

OPERATIONS RECORD BOOK

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

APPENDIX

R.A.F.
FORM 541.

SECRET

PAGE No. 1.

(1295-211) Wt. 2222-1122 700 640 T.A. 700
(1299-211) Wt. 2222-1122 1200 714 T.A. 700

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
✓ 2.45. Halifax ME349 'G'.		P. J. 3939	P/L T.C. Mears.	1606	2241	Bombing Load. 1 x 2000 lbs. H.C. M.L. (Minol) 12 x No. 14 Clusters. N/F Filled. T: 1934.4 hrs. H: 20,000 ft. Heading 090T. 190 m.p.h. 10/10 cloud tops 5/6000 ft. Visibility fair. Only two markers had ignited at time of run up. The one to port of track did not give off green stars until it had burned for some time. Markers were about one minute late. Incendiaries lit up cloud. Red glow also noticed.	See Appendix 12.
✓ 2.45. Halifax ME156 'H'.		P. J. 2239	P/L A.S. Cruickshank.	1557	2252	Bombing Load. Same as 'G'. T: 1934.3 hrs. H: 18,500 ft. Heading: 076T. 160 m.p.h. 10/10 thin cloud, tops 6000 ft. Visibility above good. Two sky markers red/green stars were ahead one went out. Slight turn to port was necessary to both remaining ones. Flares were igniting with regularity in same place in succession. Two glows were seen through cloud - one large one west of a smaller one distinctly separate but close together. Straight and level run for camera was made and tactics were sufficient over target 1935.5 hrs. at 18,500 ft. an explosion resembling phosphorus bomb was seen.	See Appendix 12.
✓ 2.45. Halifax ME249 'J'.		P. J. 3746	P/L G.A. Chartier.	1602	2342	Bombing Load. Same as 'G'. T: 1934.7 hrs. H: 20,000 ft. Heading: 053T. 190 m.p.h. 10/10 low cloud, tops 6000 ft. Two flares approx. 200 yds. apart. First flares seen igniting at 1926 hrs. as briefed. Outside of scattered incendiary fires in target area no other results observed. Tactics good and most crew seemed to adhere to them.	See Appendix 12.
✓ 2.45. Halifax ME341 'K'.		P. J. 3697	P/O L.E. Henkler.	1558	2310	Bombing Load. Same as 'G'. T: 1935.5 hrs. H: 19,000 ft. Heading: 065T. 175 m.p.h. 10/10 cloud at 2/3000 ft. Could not make a decent run on the only sky marker visible at time. Glow of F.L.T.s was seen in centre of general incendiary glow. Marking was a little late (H-I) fires could be seen developing through a break in cloud just after bombing. No ground detail picked up.	See Appendix 12.
✓ 2.45. Halifax NA610 'B'.		P. J. 3339	P/O E.C. Wilkinson.	1559	2256	Bombing Load. Same as 'G'. T: 1935.2 hrs. H: 19,000 ft. Heading: 077T. 155 m.p.h. 3/10 thin cloud. Saw red T.L.'s going down at 1927.0 hrs. followed by sky markers, almost immediately fell through cloud. Saw glow on clouds from red T.L.'s, and some bomb bursts in location of glow. Tactics very good. Some fighter flares just before target.	See Appendix 12.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
1/22.45	Halifax 122946 '01. Target: Mainz.	P. J. 39503 P/O G.A. Hyland. And Crew.		1605	2323	Bombing Load. Same as '01'. T: 1941.3 hrs. H: 16,000 ft. Heading: 060Z. 165 m.p.h. 10/10 cloud. Saw sky markers going down 1926.0 hrs, markers were fairly well concentrated. Saw few flashes possibly bomb bursts, and some fires through break in cloud when turning off after target. Also saw two big explosions at 1942.5 hrs. with pinkish flare on cloud. Starboard outer engine failed at 1703 hrs. 6,000 ft. Heading: 175Z-170 m.p.h. Due to being on three engines aircraft did not fly straight and level on camera run.	See Appendix 12.
1/22.45	Halifax 122946 '01. Target: Mainz.	P. J. 40550 P/O E.L. Goodson. And Crew.		1641	2254	Bombing Load. Same as '01'. T: 1936.0 hrs. H: 19,500 ft. Heading: 055Z. 155 m.p.h. 9/10 cloud. Seps 3/3000 ft. Numerous fires seen in target area. Bomb burst of three closely grouped sky markers. Cam bombing run very good no banking over target. Tactics fair outside of flying over England.	See Appendix 12.
1/22.45	Halifax 122946 '01. Target: Mainz.	P. J. 21433 P/L W.L. Goodwin. And Crew.		1604	2205	Bombing Load. Same as '01'. T: 1939.9 hrs. H: 18,000 ft. Heading: 055Z. 165 m.p.h. 9/10 low cloud. Bomb on red flares green stars. Saw incendiary fires, and H.E. explosions. Landed at Stadishall, due to faulty engine.	See Appendix 12.
1/22.45	Halifax 122946 '01. Target: Mainz.	P. J. 26751 P/L J.H. Morrison. And Crew.		1536	2247	Bombing Load. Same as '01'. T: 1936.2 hrs. H: 18,500 ft. Heading: 060Z. 160 m.p.h. 9/10 thin cloud, 4/5000 ft. Bombing seen in target area, on leaving large red star could be seen. 1/21ak port main plane behind inner engine held, 4/3 inches diameter, with smaller holes around. Rear of 1/4 turret shot away. 3013N-0646Z, 2333.0 hours, 18,000 ft. 1/4-1/6 mounted; CAN J-43679 1/4-1/6 mounted in hospital at Ipswich. This aircraft was attacked five times by enemy aircraft. The 1st. attack was made by JU88 at 2317 hrs, 20,000 ft. Heading: 115Z. 5100N, 0700E. The 2nd. attack was made by JU88 at 2319 hrs, 20,000 ft. Heading: 035Z. 5144N, 0707E. The 3rd. attack was made by a twin engined enemy aircraft, at 2333 hrs, 18,400 ft. Heading: 271Z. 5212N, 0643E. The 4th. attack was made by JU88, at 2342 hrs, 16,000 ft. Heading: 241Z. 5105N, 0630E, the 5th. attack was made by JU88, at 2344 hrs, 16,000 ft. Heading: 271Z, 5106N, 0640E. No damage to bomber. Landed at Woodbridge with casualty.	See Appendix 12.
2/3.2.45	Halifax 122946 '01. Target: Mainz.	P. R12237 P/O McKenzie, J.S. And Crew.		2037	0215	Bombing Load. 6 x 500 lbs. G.P. AM 64 (T.D. .025) 4 x 500 lbs. H.C. (T.D. .025) 6 x 250 lbs. G.P. Tall Inst. T: 2320.0 hrs. H: 20,000 ft. Heading: 085Z. 150 m.p.h. 10/10 low cloud tops 3000 ft. Thin high cloud to 20500 ft. Bombing seen in target area, on leaving large red star could be seen. 1/21ak port main plane behind inner engine held, 4/3 inches diameter, with smaller holes around. Rear of 1/4 turret shot away. 3013N-0646Z, 2333.0 hours, 18,000 ft. 1/4-1/6 mounted; CAN J-43679 1/4-1/6 mounted in hospital at Ipswich. This aircraft was attacked five times by enemy aircraft. The 1st. attack was made by JU88 at 2317 hrs, 20,000 ft. Heading: 115Z. 5100N, 0700E. The 2nd. attack was made by JU88 at 2319 hrs, 20,000 ft. Heading: 035Z. 5144N, 0707E. The 3rd. attack was made by a twin engined enemy aircraft, at 2333 hrs, 18,400 ft. Heading: 271Z. 5212N, 0643E. The 4th. attack was made by JU88, at 2342 hrs, 16,000 ft. Heading: 241Z. 5105N, 0630E, the 5th. attack was made by JU88, at 2344 hrs, 16,000 ft. Heading: 271Z, 5106N, 0640E. No damage to bomber. Landed at Woodbridge with casualty.	See Appendix 13.

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By No. 415 (R.C.A.F.) Squadron
FOR THE MONTH OF February, 1945.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2/3.2.45.	Halifax MK349 'G'. Target: Wanne Stokel.	P. J. 2339 E/L T.C. Mears. And Crew.		2031	0246	Bombing Load. Same as 'B'. T: 2316.7 hrs. H: 20,000 ft. Heading: 090T. 170 m.p.h. 10/10 cloud, tops 5/6000 ft. Visibility fair. No T.I.'s were seen. Just after bombing two small red explosions seen. Red glow could be seen reflecting on cloud. Straight and level camera run.	See Appendix 13.
2/3.2.45.	Halifax MK156 'H'. Target: Wanne Stokel.	P. J. 2339 E/L A.S. Cruickshank. And Crew.		2039	0216	Bombing Load. Same as 'B'. T: 2316.7 hrs. H: 20,000 ft. Heading: 100T. 177 m.p.h. 10/10 cloud, tops 8000 ft. Markers were not seen cascading but glow was faint and at one point on run up completely disappeared. Re-appeared in time to bomb. Violent evasive action from predicted flak prevented us from aiming accurately on the glow. 1 x 500 lbs. M.C. (T.D. 025) hung up over target. Brought back.	See Appendix 13.
2/3.2.45.	Halifax MK124 'I'. Target: Wanne Stokel.	P. J. 11316 E/L J.B. Northrup. And Crew.		2034	0248	Bombing Load. Same as 'B'. T: 2317.0 hrs. H: 19,500 ft. Heading: 090T. 177 m.p.h. 10/10 cloud, tops 3000 ft. Saw red T.I.'s falling through cloud at 2314 hrs and 2316 hrs. disappeared after entering cloud. Saw number of bomb bursts apparently well concentrated near glow on cloud. Saw large orange flash of explosion at 2313.5 hrs. 2 x 500 lbs. G.P. ARM 64 (T.D. 025) hung up over target. Brought back.	See Appendix 13.
2/3.2.45.	Halifax MK349 'J'. Target: Wanne Stokel.	P. J. 12738 E/L A.E. Wainill. And Crew.		2033	0231	Bombing Load. Same as 'B'. T: 2317.3 hrs. H: 19,500 ft. Heading: 032T. 170 m.p.h. 10/10 cloud, tops 4000 ft. Visibility poor. T.I.'s red cascaded 1 to 2 miles to port of where bombs were falling. No glow on cloud discernible. Bombing seemed well concentrated in one spot. A second set of T.I.'s red fell still farther to port after bombing. 1 x 500 lbs. M.C. (T.D. 025) see heading jettisoned safe. 2316H-0019Z, 0143 hrs. 19,000 ft. Hung up over target; used emergency area because of insufficient fuel to cross to normal areas.	See Appendix 13.
2/3.2.45.	Halifax MK349 'K'. Target: Wanne Stokel.	P. J. 23194 E/O G.E. Grier. And Crew.		2036	0235	Bombing Load. Same as 'B'. T: 2319.4 hrs. H: 19,000 ft. Heading: 070T. 150 m.p.h. 10/10 cloud, tops 18,500 ft. Nothing of target area was seen nor markers other than photo flashes. After leaving target a heavy red glow was seen on cloud. 1 x 500 lbs. G.P. ARM 64 (T.D. 025) hung up over target. Brought back. Gee went up over channel on way to target. Made two S turns to port before bombing to get onto proper heading into stream.	See Appendix 13.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
2/3.2.45	Halifax L1552 'S'. Target: Wanne Biskal.	P. R166405 W/O A.P. McDiarmid. And Crew.		2051	0215	Bombing Load. Same as 'B'. T: 2319.3 hrs. H: 19,000 ft. Heading: 035T. 170 m.p.h. 10/10 cloud, tops 2000 ft. Saw red T.L.'s dropping through cloud at 2317 hrs. disappeared through cloud. Glow on cloud seen on arrival at target apparently made by fires. No other detail observed. Number of small flat holes distributed all over aircraft 5406N-0626S, 2335.0 hrs. 16,000 ft.	See Appendix B.
2/3.2.45	Halifax L2346 'O'. Target: Wanne Biskal.	P. J.39503 S/O G.A. Hyland. And Crew.		2049	0308	Bombing Load. Same as 'B'. T: 2315.3 hrs. H: 19,000 ft. Heading: 093T. 170 m.p.h. 10/10 cloud, 10,000 ft. with base above. No T.L.'s seen on approach. Some seen at 2316.3 hrs. as leaving target. Saw red glow on clouds on run up. Several bomb bursts. Saw two heavy explosions at 2318 hrs. with pink glare on clouds. Jettisoned 2 x 250 lbs. G.P. (Tail Inst.) live. 5240H-0238S, 0425 hrs. 9,000 ft. hung up over target. Found on bomb doors during visual inspection.	See Appendix B.
2/3.2.45	Halifax L2766 'Q'. Target: Wanne Biskal.	P. J.20559 S/L W.R. Mitchell. And Crew.		2040	0224	Bombing Load. Same as 'B'. T: 2316.3 hrs. H: 19,000 ft. Heading: 110T. 160 m.p.h. 10/10 cloud, 6,000 ft. tops. Saw red T.L.'s going down at 2312 hrs. Disappeared through cloud and saw only red glow. Ground detail observed after passing target, saw some flashes apparently made by bomb bursts.	See Appendix B.
2/3.2.45	Halifax BR174 'R'. Target: Wanne Biskal.	P. G.641 W/O P.A. Bell. And Crew.		2027	0255	Bombing Load. Same as 'B'. T: 2316.0 hrs. H: 19,000 ft. Heading: 115T. 170 m.p.h. 10/10 cloud tops 16,000 ft. Visibility above cloud poor. One set of T.L.'s red were seen cascading before attack, but were obscured when reaching target area. No results observed. 2 x 500 lbs. M.C. (T.D. 025) and 1 x 500 lbs. G.P. AHE 04 (T.D. 025) jettisoned safe, 5410N-0147S, 0129 hrs. 18,000 ft. hung up over target.	See Appendix B.
2/3.2.45	Halifax L1593 'N'. Target: Wanne Biskal.	P. J.40550 W/O Davidson, D.H. And Crew.		2055	0236	Bombing Load. Same as 'B'. T: 2316.9 hrs. H: 18,500 ft. Heading: 033T. 155 m.p.h. 10/10 low cloud, tops 7/8000 ft. No ground marking was seen at any time. Few small fires or flashes seen over target. No other results could be seen. Some icing experienced on outward route over England.	See Appendix B.
2/3.2.45	Halifax BR172 'V'. Target: Wanne Biskal.	P. J.83172 S/O S.W. Moores. And Crew.		2053	0217	Bombing Load. Same as 'B'. T: 2322.0 hrs. H: 18,500 ft. Heading: 100T. 172 m.p.h. 10/10 cloud tops 8000 ft. Approx. at 2319 hrs. red and green T.L.'s were seen cascading, but could not be seen after they went below cloud. No results observed. 1 x 500 lbs. M.C. (T.D. 025) hung up over target. Brought back straight and level camera run. Set course fifteen minutes late consequently bombed five minutes late.	See Appendix B.

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(1946-521) Wt. 2222-2224 700 814 T.A. 700
(*1946-521) Wt. 2222-2224 1200 114 T.A. 700

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2/3.2.45	Halifax NZ632 'B'. Target: Wanne Biokal.	P. J. 36972 P/O L. P. Minkler. And Crew.		2050	0301	Bombing Load. Same as 'B'. T: 2333.5 hrs. H: 13,000 ft. Heading: 095E. 155 m.p.h. 10/10 cloud tops 5000 ft. No markers visible. NO BOMBING RESULTS WOULD BE estimated gas fix and glow on cloud seemed to coincide.	See Appendix 13.
2/3.2.45	Halifax NZ632 'B'. Target: Wanne Biokal.	P. J. 33339 P/O E. C. Wilkinson. And Crew.		2052	0254	Bombing Load. Same as 'B'. T: 2326.0 hrs. H: 18,000 ft. Heading: 090E. 155 m.p.h. 10/10 cloud, 8/10,000 ft. Did not see any T.I.'s. Reddish glow on clouds noted at approx location of target as indicated by gas co- ordinates. Ground detail obscured. Tactics good but not was out. Few fighter flares on route out after Cologne.	See Appendix 13.
2/5.2.45	Halifax NR146 'B'. Target: Bonn.	P. R. 22337 W/O McKenzie, J.S. And Crew.		1733	0022	Bombing Load. 1 x 2000 lbs. H.E. (Base Inst.) 11 No. 15 Clusters. T: 2049.9 hrs. H: 20,000 ft. Heading: 049E. 152 m.p.h. 10/10 cloud (light), tops 5/9000 ft. Saw T.I.'s going down and cascading at 2042.0 hrs. follow- ed by T.I.'s green these disappeared through cloud, but glow could be seen through cloud as distinct from glow of flares. Saw number of bomb bursts rather scattered throughout area. Apparently one large fire in area.	See Appendix 14.
4/5.2.45	Halifax MZ922 'G'. Target: Osterfeld.	P. J. 33172 P/O S. W. Moore. And Crew.		1729	2310	Bombing Load. 7 x 500 lbs. M.C. (P.D. 025) 8 x 250 lbs. G.P. (Tail Inst.) 1 x 500 lbs. M.C. L.D. (37 Pist.) T: 2103.1 hrs. H: 19,000 ft. 070E. 160 m.p.h. 10/10 cloud, tops 7/3000 ft. Visibility fair. No markers seen. Bombing seemed quite scattered with a small concentration centered on the glow on cloud. 1 x 500 lbs. M.C. L.D. (37 Pist.) juxtaposed with 2500-0307E, 2201 hrs. 6000 ft. hung up over target.	See Appendix 14.
4/5.2.45	Halifax NR191 'D'. Target: Osterfeld.	P. J. 30799 P/L W. R. Mitchell. And Crew.		1725	2307	Bombing Load. 6 x 500 lbs. M.C. (P.D. 025) 8 x 250 lbs. G.P. (Tail Inst.) 1 x 500 lbs. M.C. L.D. (37 Pist.) 1 x 500 lbs. G.P. (P.D. 025) T: 2103.7 hrs. H: 19,000 ft. Heading: 069E. 160 m.p.h. 10/10 cloud, tops 4,000 ft. No markers were seen. No results observed. Straight and level camera run.	See Appendix 14.
4/5.2.45	Halifax MZ949 'G'. Target: Osterfeld.	P. J. 2939 P/L Moore, T.C. And Crew.		1727	2322	Bombing Load. Same as 'D'. T: 2103.5 hrs. H: 19,000 ft. Heading: 030E. 160 m.p.h. 10/10 cloud. Visibility fair. No markers seen. Large reddish glow on cloud. Glow is considered to have been caused by fires. Camera run spoiled by stick bumping.	See Appendix 14.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
4/5.2.45	Halifax NR156 'H'. Target: Bonn.	P. J. 22339 P/L A. S. And Crew.	Cruickshank.	1737	2359	Bombing Load. Same as 'E'. T: 2043.9 hrs. H: 19,500 ft. Heading: 073E. 155 m.p.h. 10/10 low cloud, tops 3/4000ft. At some time as bombing another set of T.I.'s red were seen cascading, all T.I.'s red were closely grouped. Large red glow could be seen reflecting through cloud, still visible when 30 miles away from target. Straight and level camera run.	See Appendix 14.
4/5.2.45	Halifax NR134 'I'. Target: OSTERFELD.	P. J. 27857 P/L G.L. And Crew.	Piper.	1751	1930	Bombing Load. Same as 'D'. This aircraft returned early, due to hydraulics being w/s after take-off. 6 x 500 lbs. H.C. (T.D. .025) 3 x 250 lbs. G.P. (Tail Inst.) 1 x 500 lbs. H.C. L.D. (37 Pist.) 1 x 500 lbs. G.P. (T.D. .025) 1st mission same. So highest aircraft 947H-01443, 1837.0 hrs. 3000 ft. After take-off under carriage failed to retract also had 40 degrees of flap which had to be taken up manually due to hydraulic line burst. As 20 minutes were required to get flap up and in view of short duration of attack mission was abandoned.	See Appendix 14.
4/5.2.45	Halifax NR249 'J'. Target: Osterfeld.	P. J. 33420 P/O E.R. And Crew.	Millbank.	1750	2350	Bombing Load. 4 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 2 x 500 lbs. H.C. (T.D. .025) 2 x 250 lbs. G.P. (Tail Inst.) 1 x 500 lbs. H.C. L.D. (37 Pist.) T: 2101.5 hrs. H: 18,500ft. Headings: 076E. 170 m.p.h. 10/10 light cloud, tops 7/8000ft. Saw no T.I.'s, saw number of bomb bursts on run up. Bombing appeared to be scattered over radius of 2 miles. Camera run straight and level.	See Appendix 14.
4/5.2.45	Halifax NR247 'K'. Target: Osterfeld.	P. J. 29194 P/O G.H. And Crew.	Grier.	1738	2323	Bombing Load. 7 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 3 x 250 lbs. G.P. (Tail Inst.) 1 x 500 lbs. H.C. L.D. (37 Pist.) T: 2103.6 hrs. H: 18,500 ft. Heading: 080E. 155 m.p.h. 10/10 medium cloud, tops, 7000 ft. A dull red glow below cloud spread over a square mile. Photo flashes appeared well concentrated, as did bomb explosions. One large explosion was seen at 2107.1 hrs. Straight level camera run was made.	See Appendix 14.
4/5.2.45	Halifax LL593 'N'. Target: Osterfeld.	P. J. 40550 P/O B.M. And Crew.	Cowieason.	1724	0008	Bombing Load. Same as 'G'. T: 2102.0 hrs. H: 18,000 ft. Heading: 070E. 155 m.p.h. 10/10 cloud, tops 8000 ft. glow below cloud checked with gas. Area of glow seemed to be one or two square miles. Explosions seemed well con- centrated in area of glow.	See Appendix 14.
4/5.2.45	Halifax NR246 'O'. Target: Osterfeld.	P. J. 36972 P/O L.E. And Crew.	Minkler.	1752	0009	Bombing Load. Same as 'G'. T: 2102.2 hrs. H: 18,000 ft. Heading: 070E. 160 m.p.h. 10/10 cloud, visibility poor. Glow on cloud came into sight at time of release. No markers seen. No bombing results can be estimated.	See Appendix 14.

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L.A.F.
FORM 541.

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PAGE No. 4.

(1945) Wk 900-26 60000 244 I.S. 700
(1944-45) Wk 900-244 2000 1244 I.S. 700

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
4/3.2.45.	Halifax MK766 'Q'. Target: Bonn.	P. R11632 W/O L. A. Russell. And Crew.		1731	0004	Bombing Load. Same as 'E'. T: 2051.0 hrs. H: 19,000 ft. Heading: 053T. 143 m.p.h. 10/10 cloud, tops well below. No ground markers, but large red glow could be seen below. All aircraft seemed to be bombing accurately on glow below. Port outer engine gave trouble and was unable to gain speed. Straight and level camera run. Port outer-out 60 miles short of base, and landed on three engines.	See Appendix 14.
4/3.2.45.	Halifax NA600 'A'. Target: Osterfeld.	P. J. 12093 P/L A. E. Small. And Crew.		1800	2329	Bombing Load. 8 x 500 lbs. S&P. ANV 64 (T.D. 025) 3 x 250 lbs. W.P. (WHI TRST) T: 2104.3 hrs. H: 17,500 ft. Heading: 066T. 190 m.p.h. 10/10 cloud, 25000 ft. No markers seen. Large glow covered wide area of cloud. Camera did not seem to operate.	See Appendix 14.
4/3.2.45.	Halifax NA186 'W'. Target: Osterfeld.	P. J. 21433 P/L W. E. Goodwin. And Crew.		1722	2330	Bombing Load. Same as 'K'. T: 2103.6 hrs. H: 17,500 ft. Heading: 060T. 165 m.p.h. 10/10 low cloud. At 2057 hrs. saw some T.I.'s red on ground. These were lost to view under cloud on run up. Saw quite a few bomb bursts rather scattered throughout area. 3 large explosions at approx. 2104.5 hrs. with bright orange flames. Raid appeared to be quite successful. Straight and level camera run.	See Appendix 14.
4/3.2.45.	Halifax NR172 'V'. Target: Osterfeld.	P. J. 20751 P/L J. H. McWhiston. And Crew.		1722	2330	Bombing Load. Same as 'K'. T: 2103.2 hrs. H: 17,500 ft. Heading: 062T. 165 m.p.h. 10/10 thin cloud, tops 4000 ft. Glow of T.I.'s red only could be seen through cloud. Glow of one large explosion seen at 2103.7 hrs. Good run was made for camera. Aiming point was checked by gas and found correct.	See Appendix 14.
4/3.2.45.	Halifax MK692 'W'. Target: Osterfeld.	P. J. 83849 P/O J. Hoexter. And Crew.		1736	2325	Bombing Load. Same as 'K'. T: 2106.0 hrs. H: 17,000 ft. Heading: 076T. 160 m.p.h. 10/10 cloud, tops 7000 ft. Markers all obscured by cloud. Only a large white glow on cloud could be seen. Bombed on glow on cloud with a check on gas. No results observed. Straight level camera run.	See Appendix 14.
4/3.2.45.	Halifax NR122 'X'. Target: Osterfeld.	P. J. 33339 P/O E. C. Wilkinson. And Crew.		1734	2327	Bombing Load. Same as 'L'. T: 2103.2 hrs. H: 17,000 ft. Heading: 068T. 155 m.p.h. 10/10 cloud, tops 3000 ft. No markers were seen at any time. Bombing appeared to be scattered, after leaving target at 2105 hrs. two large expl- osions noticed, lighting cloud with full W&S below. One flak hole above navigator's head, and possibly some damage to port main plane, on run up to target, 5130.25T-0652.5T.	See Appendix 14.
4/3.2.45.	Halifax MK336 'Y'. Target: Osterfeld.	P. J. 33385 P/O R. S. Evans. And Crew.		1725	2333	Bombing Load. Same as 'C'. T: 2101.5 hrs. H: 17,000 ft. Heading: 062T. 160 m.p.h. 10/10 cloud, tops 67000 ft. 2057.0 hrs. saw T.I.'s red going down. Good concentration. Saw number of photo flashes which were scattered over wide area. All other details obscured. Photos very good.	See Appendix 14.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
4/5.2.45	Halifax ME361 'Z' Target: Bonn.	P. R166403 W/O And Crew.	A.P. McDiarmid.	1750	2359	Bombing Load. Same as 'E'. T. 2043.2 hrs. H: 13,500 ft. Heading: 033. 170 ft. 10/10 cloud, tops 4/5000 ft. Saw some F.I.'s and first saw it at 2046.2 hrs. Target totally obscured by cloud. No results observed. Straight and level camera run.	See Appendix 14.
7/3.2.45	Halifax ME222 'C' Target: Goch.	P. J. 93237 W/O And Crew.	J.S. McKenna.	1915	0111	Bombing Load. 3 x 500 lbs. M.C. (T.D. .025) 3 x 250 lbs. G.P. (Tail Inst.) W/T Filled. 9/10 about 2500 ft. Did not see any flares until having passed over target when T.I.'s glow seen through hole in cloud. Master Bomber first heard at 2223.0 hrs. Orbit started after first run, but mission abandoned on instructions from Master Bomber at 2223.0 hrs. Saw number of bomb bursts well concentrated in target area. All other details obscured. Bomb Load brought back to Base, on instruction from Master Bomber.	See Appendix 15.
7/3.2.45	Halifax MA131 'D' Target: Goch.	P. J. 30529 W/O And Crew.	L.R. Mitchell.	1837	0112	Bombing Load. 3 x 500 lbs. S.A.P. AM 64 (T.D. .025), 3 x 250 lbs. G.P. (Tail Inst.) W/T Filled. 9 to 10/10 cloud, tops 4/7000 ft. At 2239.2 hrs. saw T.I.'s red glow going down followed by one F.I. glow. Saw glow of T.I.'s on cloud on arrival over target. At 2245.0 hrs. heard Master Bomber give instructions to bomb T.I.'s red and green, if they could be seen. On arrival at release point unable to clearly distinguish T.I.'s so held bombs and orbited. Before arriving over target on second run Master Bomber instructed to abandon mission. Saw few scattered bomb bursts in target area. Other details obscured. Bomb Load brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45	Halifax ME146 'E' Target: Goch.	P. J. 36972 W/O And Crew.	L.P. Minkler.	1836	0148	Bombing Load. Same as 'D'. 10/10 cloud, 4/5000 ft. tops. Did not see T.I.'s until we had passed over them. Then saw one or two through hole in cloud. Master Bomber first heard at 2214.0 hrs. instructing to bomb on T.I.'s on arrival over target received orders to abandon mission. Saw number of bomb bursts. Other detail obscured. Bomb Load, same as 'D' brought back on instructions from Master Bomber. Saw some fighter flares just after leaving target.	See Appendix 15.
7/3.2.45	Halifax ME206 'F' Target: Goch.	P. J. 27857 W/O And Crew.	G.L. Piper.	1845	1040	Bombing Load. Same as 'D'. 10/10 cloud, tops 4/5000 ft. Master Bomber not heard until estimated time of bombing. Just about to start an orbit when he was heard instructing to abandon mission. No results seen, but a very red glow on cloud. Bomb Load. Same as 'D' brought back on instructions from Master Bomber.	See Appendix 15.

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OPERATIONS RECORD BOOK

APPENDIX

A.F. FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 5

(9811) Wt 251-24 60,000 242 I.S. 700
(9816-9313) Wt 251-234 1028 1242 I.S. 700

FOR THE MONTH OF FEBRUARY, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
7/3.2.45	Halifax NR156 *H*	P. J. 22339 P/L A. S. Cruickshank And Crew		1854	0124	Bombing Load. Same as 'D'. 9/10 cloud, tops 6000 ft. No P.I.'s red were seen. No illuminating flares were seen. Master Bomber heard clearly, instructing to bomb centre of red and green T.I.'s, and not to undershoot. At 222.4 hrs. Master Bomber heard instructing to abandon mission. Bombing that was seen, appeared to be concentrated and no undershooting observed. No other results seen. T. 2223.0 hrs. H: 40,500 ft. Heading: 093°-160 mph.	See Appendix 15.
7/3.2.45	Halifax NR124 *I*	P. J. 29194 P/O G.R. Green And Crew		1855	0136	Bombing Load. Same as 'D'. 10/10 cloud, tops 7000 ft. Over target at 2225.5 hrs., but could not identify same. Master Bomber could not be heard. Made another attempted run and at 2230 hrs. decided to abandon mission, as attack was over. Jamming and interference on Marconi sets, and unable to pick up Master Bomber. Returned without attacking. Bomb Load. Same as 'D' brought back.	See Appendix 15.
7/3.2.45	Halifax NR240 *J*	P. J. 35420 P/O B.R. Millbank And Crew		1851	0143	Bombing Load. Same as 'D'. 9/10 cloud, tops 6000 ft. Master Bomber heard instructing to bomb on T.I.'s Green, then gave abandon mission at 2224 hrs. First transmissions were weak. Bomb Load, Same as 'D' brought back.	See Appendix 15.
7/3.2.45	Halifax NR240 *L*	P. J. 35339 P/O R.C. Wilkinson And Crew		1847	0123	Bombing Load. Same as 'D'. 10/10 cloud, tops 45000 ft. Did not see any T.I.'s. First heard Master Bomber at 2210.0 hrs. but could not hear his instructions. Heard instructions first time at 2225.0 hrs. after having completed initial run without bombing. His instructions were to abandon mission. Saw flashes from numerous bomb bursts well concentrated around cloud on clouds. All other details obscured. Bomb Load Same as 'D' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45	Halifax NR248 *M*	P. J. 26751 P/L J.H. McQuiston And Crew		1853	0130	Bombing Load. Same as 'D'. 10/10 cloud, tops 45000 ft. Upon run up heard Master Bomber instructing to abandon mission at 2223 hrs. so returned without bombing. Bomb Load Same as 'D' brought back. Fighter flares seen marking homeward route.	See Appendix 15.
7/3.2.45	Halifax NR246 *O*	P. 211632 P/O L.A. Russell And Crew		1843	0107	Bombing Load. Same as 'D'. 10/10 cloud tops 6500 ft. Saw P.I.'s green through break in cloud when over target. Master Bomber's Deputy instructed to let down below cloud to 5000 ft. About 2 minutes before a bombing time, were unable to let down in time to bomb so started an orbit and heard the call sign for abandon mission from Master Bomber. Bomb Load Same as 'D' brought back, on instructions received from Master Bomber.	See Appendix 15.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
7/3.2.45.	Halifax NR936 'P'. Target: Goch.	P. J. 33335 2/0 And Crew.	E.S. Evans.	1859	0139	Bombing Load. Same as 'C'. 10/10 cloud, tops 5/6000 ft. Master Bomber gave instructions to abandon mission. Target totally obscured by cloud. Bomb Load Same as 'C' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45.	Halifax NR356 'Q'. Target: Goch.	P. J. 33349 2/0 And Crew.	J. Hechter.	1924	0116	Bombing Load. Same as 'C'. 10/10 cloud, tops 11,000 ft. Master Bomber called up then and gave instructions to abandon mission. Target obscured by cloud. Bomb Load Same as 'C' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45.	Halifax PR174 'R'. Target: Goch.	P. G. 341 W/C And Crew.	E.W. Ball.	1900	0138	Bombing Load. Same as 'C'. 10/10 cloud, tops 6/3000 ft. At 2202 hrs. Master Bomber heard instructing to bomb at 3000 ft. then not heard till 2217 hrs. again heard instructing to bomb at 3000 ft. and to bomb centre of red and green T.I.'s. At 2224.5 hrs. last instruction heard was to abandon mission which we did. Bomb Load Same as 'C' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45.	Halifax NR186 'U'. Target: Goch.	P. J. 21433 2/L And Crew.	L.E. Goodwin.	1850	0131	Bombing Load. Same as 'C'. 10/10 cloud, tops 4/5,000 ft. Master Bomber very indistinctly heard to say something about T.I.'s green and red also mentioned 3000 ft. while making run up. By the time we got over target his deputy gave the instructions to abandon mission. Bomb Load Same as 'C' brought back on instructions from Master Bomber. This aircraft was attacked 6 times by 1 A/C. 1st. by a FW 190, at 2230 hrs. 8,000 ft. 237L 5143N-0521E. The 2nd. by a JU88, at 2241 hrs. 3,000 ft. 240L 5143N-0521E. 3rd. by a JU88, at 2244.5 hrs. 3,000 ft. 240L 5106N-0511E. 4th. by a twin engined enemy A/C. at 2246.5 hrs. 7,000 ft. 240L 5102N-0500E. 5th. by FW 190. at 2300 hrs. 4,000 ft. 3047N 0417E. 6th. time by a twin engined 3/A.C. at 2330 hrs. 6,000 ft. 320L 5143N-0244E.	See Appendix 15.
7/3.2.45.	Halifax NR172 'V'. Target: Goch.	P. R166405 2/0 And Crew.	A.P. McDiarmid.	1849	0120	Bombing Load. Same as 'C'. 10/10 cloud, tops 6000 ft. on arrival over target, Master Bomber heard instructing to abandon mission. No markers seen. On run up saw bomb explosions observed over target. Bomb Load Same as 'C' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45.	Halifax NR122 'X'. Target: Goch.	P. J. 40350 2/0 And Crew.	E.W. Comission.	1846	0145	Bombing Load. Same as 'C'. 7/8. cloud tops 6/3000 ft. when over target Master Bomber instructed to abandon mission target totally obscured by cloud. Bomb Load Same as 'C' brought back on instructions from Master Bomber.	See Appendix 15.
7/3.2.45.	Halifax NR2632 'W'. Target: Goch.	P. J. 38172 2/0 And Crew.	S.W. Moore.	1903	0129	Bombing Load. Same as 'C'. 10/10 cloud, tops 6/7000 ft. Saw 4 T.I.'s green going down at 2226.0 hrs. Master Bomber heard at 2217.0 hrs. instructing to bomb T.I.'s green. Master run up on target but no T.I.'s green visible. Started orbit but received instructions to abandon mission. Saw about four or five bomb bursts which appeared to be scattered. All other details obscured. Bomb Load Same as 'C' brought back on Master Bombers instructions. Master Bomber hard to receive at 2217.9 hrs. reception improved as we approached target.	See Appendix 15.

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OPERATIONS RECORD BOOK

APPENDIX

R.A.F. Form 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

SECRET

PAGE No. 6

(1941) Wk 955-26 50,000 545 U.S. 700
(1940-1941) Wk 955-26 50,000 545 U.S. 700

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2.45	Halifax MK922 'O'. Target: Wanne Eickel.	P. J. 2939 W/L T. G. Heares. And Crew.		0252	0356	Bombing Load: 8 x 250 lbs. G.P. (Tail Inst.) 6 x 500 lbs. SAP. AM 64 (T.D. .025) 2 x 500 lbs. M.C. (T.D. .025) N/T Filled. Visibility fair. T: 0617.6 hrs. H: 19,000 ft. Heading: 050T. 150 m.p.h. Markers were good. The T.I.'s green were in with the T.I.'s red. One large explosion at 0617.6 hrs. - straight and level camera run.	See Appendix 16.
2.45	Halifax NA131 'D'. Target: Wanne Eickel.	P. J. 2939 W/L W. R. Mitchell. And Crew.		0255	0342	Bombing Load: 8 x 250 lbs. G.P. (Tail Inst.) 4 x 500 lbs. SAP. AM 64 (T.D. .025) 4 x 500 lbs. M.C. (T.D. .025) T: 0617.7 hrs. H: 19,000 ft. Heading: 060T. 155 m.p.h. 4/10 cloud, tops 4/6000 ft. Saw T.I.'s red going down at 0609 hrs. followed by T.I.'s green. T.I.'s were well concentrated with T.I.'s green on port side. Saw several bomb bursts among T.I.'s. Did not see any flash. Flak hole starboard fin, targeted area. Straight and level on camera run for at least 30 seconds.	See Appendix 16.
2.45	Halifax NR146 'E'. Target: Wanne Eickel.	P. R166405 W/O M. D. Harwood, A.P. And Crew.		0245	0929	Bombing Load: 8 x 250 lbs. G.P. (Tail Inst.) 8 x 500 lbs. SAP. (T.D. .025) T: 0619.2 hrs. H: 19,000 ft. Heading: 070T. 165 m.p.h. Visibility fair. Two sets of T.I.'s red seen on run up but one set burst out just before attacking. Green T.I.'s scattered and to port. No results observed. 1 x 500 lbs. SAP (T.D. .025) just on safe, due to hang up over target, 51501-0235. Heading: 315T. 0749 hrs. 9,000 ft.	See Appendix 16.
2.45	Halifax NR206 'P'. Target: Wanne Eickel.	P. J. 27871 W/L G. L. Piper. And Crew.		0241	0917	Bombing Load: Same as 'E'. T: 0618.5 hrs. H: 19,000 ft. Heading: 080T. 170 m.p.h. 5/10 cloud, tops 4/5000 ft. First saw T.I.'s red going down at 0610.0 hrs. followed almost immediately by T.I.'s green. T.I.'s appeared to be well concentrated with greens slightly to left of first red. T.I.'s second T.I.'s red were in centre of T.I.'s green. Saw some bomb bursts well concentrated on T.I.'s. 16 T.I.'s seen. Attacked by 2 engine enemy aircraft, 0624 hrs. 14,000 ft. 241L. 3443H-0701E.	See Appendix 16.
2.45	Halifax NR156 'H'. Target: Wanne Eickel.	P. J. 22339 W/L A. S. Crudekshank. And Crew.		0244	0910	Bombing Load: Same as 'E'. T: 0617.4 hrs. H: 19,500 ft. Heading: 060T. 155 m.p.h. 3/10 cloud, tops 4000 ft. Markers were well concentrated and mixed but one set of T.I.'s was just expiring on starboard edge of main concentration. Bombing accurate on T.I.'s.	See Appendix 16.
2.45	Halifax NA124 'I'. Target: Wanne Eickel.	P. J. 11316 W/L J. R. Northrup. And Crew.		0248	0857	Bombing Load: Same as 'E'. T: 0618.0 hrs. H: 19,500 ft. Heading: 053T. 165 m.p.h. 3/10 cloud, tops 9000 ft. Saw T.I.'s red going down at 0609 hrs. T.I.'s green followed at 0611.0 hrs. T.I.'s red were well concentrated but T.I.'s green were scattered. Saw number of bomb bursts which were scattered. Some undershot the T.I.'s with a few in the area marked by T.I.'s.	See Appendix 16.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES																					
				UP	DOWN																							
2.45. Halifax NR249 *J* Target: Wanne Bokal.	P. J. 29194	P/O G.K. Grier. And Crew.		0236		Bombing Load. Same as 'E'. This aircraft failed to return, shot down by enemy anti-aircraft fire at 0730 hrs. over Dunkirk and crashed in no-mans-land. The crew were all seen to bail out. The Pilot was believed to have been killed in the descent, the Flight Engineer landed uninjured into Army hands and turned over to the nearest R.A.F. Unit, the balance of the crew landed in enemy hands and taken prisoner-of-war.	See Appendix 16.																					
		Pilot. J. 29194 P/O Grier, G.L. NAV. J. 33772 P/O Mitchell, P. A/B. R149161 P/S Marshall, J.A. W/E. R195778 P/S Morrison, J.B. M/WAG. R272572 P/S Johnston, J.G. P/AG. R272564 P/S Aickon, J.H. P/S. R26084 SGT Andrews, J.M.				<table border="1"> <thead> <tr> <th>Points</th> <th>Time</th> <th>On Hours</th> </tr> </thead> <tbody> <tr> <td>49</td> <td>13</td> <td>05:30</td> </tr> <tr> <td>42</td> <td>11</td> <td>09:30</td> </tr> <tr> <td>42</td> <td>11</td> <td>09:30</td> </tr> <tr> <td>42</td> <td>11</td> <td>09:30</td> </tr> <tr> <td>46</td> <td>12</td> <td>76:45</td> </tr> <tr> <td>42</td> <td>11</td> <td>09:30</td> </tr> </tbody> </table>	Points	Time	On Hours	49	13	05:30	42	11	09:30	42	11	09:30	42	11	09:30	46	12	76:45	42	11	09:30	
Points	Time	On Hours																										
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42	11	09:30																										
42	11	09:30																										
46	12	76:45																										
42	11	09:30																										
2.45. Halifax NR940 *L* Target: Wanne Bokal.	P. J. 35339	P/O E.C. Wilkinson. And Crew.		0242	0933	Bombing Load. Same as 'E'. T: 0619.0 hrs. H: 19,000 ft. Heading: 043T. 150 m.p.h. Visibility poor. Bombight was w/s, markers scattered with T.I.'s red to port. Some bombing observed was laid right on T.I.'s red. Bombight w/s suspect jets frozen up.	See Appendix 16.																					
2.45. Halifax NZ418 *M* Target: Wanne Bokal.	P. J. 26751	P/L J.H. Macdonald. And Crew.		0247	0952	Bombing Load. Same as 'E'. T: 0617.8 hrs. H: 18,000 ft. Heading: 065T. 155 m.p.h. Large clear break in cloud over target. Red T.I.'s were plentiful, with two batches of T.I.'s green. Red markers appeared to be concentrated but green T.I.'s slightly scattered to port. Numerous bomb bursts could be seen directly in marked area. No further results observed. Over target, small plank hole in starboard leading edge of rudder.	See Appendix 16.																					
2.45. Halifax NZ946 *O* Target: Wanne Bokal.	P. J. 36472	P/O I.P. Minkler. And Crew.		0235	0940	Bombing Load. Same as 'E'. T: 0630.0 hrs. H: 18,000 ft. Heading: 062T. 155 m.p.h. Visibility fair. There were three groups of red T.I.'s fairly well grouped. Saw T.I.'s green cascade at 0630.5 hrs. to port of Reds. Bombing appeared accurate. Few small fires could be seen on leaving target.	See Appendix 16.																					
2.45. Halifax NR936 *P* Target: Wanne Bokal.	P. J. 35385	P/O E.S. Evans. And Crew.		0249	0912	Bombing Load. Same as 'E'. T: 0621.0 hrs. H: 18,000 ft. Heading: 063T. 160 m.p.h. 6/10 cloud, with clear patch directly over target. Markers appeared scattered and bombed the centre of all T.I.'s, as unable to cut across stream to bomb red hatch. Bombing appeared accurate, and if markers were accurate should prove a very successful attack.	See Appendix 16.																					

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APPENDIX

C.A.F. FORM 541.

DETAIL OF WORK CARRIED OUT.

By No. 413 (R.C.A.F.E.) Squadron

SECRET

PAGE No. 7.

(Opt) Wt. 20,000 lbs. 2,000 gals. I.S. 700
(Opt) Wt. 20,000 lbs. 2,000 gals. I.S. 700

FOR THE MONTH OF February 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
9 2.45	Halifax ME336 'Q'	P. J. 33349 P/O J. Hochter. And Crew.		0253	0904	Bombing Load. Same as 'P'. T: 0620.4 hrs. H: 13,500 ft. Heading: 075E. 155 m.p.h. 3/10 cloud, tops 10,000 ft. T.I.'s green were lying to port of T.I.'s red. Bombed on port edge of T.I.'s red. Bombing concentrated on markers. No ground detail could be seen.	See Appendix 16.
9 2.45	Halifax PH174 'R'	P. J. 13136 S/L W.F. Brown. And Crew.		0246	0905	Bombing Load. Same as 'P'. T: 0622.5 hrs. H: 13,500 ft. Heading: 075E. 155 m.p.h. 6/10 cloud, tops 9,13000 ft. First saw T.I.'s red going down 0619.0 hrs. did not see T.I.'s green going down. T.I.'s red were well concentrated with T.I.'s green somewhat scattered. Saw number of bomb bursts and photo flashes which appeared to be well concentrated in target area.	See Appendix 16.
9 2.45	Halifax NA136 'U'	P. J. 21438 P/L W.E. Goodwin. And Crew.		0240	0859	Bombing Load. Same as 'P'. T: 0621.4 hrs. H: 13,500 ft. Heading: 063E. 160 m.p.h. 3/10 cloud, tops 6000 ft. Markers were well concentrated, both T.I.'s red and T.I.'s green, bombing seemed well concentrated around markers. Straight and level camera run.	See Appendix 16.
9 2.45	Halifax NR172 'W'	P. J. 13033 P/L A.E. Wierill. And Crew.		0239	0913	Bombing Load. Same as 'P'. T: 0621.5 hrs. H: 13,000 ft. Heading: 043E. 150 m.p.h. 3/10 cloud, tops 2000 ft. Markers were off to port according to crew. T.I.'s red were almost out when we bombed. Markers were well grouped. No results with respect for large glow on target. Straight and level camera run.	See Appendix 16.
9 2.45	Halifax ME632 'W'	P. R11632 W/O Russell, I.A. And Crew.		0234	0746	Bombing Load. Same as 'P'. This aircraft returned early due to port outer engine being w/a. Port outer engine went w/a over channel. Tried to feather it without success. The engine then caught on fire, and the air screw broke loose. 3 x 250 lbs. G.P. (Tail Inst.) 8 x 500 lbs. SAP. ANM 64 (T.I.'s .025) jettisoned w/a to lighten aircraft. 2017N-00213, 0543 hrs. 9000 ft.	See Appendix 16.
9 2.45	Halifax NR172 'X'	P. J. 40570 P/O B.W. Cowleson. And Crew.		0233	0930	Bombing Load. Same as 'P'. 3/10 clouds. Markers were scattered over about a mile and a half. T.I.'s red lay beyond the T.I.'s green concentration. On leaving target a visual check was made and all bombs were still in racks. Did not have enough fuel to proceed to normal jettisoning areas so dropped them in the emergency area. 8 x 250 lbs. G.P. (Tail Inst.) 8 x 500 lbs. SAP. ANM 64 (T.I.'s .025) jettisoned 2306N-00223, 9000 ft. 0834 hrs. Starboard outer engine and port inner engine gave some trouble which ran us short of fuel in the climb.	See Appendix 16.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
13/14.2.45	Halifax NR223 'Z'	P. J. 93172 P/O	S. W. Moores	0238	0907	Bombing Load. Same as 'B'. T: 0630.4 hrs. H: 20,000 ft. Heading: 070Z. 135 m.p.h. 5/10 cloud, tops 7000 ft. There were only a few mixed markers down at time of bombing, but a large salvo of T.I.'s rad cascaded into centre of these at 0621 hrs. Bombing in progress was scattered. Casara run straight and level.	See Appendix 16.
13/14.2.45	Halifax NR143 'A'	P. R166405 W/O	McDiarmid, A.P.	1730	0145	Bombing Load. 2 x 500 lbs. M.G. (R.D. 023) 6 x 500 lbs. S.A.P. ARM 64 (T.D. 023) 4 x 250 lbs. G.P. (Tail Inst.) W/T Filled. T: 2202.2 hrs. H: 20,000 ft. Heading: 086Z. 160 m.p.h. 10/10 cloud, tops 5000 ft. T.I.'s scattered over an area ten by twenty miles. Bombed glow of T.I.'s green visible on east side of area covered. Explosions were heaviest in area bombed. One large fire was seen in target area up to a distance of 150 miles on return. Few small fire holes in port outer engine and rear fuselage. Fire and time not known but presumed over target. <i>CAMPBELL EDWARD</i>	See Appendix 17.
13/14.2.45	Halifax M2922 'C'	P. J. 26428 P/O	Galley, A.E.	1746	0214	Bombing Load. Same as 'A'. T: 2200 hrs. H: 20,000 ft. Heading: 045Z. 160 m.p.h. 10/10 cloud, tops 5000 ft. Master Bomber not very clear, first heard at 2158 hrs. On run up a few red T.I.'s and green T.I.'s were seen cascading, and were somewhat scattered. The glow on the cloud covered a fairly large area. One large yellow explosion was seen at 2207 hrs. It was necessary to climb to 21,000 ft. to get above cloud from approx. 0900Z, to 0700Z on return route. <i>LANDED AT FARMINGTON.</i>	See Appendix 17.
13/14.2.45	Halifax NR181 'B'	P. J. 26972 P/O	L.P. Hinkley	1745	0212	Bombing Load. Same as 'A'. T: 2158.2 hrs. H: 20,000 ft. Heading: 085Z. 130 m.p.h. 10/10 cloud, tops 4000 ft. Did not see T.I.'s going down, but on approach saw green glow on clouds. Master Bomber instructions were to bomb this glow. T.I.'s appeared to be scattered. Due to cloud ground detail was obscured. Saw a number of photo flashes going off, which appeared to be fairly well concentrated. <i>LANDED AT FARMINGTON.</i>	See Appendix 17.
13/14.2.45	Halifax NR206 'F'	P. J. 27371 P/O	O.M. Piper	1747	0155	Bombing Load. Same as 'A'. T: 2203.5 hrs. H: 19,500 ft. Heading: 045Z. 135 m.p.h. 10/10 cloud, tops 5000 ft. Master Bomber gave instructions to bomb edge of glow of green T.I.'s. Markers were very scattered covering an area of 15 to 20 miles. No results observed. <i>LANDED AT FARMINGTON.</i>	See Appendix 17.
13/14.2.45	Halifax NR156 'H'	P. J. 2939 P/O	T.C. Moore	1748	0217	Bombing Load. Same as 'A'. T: 2201.6 hrs. H: 19,500 ft. Heading: 080Z. 130 m.p.h. 5/10 thin cloud, tops 5000 ft. Saw T.I.'s rad going down at 2157 hrs. at this time also saw what was believed to be two red spots T.I.'s shot up from ground 2 miles to port. Master Bomber heard at 2145 hrs. very faintly. On approaching target his instructions were to bomb glow of T.I.'s green on cloud. Did not see a good enough indication of T.I.'s green to bomb although some indication of T.I.'s green was seen to port of red glow on clouds. Therefore bomb red glow. No ground detail observed. After leaving target saw very large explosion at 2207.0 hrs. showing a white flare which continued for several minutes and was lost to view as we withdrew from target. Noted large explosion 4/5 miles to starboard. 2248.0 hrs. show at 2042N-1006E, 18,000 ft. Heading: 276Z. explosions gave off a yellowish flash and was not of long duration. <i>LANDED AT FARMINGTON.</i>	See Appendix 17.

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APPENDIX

L.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R. C. A. F.) Squadron.

SECRET

PAGE No. 8.

(1941) Wt. 5000-51 60,000 542 T.S. 700
(1942-43) Wt. 5000-51 60,000 1026 1247 T.S. 700

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES.
				Up	Down		
13/14.2.45	Halifax NF940 'L' Target: Bohlen.	P. J. 33420 P/O	E. E. Millbank.	1743	01:30	Bombing Load. Same as 'A'. T: 2201.2 hrs. H: 19,000 ft. Heading: 0532. 160 m.p.h. 8/10 cloud, tops 8,000 ft. Did not see any T.I.'s going down. Over target saw indications of T.I.'s scattered over wide area. Saw a number of bomb bursts which were scattered. No other detail observed. Stbl. outer engine developed oil leak on home-ward route. Tried to feather engine, but could not. On track to 5013N-0420E, diverted to H-Ville, France.	See Appendix 17.
13/14.2.45	Halifax NZ418 'M' Target: Bohlen.	P. J. 12038 P/L	A. E. Wainill.	1749	0230	Bombing Load. Same as 'A'. T: 2203.8 hrs. H: 19,000 ft. Heading: 0522. 155 m.p.h. 10/10 light cloud, 2/3000 ft. T.I.'s were widely scattered but photo flashes were well concentrated. One large explosion was seen at approx. 2245 hrs. and heavy glow lasted approx. 40 minutes and was visible 60 miles from target. LANDED AT PRAIRIEVILLE.	See Appendix 17.
13/14.2.45	Halifax NF961 'O' Target: Bohlen.	P. J. 26751 P/L	J. H. McQuiston.	1739	0208	Bombing Load. Same as 'A'. T: 2200.4 hrs. H: 18,500 ft. Heading: 0551. 155 m.p.h. 8/10 thin cloud, tops 6000 ft. Master Bomber instructed to bomb near edge of glow of T.I.'s green. Markers were scattered. No results seen. LANDED AT PRAIRIEVILLE.	See Appendix 17.
13/14.2.45	Halifax NF936 'P' Target: Bohlen.	P. J. 33885 P/O	R. S. Evans.	1734	0207	Bombing Load. Same as 'A'. T: 2204.5 hrs. H: 18,500 ft. Heading: 0701. 155 m.p.h. 10/10 cloud. Tops 67000 ft. Some red T.I.'s were seen to the north of the main glow from the green T.I.'s. The Master Bomber instructed to ignore these red T.I.'s. No results of bombing observed, as area was covered with cloud. Starboard wing and fuselage damaged by heavy flak in target area, at 2200 hrs. 18,500 ft. LANDED AT PRAIRIEVILLE.	See Appendix 17.
13/14.2.45	Halifax NZ356 'Q' Target: Bohlen.	P. J. 88849 P/O	J. Hechter.	1751	0206	Bombing Load. Same as 'A'. T: 2157.0 hrs. H: 18,000 ft. Heading: 0822. 155 m.p.h. 5/10 cloud, tops 10000 ft. Master Bomber gave instructions to bomb edge of glow of green T.I.'s. Markers were very scattered. One large fire seen on leaving target. LANDED AT WOODBURY OGE.	See Appendix 17.
13/14.2.45	Halifax FN714 'R' Target: Bohlen.	P. J. 11816 P/L	Northrup, J. E.	1752	0205	Bombing Load. Same as 'A'. T: 2201.6 hrs. H: 18,000 ft. Heading: 0551. 160 m.p.h. 8/10 cloud, tops 7000 ft. Master Bomber instructed to bomb near edge of glow of green T.I.'s. Markers were scattered over a large area. No results seen. LANDED AT PRAIRIEVILLE.	See Appendix 17.
13/14.2.45	Halifax NA496 'U' Target: Bohlen.	P. J. 21438 P/L	W. E. Goodwin.	1741	0215	Bombing Load. Same as 'A'. T: 2159.7 hrs. H: 17,500 ft. Heading: 0841. 160 m.p.h. 8/10 cloud, tops 6/8000 ft. Master Bomber gave instructions to bomb glow of green T.I.'s on cloud. Markers were scattered over a large area. One large explosion at 2200.3 hrs. LANDED AT PRAIRIEVILLE.	See Appendix 17.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
13/14.2.45	Halifax NR172 'U'. Target: Bohlen.	P. J. 13316 P/L	J.E. McAllister.	1740	0209	Bombing Load. Same as 'A'. T: 2203.5 hrs. H: 17,500 ft. Heading: 080T. 160 m.p.h. 10/10 cloud. Tops 2000 ft. Master Bomber gave instructions to bomb edge of glow but cloud not get his instructions clearly. Took edge of main glow markers were scattered over an area of 10 to 15 miles. No results observed. ANNEX AT ELENULSCHAU.	See Appendix 17.
13/14.2.45	Halifax NR127 'X'. Target: Bohlen.	P. J. 37121 P/O	D.J. Stewart.	1742	0200	Bombing Load. Same as 'A'. T: 2201.7 hrs. H: 17,500 ft. Heading: 087L. 165 m.p.h. 10/10 thin cloud. tops 5/6000 ft. T.L.'s were scattered over a ten mile radius with those bombed fairly well centering same. There was a large glow approx. one mile east of T.L.'s bombed. One large orange explosion was observed at 2206 hrs. of 15 second duration followed by another in target area. ANNEX AT ELENULSCHAU.	See Appendix 17.
13/14.2.45	Halifax NR228 'Z'. Target: Bohlen.	P. J. 38172 P/O	S.W. Moores.	1744	0133	Bombing Load. Same as 'A'. T: 2201.3 hrs. H: 19,000 ft. Heading: 080T. 172 m.p.h. 6/10 cloud. tops 3/4000 ft. Saw T.L.'s red and green immediately. Master Bomber first heard at 2154.0 hrs. instructing P.P.F. not to drop any Newhaven flares. Then received instructions to bomb glow on cloud from T.L.'s green. Ground marking was widely scattered. Saw some fires and small explosion at approx. 2201.0 hrs. no other ground detail observed. ANNEX AT ELENULSCHAU.	See Appendix 17.
14/15.2.45	Halifax NA195 'B'. Target: Chemnitz.	P. J. 93237 P/O	J.S. McKenzie.	1734	24:00 0427	Bombing Load. 1 x 2000 lbs. H.C. (Nose Inst.) (Mtnol). 8 No. 14 Clusters. N/T. Filled. This aircraft returned early due to hydraulics being w/s over Base. The under-carriage could not be retracted. Tried to jettison bomb, but found release and bomb distributor also w/s. Jettisoned 4 No. 14 clusters to lighten aircraft, at 2408-0135, 1325 hrs. 6000 ft. Brought back 1 x 2000 lbs. H.C. Nose Inst. (Mtnol). 4 x No. 14 clusters. ANNEX CANADY.	See Appendix 18.
14/15.2.45	Halifax NR146 'P'. Target: Chemnitz.	P. J. 28606 P/O	D.W. Falconer.	1654	0152	Bombing Load. Same as 'B'. T: 2108 hrs. H: 20,000 ft. Heading: 057L. 860 m.p.h. 10/10 cloud, tops 10/15000 ft. Master Bomber first heard at 2054 hrs. and was clear but no bombing instructions were heard before bombing. Master Bomber was asking for backing-up to drop sky markers; and T.L.'s but these did not appear until 2109 hrs. Through breaks in the cloud fires could be seen burning over an area of about 1/2 to 1 mile in diameter.	See Appendix 18.
14/15.2.45	Halifax NA202 'T'. Target: Chemnitz.	P. J. 11816 P/L	J.R. Northrup.	1705	0126	Bombing Load. Same as 'B'. T: 2107.1 hrs. H: 19,500 ft. Heading: 056T. 175 m.p.h. 10/10 cloud, tops 18,000 ft. Master Bomber first heard at 2102 hrs. but was not very clear. He instructed the main force to bomb on sky markers, but none were visible. Very large red explosions were seen in the target area. Fires were scattered over a wide area.	See Appendix 18.

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APPENDIX

U.S. AIR FORCE
FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (B.G.A.P.) Squadron

SECRET

PAGE No. 9

(Case) WL 205-6 6000 542 T.S. 700
(1944-231) WL 2051-2305 1036 1247 T.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
14/15.2.45	Halifax NR204 Target: Chemnitz	J. P. J.3585 P/O And Crew	R.S. Evans	1657	0050	Bombing Load. Same as 'B'. T: 2108.8 hrs. H: 19,500 ft. Heading: 038T. 155 m.p.h. 10/10 cloud, tops 67000 ft. Did not see any T.I.'s going down, but saw some T.I.'s green when directly over target. Master Bomber first heard at 2059 but reception not very clear. When about 10 miles from target received instructions to bomb Wengami but on arrival no sky marking flares were visible. Later saw Wengami going down well to port of where we bombed. Saw number of bomb bursts, photo flashes and incendiaries, which appeared to be well concentrated with numerous fires burning so that it was difficult to recognise the green colour of the T.I.'s. Had to bank sharply to starboard immediately after bombs away to avoid two aircraft. LANDED AT HARDWICK	See Appendix 18.
14/15.2.45	Halifax NR199 Target: Chemnitz	J. P. J.3628 P/O And Crew	A.B. Galley	1704	0141	Bombing Load. Same as 'B'. T: 2113.4 hrs. H: 19,000 ft. Heading: 038T. 133 m.p.h. 7/10 cloud, tops 18,000 ft. Marking was poor, due to cloud, also too infrequent. On leaving target the East section of the city was plainly seen well above. Incendiaries appeared quite scattered. Five minutes was wasted before bombing, looking for markers.	See Appendix 18.
14/15.2.45	Halifax NR124 'S' Target: Chemnitz	J. J.2787 P/L And Crew	O.M. Piper	1652	0057	Bombing Load. Same as 'B'. T: 2111.0 hrs. H: 19,000 ft. Heading: 055T. 150 m.p.h. There were two sets of sky markers which ignited at 2109 hrs. Had a good view of the target on leaving through breaks in 10/10 cloud. Bombing appeared fairly well concentrated and fires covered a large area, but location not identified. Landed Hardwick.	See Appendix 18.
14/15.2.45	Halifax NR338 'T' Target: Chemnitz	J. J.3672 P/O And Crew	L.P. Winkler	1647	2359	Bombing Load. Same as 'B'. T: 2107.1 hrs. H: 18,500 ft. Heading: 046T. 157 m.p.h. 10/10 cloud, tops 16000 ft. Saw T.I.'s red going down at 2058.0 hrs. and heard Master Bomber at about same time although signals were weak. His instructions were to bomb T.I.'s green. T.I.'s green were not visible but glow on cloud was distinguishable. As no sky marking flares had been dropped we bombed glow of T.I.'s green. After passing target could see quite a number of fires spread out over area. All other details obscured. Landed at Bussells due to shortage of fuel, owing to u/s pipe line from bomb bay over load.	See Appendix 18.
14/15.2.45	Halifax NR127 'X' Target: Chemnitz	J. J.3721 P/O And Crew	B.J. Stewart	1721	0136	Bombing Load. Same as 'B'. T: 2111.2 hrs. H: 18,500 ft. Heading: 055T. 175 m.p.h. 10/10 cloud, tops 18,000 ft. Marking was too scarce at our bombing time. No results were observed of attack due to cloud in target area. Tactics were very good.	See Appendix 18.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
14/15.2.45	Halifax NR228 'Z' Target: Chemnitz	P. J. 83172 P/O	S. W. Moore And Crew	1714	0120	Bombing Load. Same as 'B'. T: 2107.6 hrs. H: 13,000 ft. Reading: 0602. 160 m.p.h. 3/10 cloud, tops 19,000 ft. Master Bomber first heard at 2030 hrs. and was clearly heard, but he did not seem to receive the co-operation that was expected from the backers up. Bombing was scattered over the entire target area which seemed to be one mass of fire. Tactics were very good.	See Appendix 18.
17.2.45	Halifax NR145 'A'. Target: Wesel	P. R166405 W/O	McDiarmid, A.E. And Crew	1151	1715	Bombing Load. 6 x 500 lbs. ANI 64 (T.D. .025) 6 x 500 lbs. L.C. (T.D. .025) W/F filled. 10/10 cloud in layers, tops 17,500 ft. Cloud started to thicken up 10 miles inside France and continued to target. Mainly alto stratus tops up to 18,000 ft. Proceeded on track to within 20 miles of target. On instructions from Master Bomber at 1459 hours, mission was abandoned. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNBY	See Appendix 19.
17.2.45	Halifax NA131 'D'. Target: Wesel	P. J. 36972 P/O	L.P. Winkler And Crew	1149	1720	Bombing Load. Same as 'A'. 10/10 cloud, tops 19,000 ft. On reaching continent heavy cloud up to 19,000 ft. was encountered continuing to target area. Seven minutes from target Master Bomber was heard instructing to abandon mission. Landed at Thornby on instructions from Base. Brought bomb load back on instructions from Master Bomber. LANDED AT THORNBY	See Appendix 19.
17.2.45	Halifax NR206 'P'. Target: Wesel	P. J. 27857 P/L	O.M. Piper And Crew	1144	1739	Bombing Load. 8 x 500 lbs. ANI 64 (T.D. .025) 4 x 250 lbs. G.P. (T.D. .025) 10/10 cloud, tops 19,000 ft. starting low on French coast and gradually increasing in height on approaching target area. First heard Master Bomber at 1500 hrs. at which time he ordered to abandon mission. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNBY	See Appendix 19.
17.2.45	Halifax NR156 'H'. Target: Wesel	P. J. 36428 P/O	A.E. Galley And Crew	1148	1746	Bombing Load. Same as 'B'. 10/10 cloud, tops 18/19000 ft. Fatchy cloud at French coast fairly low. At 0400H cloud was layers at various heights and increased in density until solid at 0545H from 14,000 ft. and below. Master Bomber gave instructions to abandon mission at 1506.0 hrs. Had no difficulty maintaining formation except on climb. First heard Master Bomber at 1455.0 hrs. giving WMDs. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNBY	See Appendix 19.
17.2.45	Halifax NA202 'I'. Target: Wesel	P. J. 14816 P/L	J.R. Northrup And Crew	1200	1735	Bombing Load. Same as 'A'. 10/10 cloud, tops 18,500 ft. Right after take off weather became very poor until at 0300H on track 10/10 cloud was encountered continuing into target area. At 1505.0 hrs. and 6 miles short of target Master Bomber gave instructions to abandon mission. Bomb Load brought back on instructions from Master Bomber. LANDED AT THORNBY	See Appendix 19.

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APPENDIX

C.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 10.

(1951) Wt. 205-25 60,000 542 T.S. 700
(1950-1951) Wt. 2051-2267 1026 1247 T.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
17.2.45	Halifax HA204 'J'. Target: Wesal.	P. J. 35885 P/O R.S. Evans. And Crew.		1147	1750	Bombing Load. Same as 'A'. 10/10 cloud, tops 29,000 ft. On reaching continent, cloud thickened. On approaching target area 10/10 cloud in layers over and above height flown. At 1301.0 hrs. approx. 5 miles from target, Master Bomber was heard instructing to abandon mission. Landed at Thornaby on instructions from Base. Bomb load brought back on instructions from Master Bomber.	See Appendix 19.
17.2.45	Halifax NF938 'Y'. Target: Wesal.	P. J. 26751 P/L J.B. McQuiston. And Cloud.		1154	1732	Bombing Load. Same as 'A'. 10/10 cloud, tops 6,000 ft. with layers of cloud 7-9/10 at various heights above from about 20 miles inside French coast. Heard Master Bomber at about 1445 hrs. giving bombing wind. Then at 1459 hrs. received instructions to abandon mission. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNABY.	See Appendix 19.
17.2.45	Halifax NF199 'N'. Target: Wesal.	P. J. 2939 P/L T.C. Moore. And Crew.		1145	1734	Bombing Load. Same as 'A'. 10/10 cloud in layers up to 29,000 ft. Shortly after crossing channel cloud conditions were similar to those found over target. At 1500 hrs. 5120N-0630E, on instructions from Master Bomber mission was abandoned. Visibility was not too good after crossing French coast. Landed at Thornaby on instructions from Base. Bomb load brought back on instructions from Master Bomber.	See Appendix 19.
17.2.45	Halifax NF961 'O'. Target: Wesal.	P. J. 28606 P/O D.W. Falconer. And Crew.		1146	1741	Bombing Load. Same as 'A'. 10/10 cloud, solid tops 16,000 ft. Medium cloud prevailed over continent to 5100N-0545E, from which point cloud built up to solid with visibility zero on into target. Master Bomber gave instructions to abandon mission at 1455.0 hrs. No difficulties in climbing, but altipstream made flying difficult. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNABY.	See Appendix 19.
17.2.45	Halifax NF936 'P'. Target: Wesal.	P. J. 88849 P/O J. Hechter. And Crew.		1145	1722	Bombing Load. Same as 'A'. 10/10 cloud, tops 15,000 ft. Master Bomber instructed to abandon mission. Bomb load brought back on instructions from Master Bomber. Landed at Middleton St. George.	See Appendix 19.
17.2.45	Halifax EN174 'R'. Target: Wesal.	J. 13186 S/L W.P. Brown. And Crew.		1150	1726	Bombing Load. Same as 'A'. 10/10 cloud, tops 17,000 ft. Cloud on homeward trip right through to Dutch and half-way to England. Master Bomber instructed to abandon mission at 1506.6 hrs. Very difficult to fly in jagged formation due to weather. Difficulty experienced due to altipstream which caused loss of height. Bomb load brought back on instructions from Master Bomber. LANDED AT THORNABY.	See Appendix 19.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
17.2.45	Halifax NR196 'U'. Target: Wesel.	P. J. 21438 P/L W. E. C. Goodwin. And Crew.		1152	1725	Bombing Load. Same as 'A'. 10/10 cloud in layers, tops 18,000 ft. Cloud was encountered most of the route to target area. At 1438.5 hrs. Master Bomber was heard instructing to abandon mission approx. 30 miles short of target. Landed at Thornaby on instructions from Base. Bomb load brought back on instructions from Master Bomber.	See Appendix 19.
17.2.45	Halifax NR172 'V'. Target: Wesel.	P. J. 38172 P/O S. W. Moore. And Crew.		1153	1724	Bombing Load. Same as 'A'. 10/10 cloud in layers up to 17,000 ft. Master Bomber gave instructions to abandon mission at 1439.0 hrs. in solid cloud at time and turned to port at 1500 hrs. to track home. No difficulties were had in forming gaggle until solid cloud was reached; scattering somewhat from then on. Flow on navigation only after this. BOMB LOAD BROUGHT BACK ON INSTRUCTIONS FROM MASTER BOMBER. LANDED AT THORNABY.	See Appendix 19.
17.2.45	Halifax NR127 'X'. Target: Wesel.	P. J. 37121 P/O D. J. Stewart. And Crew.		1155	1737	Bombing Load. Same as 'A'. 10/10 cloud, tops 18,000 ft. Started to descend and were just breaking cloud at 14,000 ft. when Master Bomber gave instructions to abandon mission at 1454 hrs. Gaggle formation was tight. The formation was good until reaching the cloud at 0357E (on track) at 1422 hrs. then no consistent direction seemed to be keeping making it impossible to remain in formation. LANDED AT THORNABY.	See Appendix 19.
20/21.2.45	Halifax NR145 'A'. Target: Monheim.	P. J. 33385 P/O E. S. Evans. And Crew.		2200	0509	Bombing Load. 6 x 500 lbs. S.A.P. AMI 64 (I.D. .025) 6 x 500 lbs. M.G. (I.D. .025). T. 0142.5 hrs. H: 16,000 ft. Heading: 290E. 155 m.p.h. 10/10 cloud tops 45000 ft. T.I.'s green cascaded at 0143.0 hrs. Balling immediately starboard of red glow. Many bomb bursts were seen in glow area. Nothing further observed.	See Appendix 20.
20/21.2.45	Halifax NR131 'D'. Target: Monheim.	P. J. 95237 P/O J. S. McKenzie. And Crew.		2240	0425	Bombing Load. Same as 'A'. T: 0141.1 hrs. H: 16,000 ft. Heading: 286E. 155 m.p.h. 10/10 thin cloud, tops 3/4000 ft. First saw T.I.'s red going down at 0137.0 hrs. which went down through cloud leaving glow. Saw some T.I.'s green cascading in area after bombing. Large flash from explosion at 0139 hrs. lit cloud with reddish glow. Marking was well concentrated. Saw few fighter flares about 30 minutes before target.	See Appendix 20.
20/21.2.45	Halifax NR146 'B'. Target: Monheim.	P. J. 28606 P/O D. W. Falconer. And Crew.		2159	0448	Bombing Load. Same as 'A'. T: 0140.5 hrs. H: 16,000 ft. Heading: 284E. 155 m.p.h. 10/10 cloud, tops 3000 ft. Red T.I.'s first cascaded at 0138 hrs. only a few bomb bursts were seen and there was a tendency to undershoot. Three large explosions were seen at approx. 0144 hrs. Smoke columns were seen penetrating the cloud tops as we drew away from target area.	See Appendix 20.

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APPENDIX

A.F. FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 11

13281-2511 Wt. 2872-4156 724 1044 T.S. 780

FOR THE MONTH OF FEBRUARY 19 45

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21.2.45	Halifax NE206 Target: Monheim	P. J. 27857	P/L O.K. Piper.	2141	0455	Bombing Load: 8 x 500 lbs. S.A.P. AMM 64 (T.D. .025) 4 x 250 lbs. G.P. (Tail Inst.) N/T Filled. 10/10 cloud, tops 5000 ft. T: 0143.5 hrs. H: 15,500 ft. Heading: 300 T. 155 m.p.h. P.E.P. were two minutes late. Red T.I.'s were concentrated some green T.I.'s began to cascade about 2 minutes after bombing. A few bomb bursts were seen, and were very accurate. A white explosion was observed at 0144 hrs.	See Appendix 20.
20/21.2.45	Halifax NE456 Target: Monheim	P. J. 22399	P/L A.S. Cruickshank.	2138	0445	Bombing Load. Same as 'A'. T: 0141.2 hrs. H: 15,500 ft. Heading: 282T. 160 m.p.h. 10/10 thin cloud, tops 5000 ft. Did not see any T.I.'s red going down. Saw T.I.'s green going down after bombing ascending as they went through cloud at 0142.2 hrs. T.I.'s red were well concentrated. Saw a few bomb bursts slightly under shooting T.I.'s red to left. Saw large explosion at 0142 hrs. which flashed with reddish flash which changed to white.	See Appendix 20.
20/21.2.45	Halifax NE202 Target: Monheim	P. J. 36428	P/O A.E. Galley.	2145	0510	Bombing Load. Same as 'A'. T: 0144.3 hrs. H: 15,500 ft. Heading: 300T. 160 m.p.h. 10/10 cloud, tops 4,500 ft. Target seemed well concentrated. No markers actually seen. Many bursts through cloud. At 0151 hrs. large explosion in target yellowish. Distributor went w/s halfway, so immediately pulled jetison toggle.	See Appendix 20.
20/21.2.45	Halifax NE248 Target: Monheim	P. J. 37482	P/O J.S. McQuinn.	2147	0507	Bombing Load. Same as 'B'. T: 0141.8 hrs. H: 15,000 ft. Heading: 272T. 160 m.p.h. 10/10 cloud, tops 3,500 ft. T.I.'s red seem to cascade at 0136.0 hrs. T.I.'s were well grouped. Nothing further seen due to cloud. On camera run slipstream caused approx. 15 degree bank to starboard.	See Appendix 20.
20/21.2.45	Halifax NE199 Target: Monheim	P. J. 88849	P/O J. Hechter.	2156	0500	Bombing Load. Same as 'A'. T: 0142.6 hrs. H: 15,000 ft. Heading: 287T. 170 m.p.h. 10/10 cloud, tops 7000 ft. A concentrated glow covered target area, and bomb bursts seen placed accurately. Nothing further observed.	See Appendix 20.
20/21.2.45	Halifax NE996 Target: Monheim	P. R. 166403	P/O Mohammad, A.F.	2155	0427	Bombing Load. Same as 'A'. T: 0141.1 hrs. H: 15,000 ft. Heading: 269T. 160 m.p.h. 10/10 cloud, tops 3500 ft. First saw T.I.'s red going down at 0139.0 hrs. these descended through cloud leaving glow. T.I.'s well concentrated leaving bright glow on cloud. Did not see any T.I.'s green at all. Saw number of bomb bursts well concentrated in area of glow.	See Appendix 20.
20/21.2.45	Halifax FM174 Target: Monheim	P. J. 18186	S/L W.F. Brown.	2146	0449	Bombing Load. Same as 'A'. T: 0142.5 hrs. H: 14,500 ft. Heading: 308T. 160 m.p.h. 9/10 cloud, tops 5000 ft. Few bombs bursting in red T.I.'s. One large explosion red colour at 0143 hrs.	See Appendix 20.

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OPERATIONS RECORD BOOK

APPENDIX

A.F.
Form 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 11

15321-15311 W1 0723-0110 724 10244 T.S. 790

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21.2.45	Halifax NR206 Target: Monheim.	P. J. 27857	F/L C.M. Piper. And Crew.	2141	0455	Bombing Load. 8 x 500 lbs. S.A.E. AMB 64 (T.D. .025) 4 x 250 lbs. G.P. (Tail Inst.) N/T Filled. 10/10 cloud, tops 3000 ft. T: 0143.5 hrs. H: 15,500 ft. Heading: 300 T. 155 m.p.h. E.P.F. were two minutes late. Red T.I.'s were concentrated after bombing. A few bomb bursts were seen, and were very accurate. A white explosion was observed at 0144 hrs.	See Appendix 20.
20/21.2.45	Halifax NR156 Target: Monheim.	P. J. 22339	F/L A.S. Cruickshank. And Crew.	2158	0445	Bombing Load. Same as 'A'. T: 0144.2 hrs. H: 15,500 ft. Heading: 282 T. 160 m.p.h. 10/10 thin cloud, tops 5000 ft. Did not see any T.I.'s red going down. Saw T.I.'s green going down after bombing ceasing as they went through cloud at 0142.2 hrs. T.I.'s red were well concentrated. Saw a few bomb bursts slightly undershooting T.I.'s and to left. Saw large explosion at 0142 hrs. which flared with reddish flash which changed to white.	See Appendix 20.
20/21.2.45	Halifax NA202 Target: Monheim.	P. J. 36428	F/O A.E. Galley. And Crew.	2145	0510	Bombing Load. Same as 'A'. T: 0144.3 hrs. H: 15,500 ft. Heading: 300 T. 160 m.p.h. 10/10 cloud, tops 4,500 ft. Target seemed well concentrated. No markers actually seen. Many bursts through cloud. At 0144 hrs. large explosion in target yellowish. Distributor went w/s halfway, so immediately pulled yettison toggle.	See Appendix 20.
20/21.2.45	Halifax NZ418 Target: Monheim.	P. J. 37482	F/O J.S. McGuire. And Crew.	2147	0507	Bombing Load. Same as 'A'. T: 0144.8 hrs. H: 15,000 ft. Heading: 273 T. 160 m.p.h. 10/10 cloud, tops 3,500 ft. T.I.'s red seem to cascade at 0136.0 hrs. T.I.'s were well grouped. Nothing further seen due to cloud. On-come run aipstream caused approx. 15 degree bank to starboard.	See Appendix 20.
20/21.2.45	Halifax NF199 Target: Monheim.	P. J. 38849	F/O J. Hechter. And Crew.	2156	0500	Bombing Load. Same as 'A'. T: 0142.6 hrs. H: 15,000 ft. Heading: 287 T. 170 m.p.h. 10/10 cloud, tops 7000 ft. A concentrated glow covered target area, and bomb bursts seen placed accurately. Nothing further observed.	See Appendix 20.
20/21.2.45	Halifax NF936 Target: Monheim.	P. R166405	F/O McDermid, A.P. And Crew.	2155	0427	Bombing Load. Same as 'A'. T: 0141.1 hrs. H: 15,000 ft. Heading: 269 T. 160 m.p.h. 10/10 cloud, tops 3900 ft. First saw T.I.'s red going down at 0139.0 hrs. these descended through cloud leaving glow. T.I.'s well concentrated leaving bright glow on cloud. Did not see any T.I.'s green at all. Saw number of bomb bursts well concentrated in area of glow.	See Appendix 20.
20/21.2.45	Halifax FN174 Target: Monheim.	P. J. 18186	S/L W.F. Brown. And Crew.	2146	0449	Bombing Load. Same as 'A'. T: 0142.5 hrs. H: 14,500 ft. Heading: 308 T. 160 m.p.h. 9/10 cloud, tops 3000 ft. Few bombs bursting in red T.I.'s. One large explosion red colour at 0143 hrs.	See Appendix 20.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
20/21.2.45	Halifax NA186 'U' Target: Monheim.	P. R116832 W/O And Crew.	Russell, L. A.	2140	0456	Bombing Load. Same as 'A'. T: 0141.6 hrs. H: 14,500 ft. Heading: 282T. 160 m.p.h. 10/10 cloud, tops 4000 ft. P.P.F. were about 1 minute late. The glow was very well concentrated. Green T.I.'s were seen cascading after bombing at 0142 hrs. Saw only a few bomb bursts which were very accurate. One large red explosion was seen in the target area at 0144.5 hrs.	See Appendix 20.
20/21.2.45	Halifax NR172 'V' Target: Monheim.	P. J.13316 W/L And Crew.	J. E. McAllister.	2143	0454	Bombing Load. Same as 'A'. T: 0146.0 hrs. H: 14,500 ft. Heading: 286T. 130 m.p.h. 10/10 cloud, tops 2/3000 ft. T.I.'s green were beside T.I.'s red, so aimed between the. One red glow. Red and green T.I.'s down just before bombing.	See Appendix 20.
20/21.2.45	Halifax NP961 'O' Target: Monheim.	P. J.37124 F/O And Crew.	D. J. Stewart.	2219	0450	Bombing Load. Same as 'A'. T: 0143.1 hrs. H: 14,000 ft. Heading: 292T. 165 m.p.h. 10/10 cloud, tops 4/3000 ft. P.P.F. were two minutes late. Red T.I.'s were fairly well concentrated, but no green T.I.'s were visible prior to bombing. Several small explosions were seen in target area. No other results observed due to cloud.	See Appendix 20.
20/21.2.45	Halifax NP938 'W' Target: Monheim.	P. J.83172 F/O And Crew.	S. W. Moore.	2144	0426	Bombing Load. Same as 'A'. T: 0141.8 hrs. H: 14,000 ft. Heading: 290T. 160 m.p.h. 10/10 cloud, tops 7000 ft. Red T.I.'s began to cascade about two minutes late, but were concentrated. Bombed early in the attack and did not see any results of bombing while over the target. One large orange explosion occurred at 0144 hrs. and another large orange one immediately after.	See Appendix 20.
21/22.2.45	Halifax M2922 'O' Target: Worms.	P. J.39303 F/O And Crew.	G. A. Hyland.	1633	0021	Bombing Load. 1 x 2000 lbs. H.C. N.I. (Hinnell) 8 x No. 15 Cluster Fused 42 IV and 06/10 capsule. N/T filled. Slight ground haze. T: 2039.0 hrs. H: 17,000 ft. Heading: 057E. 165 m.p.h. T.I.'s red were becoming obscured by smoke, with greens well concentrated and visible. Large fires covered the target, and bomb bursts were accurately placed. Black smoke was seen near river, east of general area after. Some large explosions were seen at 2044 hrs.	See Appendix 21.
21/22.2.45	Halifax NR146 'B' Target: Worms.	P. J.28606 F/O And Crew.	D. W. Falconer.	1636	0035	Bombing Load. Same as 'O'. T: 2039.0 hrs. H: 17,500 ft. Heading: 050E. 160 m.p.h. No cloud, visibility good. Red T.I.'s cascaded at 2029 hrs. and green T.I.'s cascaded at 2036.0 hrs. T.I.'s and fires well concentrated. Bombs bursting in concentration few loads under shot. Incendiaries practically blanketed T.I.'s, column of smoke in centre approx. 8,000 ft. After bombing could see glow from fires 100 miles away. P.P.F. were late.	See Appendix 21.

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OPERATIONS RECORD BOOK

APPENDIX

U.S.A.F.
FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 12

14321-5511 Wk 2872-2126 72W 1064 T.S. 720

FOR THE MONTH OF February, 19 45

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
21/22.2.45	Halifax NR206 'F'	P. J. 27877	F/L O.M. Piper.	1635	0018	Bombing Load. Same as 'G'. T: 2040.0 hrs. H: 17,500 ft. Heading: 050T. 160 m.p.h. Visibility clear. First saw T.I.'s red going down at 2039.0 hrs. Followed by T.I.'s green soon after. Concentration of ground marking very good with T.I.'s green slightly overshooting T.I.'s red. As only two T.I.'s red were visible at time of bombing aimed at centre of all T.I.'s. Saw a number of bombs bursting in area of T.I.'s red with number of fires starting. After leaving target saw several large red glows flash up and fade out.	See Appendix 21.
	Target: Worms.		And Crew.				
21/22.2.45	Halifax NR156 'H'	P. J. 22339	F/L A.S. Grudokshank.	1637	0030	Bombing Load. Same as 'G'. T: 2038.4 hrs. H: 17,500 ft. Heading: 045T. 165 m.p.h. No cloud, visibility good. Green T.I.'s cascaded at 2037.0 hrs. Saw large fires after bombing. Bomb sight was frozen at target, used maximum angle.	See Appendix 21.
	Target: Worms.		And Crew.				
21/22.2.45	Halifax NA202 'T'	P. J. 36428	F/O A.E. Galley.	1632	0037	Bombing Load. Same as 'G'. T: 2041.0 hrs. H: 17,000 ft. Heading: 035T. 165 m.p.h. Slight haze. First saw T.I.'s green going down at 2038.0 hrs. saw T.I.'s red down on arrival. Marking was well concentrated with a number of fires around them. Saw a number of bomb bursts in marked area. Ran up to target at 2039.0 hrs. flak hole in front panel periscope mid upper turret.	See Appendix 21.
	Target: Worms.		And Crew.				
21/22.2.45	Halifax NA204 'J'	P. J. 33339	F/O E.C. Wilkinson.	1639	0011	Bombing Load. Same as 'G'. T: 2039.6 hrs. H: 18,000 ft. Heading: 045T. 160 m.p.h. Clear some haze up to 18,000 ft. Could not see first T.I.'s cascading. Bombed the only cluster of green T.I.'s which were in the main concentration of fires. One red T.I.'s was burning about a mile south of the main cluster. No other results were observed.	See Appendix 21.
	Target: Worms.		And Crew.				
21/22.2.45	Halifax NA181 'D'	P. J. 37482	F/O J.S. McGuire.	1638	0016	Bombing Load. Same as 'G'. T: 2040.5 hrs. H: 18,000 ft. Heading: 033T. 155 m.p.h. Slight haze. Bombed one T.I. red seen cascading 2038.5 hrs. on other reds were visible, but green T.I.'s were accurate in fire area. Solid fire blanketed target area with quite a lot of smoke up to 8,000 ft. Explosions were numerous with two large orange at 2034.0 hrs.	See Appendix 21.
	Target: Worms.		And Crew.				
21/22.2.45	Halifax NR961 'O'	P. J. 40550	F/O B.M. Cowleson.	1641	0033	Bombing Load. Same as 'G'. T: 2042.3 hrs. H: 18,000 ft. Heading: 045T. 160 m.p.h. Haze of low clouds. Red T.I.'s almost obscured by fog. Green T.I.'s somewhat scattered. Bombs were falling into mass of fires. Heavy column of black smoke over centre of target. 2038.0 hrs. two explosions orange with oily black smoke.	See Appendix 21.
	Target: Worms.		And Crew.				

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
21/22.2.45	Halifax HP936 Target: Worms.	P. R166405 W/O A.P. McDiarmid And Crew.		1642	0024	Bombing Load. Same as 'O'. T: 2042 hrs. H: 18,500 ft. Heading: 043T 160 m.p.h. Visibility clear, low haze. First T.I.'s red were seen to cascade at 2029 hrs, about 2 or 3 minutes later green T.I.'s cascaded and fell directly in the centre of the red T.I.'s. The target was continually marked with red T.I.'s which seemed to disappear into the fires. There was one large mass of fire covering an area about 7 miles in a line to the west of the marker bombed. Two large yellow explosions were seen at 2035 and 2038 hrs.	See Appendix 21.
21/22.2.45	Halifax NZ356 Target: Worms.	P. J. 98849 F/O J. Hechter And Crew.		1643	0037	Bombing Load. Same as 'O'. T: 2037.2 hrs. H: 19,500 ft. Heading: 047T 170 m.p.h. No cloud, visibility good. T.I.'s green were in four groups slightly ahead of fires. Solid fire covered target area. Bomb bursts were visible, in fires.	See Appendix 21.
21/22.2.45	Halifax FN174 Target: Worms.	P. G. 941 W/O P.W. Ball And Crew.		1645	0026	Bombing Load. Same as 'O'. T: 2036.0 hrs. H: 19,500 ft. Heading: 030T 155 m.p.h. Visibility clear. First saw T.I.'s red going down at 2029.0 hrs, followed by T.I.'s green at 2030.0 hrs. Good concentration of T.I.'s with greens slightly to starboard of reds. Saw a number of bomb bursts in marked area, and a number of fires mostly undershooting the ground marking, saw dummy town site operating 8 miles north of target.	See Appendix 21.
21/22.2.45	Halifax NA186 Target: Worms.	P. R116632 W/O L.A. Russell And Crew.		1646	0040	Bombing Load. Same as 'O'. T: 2033.5 hrs. H: 19,000 ft. Heading: 049T 155 m.p.h. No cloud, visibility good. Red T.I.'s first cascaded at 2029.0 hrs, green T.I.'s cascaded at 2032.0 hrs, greens under shot to starboard of reds, approx. 300 yds. two bunches of greens. All incendiaries dead on red T.I.'s H.E. falling on reds and some undershooting. One flak hole under W.O.P. seat, at 2034.0 hrs. 19,000 ft. target area.	See Appendix 21.
21/22.2.45	Halifax NR172 Target: Worms.	P. J. 18186 S/L W.P. Brown And Crew.		1647	0042	Bombing Load. Same as 'O'. T: 2035.8 hrs. H: 19,000 ft. Heading: 040T 155 m.p.h. Visibility clear. Red T.I.'s were first seen to cascade at 2030 hrs, about 3 or 4 minutes later green T.I.'s went down and fell in the middle of the concentration of the red T.I.'s. Smoke	See Appendix 21.
21/22.2.45	Halifax NR127 Target: Worms.	P. J. 37121 F/O D.J. Stewart And Crew.		1648	0025	Bombing Load. Same as 'O'. T: 2036.9 hrs. H: 19,000 ft. Heading: 052T 160 m.p.h. 1/10 cloud, tops 3/4000 ft. T.I.'s green were plainly visible in fires with reds burning out. Solid fire obscured the target with bombs bursting through out. An excellent attack.	See Appendix 21.

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APPENDIX

C.A.F.
FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 13

(9011) Wt. 2051-25 60,000 542 U.S. 700
(7004-2310) Wt. 2051-2310 1028 1242 U.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
23.2.45	Halifax NR145 'A' Target: Essen	P. J. 35885 And Crew	F/O R. S. Evans	1143	1756	Bombing Load. 1 x 2000 lbs. H.C. Nose Inst. (Minol). 12 x No. 14 clusters 42 IV 05/10. W/T Filled. T: 1508.2 hrs. H: 17,500 ft. Heading: 047E. 155 m.p.h. 10/10 cloud, tops 14,000 ft. No marking seen at all. No ground detail observed.	See Appendix 22.
23.2.45	Halifax NR145 'B' Target: Essen	P. J. 93237 And Crew	F/O J. S. McKenzie	1147	1748	Bombing Load. Same as 'A'. T: 1508.0 hrs. H: 17,000 ft. Heading: 050E. 160 m.p.h. 10/10 cloud, tops 14,000 ft. No markers seen, and all ground detail obscured.	See Appendix 22.
23.2.45	Halifax M2922 'G' Target: Essen	P. J. 39303 And Crew	F/O G. A. Ryland	1141	1745	Bombing Load. Same as 'A'. T: 1507.5 hrs. H: 17,500 ft. Heading: 047E. 160 m.p.h. 10/10 cloud, tops 16,000 ft. No markers seen or any results due to solid cloud. Goggles was loose outward, but good over target.	See Appendix 22.
23.2.45	Halifax NR181 'D' Target: Essen	P. J. 36423 And Crew	F/O A. E. Galley	1205	1739	Bombing Load. Same as 'A'. T: 1509.0 hrs. H: 17,000 ft. Heading: 044E. 155 m.p.h. 10/10 cloud, tops 13,000 ft. Nothing seen due to solid cloud. Goggle formation was good.	See Appendix 22.
23.2.45	Halifax NR146 'E' Target: Essen	P. J. 28606 And Crew	F/O D. W. Falconer	1146	1746	Bombing Load. Same as 'A'. T: 1508.0 hrs. H: 16,500 ft. Heading: 047E. 160 m.p.h. 10/10 cloud, tops 12,000 ft. No markers seen or bombing results due to solid cloud. Few small holes in fuselage from heavy flak, at 1507.5 hrs. 16,500 ft. target area.	See Appendix 22.
23.2.45	Halifax NR206 'F' Target: Essen	P. J. 27857 And Crew	F/O G. M. Piper	1142	1743	Bombing Load. Same as 'A'. T: 1509.5 hrs. H: 17,500 ft. Heading: 050E. Same as 'A'. 155 m.p.h. 10/10 cloud, tops 5000 ft. Cloud totally obscured target area, nothing seen. Attack was well concentrated from point of view of aircraft formation and timing.	See Appendix 22.
23.2.45	Halifax NR156 'H' Target: Essen	P. J. 22329 And Crew	F/O A. S. Grudokhank	1140	1738	Bombing Load. Same as 'A'. T: 1508.7 hrs. H: 16,500 ft. Heading: 045E. 160 m.p.h. 10/10 cloud, tops 8,9,000 ft. Markers were not seen. Cloud prevented any bombing results from being seen.	See Appendix 22.
23.2.45	Halifax NA202 'I' Target: Essen	P. J. 18186 And Crew	S/L W. P. Brown	1145	1738	Bombing Load. Same as 'A'. T: 1507.6 hrs. H: 17,000 ft. Heading: 046E. 155 m.p.h. 10/10 low cloud, tops 7/8,000 ft. No markers seen. No bombing results can be estimated. Concentration on release point very good.	See Appendix 22.
23.2.45	Halifax NA204 'J' Target: Essen	P. J. 12038 And Crew	F/L A. E. Winmill	1149	1747	Bombing Load. Same as 'A'. T: 1508.7 hrs. H: 16,500 ft. Heading: 045E. 155 m.p.h. 10/10 cloud, tops 10,000 ft. No markers seen and results not seen due to cloud.	See Appendix 22.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
23.2.45.	Halifax NZ418 'H'. Target: Essen.	P. J.37482 P/O J. S. McGuire. And Crew.		1139	1757	Bombing Load. Same as 'A'. T: 1509.5 hrs. H: 16,500 ft. Heading: 046T. 150 m.p.h. 10/10 cloud, tops 20,000 ft. At 1510.0 hrs. saw one green smoke puff burst at approx. 15,000 ft. No results observed due to solid cloud. Gaggle was long but well narrowed from base outward to target. After leaving target scattered out somewhat.	See Appendix 22.
23.2.45.	Halifax NR228 'Z'. Target: Essen.	P. R166405 W/O A. P. McDiarmid. And Crew.		1216	1749	Bombing Load. Same as 'A'. T: 1511.8 hrs. H: 16,500 ft. Heading: 047T. 155 m.p.h. 10/10 cloud, tops 4,500 ft. Did not see any marking or ground detail. Gaggle did not begin to lose time until over enemy territory. Bombing appeared to be concentrated.	See Appendix 22.
23.2.45.	Halifax NF961 'O'. Target: Essen.	P. J.40550 P/O B. M. Coulson. And Crew.		1144	1753	Bombing Load. Same as 'A'. T: 1508.3 hrs. H: 16,500 ft. Heading: 047T. 155 m.p.h. 10/10 haze up to 15,000 ft. No markers whatsoever seen. No results seen due to cloud. One small hole caused by flak in the starboard inner engine exhaust, at 1509.5 hrs. 16,500 ft. target area.	See Appendix 22.
23.2.45.	Halifax NF936 'P'. Target: Essen.	P. R116832 W/O L. A. Russell. And Crew.		1151	1744	Bombing Load. Same as 'A'. T: 1509 hrs. H: 15,500 ft. Heading: 053T. 155 m.p.h. 10/10 cloud, tops 8000 ft. Only one green smoke puff marker seen at 1507 hrs. No results seen due to cloud.	See Appendix 22.
23.2.45.	Halifax MZ356 'Q'. Target: Essen.	P. J.88849 P/O J. Hechter. And Crew.		1150	1742	Bombing Load. Same as 'A'. T: 1508.0 hrs. H: 15,500 ft. Heading: 047T. 155 m.p.h. 10/10 cloud, top 7,000 ft. Saw one green smoke puff at 1503.0 hrs. but this disappeared before we arrived at target. No ground detail visible. Flak hole in port wing at 5110N-062E, 1458 hrs. 15,500 ft. Marking insufficient.	See Appendix 22.
23.2.45.	Halifax NA486 'U'. Target: Essen.	P. J.25339 P/O E. C. Wilkinson. And Crew.		1152	1740	Bombing Load. Same as 'A'. T: 1508.3 hrs. H: 16,000 ft. Heading: 049T. 155 m.p.h. 10/10 cloud, tops 6,000 ft. Green smoke puff seen on run up, but disintegrated before reaching target. No results observed.	See Appendix 22.
23.2.45.	Halifax NR172 'V'. Target: Essen.	P. J.13316 S/L J. E. McAllister. And Crew.		1154	1754	Bombing Load. Same as 'A'. T: 1508.0 hrs. H: 15,500 ft. Heading: 047T. 160 m.p.h. 10/10 cloud, tops 15,500 ft. No marking seen to go down or any results observed due to solid cloud. Crews after leaving target did not adhere to tactics. Gaggle was good outward and over target.	See Appendix 22.
23.2.45.	Halifax NR127 'X'. Target: Essen.	P. J.37121 P/O D. J. Stewart. And Crew.		1148	1741	Bombing Load. Same as 'A'. T: 1508.1 hrs. H: 16,200 ft. Heading: 043T. 160 m.p.h. 10/10 cloud, tops 10,000 ft. No markers seen. No results could be observed due to cloud.	See Appendix 22.
23.2.45.	Halifax NF938 'Y'. Target: Essen.	P. J.83172 P/O S. W. Moores. And Crew.		1153	1730	Bombing Load. Same as 'A'. T: 1508.5 hrs. H: 15,500 ft. Heading: 048T. 160 m.p.h. 10/10 cloud, tops 10,000 ft. No markers seen, so bombed on gce, no results seen due to cloud.	See Appendix 22.

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APPENDIX

R.A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 45 (R.C.A.F.) Squadron.

SECRET

PAGE No. 14.

(9911) Wt. 2550-55 60,000 742 I.S. 700
(9914-5111) Wt. 2550-285 1028 1242 I.S. 700

FOR THE MONTH OF FEBRUARY, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
24.2.45.	Halifax NR145 'A'. Target: Kamen.	P. J.3385 P/O R.S. Evans. And Crew.		1317	1943	Bombing Load. 10 x 500 lbs. S.A.P. AMI 64 (T.D. .025) 6 x 500 lbs. M.C. (T.D. .025). N/T Filled. T: 1630.9 hrs. H: 15,000 ft. Heading: 117°. 155 m.p.h. 10/10 cloud, tops 4 1/2,000 ft. Crew did not hear Master Bomber's instructions. No signs of marking. No ground detail seen because of cloud below.	See Appendix 23.
24.2.45.	Halifax NR185 'B'. Target: Kamen.	P. J.9327 P/O J.S. McKensie. And Crew.		1320	1949	Bombing Load. 10 x 500 lbs. S.A.P. AMI 64 (T.D. .025) 4 x 500 lbs. M.C. (T.D. .025) 2 x 500 lbs. G.P. (T.D. .025) N/T Filled. T: 1649.1 hrs. H: 15,000 ft. Heading: 120°. 160 m.p.h. 10/10 cloud, tops 4/6,000 ft. No markers seen, cloud obscured target. Straight and level bombing run. Very poor gaggle on way home.	See Appendix 23.
24.2.45.	Halifax NR146 'B'. Target: Kamen.	P. J.2866 P/O D.W. Falconer. And Crew.		1319	1947	Bombing Load. Same as 'A'. T: 1649.5 hrs. H: 15,000 ft. Heading: 117°. 160 m.p.h. 10/10 cloud, tops 5,000 ft. Saw no markers. Master Bomber first heard at 1632.5 hrs. when instructions received were to bomb on navigational aids. No ground detail observed. Evasive action taken to avoid our own aircraft during camera run.	See Appendix 23.
24.2.45.	Halifax NR206 'P'. Target: Kamen.	P. J.2787 P/L G.L. Piper. And Crew.		1311	1957	Bombing Load. Same as 'A'. T: 1649.3 hrs. H: 15,500 ft. Heading: 120°. 155 m.p.h. 10/10 cloud, tops 5/6,000 ft. Master Bomber instructed to bomb using navigation aids. Target obscured by cloud.	See Appendix 23.
24.2.45.	Halifax NR156 'H'. Target: Kamen.	P. J.2239 P/L A.S. Cruickshank. And Crew.		1318	1948	Bombing Load. Same as 'A'. T: 1649.5 hrs. H: 15,500 ft. Heading: 076°. 155 m.p.h. 10/10 cloud, tops 5/10,000 ft. No markers seen, cloud obscured target. One small hole on starboard side over H23 blister caused by fragment from nearby explosion of another kite 1650.5 hrs. 1138N-0740E, 15,500 ft.	See Appendix 23.
24.2.45.	Halifax NA202 'I'. Target: Kamen.	P. J.3970 P/O G.L. Hyland. And Crew.		1315	1945	Bombing Load. Same as 'A'. T: 1649.5 hrs. H: 15,500 ft. Heading: 100°. 160 m.p.h. 10/10 cloud, tops 8,000 ft. Cloud obscured target. No markers seen. Master Bomber instructed to bomb on navigational aids. Gaggle strung out but closed up too tight over target area.	See Appendix 23.
24.2.45.	Halifax NA204 'J'. Target: Kamen.	P. J.4050 P/O E.W. Cowleson. And Crew.		1313	1938	Bombing Load. 10 x 500 lbs. S.A.P. AMI 64 (T.D. .025) 6 x 500 lbs. G.P. (T.D. .025) N/T Filled. T: 1649.3 hrs. H: 16,300 ft. Heading: 143°. 160 m.p.h. 10/10 cloud, tops 8,000 ft. Master Bomber heard, but unintelligible. Cloud completely obscured target.	See Appendix 23.
24.2.45.	Halifax NZ418 'M'. Target: Kamen.	P. J.3742 P/O J.S. McGuire. And Crew.		1316	1925	Bombing Load. 10 x 500 lbs. S.A.P. AMI 64 (T.D. .025) 2 x 500 lbs. M.C. (T.D. .025) 4 x 500 lbs. G.P. (T.D. .025) T: 1649.5 hrs. H: 16,000 ft. Heading: 120°. 165 m.p.h. No markers seen, bombed on geo. Run was straight and level, had to turn off to avoid aircraft dropping load overhead.	See Appendix 23.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES																								
				UP	DOWN																										
24.2.45	Halifax NF199 'N'. Target: Kamen.	P. R166405 W/O And Crew.	A.F. McDiarmid.	1321	1939	Bombing Load. Same as 'A'. T: 1652.4 hrs. H: 16,000 ft. Heading: 153T. 155 m.p.h. 10/10 cloud, tops 4/5,000 ft. No marking was seen, Master Bomber instructed to bomb on navigational aids. Nothing seen in target area due to cloud. Gaggle was good.	See Appendix 23.																								
24.2.45	Halifax NF936 'P'. Target: Kamen.	P. R116832 W/O Pilot: R116832 W/O L.A. Russell. Nav: R167657 W/O J. Gallagher. A/B: J.39383 P/O P. Pokryka. W/O: R171385 W/O G.C. Craigie. A/B: R259791 P/S R.C. Brown. A/B: R260068 P/S W.H. Jones. P/B: 1540203 P/S L. Trowsdale.	L.A. Russell.	1309	---	Bombing Load. Same as 'A'. This aircraft failed to return from this operation. <table border="1"> <thead> <tr> <th>Points</th> <th>Trips</th> <th>Op. Hours</th> </tr> </thead> <tbody> <tr><td>29</td><td>9</td><td>64:55</td></tr> <tr><td>29</td><td>8</td><td>58:45</td></tr> <tr><td>29</td><td>8</td><td>58:45</td></tr> <tr><td>29</td><td>8</td><td>58:45</td></tr> <tr><td>29</td><td>8</td><td>58:45</td></tr> <tr><td>29</td><td>9</td><td>66:05</td></tr> <tr><td>29</td><td>8</td><td>60:00</td></tr> </tbody> </table>	Points	Trips	Op. Hours	29	9	64:55	29	8	58:45	29	8	58:45	29	8	58:45	29	8	58:45	29	9	66:05	29	8	60:00	See Appendix 23.
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29	9	64:55																													
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29	9	66:05																													
29	8	60:00																													
24.2.45	Halifax HHT74 'R'. Target: Kamen.	P. G.841 W/O F.W. Ball. And Crew.		1314	1946	Bombing Load. 10 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 5 x 500 lbs. M.C. (T.D. .025) 1 x 500 lbs. G.E. (T.D. .025) N/T Filled. T: 1649.4 hrs. H: 16,500 ft. Heading: 100T. 165 m.p.h. 10/10 cloud, tops 6,000 ft. No marking seen. Master Bomber first heard at 1630 hrs. giving time. Later gave Basement flight plan. Afterwards followed by instructions to bomb on navigational aids. No ground detail observed.	See Appendix 23.																								
24.2.45	Halifax NA186 'U'. Target: Kamen.	P. J.35009 P/O And Crew.	E.C. Wilkinson.	1306	1942	Bombing Load. Same as 'A'. T: 1650.6 hrs. H: 16,500 ft. Heading: 093T. 155 m.p.h. 10/10 cloud, tops 5,000 ft. No markers were seen, Master Bomber clearly heard first at 1637.0 hrs. No results observed due to cloud. Whole gaggle formation was off track into target at approx. 122T. aircraft as a result turned into target to port and bombing was from all directions.	See Appendix 23.																								
24.2.45	Halifax NR172 'V'. Target: Kamen.	P. J.36420 P/O And Crew.	A.E. Galley.	1305	1922	Bombing Load. 10 x 500 lbs. S.A.P. ANM 64 (T.D. .025) 2 x 500 lbs. M.C. (T.D. .025) N/T Filled. T: 1649.1 hrs. H: 17,000 ft. Heading: 183E. 155 m.p.h. 10/10 cloud, tops 8/9,000 ft. No markers were seen, Master Bomber was heard talking to his deputy, asking for time check. But no bombing instructions were given.	See Appendix 23.																								
24.2.45	Halifax NR127 'X'. Target: Kamen.	P. J.37121 P/O And Crew.	D.J. Stewart.	1308	1923	Bombing Load. Same as 'A'. T: 1649.7 hrs. H: 17,700 ft. Heading: 068T. 165 m.p.h. 10/10 cloud, tops 8,000 ft. Master Bomber instructed main force to bomb on navigational aids. No results of bombing seen due to cloud. Gaggle started to scatter at the last turning point before target.	See Appendix 23.																								

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OPERATIONS RECORD BOOK

APPENDIX U.S. AIR FORCE
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

SECRET

PAGE No. 15

*1321-02111 WL 2822-2135 738 1044 I.S. 780

FOR THE MONTH OF February, 1945.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
24.2.45.	Halifax NR938 'Y'. Target: Kamen.	P. J. 33349 P/O J. Hochter. And Crew.		1304	1915	Bombing Load. Same as 'J'. T: 1649.4 hrs. H: 17,000 ft. Heading: 120T. 155 m.p.h. 10/10 cloud, tops 7,000 ft. No markers seen. Ground detail obscured by cloud. Straight and level run.	See Appendix 23.
24.2.45.	Halifax NR228 'Z'. Target: Kamen.	P. J. 33172 P/O S. W. Moores. And Crew.		1307	1931	Bombing Load. Same as 'A'. T: 1649.5 hrs. H: 17,000 ft. Heading: 120T. 160 m.p.h. 10/10 cloud, tops 7,000 ft. No markers seen. Target completely obscured by cloud. Jettisoned 3 x 500 lbs. H.C. (T.D. 025) (Safe) hung up over target at 1305 hrs. 3,000 ft. 525N-0920E. Run roughed up by slipstreams had to avoid aircraft overhead.	See Appendix 23.
27.2.45.	Halifax NA135 'B'. Target: Mainz.	P. J. 33237 P/O J. S. McKenzie. And Crew.		1246	1921 155 m.p.h.	Bombing Load. 1 x 2000 lbs. H.C. Nose Inst. 42 No. 14 Clusters 42 Mk. IV. 06/10. 10/10 cloud, tops 4,6,000 ft. T: 1630.0 hrs. H: 13,000 ft. Heading: 092T. m.p.h. Sky marking was late and after leaving target noticed marking widely scattered. No further results seen due to cloud. The whole gaggle formation was slightly to starboard of G-line which necessitated a last minute quick turn to port, resulting in aimless headings at bombing time.	See Appendix 24.
27.2.45.	Halifax NR222 'O'. Target: Mainz.	P. J. 33703 P/O G. A. Hyland. And Crew.		1245	1446	Bombing Load. Same as 'B'. This aircraft returned early. Abandoned task over Base as undercarriage was u/s. Pilot felt that it was impossible to follow tactics with undercarriage not retracted so decided to return early. Jettisoned 1 x 2000 lbs. H.C. Nose Inst. 42 x No. 14 Clusters 42 Mk. IV 06/10. at 545 hrs. 0057E, 1352 hrs. 3,000 ft. to obtain safety weight for landing.	See Appendix 24.
27.2.45.	Halifax NR146 'E'. Target: Mainz.	P. J. 23606 P/O D. W. Falconer. And Crew.		1249	1930	Bombing Load. Same as 'B'. T: 1631.5 hrs. H: 13,000 ft. Heading: 093T. 160 m.p.h. 10/10 cloud, tops 12,000 ft. Marking was late and after bombing went down in too few numbers and well scattered. Cloud obscured view of bombing results. Marking was late and with gaggle at one time to starboard of G-line it necessitated quick S turns resulting in bombing from various headings.	See Appendix 24.
27.2.45.	Halifax NR206 'P'. Target: Mainz.	P. J. 27857 P/L G. M. Piper. And Crew.		1251	1925	Bombing Load. Same as 'B'. T: 1630.5 hrs. H: 13,000 ft. Heading: 083T. 155 m.p.h. 10/10 cloud, tops 3,000 ft. Markers late first seen at 1630.2 hrs. Green smoke puffs. No results seen due to cloud.	See Appendix 24.
27.2.45.	Halifax NR156 'H'. Target: Mainz.	P. J. 23399 P/L A. S. Cruickshank. And Crew.		1244	1931	Bombing Load. Same as 'B'. T: 1631.6 hrs. H: 16,500 ft. Heading: 091T. 155 m.p.h. 10/10 cloud, tops 7,5,000 ft. Master Bomber instructed to bomb on sky markers. Homing on G-line found that the centre markers corresponded perfectly with G-line. Bomber gaggle point. No results observed. Bomber gaggle yet, but came in on target from starboard. Bombed on wrong headings and made it dangerous for those on the lattice line.	See Appendix 24.

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
27.2.45	Halifax NA202 'I'. Target: Mainz.	P. J. 35335 E/O And Crew.	Evans, R. S.	1243	1926	Bombing Load. Same as 'B'. T: 1631.1 hrs. H: 16,500 ft. Heading: 102L. 155 m.p.h. 10/10 cloud, tops 5/6,000 ft. Marking was constant, dropping every few seconds at our time. No results were observed due to solid cloud. Target 16,500 ft. 1631.5 hrs. three feet of starboard aileron knocked off by a cluster of incendiaries. We were the first aircraft to bomb. The large formation of approx. 200 aircraft were ahead of us; overshoot the target area as no markers were down made a U turn and came back on approx. reciprocal course and bombed. At this time bombs were raining on us.	See Appendix 24.
27.2.45	Halifax NA204 'J'. Target: Mainz.	P. J. 35420 E/O And Crew.	E. R. Millbank.	1247	1932	Bombing Load. Same as 'B'. T: 1632.5 hrs. H: 16,500 ft. Heading: 102L. 150 m.p.h. 10/10 cloud, tops 8,000 ft. Master Bomber instructions were not heard clearly until after bombing. Two green smoke puffs were visible about 1/4 mile, apart in a line running N-S bombed the northern one. Target was completely obscured by cloud.	See Appendix 24.
27.2.45	Halifax NF199 'N'. Target: Mainz.	P. J. 83849 E/O And Crew.	J. Hechter.	1243	1913	Bombing Load. Same as 'B'. T: 1630.3 hrs. H: 17,000 ft. Heading: 105T 155 m.p.h. 10/10 cloud, tops 7/10,000 ft. Master Bomber first heard at 1620 hrs. and was heard clearly. Sky marking green smoke puffs were first seen at 1629 hrs. and Master Bomber instructed to bomb these, which were well concentrated. Cloud completely obscured the target and results of bombing was not seen.	See Appendix 24.
27.2.45	Halifax NF961 'O'. Target: Mainz.	P. J. 40550 E/O And Crew.	B. J. Cowleson.	1240.	1933.	Bombing Load. Same as 'B'. T: 1631.2 hrs. H: 17,000 ft. Heading: 020T. 155 m.p.h. 10/10 cloud, tops 8,000 ft. Markers were not released until 1631 hrs. Two sets broke to starboard and one to port. Were ready to bomb on goe but in last seconds of run-up corrected to bomb on centre of smoke puffs. No bombing results could be observed. Master Bomber heard instructing to bomb on sky markers.	See Appendix 24.
27.2.45	Halifax NF174 'R'. Target: Mainz.	P. J. 37432 E/O And Crew.	J. S. McGuire.	1250	1916	Bombing Load. Same as 'B'. T: 1631.0 hrs. H: 17,000 ft. Heading: 103T. 155 m.p.h. 10/10 cloud, tops 4,000 ft. Marking was late and Master Bomber was heard only faintly until approx. 1626.0 hrs. when first heard. On leaving target area marking was seen to be scattered. No results of bombing observed due to cloud.	See Appendix 24.
27.2.45	Halifax NR124 'S'. Target: Mainz.	P. B166405 E/O And Crew.	A. F. McDiarmid.	1241	1923	Bombing Load. Same as 'B'. T: 1632.5 hrs. H: 16,000 ft. Heading: 100T. 155 m.p.h. 10/10 cloud, tops 50,000 ft. Master Bomber instructions heard. Sky marking believed late and not of sufficient quantity. Markers believed about 3 minutes late.	See Appendix 24.

OPERATIONS RECORD BOOK

APPENDIX

A.F.
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

SECRET

PAGE No. 16.

*11311-0111 Wt. 2721-2125 724 1244 U.S. 700

FOR THE MONTH OF February, 1945

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
27.2.45.	Halifax NA136 'U'. Target: Mainz.	P. J. 35339 P/O E.C. Wilkinson. And Crew.		1242	1920	Bombing Load. Same as 'B'. T: 1631 hrs. H: 16,000 ft. Heading: 100T. 155 m.p.h. 10/10 cloud, tops 10,000 ft. First sky markers on time and well backed up. Unable to see results of bombing due to cloud. Master Bomber heard instructing bombing on sky markers.	See Appendix 24.
27.2.45.	Halifax NR172 'V'. Target: Mainz.	P. J. 13316 S/L J.E. McAllister. And Crew.		1237	1929	Bombing Load. Same as 'B'. T: 1632.4 hrs. H: 16,000 ft. Heading: 102T. 155 m.p.h. 10/10 cloud, tops 10,000 ft. First markers seen at 1630 hrs. Impossible to see results of bombing because of cloud. Sky markers well grouped but believed to be 4 minutes late. At 1644H-0815H. what is believed to be a dummy site, fires and numerous small explosions.	See Appendix 24.
27.2.45.	Halifax NR127 'X'. Target: Mainz.	P. J. 37121 P/O D.J. Stewart. And Crew.		1238	1918	Bombing Load. Same as 'B'. T: 1630.5 hrs. H: 17,600 ft. Heading: 095T. 165 m.p.h. 10/10 cloud, tops 40,000 ft. Three markers were visible and other aircraft were coming in on first two markers from starboard. The markers were in line and fairly close. Heavy cloud permitted no view of bombing results. Gaggle was good up to target.	See Appendix 24.
27.2.45.	Halifax NR938 'Y'. Target: Mainz.	P. J. 36430 P/O A.W. Colley. And Crew.		1239	1943	Bombing Load. Same as 'B'. T: 1630.2 hrs. H: 7,500 ft. Heading: 090T. 155 m.p.h. 10/10 cloud, tops 5,000 ft. Green sky markers first seen at 1629 hrs. No results of bombing seen due to cloud. Master Bomber instructions heard.	See Appendix 24.
27.2.45.	Halifax NR238 'Z'. Target: Mainz.	P. J. 33172 P/O S.W. Moores. And Crew.		1236	1942	Bombing Load. Same as 'B'. T: 1630.2 hrs. H: 17,500 ft. Heading: 090T. 160 m.p.h. 10/10 cloud, tops 7,000 ft. Green smoke puffs first seen at 1628 hrs. Three markers seen but no results of bombing observed because of cloud. Gaggle formation good, but leader was too starboard of target.	See Appendix 24.

A.W. Colley

(P. W. Ball) Wing Commander,
Officer Commanding,
No. 415 (R.C.A.F.) Squadron

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