

OPERATIONS RECORD BOOK

DETAIL OF WORK CARRIED OUT

By No. 433 (R.C.A.F.) Squadron

SECRET

PAGE No. 1

*12345-23456 Wt. 23456-2345 734 10/14 U.S. 234

FOR THE MONTH OF February, 19 45

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
1st Feb.	Lancaster I	Target, all A/C:- "LUBWIGSHAVEN"					Appendix B.I, Battle Order
1st Feb.	Lancaster I "A" NC-460	(Captain) JB418 S/L H.K. Stinson	DFC Bombing	15:23		<p>Bomb load for this A/C:- 1 x 1000 lbs., 1 x 500 lbs., & 468 x 4 lbs. Incend. (14 x CP. No. 14-C.6/10.)</p> <p>8/10ths cloud, tops 6-7,000 feet. Target identified by red flares and green stars, red and green T.I. Bombed at 19:28 hours from 17,000 feet, heading 017T, speed 160, on centre of red-T.I. A/C was late on run in to target. Red and green T.I. seen in distance but they burnt out. Sky markers were above. Was going to bomb glow of fires when some red T.I. went down, bombed centre of them. The area where the red T.I. went down was covered with fires burning intensely. R/P encountered at target, 19:28.2 hours, 17,000 feet. A/C was hit. Crashed between Dalton and Diahforth at 23:39 hours. ^{Boat} A/C and A/B bailed out, other members of the crew were killed in the crash.</p> <p>JB418 S/L H.K. Stinson, DFC, Pilot, 46 trips, 17 pts., 39:55 hours. J25716 F/O D.J. McMillan, Navigator, 23 trips, 83 points, 117:35 hours. JB9146 F/O J.T. McShane, Wireless Operator, 21 trips, 75 points, 106:00 hours. J92192 F/O R. Pierson, Mid-upper Gunner, 22 trips, 78 points, 111:10 hours. 187130 R.A.F., F/O E.H. Thompson, Flight Engineer, 21 trips, 75 points, 106:00 hours. These figures include this last operation.</p>	No. 230

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
1st Feb.	Lancaster I "M" PA-219	(Captain) J16120 F/L N.D. Mara	DPC Bombing	15:33	23:00	Bomb load for this A/C:- 1 x 4000 lbs. & 1480 x 4 lbs. Incend. 4/5/10ths stratus, tops 5,000 feet, visibility above excellent. Target identified by flares and visual of built up area seen through cloud, checked on Gee. Bombed at 19:23 hours from 16,500 feet, heading 078T, speed 165, nil wind, on built up area at A/P, visually checked Wanganui, could not be bombed as it was at A/C height. Wanganui too high and seemed scattered. Other bombing seen appeared on A/P. Seemed like a good raid, sky markers could have been better. No congestion over target, tactics O.K.	
1st Feb.	Lancaster I "L" NG-441	(Captain) J8917 F/L D.S. Rogers	Bombing	15:20	23:09	Bomb load for this A/C as above. 3/10ths broken low stratus, tops 4/5,000 feet, visibility good. Target identified by green T.I., red flares and green stars. Bombed at 19:21.2 hours from 16,000 feet, heading 080T, speed 160, on centre of green T.I. Green T.I.'s appeared scattered and Wanganui appeared off. Red T.I. dropped later in centre of fires. Target covered by string of I.B. starting to take good hold. Heavy congestion, route good also tactics. Glow of fires seen about 50 miles away.	

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R.A.F.
FORM 541.

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*12312-25113 W/L 48722-1155 738 12/44 T.S. 300

FOR THE MONTH OF February, 19 45

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
1st Feb.	Lancaster I "P" PB-903	(Captain) J19459 P/O E.R. Smyth	Bombing	15:24	23:18	Bomb load for this A/C:- 1 x 1000 lbs., 1 x 500 lbs., & 1400 x 4 lbs. Incend. 10/10ths strata cu., tops 10000 feet, visibility good. Target identified by red flares and green stars. Bombed at 19:27 hours from 15,500 feet, heading 078T, speed 160, on approximate position where Wanganui flares had disappeared in clouds. No T.I. seen. Fires seen in east of river bank as A/C was making run in through break in clouds, 1 x 500 lbs. hung up and brought back. Right on target. Glow of fires seen 50 miles away.	
1st Feb.	Lancaster I "G" PB-893	(Captain) J82607 P/O G. Walton	Bombing	15:26	21:54	Bomb load for this A/C:- 1 x 4000 lbs. & 1376 x 4 lbs. Incend. 10/10ths st. cu., tops 8,000 feet, visibility above good. Target identified by sky markers, red and green stars checked on Gee. Bombed at 19:20.7 hours from 15,000 feet, heading 078T, speed 170, on centre of three sky markers. T.I. seen cascading at 19:14 hours, sky markers were plentiful and well placed. Bombing not assessed. Glow of I.B. below cloud. Landed at Woodbridge. Fair attack, tactics and route O.K., no difficulties, no camera.	
1st Feb.	Lancaster I "H" NG-232	(Captain) J89783 P/O J.D. O'Neil	Bombing	15:21	22:18	Bomb load for this A/C:- 1 x 1000 lb. 1 x 500 lb. & 1400 x 4 lbs. Incend. 10/10ths cloud, 6,000 feet, visibility good. Target identified by red and green T.I. and red flares and green stars. Bombed at 19:20.7 hours from 17,000 feet, heading 068T, speed 155, zero wind, on centre of flares, red and green stars. No ground markers seen on account of clouds. Bombed Wanganui. Large glow seen under cloud base. Landed at Waterbeach. Tactics on way not good, would have been better if above cloud top. Straight and level at time of photo.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
1st Feb.	Lancaster I "E" NG-233	(Captain) R171272 W/O Smyth, M.R.	Bombing	15:25	22:30	Bomb load for this A/C as above. 7/10ths cloud, visibility good. Target identified by red flares and green stars. Bombed at 19:21.1 hours from 16,200 feet, heading 070E, speed 160, on centre of fires. Did not bomb Wanganui as flares were too bright. T/A covered with strings of I.B. One large explosion seen at 19:21 hours. Landed at Mandelham. Tactics good on way out but on the way back icing at 12,000 feet around French coast.	
2/3 Feb.	Lancaster I	Target, all A/C: "WIESBADEN"				Bomb load, each A/C: 1 x 4000 lbs. 4 1484 x 4 lb. Incend.	Appendix B.II
2/3 Feb.	Lancaster I "C" PR-908	(Captain) G35376 P/O W.C.R. Simpson	Bombing	20:25	03:20	10/10ths alto cu., visibility fair. Target identified by Gee and glow on cloud. Bombed at 23:53 hours from 17,000 feet, heading 082, speed 160, on Gee fix. Glow on cloud covering quite a large area, bomb bursts scattered. Tactics S.K., had difficulty with engines of A/C. A/C straight and level as cameras operated. No other A/C seen.	Battle Order No. 231.
2/3 Feb.	Lancaster I "D" MR-375	(Captain) J19459 P/O E.R. Smyth	Bombing	20:36	03:12	10/10ths alto cu., tops 19,500 feet, visibility good. Target identified by Gee. Bombed at 23:35.1 hours from 19,500 feet, heading 082, speed 170, on Gee fix. No EFP marking, the odd bomb flash seen in T/A, but due to cloud condition assessment impossible. Tactics were difficult due to met. winds. A/C straight and level when camera operated. Rather a poor effort.	

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*(12121-2512) Wt. 28721-1156 734 10/44 T.S. 800

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
2/3 Feb.	Lancaster I "M" PA-219	(Captain) J16120 F/L N.D. Mara	BFC Bombing	20:42	03:22	10/10ths alto cu., tops 19,000 feet, visibility fair. Target identified by D.R. and glow. Bombed at 23:44.1 hours from 18,500 feet, heading 080, speed 160. Quite a few bomb bursts could be seen through the cloud and consider- able glow. No assessment made. Tactics and mt. didn't agree. A/C straight and level at bombing time and camera used. 4 other A/C seen at bombing time. Poor raid.	
4th Feb.	Lancaster I	Target, all A/C:- "BHU"				Bomb load, each A/C:- 1 x 4000 lb., & 1504 x 4 lbs. Incend.	Appendix B XII
4th Feb.	Lancaster I "C" PB-908	(Captain) J39529 F/O J.P. Farrell	Bombing	17:29	00:26	7/10ths light cloud, 13,000 feet, visibility good. Target identified by Gee fix and red T.I.'s cascading. Bombed at 20:51 hours from 20,000 feet, heading 358T, speed 150, aimed at central point between two red T.I.'s. Numer- ous photo flashes and yellow glow through cloud. Glow seen for 60 miles homeward. Small leak hole in bomb bay, T/A. 20:50 hours, 20,000 feet. Tactics sound, good concentra- tion of A/C. A/C steady on camera, run appeared to be effective.	Battle Order No. 232.
4th Feb.	Lancaster I "D" MB-375	(Captain) J19459 F/O H.R. Smyth	Bombing	17:24	23:56	10/10ths light strata cu., tops 15,000 feet, visibili- ty good. Target identified by Gee fix. Bombed at 20:49.3 hours from 18,500 feet, heading 070T, speed 170, on Gee as briefed. Odd bomb flashes seen under cloud, score crew dead ahead at R/P. Two fighter flares descending into cloud to port about 2 miles from R/P. Glow of fires seen for about 70 miles. Tactics sound, winds lighter than briefed, no marking. A/C ralled during camera run due to slip stream.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
4th Feb.	Lancaster I "H" HG-232	(Captain) J89783 P/O J.D. O'Neill	Bombing	17:23	23:55	10/10ths low cloud, tops 5,000 feet, visibility fair. Target identified by Gee fix. Bombed at 20:50.5 hours from 18,000 feet, heading 05E, speed 160, on red markers on ground. Glow of red bomb explosion seen after release of bombs, glow of fires seen for 115 miles. Tactics suitable. More cloud than briefed in T/A, marking late and insufficient. A/C unsteady on camera run due to slip stream.	
4th Feb.	Lancaster I "J" HG-779	(Captain) J13353 P/O J.P. Brown	Bombing	17:41	23:59	10/10ths stratus, tops 10,000 feet, clear over target. Target identified by Gee co-ordinates checked by sky markers. Bombed at 20:57.2 hours from 19,500 feet, heading 054E, speed 158, on centre of glow of fires checked by Gee fix. Sky markers seemed late and necessitated an orbit. Markers seen cascading at 20:51 hours. Other bombing seemed fairly well grouped, no large explosions. Glow of fires under cloud seen for approximately 100 miles after leaving target. Good concentration of bombing, fires seemed to be starting under cloud. No congestion, good trip.	
4th Feb.	Lancaster I "K" HG-459	(Captain) J25839 P/O A.F. Heathcote	Bombing	17:30	23:48	10/10ths stratus, tops 10,000 feet, visibility good. Target identified by red and green T.I., Gee check and glow. Bombed at 20:49.8 hours from 19,000 feet, heading 047, speed 155, on centre of red glow. T.I.'s disappeared quickly in cloud. A large red glow seen through cloud and seemed concentrated. Glow could be seen for 80 miles. Assessment impossible. Fair concentration, A/C straight and level at bombing and camera time. Route and tactics good, no difficulty.	

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14-281-25111 W/L 44889-1114 Form 541 25, 700
14-281-25111 W/L 44889-1114 1204 114 75, 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
4th Feb.	Lancaster I "M" PA-219	(Captain) J16120 P/L N.D. Mara	DFC Bombing	17:34		This A/U failed to return from this operation. J16120 P/L N.D. Mara, DFC, Pilot, 21 trips, 80 points, 128:55 hours. J37847 P/O G.H. Howald, 2nd Pilot, 1 trip, 6:20 hours. J29614 P/O W.L. Melbourne, Navigator, 18 trips, 69 points, 112:35 hours. J89092 P/O N.A. Hurst, Wireless Operator, 17 trips, 65 pts., 108:00 hours. J37832 P/O A.J. Tyrrell, Air Bomber, 19 trips, 73 pts., 119:25 hours. J88009 P/O W.G. Whitton, Air Gunner, 19 trips, 56 pts., 102:40 hours. 3011705 R.A.F., Sgt. Sims, L.J., Flight Engineer, 18 trips, 69 pts., 115:55 hours. R179342 W/O Sheeran, B.T., Mid-upper Air Gunner, 19 trips, 73 points, 119:25 hours.	
7/8 Feb.	Lancaster I	Target, all A/U:- "GOOH"				Bomb load, each A/U:- 1 x 4000 lbs., 6 x 250 lbs. 10 x 500 lbs. Appen. B.III, Battle Order	
7/8 Feb.	Lancaster I "C" PB-908	(Captain) J39529 P/O J.P. Farrell	Bombing	19:10	01:30	Mission was abandoned. 10/10ths st., base 6,000 feet, No. 234. top 8,000 feet. Target identified by green and red T.I. checked on run on Gee lattice line run up. All bombs brought back. T.I. on time, M/B not heard till 22:24 hours giving bombing instructions. Orbited until M/B cancelled raid. Other bombing seemed concentrated in small compact area. One flak hole in M/U Turret, 5140 0616, 22:27 hours, 5600 feet. Raid well planned but M/B and met. were un- fortunate. No difficulties with route or tactics.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
7/8 Feb.	Lancaster I "D" ME-375	(Captain) J26099 F/L F.D. Holmes	Bombing	19:23	01:10	10/10ths thin stratus, tops 4,000 feet, visibility good. No markers seen, Gee fix over target. Only glow seen through cloud. All bombs brought back. M/B heard at 22:20 hours saying, "Bomb only if red and green seen", then at 22:24 hours, "Call it off".	
7/8 Feb.	Lancaster I "P" FB-903	(Captain) J25839 F/O A.F. Heathcote	Bombing	19:11	02:26	Abandoned mission over target, no T.I. or M/B. 10/10ths cloud, base 5,000 feet, tops 8,000 feet. Glow seen under cloud, checked on Gee lattice line run. No T.I. seen nor M/B heard, very distinct glow beneath cloud, glow seemed concentrated. No other bombing seen. Jettisoned 1 x 4000 lbs., 01:43 hours, 8,000 feet, 5415N 0112E, to lighten load, returned to base. R/T W/T U/S. Remaining bombs brought back. Raid a dead loss without radio, no other difficulties.	
7/8 Feb.	Lancaster I "C" FB-893	(Captain) G1346 S/L D.J. Cleland	Bombing	19:06	01:19	No attack on instructions of M/B. 10/10ths stratus, base 5,000 feet, tops 8,000 feet. Flashes seen over target, checked on run up on Gee lattice line. All bombs brought back. Explosions seen below cloud, no markers seen over target. M/B not heard until 22:23 hours. Orbited before target to approach on Gee line and on run into target heard M/B call off raid. Other bombing not seen but explosions below were compact. Could have been a good attack if M/B could have been heard, no other difficulties.	

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(12785-2211) W1. 2282-114 104 243 T.S. 782
(12789-2211) W1. 2282-114 104 243 T.S. 782

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
7/8 Feb.	Lancaster I "J" NN-779	(Captain) J89783 P/O J.D. O'Neil	Bombing	19:04	01:37	Abandoned mission on instructions from M/B at 22:23 hours. 10/10ths cloud, base 5,000 feet, visibility poor. Several bomb bursts seen, exceptionally large orange flame shot up at 22:22 hours. Brought back full bomb load. M/B gave basement at 22:01 hours down to 5,000 feet and on run off, instructed "Call it off". Majority of other A/C above. Unable to assess effectiveness of effort.	
7/8 Feb.	Lancaster I "K" NG-459	(Captain) J92764 P/O R.K. Harrison	Bombing	19:13	01:04	Abandoned mission on M/B instructions. (call it off) at 22:23.2 hours. 10/10ths cloud, tops 8,000 feet, visibility good. Unable to identify target except for glow through clouds. Numerous bomb flashes on run up. Full bomb load brought back. Unable to hear M/B until 22:15 hours, instructed not to bomb unless red and green T.I's seen, on run up and bomb doors open when instructed to "Call it off". Difficult to assess results due to cloud condition.	
7/8 Feb.	Lancaster I "L" NG-441	(Captain) J13353 P/L J.F. Brown	Bombing	19:17	01:31	10/10ths strato cu., tops 4/5,000 feet, visibility good. No markers seen, target identified by Gee fix. Only glow seen under cloud, M/B not heard. Made three orbits and left target at 22:35 hours but no markers came down. Brought back total bomb load. Tactics good, adhered to, also good route.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
13/14 Feb.	Lancaster I	Target, all A/C:- "DRESDEN"				Bomb load, each A/C:- 1 x 4000 lbs., 4 x 250 lbs., 5 x 500 lbs.	Appendix B.IV Battle Order
13/14 Feb.	Lancaster I "C" EB-908	(Captain) G35376 W/O W.G.R. Simpson Bombing	Bombing	21:16	07:11	Clear over target, visibility excellent. Target identified by fires and T.I.'s cascading. Bombed at 01:44.6 hours from 18,000 feet, heading 060T, speed 150, on edge of fires to west of A/P as directed by M/B. Mass of flames illuminated, giving clear outline of fires. Several bomb bursts and glow of fires seen for close to 100 miles both ways. Landed at Hardwick due to shortage of petrol. Tactics sound, met as briefed, no difficulties, target easily identified, effective trip.	No. 239.
13/14 Feb.	Lancaster I "D" ME-375	(Captain) R171272 W/O Smyth, M.R.	Bombing	21:43	07:21	Clear, visibility excellent. Target identified by fires seen for 60 miles. Wanganui flares checked by HES. Bombed at 01:45 hours from 17,000 feet, heading 030T, speed 180, on centre of fires as instructed by M/B. Heavy pall of smoke with numerous fires, glimpse of buildings. Target illuminated by glow of fires. Two Wanganui flares seen, red with green stars. Glow of fires seen for 75 miles homeward. Excellent tactics for met. Difficulty with Oxygen as far as Germany, flew below 10000 feet to the point. Target readily identified, well and truly bombed, steady camera run.	

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*1193-5211) WL 2889-1181 700 813 T.S. 700
*1193-5211) WL 4889-2381 1200 124 T.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
13/14 Feb.	Lancaster I "G" PB-893	(Captain) J89607 P/O G. Walton	Bombing	21:26	06:52	Clear, visibility good. Target identified by fires and T.I.'s cascading. Bombed at 01:31.6 hours from 18,000 feet, heading 079T, speed 155, on centre of concentration of red T.I.'s. Visual check on river and some buildings, well lit up and numerous fires seen. Heard M/B after bombs gone. Glow of fires seen 100 miles homeward. Landed at Hardwick due to shortage of petrol. Tactics good, met. pretty well as briefed. Good concentration of A/C over target. Bombing seemed well directed. Good target and well bombed. H2S and Gee U/S on return trip.	
13/14 Feb.	Lancaster I "K" HG-459	(Captain) J19459 P/L E.E. Smyth	Bombing	21:17	07:23	Clear, visibility excellent. Target identified visually by fires and bend in river with bridges, also by red and green T.I. Bombed at 01:30.7 hours from 18,500 feet, heading 078, speed 150, on built up area, slightly to starboard of main concentration of fires. Markers were rather scattered at time of bombing. Other bombing seemed very effective. M/B not heard due to interference. Fires from previous attack seen from 100 miles over target with volumes of smoke and flame on whole of T/A. Excellent attack. Met. and tactics and route were O.K. No difficulties, straight and level for photo.	

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				UP	DOWN		
13/14 Feb.	Lancaster I "L" NC-441	(Captain) J8917 F/L D.S. Rogers	Bombing	21:24	07:25	Clear over T/A, visibility good. Target identified by T.I.'s cascading. H2S and glow of fires seen for 50 miles. Bombed at 01:31.7 hours from 19,000 feet, heading 084T, speed 150, on centre of green T.I.'s, overshoot 2 seconds, as instructed by U/S. Entire T/A was a mass of fire on both sides of river. Well lit up by flares, some incendiaries off to port. Large explosion just south of bend in river emitting dense black smoke. Tactics and met. excellent, concentration of A/C in T/A fair. Target well marked and burning well from previous attack. Area damaged widespread and it appeared a successful raid.	
13/14 Feb.	Lancaster I "B" PB-905	(Captain) J25839 E/O A.P. Heathcote	Bombing	21:20	07:10	5/10ths cloud, visibility good, break in cloud at target. Target identified by Wangami flares, red with green stars and H2S. Bombed at 01:24 hours from 19,000 feet, heading 072 degrees T, speed 150 I.A.S., on centre of glow from fires with H2S check. Glow of fires seen plainly, could be seen from a great distance. Wangami flares seemed very scattered, perhaps due to late arrival at target. Landed at Hardwick, appeared to be well concentrated raid. D.R. compass went U/S.	

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(*1784-5211) WL 2282-1121 708 813 708
(*1785-5211) WL 4496-1284 1204 114 708

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				UP	DOWN		
13/14 Feb.	Lancaster I "H" MG-232	(Captain) J89783 P/O J.D. O'Neil	Bombing	21:15	06:35	10/10ths strata cu., with good breaks, visibility moderate. Target identified by red T.I.'s cascading and glow of fires. Bombed at 01:43.5 hours from 18,500 feet, speed 160, heading 050T, on centre of fires as directed by M/B. Immense glow from fires, glimpses of built up area through flashes, fires covered extensive area. Landed at Hardwick due to petrol shortage. Tactics sound, met. as briefed, good concentration of A/C, target readily identified, M/B heard fairly clearly. Good effort.	
14/15 Feb.	Lancaster I	Target, all A/C:- "FOMERIANIAN BAY" (gardening)					Appendix B.XV Battle Order
14/15 Feb.	Lancaster I "C" PB-908	(Captain) J89420 P/O R.F. Saunders	Gardening	17:52	01:04	Mine loads- 6 x 1850 lb. Mk. VI Mines. Mined at a position 5444.50N 1317.29E. 313 degrees - 8.7 miles from 5441.00N 132630E. Mined at 21:11.16 hours from 15,000 feet, heading 161T, speed 201. 10/10ths thin strata cu., tops 10,000 feet, visibility fair. Felt mines leave A/C, made visual check. Sound tactics. Cloud conditions prevented visual check.	No. 240.
14/15 Feb.	Lancaster I "D" MB-375	(Captain) J26099 P/L P.D. Holmes	Gardening	18:03	01:32	Mine loads- 5 x 1850 lb. Mk. VI Mines. Mined at a position 5444.50N 1317.29E. 313 degrees - 2.7 miles from 5441.00N 1326.30E. Mined at 21:42.20 hours from 15,000 feet, heading 160T, speed 201. 10/10ths strata cu., tops 4,000 feet, visibility good. Did two orbits, released mines on last orbit, felt mines leave A/C and parachutes were seen to open. Winds stronger and cloud conditions not as briefed. Mines laid in briefed area.	

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				Up	Down		
14/15 Feb.	Lancaster I "E" NG-233	(Captain) J93063 P/O H.E. Batty	Gardening	17:54	01:00	Mine load:- 6 x 1850 lb. Mk. VI Mines. Mined at a position 54°41.4'N 13°13.3'E. Bearing and distance 301 degrees 11 miles from 54°41.0'N 13°26.3'E. Mined at 21:11 hours from 15,000 feet, heading 170 degrees T, speed 203. 10/10ths cloud, tops about 8,000 feet, moderate visibility. Three mines hung up and brought back, visual check of bomb bay 50 miles from garden area. Tactics sound, winds stronger than forecast. Mines laid in allotted area.	
14/15 Feb.	Lancaster I "K" NG-459	(Captain) J92764 P/O R.K. Harrison	Gardening	17:55	01:33	Mine load:- as above. Mined at a position 54°41.4'N 13°13.3'E. 301 degrees 11 miles from 54°41.0'N 13°26.3'E. Mined at 21:38.7 hours from 15,000 feet, heading 167T, speed 206. (2 mines), released other four mines at 21:47.6 hours. 10/10ths cloud, tops 5-6,000 feet, visibility good. Orbited garden area three times and released mines on the second and third runs. Met. winds stronger than briefed. Visual check after leaving target. Mines laid in allotted area.	
14/15 Feb.	Lancaster I "L" NG-441	(Captain) J13353 P/L J.P. Brown	Gardening	17:42	00:55	Mine load:- 6 x 1500 lb. Mk. IV Mines. Mined at a position 54°44.25'N 13°09.4'E. Bearing and distance 295 degrees - 13.1 miles from 54°41.0'N 13°26.3'E. Mined at 21:13.54 hours from 15,000 feet, heading 169T, speed 201. 9 to 10/10ths layer and strata cu., tops 6-7,000 feet, visibility good. Checked visually to be sure mines gone. Mines laid as briefed.	

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*(1296-5511) Wt. 2200-2224 700 813 T.S. 700
*(1299-5511) Wt. 2200-2224 700 814 T.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
15th Feb.	Lancaster I	Target, all A/C:- "OSLO AREA" (Gardening)					Appen. B.XVI, Battle Order
15th Feb.	Lancaster I "C" FB-908	(Captain) 035376 P/O W.G.R. Simpson	Gardening	16:33	23:30	Mine load:- 6 x 1000 lb. Mk. VII Mines. Mined at a position 59.51.50N 10.37.32E. Bearing and distance 224 degrees 3.8 miles from 59.53.38N 10.41E. Mined at 20:34.25 hours from 15,000 feet, heading 016T, speed 207. 10/10ths cloud, tops 9,000 feet, visibility good. Diverted to Charter Hall. Good tactics, route free of trouble.	No. 241.
15th Feb.	Lancaster I "K" NG-459	(Captain) J89607 P/O G. Walton	Gardening	16:35	23:59	Mine load as above. Mined at a position 59.51.55N 10.37.32E. Bearing and distance 224 degrees 3.8 miles from 59.53.38N 10.41E. Mined at 20:37.35 hours from 15,000 feet, heading 016T, speed 201. 10/10ths strata cu., tops 8/9,000 feet, visibility good. Diverted to Charter Hall. Good tactics and route.	
15th Feb.	Lancaster I "M" NG-493	(Captain) 249459 P/L E.R. Smyth	Gardening	16:30	23:50	Mine load:- 6 x 1500 lb. Mk. IV Mines. Mined at a position 59.52.36N 10.40.00E. Bearing and distance 224 3.8 miles from 59.53.38N 10.41E. Mined at 20:34.30 hours from 15,000 feet, heading 011T, speed 201. 10/10ths strata cu., tops 9,000 feet, visibility good. H/F at Oslo Harbour. Diverted to Charter Hall. Tactics good, also route, no trouble.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
18th Feb.	Lancaster I	Target, all A/C:- "GMLC AREA"				Mine load, each A/C:- 6 x 1500 lb. Mk. IV Mines.	Appen. B. VIII
18th Feb.	Lancaster I "D" NG-375	(Captain) J26099 P/O P.D. Holmes	Gardening	15:49	22:10	Mined at a position 572635N 104240E. Bearing and distance 170 - 20.7 miles from 574430N 103930E. Mined at 19:02.12 hours from 10000 feet, heading 188, 10/10ths cloud, tops above 10,000 feet, visibility poor, base 4,000 feet. Tactics and route good. A/C level when mines released.	Battle Order No. 252.
18th Feb.	Lancaster I "L" NG-441	(Captain) J89607 P/O G. Walton	Gardening	15:48	22:14	Mined at a position 572635N 104240E. Bearing and distance 170 - 20.7 miles from 574430N 103930E. Mined at 19:06 hours from 10,000 feet, heading 187, speed 190. 10/10ths strato cu., tops above 10,000 feet, visibility poor. Tactics and route good, A/C level when dropping mines.	
18th Feb.	Lancaster I "E" NG-233	(Captain) J93063 P/O H.E. Batty	Gardening	15:52	22:09	Mined at a position 572610N 104240E. Bearing and distance 175 - 20.7 miles from 574430N 103930E. Mined at 19:07.42 hours from 10,000 feet, heading 188, speed 205. 10/10ths thin strato, tops above 10,000 feet, visibility poor. Tactics good and adhered to, met. wrong over garden. A/C straight and level at time of release of mines.	

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*12311-2511) Wt. 2722-4120 754 1064 T.S. 700

FOR THE MONTH OF February, 19 45

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
20/21 Feb.	Lancaster I	Target, all A/C:- "DORCHMUND"					Appen. B. XVIII Battle Order
20/21 Feb.	Lancaster I "O" PB-908	(Captain) J35376 P/O W.G.R. Simpson	Bombing	21:11	04:06	Bomb loads:- 1 x 4000 lbs., & 1500 x 4 lb. Incend. 9-10/10ths strato cu., tops 6-7,000 feet, visibility good above. Target identified by green flares and red stars checked on Gee, T.I. burned out before bombing. Bombed at 01:09 hours from 19,000 feet, heading 025T, speed 155, on centre of three green flares with red stars. Flares were on time, plentiful and seemed well grouped. Target was burning well at time of bombing. No large explosions. Glow seen for at least 30 miles after leaving target. Good attack, good concentration of A/C but no congestion. Route and tactics O.K. but winds did not work out very well. Avoiding predicted flak at time of photo.	No. 2A3
20/21 Feb.	Lancaster I "E" NG-233	(Captain) R171212 P/O M.R. Smyth	Bombing	21:14	04:09	Bomb loads:- 1 x 4000 lbs., & 1950 x 4 lbs. 10/10ths low stratus, tops about 3,000 feet, visibility very good. Target identified by green and red Wanganui, plus Gee check. Bombed at 01:09.5 hours from 18,500 feet, heading 026, speed 155, on centre of glow under cloud. Flak and Wanganui sparse and scattered. Rear Gunner got glimpse of target through cloud and saw huge oil tank burning. Glow of S/L's lit up cloud. Dummy fire sites operating around target. Good tactics, winds and cloud over target not as briefed. Fair concentration of A/C, steady camera run. Target obscured, difficult to assess results. Navigation lights of other A/C seen to 0430E outward and from French coast homeward.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21 Feb.	Lancaster I "P" FB-903	(Captain) J39529 F/O J.P. Farrell	Bombing	21:22	04:36	Bomb load as above. 10/10ths strato cu., tops 10,000 feet, approximately, visibility excellent. Target identified by green and red flares checked on Gee. Bombed at 01:04.6 hours from 18,000 feet, heading 025T, speed 160, nil wind, on span of two flares. Marking was on time, plentiful and seem- ed well placed. Flares cascaded at 01:00 hours and kept replenished. Other bombing in glow of fires. Glow seen 75 miles after leaving target. Tactics and route good, net. proof. Time of waves was good. Straight and level for photo. Combat with U/I T/R A/C, no claims or damage.	Appm.C.V.
20/21 Feb.	Lancaster I "Q" FB-893	(Captain) J89607 F/O G. Walton	Bombing	21:15	04:05	Bomb load as above. 8-10/10ths low stratus, tops 3,000 feet cirrus, visi- bility good above. Target identified by red and green T.I. and Wangamui, Gee check. Bombed at 01:05 hours from 19,000 feet, heading 040, speed 160, on centre of concen- tration of red and green T.I. Ground marking was good but Wangamui seemed rather scattered. T.I.'s were in rough circle, red and green inter-mingled. Bomb bursts were seen amongst T.I.'s and incendiary fires scattered around area of T.I. One fairly large explosion at 01:04 hours, orange coloured and lasting momentarily. A fair raid according to early indication. A/C straight and level for photo, concentration fair to good, tactics good and route O.K. Indications point to a good attack.	

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*12321-25111 Wt. 28722-2136 724 2044 T.S. 988

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT.	REFERENCES.
				Up	Down		
20/21 Feb.	Lancaster I "J" NH-779	(Captain) J39642 P/O R.E. Johnston	Bombing	21:19	04:35	Bomb load:- 1 x 4000 lbs. & 1500 x 1 lb. Incend. 10/10ths strato cu., tops 4000 to 5000 feet, visibility excellent. Target identified by red and green T.I. cascading at 01:04 hours, checked on Gee. Bombed at 01:08 hours from 18,500 feet, heading 028T, speed 180, on centre of glow of other bombing. Markers seemed in two benches and no Wanganui, other bombing not seen. Glow seen for about 120 miles after bombing. Seemed good raid, no difficulties, good concentration of A/C over target, route and tactics O.K., met. winds not right. A/C not straight and level for photo.	
20/21 Feb.	Lancaster I "K" NG-159	(Captain) J92764 P/O R.I. Harrison	Bombing	21:21	04:29	Bomb load as above. 10/10ths strato cu., tops 5-6,000 feet, visibility good above. Target identified by green and red markers and red flares with green stars, checked on Gee. Bombed at 01:14.7 hours from 18,000 feet, heading 029T, speed 155, on centre of three or four groups of red T.I. T.I. and Wanganui well concentrated, seemed well grouped. Other bombing seemed well grouped. Cookie explosions seen. Glow beneath clouds, seen for about 100 miles after leaving target. Seemed good attack, waves seemed at right times. No difficulties, route and tactics O.K., some met. variation. Straight and level for photo.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21 Feb.	Lancaster I "M" NG-493	(Captain) J19459 F/L E.R. Smyth	Bombing	21:18	04:28	Bomb load:- 1 x 1000 lbs. & 1950 x 4 lb. Incend. 9/10ths thin stratus, tops 6,000 feet, visibility good. Target identified by green flares and red stars, homed on Gee. Bombed at 01:09.2 hours from 19,000 feet, heading 030T, speed 160, on Gee fix. Sky markers nearly burnt out. Some bombed on Gee coordinate. Many bomb bursts under cloud base and three large glows well concentrated. Tactics good but fighter flares marked out route, out to bomb line. Straight and level when camera turned.	
20/21 Feb.	Lancaster I "N" NG-496	(Captain) J27716 F/L E.F. Bertram	Bombing	21:20	04:32	Bomb load:- 1 x 4000 lbs. & 1500 x 4 lb. Incend. 10/10ths thin strato, tops 5,000 feet, visibility good. Target identified by green flares and red stars, Gee line. Bombed at 01:10.3 hours from 18,500 feet, heading 025, speed 155, on centre of sky markers. Sky markers on straight line. Glow of fires and I.B. covered area of about 7 square miles. Good tactics, in middle of cork-screw when camera turned. Combat with ME-410, no claims.	Appen. C.W.
20/21 Feb.	Lancaster I "P" RA-509	(Captain) J93063 F/O H.E. Batty	Bombing	21:26	04:15	Bomb load:- 1 x 1000 lb. & 1950 x 4 lb. Incend. 10/10ths strata cu, tops 7 - 8,000 feet, visibility good. Target identified by green Wanganmi cascading and Gee check. Bombed at 01:10 hours from 18,000 feet, heading 024T, speed 155, zero wind used, on one green Wanganmi with red stars. Glow of fires seen. Dumpy Wanganmi on starboard (red) which was doused quickly. Tactics O.K., winds out. A/C in stream well concentrated in and out. Marking only fair and somewhat scattered. Difficult to assess. A/C steady on camera run.	

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*(1321-2212) Wt. 2872-4126 728 1044 U.S. 700

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
20/21 Feb.	Lancaster I "Q" RA-511	(Captain) 01346 S/L D.J. Cleland	Bombing	21:28	01:38	Bomb loads- 1 x 4000 lb. & 1500 x 4 lb. Incendi. 10/10ths thin stratus, tops 7,000 feet, visibility good. Target identified by red and green T.I. and green flares and red stars, Gee check. Bombed at 01:14.3 hours from 19,000 feet, heading 020E, speed 180, on centre of sky markers. Sky markers in straight line and well concentrated. Bomb bursts seen. Fires scattered over area 5-7 miles square. Good tactics, A/C straight and level when camera turned.	
20/21 Feb.	Lancaster I "R" RA-498	(Captain) 389783 P/O J.D. McNeil	Bombing	21:33	01:38	Bomb loads- 1 x 1000 lb. & 1250 x 4 lb. Incendi. 10/10ths stratus, tops 5-6,000 feet, visibility good. Target identified by sky marking and red and green T.I. and Gee check. Bombed at 01:12.8 hours from 18,000 feet, heading 023, on centre of concentration of T.I.'s. Almost completely covered by cloud but very large glow underneath indicated fair bombing and fire activity. A fairly large explosion at 01:12 hours. Showed to be a good raid. Concentration good, no difficulty encountered. A/C level for photo, altistream bad, route and tactics O.K., a good raid.	
20/21 Feb.	Lancaster I "U" RA-457	(Captain) 36269 P/L J.E. Vallance	Bombing	21:17	01:48	Bomb loads- 1 x 4000 lb. & 1500 x 4 lb. Incendi. 9/10ths cloud, 4-5,000 feet, visibility good. Target identified by red and green T.I., green flares and red stars, homed on Gee. Bombed at 01:16 hours from 19,000 feet, heading 026T, speed 160, on centre of glow. Sky markers burnt out, bombed glow of fires, hard to assess on account of clouds. Good tactics, met. wrong and also winds. Level when camera turned.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21 Feb.	Lancaster I "V" SW-273	(Captain) G20333 P/L R.W. Paterson	Bombing	21:23	04:46	Bomb load:- 1 x 1000 lb. & 1950 x 4 lb. Incend. 9/10ths strata cu., tops 2,000 feet, visibility good. Target identified by sky marking, red and green T.I. and Geo. Bombed at 01:13.6-hours from 18,500 feet, heading 025, on centre of green T.I. and fires. Ran up on sky markers but break in cloud allowed a visual on green T.I.'s and fires. The entire built up area seen as a mass of fire. Bomb bursts seen in incendiary areas. Could be seen for over 100 miles after leaving target. Concentration too tight for comfort and some congestion and slipstream. A/C in evasive action as camera went. Route and tactics good. A good effort.	
20/21 Feb.	Lancaster I "S" RA-512	(Captain) J13353 P/L J.P. Brown	Bombing	21:33	04:16	Bomb load:- 1 x 4000 lb. & 1500 x 4 lb. Incend. 9/10ths strato cu., tops 5,000 feet, visibility excellent above. Target identified by green and red flares seen cascading at 01:02 hours, Geo check. Bombed at 01:08.1 hours from 18,500 feet, heading 025T, speed 155, nil wind, on centre of three flares. Flares on time, plentiful and well grouped. Other bombing seemed on A/P. Large yellow explosion just before bombing. Reflection of glow of fires in cloud seen for 120 miles after leaving target. Good attack, covered quite an area but going well. Route and tactics O.K., met. winds not too good. Straight and level for photo.	

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113311-25111 Wt. 28222-2136 7204 10/44 U.S. 790

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
21/22 Feb.	Lancaster I	Target, all A/C:- "DUISBHC" (Captain)				Bomb load:- 1 x 4000 lb. & 1200 x 4 lb. Incend. each A/C.	Appen.B.XIX,
21/22 Feb.	Lancaster I "C" FB-908	C35376 F/O W.G.R. Simpson	Bombing	19:09	01:53	Wiggy haze, tops 3-4,000 feet, visibility good. Target identified by red T.I.'s cascading. Bombed at 23:07 hours from 19,000 feet, heading 044T, speed 165, on centre of red T.I.'s. Target burning well, long narrow strips of incendiaries, numerous bomb bursts, glow seen for close to 100 miles. Tactics sound, winds stronger and varied in direction. Late on target due to met. and starboard inner engine U/S. Marking plentiful and well placed. Target well hit, some scattered bombing. Camera run steady.	Battle Order No. 244.
21/22 Feb.	Lancaster I "E" NG-233	(Captain) G1346 S/L D.J. Glaland	Bombing	19:43	02:21	8/10ths thin alto stratus, tops 5/6,000 feet, visibility good. Target identified by red T.I. and Gee. Bombed at 23:10 hours from 18,500 feet, heading 040T, speed 180, on FFF yellow flares. No markers on bombing run, fires covered about 5 square miles. By Gee check fair amount of undershooting. Good tactics and route, A/C level when photo taken, should be very successful.	
21/22 Feb.	Lancaster I "C" FB-893	(Captain) J89607 F/O G. Walton	Bombing	19:27	01:56	6/10ths thin stratus, tops 12,000 feet, visibility good. Target identified by red T.I. checked on Gee. Bombed at 23:06 hours from 18,000 feet, heading 045T, speed 170, on centre of one cluster of green T.I. Markers sparse, bombed on one group seen cascading on run up, other bombing in rectangle across town, attack badly sprung out. Fires going well, seen to about 50 miles on cloud base. If met. had been better and marking and concentration of A/C had been better, raid would have improved. No other difficulties. Straight and level for photo.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
21/22 Feb.	Lancaster I "H" NG-232	(Captain) J89783 P/O J.D. O'Neil	Bombing	19:16	01:50	3/10ths thin strata cu, tops 6-8,000 feet, visibility good. Target identified by red T.I.'s cascading, Gee check. Bombed at 23:02.5 hours from 19,000 feet, heading 046T, speed 155, on far edge of cluster of red T.I.'s. Several large orange explosions, target aglow, numerous incendiaries, glow of fires seen for 100 miles. Computer box U.S., used emergency sighting angle. Tactics sound, met. off on cloud and winds. Good concentration of A/C, marking skimpy, target well hit.	
21/22 Feb.	Lancaster I "J" NH-779	(Captain) J39642 P/O R.E. Johnstone	Bombing	19:24	02:19	3/10ths thin stratus, tops 6-8,000 feet, visibility good above. Target identified visually by bend in river, checked on Gee. Bombed at 23:01.8 hours from 18,500 feet, heading 048T, speed 165, on built up area near A/P seen through gap in cloud. Markers not down at time of bombing, green and red seen cascading at 23:11 hours. No other bombing at this time. Too early to assess, route and tactics O.K. No difficulties.	
21/22 Feb.	Lancaster I "X" NG-459	(Captain) J82764 P/O R.K. Harrison	Bombing	19:18	01:49	3/10ths thin stratus, tops 10,000 feet, visibility good. Target identified by red and green T.I.'s and Gee check. Bombed at 23:06.2 hours from 18,500 feet, heading 046, speed 160, on centre of concentration of red and green T.I. Marking seemed to be on A/P and good quantity of bombing. Bombing seemed to be very good and incendiaries over a large area. As A/C left target later bombing seemed to scatter all over area. No trouble, route and tactics O.K., met. winds off, concentration good. A/C straight and level for photo. Think raid lost its effect after first phase. Fair effort.	

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*1521-2511) Wt. 2822-2156 728 10/64 T.S. 700

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
21/22 Feb.	Lancaster I "L" NG-441	(Captain) J13353 P/L J.F. Brown	Bombing	19:12	01:43	8-9/10ths thin stratus, tops 6-7,000 feet, visibility above good. Target identified by flares checked visually on bend of river on run in. Bombed at 23:05.7 hours from 19,000 feet, heading 030T, speed 155, on centre of fires. Markers not good at time of bombing. Other bombing was a long strip through target with some concentration in centre. A second small area about 1 mile to starboard on run in. Fair attack, fires seen to 75 miles on way out, route and tactics O.K., met. out. A/C on D.R. from north, had to join stream to port. Good concentration of A/C at bombing. Straight and level for photo.	
21/22 Feb.	Lancaster I "U" MB-457	(Captain) J39529 P/O J.P. Farrell	Bombing	19:47	02:00	10/10ths thin layer stratus, tops 3/5,000 feet, visibility good. Target identified by red and green T.I. and Gee fix. Bombed at 23:07.8 hours from 18,000 feet, heading 045T, speed 165, on concentration of red and green. T.I. concentrated, good concentration of fires, one large explosion at 23:08 hours. Good tactics, route trouble free, poor met., good concentration of A/C, no congestion. Slight weave at time of photo.	
21/22 Feb.	Lancaster I "N" NG-496	(Captain) J25839 P/O A.P. Heathcote	Bombing	19:26	01:44	5/10ths thin stratus, tops 10,000 feet, visibility good above. Target identified by red T.I., seen cascading, checked on Gee. Bombed at 23:06.1 hours from 18,500 feet, heading 043T, speed 160, nil wind, on green and red stars, 5-6 flares on Gee line. T.I. were obscured at time of bombing, not seen on ground. Other bombing in a strip across target, seemed to overshoot and undershoot target, fires getting away but seemed spread out. Met. not as briefed. Straight and level for photo.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
21/22 Feb.	Lancaster I *O* RA-506	(Captain) C20393 P/L R.W. Paterson	Bombing	20:06	02:22	6/10ths thin stratus, tops 5,000 feet, visibility good. Target identified by red T.I. and Gee check. Bombed at 23:14.4 hours from 19,000 feet, heading 044, speed 155, on centre of red T.I. Red and green T.I.'s seemed scattered but hard to pin-point due to cloud but A/C bombed a salvo of red T.I. which had first dropped. Bombs and incendiaries seemed scattered over a large area in target although burning merrily as could be. Seen for 75 miles. Concentration fair, route and tactics O.K., A/C straight and level at photo time. Raid considered good as activity indicated fair results.	
21/22 Feb.	Lancaster I *P* RA-509	(Captain) J93063 P/O H.E. Batty	Bombing	19:23	02:02	8/10ths thin stratus, tops 17,000 feet, visibility good. Target identified by Gee and green T.I.'s and visual on river. Bombed at 23:12 hours from 18,500 feet, heading 044, speed 160, on two green T.I.'s. Marking nearly a minus quantity at bombing time, bombing was scattered over a large area, underbooting from 8 to 10 miles to target. Scattered incendiary fires and bomb bursts in target area. Two explosions seen at 23:12 hours, seemed to be oil explosions. Stream very good, A/C straight and level for photo. Route good and tactics followed, raid considered scattered and could have been better.	
21/22 Feb.	Lancaster I *Q* RA-511	(Captain) J16536 P/L A. Stralchuk	Bombing	19:03	02:08	10/10ths thin stratus, tops 10,000 feet, visibility good above. Target identified by red T.I. cascading at H-4, green T.I. disappeared in cloud, checked on Gee. Bombed at 23:10.3 hours from 18,000 feet, heading 038T, speed 160, on centre of green T.I. seen on run up in cloud. Markers sparse, seemed well placed, other bombing somewhat scattered in long rectangle. Fires well away, several large explosions on run up. Fairly scattered raid, route and tactics good, met. not correct, no difficulties. Straight and level for photo.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
21/22 Feb.	Lancaster I "G" RA-512	(Captain) J6681 F/L L.D. Allatt	Bombing	19:25	02:18	10/10ths thin layered cloud, some breaks, tops 15,000 feet, visibility good, Moon. Target identified by red T.I.'s cascading, fires burning. Bombed at 23:18 hours from 19,000 feet, heading 040, speed 160, on centre of fires. Streaks of incendiaries on track to A/P, numerous bomb bursts, dummy fire site north of target firing up, red with green (dummy T.I.'s), Glow of fires seen homeward for 75 miles. Tactics good, met. off on cloud over target, winds strange and veered. Good concentration of A/C over target. Marking nil at time of bombing. Raid developed parallel to approach. Good effort, steady camera run.	
21/22 Feb.	Lancaster I "V" SW-273	(Captain) J16729 F/L R.J. Meek	Bombing	19:22	01:48	3/10ths stratus, tops 4/6,000 feet, visibility good. Target identified by green and red T.I., Gee. Bombed at 23:10.7 hours from 18,500 feet, heading 030T, speed 170, on centre of fires. On run in T.I. burnt or blasted out. String of I.B. covering about 2 square miles. Good tactics. Straight and level at time of photo.	
23/24 Feb.	Lancaster I	Target, all A/C:- "OSLO AREA" (Gardening)				Mine load, each A/C:- 6 x 1850 lb. Mk. VI Mines.	Appen. B.XX.
23/24 Feb.	Lancaster I "D" ME-375	(Captain) J92764 P/O R.K. Harrison	Gardening	20:10	03:20	Timed run from visual pin-point 59.05.00N 10.56.00E - track 142 degrees 12 sec, to RP 59.04.30N 10.56.30E. Mined at 00:06.20 hours from 4,000 feet, heading 143T, speed 182. Visibility excellent, nil cloud, full moon. Tactics and met. good. Mines felt leaving A/C. Difficulty in pin-pointing datum and overshoot. Mines released before error realised. Large fires visible at Horton for 20 miles.	Battle Order No. 245.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
23/24 Feb.	Lancaster I "L" NG-441	(Captain) J89607 F/O G. Walton	Gardening	20:15	03:11	Mined at a position 590952N 105215E. Timed run from visual pin-point track 142T 12 sec. from 501012N 105142E to RP sighting angle 45 degrees. Mined at 23:50.10 hours from 4000 feet, heading 142, speed 185. Clear, ceiling and visibility unlimited. Air speeds too low enroute and tactics O.K. Otherwise good trip, Mines in areas laid down.	
23/24 Feb.	Lancaster I "M" NG-493	(Captain) C35376 F/O W.G.R. Simpson	Gardening	20:12	03:25	Mined at a position 590932N 105742E. Timed run from visual pin-point 54 sec. from south tip of Fredrichstad down west shore of Fjord. Mined at 00:20.24 hours from 1000 feet, heading 169, speed 190. Clear, ceiling and visibility unlimited. A/C in bank as F24 operated. Air speed too slow enroute otherwise tactics good. Good trip and mines in areas laid down.	
23/24 Feb.	Lancaster I "O" RA-506	(Captain) C20393 F/L R.W. Paterson	Gardening	20:25	03:30	Mined at a position 590932N 105742E. Timed run from visual pin-point 54 sec. from south tip of Fredrichstad down west shore of Fjord. Mined at 00:16 hours from 1000 feet, heading 186T, speed 190. Clear, ceiling and visibility unlimited. Good trip, no difficulty to identify. Mines laid in areas laid down. A/C straight and level at camera times.	
23/24 Feb.	Lancaster I "S" RA-512	J89420 F/O R.F. Saunders (Captain)	Gardening	20:14	03:15	Mined at a position 590809N 105248E. Timed run from visual pin-point track 120T 37 sec. from 590900N 105000E to RP sighting angle 45 degrees. Mined at 23:54.28 hours from 4,000 feet, heading 123 degrees, speed 171. Clear, visibility excellent. W/A/G and R/O saw mines leave and chute open and hit water midway between two small islands. Met. and tactics sound, no difficulty in finding area. Huge fires and billows of smoke from Horton.	

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*1533-2241 Wt. 8722-0125 728 1004 U.S. 700

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
23/24 Feb.	Lancaster I "V" SW-273	(Captain) J93063 P/O H.E. Batty	Gardening	20:09	03:16	Mined at a position 5908'0N 10524'8E. Timed run from visual pin-point track 120 degrees, 32 sec. from 5909'N 10500' to HP sighting angle 45 degrees. Mined at 00:01.16 hours from 4000 feet, heading 120, speed 175. Clear, ceiling and visibility unlimited. Tactics difficult enroute out, due to slow airspeed, otherwise O.K. Good trip, mines on areas laid down. A/C straight and level w/ camera time.	
24th Feb.	Lancaster I	- SEA SEARCH -					
24th Feb.	Lancaster I "G" EB-906	(Captain) J16729 P/O E.J. Monk (Navigator) J13770 P/L M.G. Pipe (W/O) R18114 P/S Dunningan, J.E. (Air Bomber) R18245 P/S Gaylor, S.R. (Air Gunner) R25158 P/S Storanoff, S. (Flight Engineer) 1595001 Sgt. Young, H.F. (Mid-upper Gunner) R266405 P/S Stott, R.J.	Sea Search	12:34	16:35	Carried out search over extensive area but no sightings were made.	
24th Feb.	Lancaster I "M" NG-496	(Captain) J39529 P/O J.P. Farrell (Navigator) R225210 P/S Wilson, J.H. (W/O) J23165 P/O G.A. Kennedy (Air Bomber) J51513 P/O A.V. Flante (Air Gunner) R19173 P/S Hodges, D.W. (Flight Engineer) 1825314 Sgt. Ort, T. (Mid-upper Gunner) R272403 P/S Pierson, T.G.	Sea Search	12:31	16:38	Carried out search over extensive area but no sightings were made.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
24/25 Feb.	Lancaster I	Target, all A/C:- "PORTSCHUNN" (Gardening)				Mine load, each A/C:- 6 x 1850 lb. Mk. VI Mines	Appen. B.XXX
24/25 Feb.	Lancaster I "M" NG-493	(Captain) J19459 P/L T.R. Smyth	Gardening	17:05	00:33	Mined at a position 59.06.50N 09.37.00E. H28 bearing and distance 319 degrees 6 miles from 59.03.00N 09.42.40E. Mined at 20:34.15 hours from 5,000 feet, heading 159T, speed 180. 8/10ths stratus, tops 3500 feet, visibility good above. Good trip, no difficulties.	Battle Order No. 246.
24/25 Feb.	Lancaster I "P" RA-509	(Captain) J93063 P/O H.E. Batty	Gardening	17:09	01:04	Mined at a position 59.06.50N 09.37.00E. Sighting angle 450 from 590730N 0937E making good track 140T, timed run 21 sec. to RP 590657N 093605E. Mined at 20:57.30 hours from 5,000 feet, heading 156T, speed 175. 8/10ths strata cu., tops 4,000 feet, visibility good. A/C arrived at 20:15 hours, tried H28 but unsuccessful, orbited four times then cloud broke and A/C made visual mining. Tactics for mining poor on account of mountains. A/C straight and level when P24 turned.	
24/25 Feb.	Lancaster I "P" NG-498	(Captain) J89420 P/O R.F. Saunders	Gardening	17:11	00:52	Abortive, abandoned at 59.06.50N 09.37.00E, 5000 feet, insufficient definition to release accurately during six orbits. 10/10ths stratus 5000 feet, visibility good above. Brought back all mines, unable to identify R/P. Met. not as briefed, route O.K. for visual but not sufficient definition of this datum point during six orbits over the area.	

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*13143-93141 Wt. 28722-2126 738 10144 U.S. 790

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
27th Feb.	Lancaster I "J" NR-779	(Captain) J39642 P/O R.S. Johnstone	Bombing	12:43	19:41	10/10ths solid cloud, tops 6-8,000 feet, visibility excellent. Target identified by green puffs when right on target, III check. Bombed at 16:33.5 hours from 16,650 feet, heading 104T, speed 160, on centre of three compact green puffs. M/B not heard, flak bursts and Wanganui seen. Head A/C too fast. Good gaggle in width, ample fighter cover. 10/10ths cloud most of route, necessary to sharp "S" turn to get on heading. Marking late.	
27th Feb.	Lancaster I "K" NG-459	(Captain) J32764 P/O R.K. Harrison	Bombing	12:47	19:50	10/10ths cloud, no breaks, tops 8,000 feet, visibility good. Target identified by green smoke puffs for 10 miles. Gee fix. Bombed at 16:39.7 hours from 16,000 feet, heading 102T, speed 155, on one smoke puff (latest) as others had faded out, as instructed by "Canter". Nothing visible but smoke puff and flak bursts. Gaggle leaders too fast. 10/10ths cloud over continent, Mustangs well in evidence. Good concentration of A/C on target. Steady camera run. Dia "S" turn to get on proper heading. Difficult to assess results.	
27th Feb.	Lancaster I "M" RG-493	(Captain) J39529 P/O J.P. Farrell	Bombing	12:41	19:37	10/10ths strata cu., tops 8,000 feet, visibility above cloud unlimited. Target identified by green smoke puffs and Gee. Bombed at 16:32.0 hours from 18,000 feet, heading 102T, speed 155, zero setting, on estimated centre of two green smoke puffs. Markers punctual and plentiful. No results of bombing could be seen. Course maintained, and A/C straight and level for camera run. Tactics good, gaggle left concentration point about 3 minutes early and continued generally ahead of time. Gaggle was well concentrated the whole route.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
27th Feb.	Lancaster I "O" RA-506	(Captain) J16729 F/L E.J. Meek	Bombing	12:34	19:28	10/10ths strato cu., tops 6/7,000 feet, visibility good. Target identified by green puffs, D.R. Bombed at 16:30.6 hours from 17,800 feet, heading 100T, speed 155, zero wind, on two small green puffs. Only two small puffs seen, no results observed. Very good concentration of A/C from pt. "D" to target and also on way back. M/B heard clearly H-10. A/C in slip stream when photo taken. Good fighter cover.	
27th Feb.	Lancaster I "P" RA-509	(Captain) J89063 F/O H.E. Batt	Bombing	12:42	19:47	10/10ths cloud, tops 8,000 feet, visibility good. Target identified by green puffs. Bombed at 16:32.3 hours from 17,000 feet, heading 102T, speed 155, zero wind, on centre of green puffs. Green puffs rather scattered by drifting winds, mostly bursting at 17,000 feet. M/B heard clearly, good concentration of A/C. Leaders hard to keep up with. A/C straight and level when camera turned.	
27th Feb.	Lancaster I "Q" RA-511	(Captain) J89783 F/O J.D. O'Hell	Bombing	12:31	19:44	10/10ths strato cu., tops 6,000 feet, visibility good. Target identified by green puffs, Gee. Bombed at 16:32.5 hours from 16,500 feet, heading 100T, speed 155, zero wind, on two smoke puffs. Only two green puffs seen. Good concentration of A/C, nearly hit by dropping bombs. On steep turn when camera turned.	

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715343-05743 Wt. 28722-2136 728 1044 T.S. 700

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				UP	DOWN		
27th Feb.	Lancaster I "R" RA-505	(Captain) J6681 F/L L.D. Allatt	Bombing	12:49	19:55	10/10ths strata cu., tops 10,000 feet, visibility above unlimited. Target identified by green smoke puffs, H2S and APL. Bombed at 16:31.8 hours from 16,000 feet, heading 102T, speed 155, zero wind setting, on estimated centre of green smoke puffs. Marking was concentrated and appeared accurate from Nav. aids check. Marking was sufficient but bursting a little high. No results seen. Cut corner at F and C in attempt to catch gaggle which was ahead of time. Course maintained and A/C straight and level for osmera run. Tactics satisfactory. Gaggle leaders were nearly always 6 min. ahead of time. They passed over the target and then turned and bombed on reciprocal heading. Gaggle was very loose.	
27th Feb.	Lancaster I "S" RA-512	(Captain) J89420 P/O R.F. Saunders	Bombing	12:35	19:48	10/10ths stratus, tops 9,000 feet, visibility above good. Target identified by green smoke puffs, checked on Gee. Bombed at 16:31 hours from 18,000 feet, heading 102T, speed 155, nil wind, on centre of three green puffs. Puffs late, down about 16:29 hours, M/B clearly heard, instructed to bomb markers. First of gaggle bombing on various headings. No results seen. Poor raid for first wave due to poor timing over targets. Route and tactics as laid down D.K. Fighter protection adequate. No difficulties except congestion over target and A/C on reciprocal course. Straight and level for photo.	
27th Feb.	Lancaster I "T" NG-498	(Captain) J29592 S/L W.C. Pierce	DFC Bombing	12:39	19:58	10/10ths cloud, tops 6,000 feet, visibility good. Target identified by green puffs. Bombed at 16:33 hours from 17,500 feet, heading 102, speed 155, zero wind, on one green puff. Only one green puff on run in, about seven came down after A/C bombed, very scattered. Tactics good but gaggle highly unsuitable for sky marking. Bombing leaders too fast. M/B heard. A/C slightly banked when photo taken. Nearly hit by I.B. and bombs.	

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*1311-2311 Wt. 2722-2156 728 1044 U.S. 700

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
24/25 Feb.	Lancaster I "U" ME-457	(Captain) J16536 P/L A. Strelchuk	Gardening	17:08	00:46	Mined at a position 590650N 0937 E. Bearing and distance 319 - 7 miles from 5903N 094240E. Mined at 20:41.55 hours from 5,000 feet, heading 165T, speed 191. 9/10ths strata cu., tops 4500 feet, visibility good. Tried visual, orbited and mined on E2S. A/C straight and level when camera turned. Tactics unsuccessful for visual.	
24/25 Feb.	Lancaster I "V" SW-273	(Captain) C20393 P/L R.W. Paterson	Gardening	17:12	00:28	Mined at a position 590650N 09.37.00E. E2S bearing and distance 319 degrees - 6 miles from 59.03.00N 09.42.40E. Mined at 20:34.30 hours from 5,000 feet, heading 156T, speed 186. 9/10ths stratus, 4,000 feet, visibility good. Poor trip, met. appalling.	
- S E A S E A R C H -							
25th Feb.	Lancaster I "L" NG-441	(Captain) J89783 P/O J.D. O'Neil (Navigator) R260186 P/S Leonard, F.O. (W/Op.) R203412 P/S Gelfand, A.J. (Air Bomber) R189204 P/S Walker, J.E. (Air Gunner) R277925 P/S Cope, J.E. (Flight Engineer) 1896182 Sgt. Wickens, W. (Mid-upper Gunner) R267422 P/S Benner, J.E.	Sea Search	08:41	15:52	Sighted two dinghies and took appropriate action. Circled dinghies for over five hours but there were no signs of life.	
25th Feb.	Lancaster I "D" ME-375	(Captain) J26099 S/L P.D. Holmes (Navigator) J28191 P/O J.L. McDonald (W/Op.) R174855 W/O Calabrese, J. (Air Bomber) J35021 P/O R.H. Salmund (Air Gunner) R222523 P/S Ash, E.J. (Flight Engineer) 190772 P/O P.R. Jansen (Mid-upper Gunner) R265267 P/S Bathig, V.N.	Sea Search	08:42	13:38	Sighted two dinghies and took appropriate action. No signs of life seen.	

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
27th Feb.	Lancaster I	Target, all A/C:- "MAINZ"				Bomb load, each A/C:- 1 x 4000 lbs. & 158 x 4 lb. Incend.	Appen. B.XXII
27th Feb.	Lancaster I "D" MB-375	(Captain) O 346 S/L D.W. Cleland	Bombing	12:45	19:54	10/10ths cloud, tops 6,000 feet, visibility good. Target identified by green puffs. Bombed at 16:32.9 hours from 18,000 feet, heading 104T, speed 155, zero wind, to port of two green puffs. Green puffs only went down at 1622 hours. A/C in last ten A/C in bomber stream, it appeared that a part of bomber stream had overshot markers. Tactics good but leader's airspeed too fast. A/C straight and level when camera turned.	Battle Order No. 247.
27th Feb.	Lancaster I "D" NG-456 (424 Sqn. A/C)	(Captain) J14453 P/L J.F. Brown	Bombing	12:48	19:31	10/10ths solid cloud, tops 9-10,000 feet, visibility excellent. Target identified by green puffs. Bombed at 16:31.5 hours from 17,500 feet, heading 104T, speed 155, on first green puff that came into bomb-sight as instructed by M/B. Nothing but markers seen. Dense cloud below from French coast to target and back to English coast. Good fighter escort, leaders appeared too fast. Had to do turn to get on proper heading. Marking fairly concentrated, steady camera run.	
27th Feb.	Lancaster I "G" FB-893	(Captain) J25839 P/O A.P. Heathcote	Bombing	12:46	19:34	10/10ths cloud, tops 10,000 feet, visibility good. Target identified by green puffs and H2S. Bombed at 16:32.2 hours from 19,000 feet, heading 101T, speed 155, zero wind, on centre of green puffs. About four green puffs seen, bombed centre of them. Fighter cover good, good concentration of A/C, smoke only seen at concentration on way and yellow flares on way out, M/B heard clearly. A/C straight and level when camera turned. Leaders hard to keep in sight.	

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