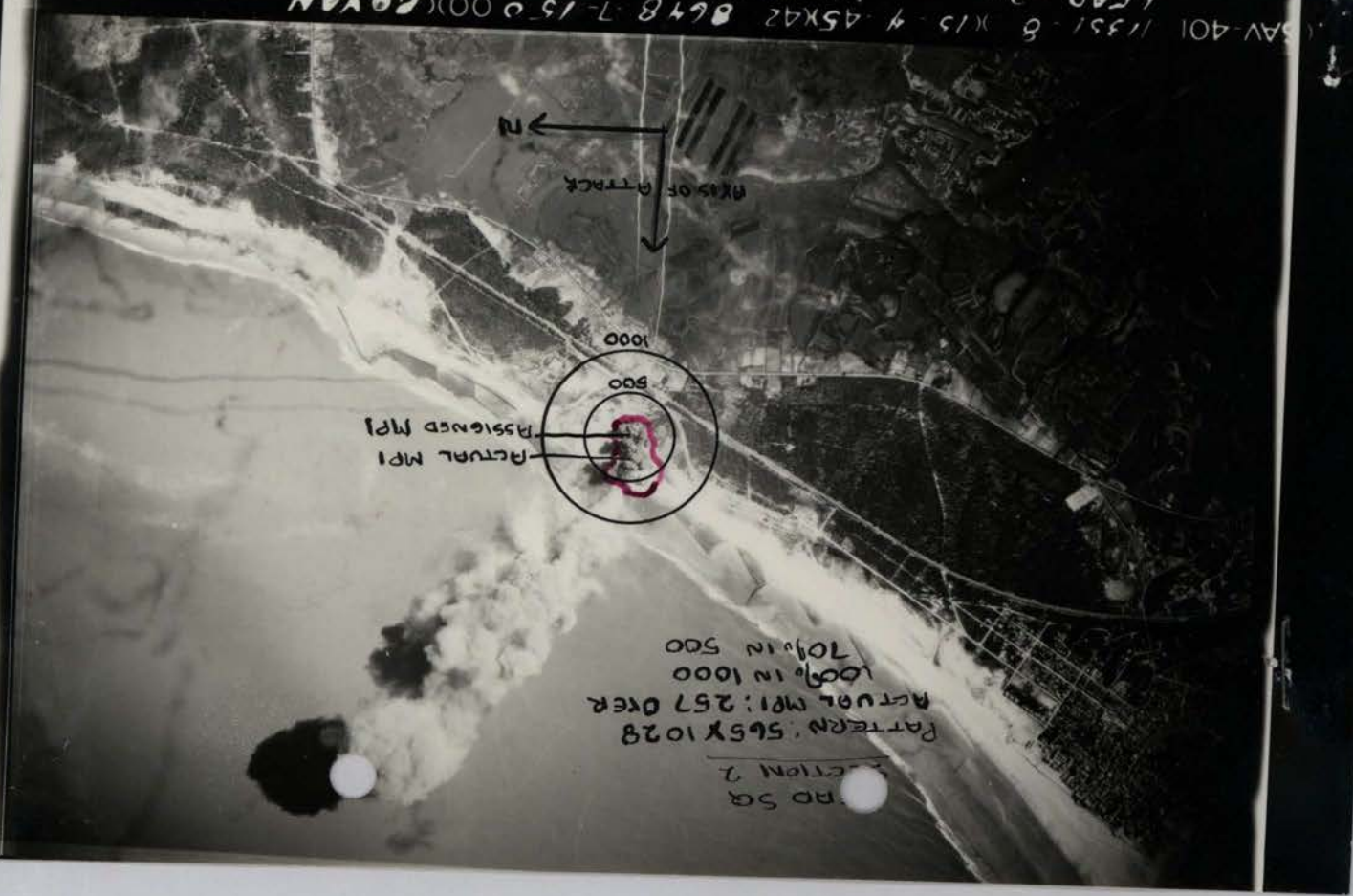
High SQ
SECTION 5

PATTERN: 600 X 1200
ACTUAL MPI: 1500 RIGHT
100% IN 2000
04% IN 1000



AV-401 11353-7 X15-5-4544 8653-12 155 00 (ROYAN)
HIGH-5-
CONFIDENTIAL

CONFIDENTIAL
LEAD - 2 -
SAV-401 11351-Q (15-4-45X42 8678-7-15-00)(ROYAN)



LOW 50
SECTION 3

PATTERN: 720 X 720
ACTUAL MPI: 240 OVER
240 RIGHT
100% IN 1000
90% IN 500

