

OPERATIONS RECORD BOOK

All exercised 1 x 4000 1b Hc.NI, 12, x No. 14 clusters,
DETAIL OF WORK CARRIED OUT TARGET - OBERGIAUSEN.

By No. 4.28 (R.G.A.Z.) Squadron.

Western and Target - 12 Target -

| DATE            | AIRCRAFT                 | CREW                   | Dury       | 1371    | Time | DETAILS OF SORTIE OR FLIGHT  |           |
|-----------------|--------------------------|------------------------|------------|---------|------|--|-----------|
|                 | Type & Number            |                        |            | Up      | Down |  | REFERENCE |
| lst<br>November | IANCASTER X<br>A. KB.791 | J.87364 F/O HUMBER,    | H.J Pilot  | 1654    | 2321 | Bombed the primary 6 to 7/10th cloud thin up to 10000 ft. at 2034.8 hours from 21000 ft. Bombed centre of fires since all flares had burned out. Too early to judge results al.  |           |
|                 |                          |                        |            |         | -    | though incendiaries catching well.   |           |
|                 | LANCASTER X<br>B. KB.764 | J.28735 F/O LINESAY,   | J.B Pilot  | 1630    | 2324 | Sambed the primary through 6-17/10th cloud, tops 10000 feet<br>at 2035.6 hours from 20500 feet. Rombed and flarum. The<br>target was well alight, one explosion seen to starboard at<br>2035.  |           |
|                 |                          |                        |            |         |      | 1099   |           |
|                 | LANCASTER X<br>C. KB.757 | J.85592 F/O Gaskin,    | .M Pilot   | 1650    | 2311 | Sambed the primary through 7/10th thin layer gloud 8000 fee at 2035.7 hours from 20000 feet, Sambed red flares. A goo concentration of fires and explosions seen in 7/A. Should  | [         |
|                 |                          |                        |            |         |      | be a successful attack.  |           |
|                 | LANCASTER X<br>P. KB.760 | J.22971 F/O Carter, A  | .J Pilot   | 1628    | 2318 | Bombed the primary through 3-5/10ths thin broken cloud tops<br>5000 feet, at 2035.6 hours from 20500 feet. Rombed concen-  |           |
| -               |                          |                        |            |         |      | tration of flares. Two good sized explosions and several enall fires seen in T/A. PFF was well concentrated.   |           |
|                 | LANCASTER X<br>E. KB.768 | R176219 F/S Reid, L.   | Pilot      | 1641    | 2343 | Bombed the primary through 5-6/10ths thin cloud tops 6000<br>feet at 2016.1 hours from 19500 feet. Sombed centre of  |           |
|                 |                          |                        |            |         |      | flares. Lots of fires in good concentration. As we left we could see large explosions in the T/A. Navigation lights had a short kept going in and out.   | •         |
|                 |                          |                        |            | - 504.8 |      | Million of the Control of the Contro |           |
|                 | ANCASTER X<br>KB.798     | J.26466 F/O Roulston   | K.C Pilot  | 1648    | 2300 | Bombed the primary through 5-8/10th cloud up to 8000 feet,<br>at 2035.5 hours from 19000 feet. Bombed centre of flares.  |           |
|                 |                          |                        |            |         |      | Fires well started intermittent explosions seen in a small concentrated ares. Should be an excellent attack, If  |           |
|                 | ANCASTER X               | J. 35264 F/O Mytruk, W | · '- Pilot | 1655°   | 2315 | Bombed the primary through thin low stratus tops 5/6000  |           |
| , I             | L. KB.782                |                        |            | -       |      | feet at 2034 hours from 21000 feet. Bombed centre of flares. A good concentration of fires some explosions seen in W/A. A good concentration attack.   |           |
|                 |                          |                        | · A. Gara  |         |      | 4  |           |
|                 | ANCASTER X<br>. KB.792   | J.23034 F/L Berry, D.  | Pilot      | 1651    | 2307 | Bombed primary through 6/10ths cloud tops 10/11000 feet,<br>at 2035al hours from 20500 feet. Bombed flares. Carpet   |           |
|                 |                          | * 5                    |            |         |      | of incendiaries seen in T/a. Should be a good effort.  Heavy iqing on way down in England.   |           |
|                 | ANCASTER X               | J.28726 F/O Dench, R.  | J Pilot    | 1644    | 2331 | Sombed primary through 4-5/10th broken cloud tops 5000 feet, at 2034.1 hours from 20000 feet. Booked flares. Could set   |           |
|                 |                          |                        |            |         | N    | city blocks burning through a break in cloud. Jettisconed safety, 10, 200 and 10, 200 feet.  | e         |

| 1. C. C. S.                             | AIRCRAFT                   | No. of the Land of | La contract of the last | 1 7  | TIME | A STATE OF THE STA |
|---|----------------------------|--|-------------------------|------|------|--|
| DATE                                    | Type & Number              | CREW   | Duty                    | UP   | Down | DETAILS OF SORTIE OR FLIGHT REPERENCE  |
| ist<br>ovember                          | LANCASTER X<br>r N. KB.771 | J.9436 F/L ELLSON,   | k.1 Pilot               | 1627 | 2330 | Bombed primary through //10ths thin broken tops /000 feet. at 2035.) hrs from 19000 ft. Bombed centre of sky markers. Well concentrated fires meaned barming with bright white colour, probable incendiary taking hold.  |
|   |                            |  |                         |      | -    | colour, processe intendier, tearing note.  |
| 1.7                                     | LANCASTER X<br>O. KB.766   | J.19887 F/L Huston, i  | s Pilot                 | 1657 | 2307 | Primary attacked through 7/10ths cloud with tops to 8000 ft<br>Bombed on centre of red flaved at 2054.9 hrs from 21000 ft<br>One large explosion in 7/4 at 2054, hrs. First continued streets<br>and were well concentrated. Should be a good attack.  |
|   | LANCASTER X<br>Q. KB.795   | J. 26634 F/O Peacock   | E.B Pilot               | 1632 | 2333 | reds at 2035 hours from 2000 feet. Many fires in built up  |
| *************************************** | LANCASTER X<br>S. KB:763   | J.88640 F/O Pearce, (  | G.W.A Pilot             | 1643 | 2258 | Bombed primary through a thin layer of cloud on red and green<br>flares at 2034 hours from 19500 feet. There were twodistinct<br>groups of PFP but a well concentrated glow of fires was seen<br>in cloud.   |
|   | LANCASTER X<br>U. KB.781   | J.12473 F/L Quinn. G.  | - Pilot                 | 1646 | 2301 | Primary at 2030.5 from 19000 ft. Thin cloud stat. tops 9000 ft.  Vis. good. Target ident, by red and yellow flares, Bombed centre of eace, feed and yellow flares well concentrated, incl.  green seen concentrated 10 mi. south of the target, Strings of inconditaries seen in 74, well commentated with a large area  |
|   | 0-25                       |  |                         |      |      | seen well alight on runout. Good attack.   |
|   | LANCASTER X<br>V. KB.777   | J.85940 F/O Koresky.   | J Pilot                 | 1629 | 2330 | Primary at 2055,5 hrs from 21000 ft. 7/10th thin closs, tops 4000 ft. Terpet ident, by red and green flares with fires. Green flares in B/s. Target just stafted to burn as we want in. On leaving it was really going in a concentrated area.   |
|   | LANCASTER X<br>W. KB.794   | J.35506 P/O Anderson.  | R Pilot                 | 1637 | 2310 | Primary at 2031 hrs from 20300 ft, 8 to 9/10th cloud, tops 8000 ft, Vis. good. Target ident, by red, yellow and green flares. Rembed contract of reds. Many flares. red well concentrated. Many incendiaries well concentrated. Several explosions smong incends. Wind change - arrived 5 min. early Frest-to-speak NT up.   |
|   | LANCASTER X<br>X. KB.747   | R168425 F/S Mackie, D  | .J Pilot                | 1639 |      | Primary at 205.8 hrs from 20000 ft. 3/10th cloud up to 8000 ft. Target ident. by red, yellow and green flares. Bombed centre of reds. Streets outlined by fires which were getting good hold. Attack should be good.   |
|   | IANCASTRR X<br>Y. KB.778   | J. 26026 P/O Poole, D.   | P Pilot                 | 1635 | 2345 | Primary at 2032 hrs from 19500 ft. 5/10th thin cloud up to 6000 ft. Target ident by red and yellow flares. Rembed centre of sme. Incendiaries just started but well concentrated. Should be a good attack.   |
|   | LANGASTER X<br>Z. KB.739   | J.16847 R/L Kagna, L.  | - Pilot                 | 1720 | 2334 | Primary at 2033.3 hrs from 19500 ft. 5-6/10ths thin cloud up to 9000 ft. Target ident, by red, yellow and green flares. Bombed centre of red flares. Fire patterns covered a good area and didn's miss a think. Attack should be good.   |

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## OPERATIONS RECORD BOOK All amourant carried: 1 x 4000 1b HC.NI, 14 x No. 14 clusters. DETAIL OF WORK CARRIED OUT TARGET - DUBBELLORP.



SECRET

By No. 428 (R.C.A.F.) Squadron. (\*12761-0511) WL 28890-1284 70W 8/43 T.S. 700 \*13700-0511) WL 44057-3384 150W 1/44 T.S. 700 FOR THE MONTH OF November 19 44.

| DATE           | AIRCRAFT                 | Carrw                 | Dury           |          | Time    |  | -           |
|----------------|--------------------------|-----------------------|----------------|----------|---------|--|-------------|
|                | Type & Number            |                       |                | Up       | Down    | DETAILS OF SORTE OR PLIGHT   | REFERENCE   |
| 2nd<br>ovember | LANCASTER X<br>A. KB.791 | J.21668 F/O Miller, H | .B Pilot       | 1618     | 2220    | filmary at 1950. / hrs from 21000 ft. Clear, no cloud. Targe ident. by red and green TI's. Bombed centre of concentration  |             |
|                |                          |                       | 16.            |          |         | of green W's and curve in river chowed up plainly. AP and south burning well. Good concentration of green TI's on AP.  |             |
|                | 3 - 1                    |                       |                |          |         | Very good prang.   |             |
|                | B. KB.764<br>LANGASTER X | J. 28735 F/O Lindsay, | J.B Pilot      | 1619     | 2222    | Primary at 1930 hrs from 20500 ft. 3 to 4/10ths patchy cloud tops 5000 ft. Target ident, visually and by red and green T.  | i'a         |
|                |                          |                       |                |          |         | Sombed concentration of red TI's, area well abaze, Numerous colours of the day first off from French to English coast. O \$100,1952 am. session 05008, 8000 th. Me Valum.  | ttackrel    |
|                | LANCASTER X<br>C. KB.757 | J.23034 F/L Berry, D. | E Pilot        | 1611     | 2221    | Primary at 1930.5 hrs from 20000 ft. Clear, vis. good. Target ident. by redand green markers. So bed centre of red TI's. clearly identified by bend in river on run up. Markers were   | /A<br>about |
|                |                          |                       |                |          | -       | 1 mi south of A/P but whole area extending 3 or 4 mi north   |             |
|                | ***                      |                       |                |          |         | and creeping south was a solid mass of flames. One large ex-<br>plosion in MA centre, 1930 hrs. amoke up to 6000 ft. Beng  |             |
|                | LANCASTER X<br>D. KB.770 | J.28726 F/O Dench, R. | J Pilot        | 1602     | 2234    | Primary at 1930.8 hrs from 19500 ft. Clear but hazy. Target ident, visually and by red and green markers. Bombed green   |             |
|                |                          |                       |                | 1        |         | III's. One large explosion on bank of river on the run up.<br>Whole area a carpet of flames. Excellent attack. Colour of<br>day shot off over Channel.   |             |
|                |                          | H176219 F/S Reid, L.M | Pilot          | 1559     | 2214    | Primary at 1929.8 hrs from 19000 ft. 4 to 5/10ths. Cloud to  | s           |
|                | Е. КВ.768                |                       | <u></u>        |          |         | 3/4000 ft. fis. good. Target ident, by red and green market and a visual. Bombed centre of red T1's, whole T/a a mass of fires with explosion of bombs in midst. T1's well concentrated the results of th |             |
|                |                          |                       | ,              |          |         | Good prang.  |             |
|                | ANGASTER X               | J.26466 F/O Roulston, | K.CPilot       | 1604     | 2202    | Primary at 1929.7 hrs from 18500 ft. Clear, vis. good. Targe   | ţ           |
|                | a, AD, / 70              | 14.74                 |                |          |         | ident, visually and by red and green markers. Bombed red TI Good fires burning in T/A. A large explosion in T/A as we re   | B .         |
|                |                          |                       | e de che parte |          |         | in. Seemed like a good attack - fighters seen as we left target - flak quite hot.  |             |
|                | ANCASTER X               | J.85593 F/O Holtze, J | - Pilot 22     | sorties, | 83 poin | ta, 125.15 hrs. This siroraft failed to return fronthe   |             |
| 1              | i. KB.782                |                       |                |          |         | operation. I twas airborne at 1616 hours.<br>Sgt Lupinsky, R. (R164675) 19 terges, Tipointo, 121.15 hrov.<br>R155128 Sgt Samuel, A.G. 21 " 78 " 121.45 "   | (Nav)       |
|                |                          |                       | - 450000       |          |         | P/O E. Crossley, 185784 21 78 121.45 R143010 W/O Ruhl, L.G. 21 78 121.45   | F/Eng.      |
|                |                          |                       |                |          |         | RL47377 Sgt Dorrell, A.G. 21 " 78 " 121.45 %   | MUG<br>R/G  |
|                | ANCASTER X               | J.16847 F/L Kagna, L. | - Pilot        | 1551     | 2242    | Frimary at 1930.5 hrs from 20500 ft. Weather clear and align<br>ground haze, Target ident visually. Bombed green TI's, who   | 0           |
| R              | Address of the Late      |                       |                |          | 100000  | target area burning well, several small fires and explosions   |             |
|                |                          |                       |                | 123      |         | 1  |             |
|                |                          |                       | 1              |          |         |  |             |

| DATE               | AIRCRAFT                 | CREW                                    | Dury         |         | TIME      |  |          |
|--------------------|--------------------------|---|--------------|---------|-----------|--|----------|
|                    | Туре & Number            |   |              | UP      | Down 2236 | DETAILS OF SORTIE OR FLIGHT  | REFERENC |
|                    | N. KB.771                | J.27557 F/O Pauli,                      | R Pilot      | 1557    | 2236      | Frimary at 1970.; hrs from 20500 ft. Slight haze. Target ident. visually and by TI's and flares, Bonbed centre of TI TI's wall.commentratedbhole.area around A/P a mass of fire  |          |
|                    |                          |   |              |         |           | with heavy smoke and bomb bursts in midst.   |          |
|                    | LANGASTER X              | J.9436 F/L Ellson,                      | M.I Pilot    | 1607    | 2212      | Primary at 1930.5 hrs from 19500 ft. Weather clear good vis.   |          |
|                    | P. KB.760                |   |              |         |           | Target ident, by TI's and fires, Bombed centre of TI's, Plen of Fires and amove seen in the TA. Bombe seen bursting in up area, PFF very good, Good attack,                      | ty ·     |
|                    | LANCASTER X              | J. 26634 F/O Peacock.                   | N D = 1942-4 | 1614    | 2230      |  |          |
|                    | Q. KB.795                |   | mana- 11101  | 1914    | 2230      | Primary at 1931.7 are from 19000 ft, Slight hase, Target identification of markers, TI's well concentrated. Target afea a mass of fires and much moke.                           | it.      |
|                    |                          |   |              | and the | 35000     | Good prang.  |          |
|                    | ANCASTER X<br>S. KB.763  | J.87551 F/O Walker,                     | H.W Pilot    | 1555    | 2216      | Primary at 1929 hrs from 18500 ft. Weather clear withsome haze. Target ident. by TI's and flares. Bombed TI. Few explo-  |          |
|                    |                          |   |              |         |           | sions in T/A. Could not assess due to haze and smoke.  |          |
|                    | LANCASTER X<br>V. KB.777 | J.85940 F/O Koresky.                    | J Pilot      | 1609    | 2252      | Primary at 1931.5 hrs from 18000 ft. Visibility excellent. Target ident, by TI's and flares. Bombed centre of TI's. Gity a solid mass of flames. Excellent attack.               |          |
| -                  |                          |   |              |         | 1000      | a solid mass bullianes. Nicelient attack.  |          |
|                    | LANCASTER X<br>X. KB.747 | R158425 F/S Mackie,                     | .J Pilot     | 1606    | 2201      | Primary at 1931.5 hrs from 21000 ft. Weather clear over target. Target iden, by TI's and flares, cambed centre of TI's Large mass of fires in built up area. FFF good. Saw durmy |          |
|                    | and the second           | C1. 1. 34. 13.35 14.                    |              |         |           | oil tank fire on way in.   |          |
|                    | LANCASTER X<br>Y. KB.778 | J.26026 F/O Poole, D.                   | F Pilot      | 1553    | 2236      | Primary at 1931 hrs from 20500 ft. No cloud. Target ideas.   |          |
|                    |                          |   |              |         |           | by TI's Sembed markers. Centre of target one big burning mass. Good concentration of bomb bursts seen. Fishpond u/s.   |          |
|                    | ANCASTER X               | J.89640 P/O Pearce, G                   | W P1784      | 1549    | 2218      |  |          |
|                    | Z. KB.739                | , |              | 1549    | 2210      | Primary at 1931.6 h   from 20000 ft. Slight haze, otherwise clear. Visibility good. Target ident. by TI's and flares Bombed centre of TI's. Many explosions amongst fires seen   |          |
|                    |                          |   |              |         |           | in T/A. Successful attack.   |          |
|                    | ANCASTER X<br>KB.725     | J:35264 F/O Mytruk, W                   | . '- Pilot   | 1708    | 2251      | Abortive NOET. Took off 11 mins after latest time of take  |          |
|                    |                          |   |              |         |           | 51 19N 04466 1927 hrs 19000 ft and returned to base. Brought   |          |
|                    |                          |   |              | -       |           |  |          |
|                    |                          |   |              |         |           |  |          |
| CATALON CONTRACTOR |                          |   |              | 1       |           |  |          |

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# OPERATIONS RECORD BOOK All serorest carried: 1 x 4000 lb H.C. NI., 14 x No. 14 clusters. DETAIL OF WORK CARRIED OUT TARGET - BOOKEM

APPENDIX A. 222



By No. 428 (R.C.A.F.) Squadron.

|   | AIRCRAFT                   | T   | T  |            | TIME | lovember 19/44a.   |   |
|---|----------------------------|---|--|------------|------|--|---|
| DATE                                    | Type & Number              | the fall the case the case of | DUTY                                     | UP         | Down |  | REFERENCES                              |
| 4th<br>November                         | LANCASTER X<br>r A. KB.791 | J. 21668 F/O MILLER, B  | B Pilot                                  | 1654       | 2336 | Bombed primary through no cloud on centre of red and green flares at 1944.5 hrs from 1850 ft. Markers well concen-   |   |
|   |                            |   | 1  |            |      | trated. One large fire seen with considerable smoke., in<br>the target area. Very good attack.   |   |
|   |                            |   |  |            |      | reaction and the second second   | 4 2                                     |
|   | LANCASTER X<br>C. KB.757   | J.28735 F/O Lindsay,  | J.B. Pilot                               | 1720       | 2328 | Bombed primary through no cloud on centre of TI's at 1944 hr<br>from 18000 ft. Markers well concentrated. Target a solid   | · .                                     |
|   |                            |   |  |            | 18.6 | mass of fire. Two large explosions seen . No troubles,   |   |
|   | LANCASTER X                |   |  |            | -    |  | 1                                       |
|   | D. KB.770                  | J.85592 F/O Gaskin, V   | /.M Pilot                                | 1657       | 2259 | Bonbed primary in clear weather on centre of TI's at 1944.4. hours from 17500 ft. Excellent attack. Bonb bursts on and   |   |
|   |                            |   |  | 4.         |      | around TI's which were well concentrated.  |   |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                            |   |  |            |      |  | (                                       |
|   | LANCASTER X<br>E. KB.768   | J.915 F/L Shewfelt,   | H.A Pilot                                | 1715       | 2305 | Bombed primary through no cloud on TI's on ground at 1944.20 from 17000 ft. Good prang well concentrated. Good blaze of  |   |
|   |                            |   |  | - 100      |      | fires in T/A. First night fighter flares seen about the<br>German border and continued to Aschen.  |   |
|   | 1                          |   | 1  |            |      |  |   |
|   | LANCASTER X                | J. 26466 F/O Roulston,  | K.C Pilot                                | 1710       | 2327 |  |   |
|   | G. KB.798                  |   |  | 100000     |      | from 16500 ft. PFF good. One large explosion in SW corner of target, Good attack,  |   |
|   | <u> </u>                   |   |  | 2          | 1    |  |   |
|   | LANCASTER X                | J. 23034 F/L Berry, D.  | E Pilot                                  | 1713       | 2240 | Bombed primary in clear weather, some ground haze, on red  |   |
|   | I. KB.792                  |   |  |            |      | TI at 1942.7 hrs from 18500 ft. PFF concentrated. Numerous fires and smoke seen in T/A.  |   |
|   |                            | 1   |  | A STATE OF | 1000 | CA Same Control of the Control of th |   |
|   | LANCASTER X<br>L. XB.725   | J:28726 F/O Dench, R.J  | J Pilot                                  | 1702       |      | Borbed primary in clear weather on centre of TI's at 1944.5<br>hours from 18000 ft. Sho ld be a good prang. Intermittent   |   |
|   | 4                          |   | Property and                             |            | 1    | explosions threw up a lot of smoke in the T/A.   |   |
|   |                            | Access to company   | - C. |            |      |  |   |
|   | Lancaster X                | J.27957 F/O Pauli, C.R  | R Pilot                                  | 1712       | 2331 | Bombed primary through no cloud, some smoke and haze on contra of II's at 1944, hra, from 18000 ft. Fires burning  |   |
|   |                            |   |  |            |      | well in T/A., one column of black smoke from an explosion.  Jettisoned one cluster (hous up) cafe at 212 hrs. 51468  | *************************************** |
|   | Sec. 2000 1 1 1 1 1        | 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |  |            |      | 0230E at 9000 ft.  |   |
|   | Andrew J                   | A   | And the second                           |            |      |  | Aller                                   |
|   |                            | J. 35264 F/O Mytruk, W.   | - Pilot                                  | 1706       |      | Frimary through no cloud, some smoke and haze, on concentrations of TI's at 1944.6 hrs from 17500 ft. Good con-  |   |
| 1                                       | N. KB. 771                 | A contract of the contract of   |  | 100        | 1    | centration of markers. Whole area in flames. Large explo-  |   |

|      |                           | To a series of second  | and the second second | 10000 | Time    | DETAILS OF SORTIE OR FLIGHT  | REFERENCES     |
|------|---------------------------|--|-----------------------|-------|---------|--|----------------|
| DATE | AIRCRAFT<br>Type & Number | CREW   | DUTY                  | Up    | Down    |  |                |
|      | ANCASTER X<br>O. KB.766   | J.19887 F/L Huston, S  | - Pilot               | 1708  | 2226    | Bombed primary through 2/10th cloud tops 5/5000 feet on cent<br>of Tl's at 1:45,8 hours from 17000 feet. Markers well con-<br>bentwated. Large fries burning over a large area with lots |                |
|      |                           |  |                       |       |         | oemtrated. Large fires burning over a large area and notes of smoke rising from the T/A. Several explosions of smoke rising from the T/A. Several explosions.                            |                |
|      |                           |  |                       |       | 41. 31. |  | C 40           |
|      | LANCASTER X<br>P. KB.760  | J.16847 F/L Kagna, L.  | - Pilot               | 1651  | 2312    | Bombed primary through no cloud, on centre of TI's at 1944 hours from 16500 feet. Large explosion and some fires in  |                |
|      |                           |  |                       |       | the T/  | /A. PFF well concentrated. Attack should be good.  |                |
|      | LANCASTER X               | C. 27109 F/O Laturner;   | R Pilot               | 1653  | 2307    | Bombed primary in clear weather, on red TI at 1943.8 hours from 18500 ft. Saveral large firms in T/A. PFF concen-  |                |
|      | Ma                        |  |                       |       |         | trated. Very good attack.  |                |
|      | LANCASTER X<br>S. KB.763  | J.87551 F/O Walker, H  | .W Pilot              | 1652  | 2256    | Bombed grimary through 7/10ths cloud, alight haze, on centre of Ti's on ground at 1966; hrs from 17500 th. Ti's well   | •              |
|      | Sa                        |  |                       |       |         | concentrated. T/A a mass of fires. Bomb bursts in fires. Considerable space. Cond show a standard by Mar. 163 5048 9200 ft claim shift conducts.   | W. 04.10E , 40 |
|      | LANCASTER X<br>V. KB.777  | J.26026 F/O Poole, D.  | F Pilot               | 1704  | 2247    | Bombed primary through no cloud, some smoke and haze, on   |                |
|      |                           |  |                       |       |         | target area. Lots of black smoke. Marking good.  |                |
|      | LANCASTER X               | J.9456 F/L Ellson, K   | .i Pilot              | 1650  | 2235    | 1944 8 hours from 18500 feets T/A well ablezes Numerous  |                |
|      | 1000                      | No. 2, 152(4) 2 - 2 )  |                       | -     |         | small fires. PFF well concentrated.  | -              |
|      | LANCASTER X               | J.87368 F/O Moel, N.A  | Pilot                 | 1700  | 2323    | Bombed primary in clear weather on II's at 1945 hours from 18000 ft. II's well concentrated in first. Shole target   |                |
|      |                           |  |                       |       |         | a mass of flames. Bomb bursts in area.   | -              |
|      | * .                       |  |                       |       |         |  |                |
| <    |                           |  |                       |       |         |  |                |
|      |                           |  |                       |       |         |  |                |
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## OPERATIONS RECORD BOOK

APPENDER A. 223.



DETAIL OF WORK CARRIED OUT

By No. 428 (R.C.A.F.) Squadron.

SECRET

PAGE No...7

| DATE           | AIRCRAFT                                  | CREW  | Dury              | T                         | TIMOE                   | 4   |         |
|----------------|---|---|-------------------|---------------------------|-------------------------|---|---------|
|                | Type & Number                             |   | Don               | UP<br>BOMB                | Down                    | DETAILS OF SORTIE OR FLIGHT   | REFEREN |
| /a A.S.        | E. carried: lxAO                          | 0 lb HG/NI, 2x1000 J                        | AN.M. 59 TD. 025. | /×1000                    | LOAD.                   | 0,025, 6x500 lb MC, TD,025,   |         |
| G. C           | 1,0,4, w, 1,: 1x400<br>barried: 1x4000 b1 | 00 16 HC/NI, 6x1000 11                      | MC TD.025, 6x50   | D 1b MC.                  | D.025.                  | 0 -500 VP NO MP 005 1 -500 V - 500 V  |         |
| /O P,          | 1 1x4000 1b                               | HC/NI, 1x1000 1b AN.                        | M.59 TD.025, 5 x1 | 000 15 A                  | TD. 025,                | 0.025, 4 x 1000 MG 1D.025, 6 x 500 1b MG 025  |         |
| /C V,          | " : 1x4000 16                             | HC/NI, 6x1000 15 MC<br>HC/NI, 4x1000 15 AN. | TTD 025 28500 TE  | . All. A. And J. A. A. A. | PE TYEN                 | V TS TD WIN NOS   |         |
| 6th<br>ovember | LANCASTER X<br>A. KB.791                  | J. 21668 F/O Miller, 1                      | B.B Pilot         | 1131                      | 1718                    | Primary at 1811.2 hrs from 21000 ft. 8-10/10th cloud tops<br>14000 ft. Ident. and bombed visually on built-up area in   |         |
|                |   |   |                   |                           |                         | triengle North of MV SSW of the MP as per the MB. All the Ac seen were in good concentration but too much cloud   |         |
|                |   |   |                   |                           |                         | to really assess the results.   |         |
|                | C. KB.757<br>LANCASTER X                  | J.16847 F/L Kagna, L.                       | - Pilot           | 1148                      |                         | Primary at 1413.1 hrs from 20000 ft. //10th cloud tops 1000 with breaks. M/B ordered "secondhand" so bombed built up  |         |
|                | * AND A DESCRIPTION OF                    |   |                   |                           |                         | wrea on Gee. Attack was widely spread - some good fires see   | :n.     |
|                | LANCASTER X<br>E. KB,768                  | J.915 P/L Shewfelt,                         | H.A Pilot         | 1136                      | WIND THE REAL PROPERTY. | Primary at 1413.5 hrafrom 19500 ft. 9/10th cloud tops 8500 feet. Vis. good. Idnt. and bombed on Gee fix on built-up   |         |
|                |   |   |                   |                           | 1000                    | are visible through cloud. No. II's visible scattered<br>fires bomb bursts well concentrated in fires and smoke but<br>impression is of a scattered attack over a large ares.     |         |
|                | LANCASTER X                               | J.26466 F/O Roulston,                       | K.C Pilot         | 1135                      | 1641                    | Primary at 1413 hrs from 18500 ft. 7/108hs cloud tons 8000 f  | Æ.      |
|                | G. KB.798                                 | 100000000000000000000000000000000000000     | · Santa           |                           | A                       | Ident and bombed visually on a factory. Canal, river and railway also seen through break in cloud. M/R gave record-   |         |
|                | LANCASTER X                               | J. 28726 F/O Dench, R.                      | gy and a          | 1120                      |                         | hand which of course resulted in scattered bombing.   |         |
|                | La KB.725                                 | .20/20 F/O 2010H, A.                        | o Filot           | 1140                      |                         | Primary at 1113.5 hre from 20500 ft. 8/10000 ft. tops 10000 feet. Ident by Gee and time check. Dombed centre of fires MB not heard, no markers wisible. Feitly large area of fire |         |
|                |   |   |                   |                           |                         | and smake seen through break in cloud in a built-up area.  Bomber stream somewhat scattered - appeared to be stid of tr   |         |
|                | LANCASTER X J                             | J.85592 P/O Gaskin, V.                      | .M Pilot          | 1133                      | 1659                    | Primary at 1413.5 hrs from 20000 ft. 5=6/70th cloud tons 1000   |         |
|                | J. KB./66                                 |   | •                 |                           |                         | ft. Ident by Gee - bended centre of built-up area having heard w/m give. "secondhadm". No Ti's seen at all - attack very scattered - no results seen.                             | 1       |
|                | LANCASTER X J                             | J.28735 F/O Lindsay,                        | J.B Pilot         | 1200                      |                         | Primary at 1415 hrs from 20500 ft. 5/10th patchy cloud tops   |         |
| I              | P. KB.760 .                               |   |                   |                           |                         | 6/10000 ft. Ident by built-up area and Gee fix. Bombed smoke<br>in built-up area on last resort order from W/8. An isolated   | i.      |
|                |   |   |                   |                           | 1                       | factory about 5-6 miles North of Gelsenkirchen and 3 miles to part of track seen hit by fourloads of bombs within one   |         |
|                |   |   |                   |                           | 855635                  | minute - many explosions and much smoke. Results of attack di   | fficult |

|                 | AIRCRAFT                 | 1 ~-                    | Charles and  |       |            | Page 8.  |
|-----------------|--------------------------|-------------------------|--------------|-------|------------|--|
| DATE            | TYPE & NUMBER            | CREW                    | Duty         | Up    | Down       | DETAILS OF SORTIE OR FLIGHT REFERENCE  |
| 6th<br>lovember | LANCASTER X<br>Q. KB.795 | 0.26634 F/O Peacock,    | E.B Pilot    | 1144  | 1658       | Frimary at 1,13.3 hrs from 19000 ft. 7/10 cloud tops 8-10000ft. Ident by Gee and AFI honling, and released bombs on same. Target overed-by smoke - domly result seen was a considerable quartity |
|                 |                          |                         |              |       |            | of amoke seen coming up out of the cloud tops.   |
|                 | LANCASTER X              | 7.87551 F/O WALKER, H   | W Pilot      | 1137  | 1656       | Primary at 1410.3 hrs from 19500 ft. 10/10th broken cloud tops   |
|                 | s. KB.763                |                         |              |       |            | 10000 ft, Ident, and bombed on built-up area seen through break<br>in cloud, on "Secondhand" instructions from WB, Could see fires   |
|                 |                          | <u> </u>                |              |       |            | through breaks in clouds - very scattered attack but should achieve objective:   |
|                 | LANCASTER X              | C.27109 F/O Laturner.   | R Pilot      | 1127  | 1716       | Primary at 1412.6 hrs from 21000 Ft. 8-9/10 cloud tops 10000 Ft.   |
|                 | U. KB.781                |                         |              |       | 1.5        | Ident and bombed on smoke from bomb bursts and Gee. 7/A seemed to be getting most of the attack but several atticks seemed to successfully set the factory at Dettein.                           |
| <del></del>     |                          | L                       |              | 1     | 1          | 2 WASSERSHIP SAFERS OF THE SAFE SAFE SAFE SAFE SAFE SAFE SAFE SAF  |
|                 | V. KB.777                | J. 85940 E/O Koresky,   | O Pilot      | 1142  | 1732       | Primary at 1413.8 hrs from 20500 ft 10/10th broken cloud tops<br>9000 ft. Ident and bombed visually on MY's. Cloud obscuring   |
|                 |                          |                         |              |       |            | target - 1/3 ordered "secondhend" so we decided to bomb 1/4 at 5131. 300 0709308 - indications of more bombing in that are a.  Marshalling yard really hit. Dancaged good course for flat        |
|                 | LANCASTER X              | J.9436 F/L Elison, K.   | I Pilot      | 1125  | 1720       | Primary at 1414 hrs from 20000 ft. 10/10th broken cloud tops   |
|                 | W. KB.794                |                         |              |       | -          | 7/8000 ft. Ident and bombed visually on a factory, Cloud over T/A.   |
| Aller and       | LANCASTER X<br>X. KB.747 | R168425 F/S Mackie, D   | J Pilot      | 1149  | 1719       | Primary at 1412.7 hrs from 19500 ft. 5-7/10 cloud tops 10000 ft. some haze. Iddnt, by red TI's and Gee fix. Bombed red TI's.   |
|                 | MaDa.141                 |                         | 428          |       |            | the gave "second hand" but we bombed the markers around the built- to area. No results seen - some fires seen after we left the  |
|                 | W                        |                         | The Property | 11/15 | 12,4480    | area. Attack appeared scattered fighter cover very good.   |
|                 | LANCASTER X              | J.7476 F/L Lamont, D.   | W Bilot      | 1274  | 1700       | Frimary at 1412.5 hrs from 20500 ft. 7/10th sloud tops 10000 ft.   |
|                 | KB.732<br>(419 Sqdn s/c) |                         | -1-4-5-41    |       | La terrale | Ident by the river Rhine k/R's and burning built-up area, Sombed<br>on the latter. Large oil explosion at 1414 near Recklinghausen.  |
|                 | 30.00                    |                         |              |       |            | Bombing appeared scattered.  |
|                 | TANCASTER X              | 0.35264 F/O Mytruk, W.  | - Pilot      | 114.6 | 1707       | Primary at 1413 hrs from 19000 ft. 7/10 cloud tops 9/10000 ft.   |
|                 | Y. KB.778                | 0.33204 F/O My truk, "  | - F110t      | 1140  | TIOE       | in bomb sight. No TI's seen, Attack very scattered - could   |
| <u> </u>        |                          |                         | <u> </u>     |       |            | see fires and explosions and much smoke in area we bombed.   |
|                 | LANCASTER X              | J. 87368 F/O Noel, N.A. | - Pilot      | 1125  | 1725       | Primary at 1412 hrs from 21000 ft. 7/10th cloud tops 10000 ft.   |
|                 | Z. KB.739                |                         |              |       |            | tdent, on Gee and built-up area. M/B directed to homb "second-   |
| 7               |                          |                         |              |       |            | - lot of coattered banking.  |

MAN POLITICE IN

APPENDIX A. 224



A/C & B, K, Q, S, U, N, W, carried: 1x4,000 lb HG, N. Inst, 6x1000 lb AMM, 59 TD, 025, 6x500 lb MC TD, 025.

A/C B, C, G, I, L, X, Y, carried: 1x4,000 lb HG, N. Inst, 6x1000 lb DETAIL OF WORK CARRIED OUT

NO. TD, 625. 6x500 lb MC TD.

By No. 428. (R, G, A, P, ) Squarters

NO. TARGET — JULION

NO. TARGE

| DATE .           | AIRCRAFT                  | Caxew                 | Dury         | 1    | IME  | DETAILS OF SORTIE OR PLIGHT   | REFERENCE     |
|------------------|---------------------------|-----------------------|--------------|------|------|---|---------------|
| DATE -           | Type & Number             |                       |              | UP   | Down |   | KEPERENG      |
| 16th<br>Iowember | LANCASTER X<br>A. KB.79   | J.87364 F/O Humber,   | .J Pilot     | 1243 | 1752 | Primary in clear weather at 1558.6 hrs from 16500 ft. Target<br>ident; by TI's river and smoke. Bombed centre of smoke from<br>identified built up area. Excellent concentration of bombing   | <del>5.</del> |
|                  | LANCASTER X<br>B. KB.764  | J.89640 P/O Rearce,   | W Pilot      | 1245 | 1826 | Primary in clear weather, some ground hage, at 1538.8 hrs. from 13000 ft. Target ident, by TI's and visually. Bombed explosions and flashes from exploding cookies. T/4 mull covered with smoke. Good prang.                            |               |
|                  | LANCASTER X<br>C. KB.757  | C.27109 F/O LaTurner  | R Pilot      | 1234 | 1821 | Primary in clear weather over target some ground haze at 155 hrs from 17000 ft. Target ident, by TI's, Bombed TI's and fires. One large explosion seen in T/A, Well pranged.  |               |
|                  | LANCASTER X<br>E. KB.768  | J.85592 F/O Gaskin,   | /.M. = Rilet | 1236 | 1810 | Primary in alear weather at 15/2.5 hrs from 17000 ft. Bombes centre of smoke, which was in centre of built up ares. Fairly well concentrated attack. T/A filled with intermittent explosions. No PFF visible.                           |               |
|                  | LANCASTER X<br>G. KB.798  | J.26466 F/O Roulston  | K.C Pilot    | 1241 | 1751 | Frimary in clear weather at 1557.8 hrs from 15500 ft. Target ident. risually. Rombed built up area and fires. Very concentrated attack, at least 12, 4000 lb bombs exploding in the built up area.                                      |               |
|                  | LANGASTER X<br>L. KB.792  | J.23034 F/L Berry, D. | E Pilot      | 1226 | 1833 | Abortive over enemy territory. Noderate ground hase, no cloud visibility most. Whole T/A blanketed in grayish brown smoke 8-10000 ft. A few bursts well concentrated in mancke. Bull load brought back. Mechanical failure over target. |               |
|                  | LANCASTER X<br>Ka. KB.784 | J.21668 F/O Miller,   | B.B Pilot    | 1249 | 1817 | Erimary in clear weather at 15;8.6 hrs from 15500 ft. Target ident, visually. Bombed centre of tows. Many fires and explosions seen in T/A. Concentrated bombing.   |               |
|                  | LANCASTER X<br>L. KB.725  | J.28726 ₹/0 Dench, R  | .J Pilot     | 1230 | 1816 | Primary, no cloud but moderate hase at 1539 hrs from 15500 ft. Target ident by TI's. Bombed centre of smoke. Bomb bursts well concentrated in smoke.  |               |
|                  |                           | •                     | - 2,5        |      |      |   |               |

| 1000           | AIRCRAFT                 | CREW                                     | Dury   | 1     | IME    | DETAILS OF SORTIE OR FLIGHT  | REFERENCE |
|----------------|--------------------------|--|--|-------|--------|--|-----------|
| ATE            | Type & Number            |  |  | UP    | Down   | · ISM WIN 1709 IT  | No.       |
| 6th<br>obember | LANCASINE X<br>N. KB.771 | J.85940 F/O Koresky,                     | J Pilot  | 1250  | 1738   | Primary in 10/10th cloud. Target ident, visually. A great deal; of mode in T/A. Bombing well concentrated. Jettisoned 1x1000 1b ANN 59 1D.025 (Safe- at 1622 hrs from 6000 ft. |           |
|                |                          |  | The state of the s |       | 1      | 514,51 0305E. Attack appeared satisfactory.  | - 40.00   |
|                | Q. KD.795                | J.26634 F/O Pesacok,                     | s.s Pilot  | 1232  | 1805   | Frimary inclear weather at 1556 hrs from 16500 ft. Target<br>ident, visually. Good concentration of bombe burnting in<br>1/h. Lots of smoke. Good atteck.                      |           |
|                | LANCASTER X<br>E. 13.763 | J.87551 P/O WALLEST, 1                   | L Pilot  | 1224  | 1756   | Frimary in clear weather a. 1540 hrs from 15000 ft. farget ident, by r iver and woods, Boabed visually on fixes and  |           |
|                | 3.76)                    |  | 17934  | 10.78 |        | moir. Good preng welloomsentreted, free well plastored.  |           |
|                | LANGASTER X              | J. 27557 P/O PAULY, G.                   | R Pilot  | 1239  | 1819   | Primary in clear weather at 1537.9 hrs from 15000 ft. Carget   |           |
|                | U. 13.781                | - 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  |       |        | identified by river and roads. Bended sacks in built up area. Attack seemed well concentrated, Large explosions seen in T/A.   |           |
|                | LANGASTER X              | J.25985 S/L Gomyou, G                    | Pilot  | 1322  | 1749   | Primary with alight hase at 1557,8 hrs from 15000 ft. Target<br>identified visually. Explosions seen in T/A and billowing  |           |
|                | - 17814874 ·             |  |  |       |        | brown smoke. Burbing well oursentrated.  |           |
|                | L KB.747                 | R168425 P/S Mackin, D                    | . J Pilet  | 1247  | 1753   | Primary in clear weather, at 15765 hre from 16300 ft.<br>Parget adent, visually. Sood concentration of home bursts<br>seen in VA. Bombed smoke.                                | eran gi   |
|                |                          | •  |  | 177   | - 1960 | neen in 17A. Bombed mooks.   |           |
|                | LANCASTER X<br>L. KB.778 | J.26026 F/O Peole, D.                    | P Pilet  | 1228  | 1800   | remary in clear meather at 1555.7 hrs from 16000 ft. Target ident, visually. Splended concentration of bomb bursts. One small fiel hole in port elevator.                      |           |
| 1000 A         |                          | PAWE WAS TO BE                           |  |       |        |  |           |
|                |                          | 162-161-2                                | <b>C</b>   |       |        |  |           |
| 01 T           |                          | • 100                                    | •••  |       |        |  |           |
|                |                          |  |  |       |        |  |           |
|                |                          | IN NO.                                   | 111  | 1000  | 144    |  |           |

Why bounded

### OPERATIONS RECORD BOOK

APPENDIX A. 225



A/C S, C, E, L, P, S, U, V, W, Z, carried: 1x4,000 1b HC, HI. I. Amanol., 16x500 1b HC, D 05
A/C G, I, M, Y, carried: 1x4,000 1b HC, HI. Trintol, 16x500 1b HC, THOUGH WORK CARRIED OUT
A/C N, carried: 1x4,000 1b HC, HI. Trintol, 16x500 1b HC TD, By Ho. 128 (8:9.4.7.) Squadron.
1x500 1b GP TD, 025

The state of the st

SECRET

PAGE No. 11.

| DATE                                    | AIRCRAFT                 | Carrow                                       | Dury           |                        | Тими            | DETAILS OF SORTIE OR PLIGHT  | _ A UV    |
|---|--------------------------|--|----------------|------------------------|-----------------|--|-----------|
|   | Type & Number            |  | 1              | UP                     | Down            | DETAILS OF SORTIE OR FLIGHT  | REFERENCE |
| 18th<br>November                        | IANGASTER X              | J.87364 F/O Humber,                          | H.J Pilot      | 1159                   | 1747            | Frimary through 10/10th cloud up to 10000 ft. at 1501.9 hrs<br>from 18000 ft. Bombed centre of red markers. Impossible to<br>Judge stack.  |           |
|   |                          |  |                |                        |                 | Judge Street.  |           |
|   | LANCASTER X<br>C. KB.757 | J.28735 F/O Lindsay                          | J.B Pilot      | 1215                   | 1830            | Primary through 10/10ths cloud at 1502.5 hrs from 17500 ft.  |           |
| *************************************** | G. KB. 151               |  |                |                        | COUSTO          | N Target ident, by flares. Bombed flares. PFF scattered.   |           |
| ••••••                                  | LANCASTER X              | J. 88215 F/O Tynan,                          | W.W Pilot      | 1156                   | 1756            | Primary through 10/10th cloud at 1501.7 hrs from 17000 ft.   |           |
|   | E. KB.768                |  |                |                        |                 | Target ident, by markers, Bombed centre of Flares, Marking, scattered.   | 2/        |
|   | LANCASTER X              | 7 00 77 970 5                                |                |                        |                 |  | 13:       |
|   | G. KB.798                | J.26466 F/O Roulston                         | K.C Pilot      | 1201                   | 1758            | Primary through 10/10th cloud tops 8000 ft. at 1501.6 hrs fr<br>16000 ft. Target ident, by ref flares, Bombed flares, Warkt  | om<br>ng  |
|   |                          | <u> </u>                                     |                |                        | -               | scattered.   |           |
|   | LANCASTER X              | J.85592 F/O Gaskin,                          | V.M Pilot      | 1217                   | 1830            | Primary through 10/10th cloud tops 10000 ft. at 1501.8 hrs   |           |
|   | I103.792                 |  |                |                        | (OUSTÓN)        | from 17000 ft. Target ident, by flares, Bombed flares, Markers were 2 mi. short. Too much cloud to see result.   |           |
|   |                          | 1  |                | -2010                  | 1 2 2 2         |  |           |
| Marie Service                           | LANCASTER X<br>L. KB.725 | C.27109 F/O LaTurner                         | R Pilot        | 1214                   | 1834            | Primary through 10/10th cloud tops 7/8000 ft.at 1502 hrs from  | n         |
|   |                          |  |                |                        |                 | 18000 ft. Target ident. by flares. Bombed flares, marking scatttered 18 not heard. Sure West Communication   |           |
|   | LANCASTER X              | J.21668 P/O Miller,                          | B B - P410+    | 1157                   | 1027            | Primary through 10/10th cloud tops 8/10000 ft at 1502.6 hrs  |           |
|   | м. кв.742                | 7,72300 7,7 222201,                          | - 12100        | 1157                   | (OUSTON)        | from 16500 ft. Target ident, by flares. Bombed flares.   |           |
|   | 1 3 6 6                  | · Control of the control                     |                | 1102                   | 33.0            | Mark is two mi. short of target. Port generator u/s. Too   |           |
|   | LANCASTER X              | J.26767 F/L Edmondso                         | n, W.R Pilot   | 1218                   | 1746            |  |           |
|   | N. KB.771                |  |                |                        |                 | Target ident, by flares, Rombed centre of flares, Heavy, flak holes at 5136N 0617E at 1445 hours.  |           |
|   | - x 5                    |  |                | 757                    |                 |  | - M- P    |
|   | LANCASTER X<br>P. KB.760 | J. 22971 F/O Carter,                         | .J Pilot       | 1209                   | 1841            | Primary through 10/10th cloud at 1501.8 hrs from 16500 ft.  Target ident by scattered flares, Bombed flares, Attack  |           |
|   |                          |  | - 1            |                        |                 | appeared scattered, Direct to Custow.  | L         |
|   |                          | 27-434 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |                |                        | 7               | AND CONTRACTOR OF THE CONTRACT |           |
|   | A-10-                    |  | Salah di Salah | 100                    |                 | Control of the contro |           |
|   |                          |  | ,              | Mary                   |                 |  |           |
| Man (Sec.                               | DECEMBER OF STREET       |  |                | No. of the last of the | 1 Carried Sept. |  |           |

| DATE             | AIRCRAFT                 | CREW                  | aries | 4.762.2364297 | A 100 200      | Truck           | Page 12.  |            |
|------------------|--------------------------|-----------------------|-------|---------------|----------------|-----------------|---|------------|
| DAIR             | Type & Number            |                       | 100   | DUTY          | Up             | Down            | DETAILS OF SORTIE OR FLIGHT   | REFERENC   |
| 18th<br>Tovember | LANCASTER X<br>S. KB.763 | J.87551 F/O Walker,   | H.W.  | - Pilot       | 1205           | 1844<br>(OUSTON | Primary through 10/10th clove tone 9000 ft. Target ident, by markers. Benbed flares, Marking scattered, Jettiscaed 12500 10 Mol. Th. 225 (Sare) at 5200 0725 at 1509 nours. Looked like a scattered attack. |            |
|                  |                          |                       | -     |               |                |                 | Looked like a scattered attack, Durated to Sout   | <b>š</b> u |
|                  | LANCASTER X              | J.27557 P/O Pauli, G  | R.    | - Pilot       | 1211           | 1816            | Primary through 10/10th cloud tops 10000 ft at 1502,5 hrs. 18000 ft. Target ident, by flares, Sumbed flares, Attack   |            |
|                  |                          |                       | -     | - 43000       | - The state of |                 | not very concentrated. Marking scattered.   |            |
|                  | LANCASTER X<br>V. KB.777 | J.89640 F/O Pearce, G | G.W.  | - Pilot       | 1203           | 1748            |   |            |
|                  |                          |                       |       |               | 4/4/200        |                 | from 17500 ft. Target ident, by flares, Bombed centre of flares. Sky marking very scattered.  |            |
|                  | LANCASTER X              | C.1256 W/C Hull,      |       | - Pilot       | 1155           | 1849            | Primary through 10/10th cloud tops 8/10000 ft at 1508,9 hrs   |            |
|                  | W. KB.794                |                       |       |               |                | (OUSTON)        | from 16100 ft. Target ident by flares. Bombed centra of flares. Markers scattered. Limited to Suitan  |            |
| 1                | LANCASTER X              | J.26634 F/O Peacock,  | W W.  | Pilat         | 1207           |                 | 74  |            |
|                  | Y. KB.778                | 0.200)4 7/0 200002,   | B.D.  | - FITO:       | 120/           | (OUSTON)        | Primary through 10/10th cloud tops 8/10000 ft. Target ident.<br>by flares. Bombed centure of flares. If markers were on<br>attack should be good. Duration to Surface                                       |            |
|                  | LANCASTER X              |                       |       |               | 100000         |                 |   |            |
| 1                | Z. KB. 771               | F/S Mackie, R168425,  | D.J.  | - Pilot       | 1216           |                 | Frimary through 10/10th cloud tops 10000 ft at 1502.8 hrs<br>from 16500 ft. Target ident, by flares, Bombed centre of   |            |
| 1                |                          |                       |       |               |                |                 | flares. Gould not see much owing to cloud.  |            |
| 1                | Man and a second         |                       |       |               |                |                 |   |            |
|                  | A Maria                  |                       |       |               |                |                 |   |            |
|                  | À                        |                       |       |               |                |                 |   |            |
|                  | V                        |                       |       | 1             |                |                 |   |            |
|                  |                          |                       |       |               |                |                 |   |            |
|                  |                          | * 1 ag                |       |               |                |                 |   |            |
|                  |                          | Carlo Carlo Carlo     | 100   | Tables 157    |                |                 |   |            |

WHM.ORIDER



OPERATIONS RECORD BOOK

A/C A<sub>3</sub>B, D, E, G, J, O, QU, V, X, C, L, N, F, S, W, carried: 2x500 1b GP 1D, 18x500 1b MC 1D, 025.

A/C K, carried: 2x500 1b GP 1D, 10x500 1b MC 1D, 025, 9x500 GP 10x 045, 045 OF WORK CARRIED OUT

A/C I, ": 2x500 1b GP 1D, 0x500 1b MC 1D, 025, 0x500 MC 1D GP 1D, 025,

A/C Z, ": 20x500 1b MC 1D, 025.

TARGET: BY NO. A 2B (R.G.A.F.) Squadron.

CASTROP-RAIXELY.

Ena. The control of the

| DATE              | AIRCRAPT<br>Type & Number | Casew  | Dury              | Time |  |   |   |
|-------------------|---------------------------|--|-------------------|------|--|---|---|
| 21st              | LANCASTER X               |  |                   | UP   | Down   |   | REFERENC                                |
| November          |                           | F/O Humber, H.J.<br>J.87364  | - Pilot           | 1451 | 2156   | Identified target in clear weather by red and green markers.<br>Bombed red TI's at 1906.6 hrs from 18000 ft. Saw the yellow   |   |
|                   |                           |  | 1 - 1 5 5 1 1 5 5 | 100  | 12.5   | of TI's. Average effort. Two sets of TI's both being bombed   |   |
|                   |                           |  |                   |      | 1 2 2  | Good concentration of A/C over the target. Both being combed bombed. Good concentration of A/C over the target.               | •                                       |
|                   | LANCASTER X               | J. 28735 F/O Lindsay   |                   |      | Sciences   |   |   |
|                   | в. кв.764                 | 0.207)) F/O Dindsay  | , 5.5 Filot       | 1456 | 2202   | identified target by red II's in clear weather and good visibility and bombed centre of red II's.at 1901.5 hrs from           | *************************************** |
|                   | *                         |  |                   | -    | -  | 18000 ft. FFF marking good and T's were being smothered<br>by the hombing. If marking OK abould be a good prang.              |   |
|                   | LANCASTER X               | R176219 F/S Read, L  | .W Pilot          | 1501 | 2127   | Identified target by red and green II's through yloths clos   |   |
|                   | C. KB.757.                |  |                   |      |  | with long about 1000 ft. Bombed at 1906.8 hrs from 19000 ft. Could not assess results, no fires or amoke seen.                | d                                       |
|                   |                           |  |                   | -    |  | pour not assess results, no lives or smoke seen.  |   |
|                   | ANCASTER X                | T 171701 B/A   |                   |      | Target 4   |   | *************************************** |
|                   | KB.770                    | J.10102 F/L Pratt,   | .w Pilot          | 1448 | 2220   | Identified target by red and green TI's in clear weather.<br>Bombed red TI's at 1901.8 hrs from 19000 ft. No results          |   |
|                   | and the same of           | - and the second second  |                   |      |  | observed except that PFF was very concentrated.   | *************************************** |
|                   | ANGASTER X                |  |                   |      |  | 10 - 1 × 10 + 10 - 1 - 1  |   |
|                   | KB.768                    | J.88215 F/O Tynan, 1   | .w Pilot          | 1450 | 2140   | Identified target by red and green TI's in clear weather but<br>smoke and ground haze spoiled vis. Bombed red TI' at 1906     |   |
|                   | orner.                    |  |                   |      | 1  | hrs from 17000 ft. Gould see nothing on the ground because of smoke and have but concentration of main force of over          | •••••••••••                             |
|                   |                           |  |                   |      |  | the target was good.  |   |
|                   | ANCASTER X                | J.26466 F/O Roulston   | K.C Pilot         | 1508 | 2128   | Edentified target by red and green TI indiger visibility.   |   |
|                   | . ND.796                  |  |                   |      |  | Bombed centre of a group of red TI's at 1905.8 hrs from 18000<br>One large explosion, reddish vellow in colour just before w  | ft.                                     |
|                   |                           |  |                   |      |  | bombed. Good volume of amokeand one fairly good fire seemed to have taken hold. Should be a success.                          |   |
|                   | ANCASTER X                |  | My Market Market  |      |  |   |   |
|                   | KB.792                    | J.7476 S/L Lemont,   | F.W Pilot         | 1447 |  | Identified target by red and green ff's and visually through 2/10 patchy cloud. Bombed centre of markers at 1904, i hrs from  | n                                       |
|                   |                           |  |                   |      | SIERIES A  | 1/000 ft. One fairly large vellowis explosion at 1904 how   |   |
|                   | 9515 (17-25-              | •  |                   |      |  | Good concentration of bomb bursts around the TI's. Concentrate times were out but should be a good attack.                    | ion                                     |
| JANCASTER X J.216 |                           | J. 21668 F/O Miller,   | B.B Pilot         | 1458 |  | Identified target by red II in clear weather. Sombed centre of  | ,                                       |
|                   |                           |  |                   |      | red TI's at 1901.6 hrs from 19000 ft. No results could be seen | 1   |   |
|                   |                           |  |                   | 2.56 |  | perspex. Stbd outer cut at French coast.  |   |
|                   | ANCASTER X                | J.87368 F/O Noel, N.A  | Pilot             | 1519 | 2218, 1  | dentified target by red and green II in good via. Bombed red<br>I'a at 1906.1 hrs from 18000 ft. Por good and oil fires seen. |   |
|                   |                           | the state of the s |                   | 1    | RECEIPTED TO   | Group concentration times were out and we had to waste 18 min.  | i unit                                  |

| Up Down Drants of Source of Float  LANGASTER X  J. 26725 T/O Demich, a. J Pilot  1500 2135 Identified target by red Ti so clear weather and good visibility and the content of the cont    | DATE   | AIRCRAFT      | CREW  | Duty            | Trace |            | Page 14.   |              |
|--|--------|---------------|---|-----------------|-------|------------|--|--------------|
| Movember K. KS.784,   Movember J. Plot   1500   2136   Manutified target by red II in clear weather and good visible in school or and in the property of the   | 2188   | Type & Number |   |                 | Up    | Down       | DETAILS OF SORTIE OR FLIGHT  | REFERENCE    |
| LANGASTER X  J. 168A 7 P/L Kagna, L  - Filot  Jiji 2231  Lantified teget by med and grown TI in clear smatter good via. Bended country of red TI as at 1905. In a from 1700 ft. No. 725  LANGASTER X  J. 26767 F/L Edmondson, W.R Filot  LANGASTER X  J. 2677 W/L CARCUER, W.J Filot  LANGASTER X  J. 2678 W/L CARCUER, W.J Filot  LANGASTER X  J. 2679 W/L CARCUER, W.J Filot  LANGASTER X  J. 2679 W/L CARCUER, W.J Filot  LANGASTER X  J. 2775 J/V Walker, W.J Filot  LANGASTER X  J. 2775 J/V PRUII, W.R Filot  LANGASTER X  J. 2775 J/V PRUII, W.R Filot  LANGASTER  |        |               | J.28/25 F/O Dench,                            | A.J Pilot       | 1500  | 2138       |  | ility        |
| L. EE.725  L. EE.725  L. EE.725  L. EE. 725  L. E.   |        |               | - 1   | 1               |       | 1 44       |  | 757.01       |
| LANGASTER X  J.26767 B/L Edmondson, V.R Pilot  LANGASTER X  J.26771 B/L Edmondson, V.R Pilot  LANGASTER X  J.26771 B/L GARTER  J.2                      |        |               | J. 16847 F/L Kagna,                           | - Pilot         | 1513  | 2231       | Identified target by red and green TI in class which   |              |
| LANGASTER X  J.26767 F/L Educada Ca, W.R Pilot  LANGASTER X  J.26767 F/L Educada Ca, W.R Pilot  LANGASTER X  J.26767 F/L Educada Ca, W.R Pilot  LANGASTER X  J.2271 F/L CASTER, S.J Pilot  LANGASTER X  J.22271 F/L CASTER, S.J Pilot  LANGASTER X  J.22271 F/L CASTER, S.J Pilot  LANGASTER X  J.2653 F/O Peacock, E.D Pilot  LANGASTER X  J.2675 F/O Walker, R.W Pilot  LANGASTER X  J.2675 F/O Pauli, U.R Pilot  LANGASTER X  J.2776 F/O Pauli, U.R Pilot  LANGASTER X  J.2777 F/O Pauli, U.R Pilot  LANGASTER X  J.2777 F/O Pauli, U.R Pilot  LANGASTER X  J.2650 F/O Fearce, F.W Pilot  LANGASTER X  J.2778 J.C Pilot  LANGASTER X  J.2777 J.6560 F/O Fearce, F.W Pilot  LANGASTER X  J.2650 F/O Fearce, F.W Pilot  LANGASTER X  J.2650 F/O Fearce, F.W Pilot  LANGASTER X  J.2777 J.6560 F/O Fearce, F.W Pilot  LANGASTER X  J.2650 F/O Fearce, F.W Pilot  LANGAS   |        |               | 4   |                 |       | -          | The well concentrated and one his avalence at 1905.  |              |
| Lancaster x   J. 2007   F/L Cartes   J. 200   |        |               | J.26767 F/L Edmondad                          | n. W.R Pilot    | 77.53 | 0357       | pacelient attack.  | Bill on rook |
| LANGASTER X  J. 2505 W/C Mull, A.C Pilot 14,5 200 Marker and bugs of black makes. A good praing.  LANGASTER X  O. KG.765  LANGASTER X  J. 22271 F/L GARTER, A.V Pilot 1510 2113 Marker and Joseph Control of real Tile at 1966.7 hrs from 1700 ft. FFF poncentrated and lots of makes in Tyle A good attack should result. Concentration times all out.  LANGASTER X  J. 22271 F/L GARTER, A.V Pilot 1510 2113 Market Market Langast by read and green TL Rombod mastern adag of Red Tile at 1905.5 hrs from 1700 ft. 3 large red explosions and guide accessation commencing at 1909 ft. 3 large red explosions and guide accessation commencing at 1909 ft. 3 large red explosions and guide accessation commencing at 1909 and red transfer to the product of books bursting sample will proceed the control of the bursting sample will proceed the control of the products of the control of the          |        | H. KB.771     |   | 7, **** - 11100 | 1455  | 2155       |  |              |
| O. RB.765  1.1256 W/C Mull, A.G Pilot 14.59  1.1256 W/C Mull, A.G Pilot 14.59  1.1256 W/C Mull, A.G Pilot 14.59  1.1256 W/C Mull, A.G Pilot 15.00  1.1256 W/C Mull, A.G Pilot 15.00  1.1257 W/L GASTER A.J Pilot 15.00  2.115 Will. Sencentration times all out.  1.1257 W/L GASTER A.J Pilot 15.00  2.115 Will. Sencentration times all out.  1.1258 W/C Mull, A.G Pilot 15.00  2.115 Will. Sencentration times all out.  1.1258 W/C Mull, A.G Pilot 15.00  2.115 Will. Sencentration times all out.  1.1259 W/L GASTER A.J Pilot 15.00  2.115 Will. Sencentration times all out.  1.1259 W/L GASTER A.J Pilot 15.00  2.115 Will. Sencentration times all out.  1.1259 W/L GASTER A.J Pilot 15.00  2.115 Will. Sencentration times all out.  1.1259 W/L Gaster Mull, A.G Pilot 15.00  2.115 Will. Sencentration times all out.  2.115 Will. Sencentration times and out.  2.115 Will. Sencentration times and out. Attack started well one out.  2.115 Will. Sencentration times and green and senters through Milothe countrated and many fires and explosions seen. Sencentrated and senting the sentence of sentence out.  2.115 Will. Sentence of the sentence of sentence out.  2.115 Will. S  |        |               |   |                 |       | -          |  |              |
| LANGASTER X  J. 22971 F/L CARTER, A.J Pilot  LANGASTER X  J. 26634 F/O Peacock, E.D Pilot  LANGASTER X  J. 26634 F/O Peacock, E.D Pilot  LANGASTER X  J. 27551 F/O Walker, L.W Pilot  LANGASTER X  J. 27551 F/O Walker, L.W Pilot  LANGASTER X  J. 27551 F/O Walker, L.W Pilot  LANGASTER X  J. 27551 F/O Fault, G.R Pilot  LANGASTER X  |        | O. KB.7EE     | C.1256 W/C Mull, A.C                          |                 | 1443  | 2205       | Identified tayout by year and ware and   |              |
| LANGASTER X J. 22971 F/L CARCER A.J Pilot 1510 2113 Identified target by red and green TI. Bombed mustern adge of Red TI's at 1905.5 hrs from 1700 ft. 3 large red explosions as quide succession commencing at 1700 hrs. Good contraction of bombs bursting samp.  LANGASTER X J. 26634 F/O Peacock, E.D.s. Pilot 1517 2149 Identified target by red and green TI's in good wis. Bombed contracted and bombing well concentrated on these varity in the case. No fires started but same same same reside. The fire started but same same same reside. The fire started but same same same reside. The fire same same same reside. The fire started but same same same same reside. No fires started but same same same same reside. No fires started but same same same same reside. The fire same same same same reside. No fires started but same same same same same reside. No fires same same same same same reside. No fires same same same same same same reside. No fires same same same same same same same sa   |        | 7, -          |   |                 |       | -          | concentrated and lots of smoke in W/I i see 1700 ft. PFF   |              |
| F. KB.760  Red II's at 1905.5 hrs from 17000 ft. 3 large red explosions as quide excession camenoling at 1704 hrs. Good constraint of bombs bursting samp.  LANCASTER X J.26634 F/O Peacock, E.D.s. Pilot 1517 2149  LANCASTER X J.67551 F/O Walker, H.W Pilot 1515 2154  LANCASTER X J.67551 F/O Walker, H.W Pilot 1515 2154  LANCASTER X J.67551 F/O Walker, H.W Pilot 1515 2154  LANCASTER X J.67551 F/O Fault, G.R Pilot 1506 2145  LANCASTER X J.67551 F/O Fault, G.R Pilot 1506 2145  LANCASTER X J.67551 F/O Fault, G.R Pilot 1506 2145  LANCASTER X J.67560 F/O Fearoe, J.W Pilot 1502 2145  LANCASTER X J.69660 F/O Fearoe, J.W Pilot 1502 2113  LANCASTER X J.69660 F/O Fearoe, J.W Pilot  |        |               | J.22971 F/L CARTER                            | A.J Pilot       | 3530  | 0222       | ASSULEA MONCONTRATION TIMES All out.   |              |
| LANGASTER X  J.26634 P/O Peacock, E.D., Pilot 1517  LANGASTER X  J.27551 P/O Walker, M.W Pilot 1515  LANGASTER X  J.27551 P/O Pauli, W.W Pilot 1515  LANGASTER X  J.27551 P/O Pauli, W.W Pilot 1506  LANGASTER X  J.25560 P/O Fearoe, M.W Pilot 1502  LANGASTER X  J.25560 P/O Fearoe, M.W Pilot 1502  LANGASTER X  J.25560 P/O Fearoe, M.W Pilot 1502  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1502  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  LANGASTER X  LANGASTER X  LANGASTER X  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1504  LANGASTER X  J.3556 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  LANGASTER X  J.3566 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  J.3576 P/L Ellson, M.I Pilot 1504  LANGASTER X  LANGASTER X  LANGASTER X  J.3577 P/L Ellson M.I Pilot 1504  LANGASTER X  LA   | 1      | P. KB.760     |   | 4.5             | 1310  | 210        |  | £            |
| LANCASTER X J. 25634 P/O Fearcek LANCASTER X J. 27551 P/O Walker, H.W Pilot LANCASTER X J. 27551 P/O Fearce, T.W Pilot LANCASTER X J. 25640 P/O Lancaster, R Pilot LANCASTER X LANCASTER X J. 25640 P/O Lancaster, R Pilot LANCASTER X LANCASTER X J. 25640 P/O Lancaster, R Pilot LANCASTER X J. 25640 P/O Lancaster, R Pilot LANCASTER X LANCASTER X J. 25640 P/O Lancaster, R Pilot LANCASTER X J. 25640 P/O   | -      |               |   | 1800            |       |            | smoke. Time all out, Good construction of health   |              |
| LANCASTER X  J. 87551 F/O Welker, H.W Pilot  LANCASTER X  J. 875640 F/O Fearce, J.W Pilot  LANCASTER X  J. 875747  G. 27109 F/O LaTermer; R Pilot  LANCASTER X  LANCASTER X  LANCASTER X  LANCASTER X  LANCASTER X  J. 875747  G. 27109 F/O LaTermer; R Pilot  LANCASTER X   |        |               | J.26634 F/O Peacock,                          | E.D. Pilot      | 1517  | 2149       | reil Piaced II S. A well concentrated attack.  | -            |
| LANCASTER X J. 87551 F/O Welker, R.W Pilot J515 LINCASTER X J. 87551 F/O Welker, R.W Pilot J515 LINCASTER X J. 87551 F/O Welker, R.W Pilot J515 LINCASTER X J. 87551 F/O Fearce, R.W Pilot J506 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J507 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J446 J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J446 J508 LINCASTER X J. 875640 F/O Fearce, R.W Pilot J446 J608 J608 J608 J608 J608 J608 J608 J60  |        | ks. 795       |   |                 |       |            |  | 11           |
| LANGASTER X J. 59640 F/O Fearce, J.W Pilot 1502 2113 Identified target in clear weather and good vis. by red and green set 1/2/10 have from 18000 ft. FFF good and should be a good preng. Too much acquire the set 1/2/10 have from 18000 ft. FFF good and should be a good preng. Too much acquire the set 1/2/10 have from 18000 ft. FFF good and should be a good preng. Too much acquire the set 1/2/10 have from 18000 ft. FFF good and should be a good preng. Too much acquire the set 1/2/10 have from 18000 ft. Markers well concentrate and set 1/2/10 have from 18000 ft. Markers well concentrate and set 1/2/10 have from 18000 ft. Markers well concentrate and set 1/2/10 have from 18000 ft. Markers well concentrate and set 1/2/10 have from 18000 ft. Markers well concentrate and many first and set 1/2/10 have from 18000 ft. Markers well concentrated and many first and set 1/2/10 have from 18000 ft. Markers well concentrated and many first and set 1/2/10 have from 18000 ft. Markers well concentrated and many first and set 1/2/10 have from 18000 ft. Markers well concentrated and many first and explosions seen. Shoke up to 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers well concentrated well and set 1/2/10 have from 18000 ft. Markers w    |        | AND ADDRESS V |   | 1.1             |       | 183        | tack. No fires started but some smoke seen rising.   | *t*          |
| IANCASTER X  J. 27597 F/O Pauli, G.R Pilot  1506  LIGHTIFIER TATES the strong to the series of red Ti's through 3/10 cloud. Samped centre of red Ti's at 1900. hre from 1900 ft. Markers well concentrate and beging was on them. At least one big explosion with a dolume of samped to the send beging was on them. At least one big explosion with a dolume of samped to the send to the send beging was on them. At least one big explosion with a dolume of samped to the send times out. Attack started well and send the send times out. Attack started well and send the send times out. Attack started well and send to the send times out. Attack started well and send the send times out. Attack started well and send the send times out. Attack started well and send the send times out. Attack started well and should be a good press.  Sombed red Ti's at 1902.5 her send 1900 to the send 1902 to    |        |               | J.8/551 F/O Walker,                           | I.W Pilot       | 1515  | 2154       | Identified target in clear weather and seed win 1  |              |
| LANCASTER X  U. KB.781  LANCASTER X  J.27557 F/O Fault, C.R Filet  1506  2145  LANCASTER X  J.89640 F/O Fearce, S.W Filet  LANCASTER X  J.89640 F/O Fearce, S.W.   | -      |               |   |                 |       |            | promi 10000 It. FFF good and should be a good work man   |              |
| of red Ti's at 1900.0 hrs from 1900 ft. Markers well concentrate and bombing was on them. At least one big explosion with a dolume of the standard of the stan | U. IAN |               | J. 27557 F/O Pauli, G.                        | R Pilot         | 1506  | этив       |  |              |
| LANCASTER X J. 59640 F/O Fearce, S.W Pilot 1502 2113 Index in a 6000 ft. Targat veil a hase. 2x500lb MR. TD. 025  LANCASTER X J. 59640 F/O Fearce, S.W Pilot 1502 2113 Index in a from 1800 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well concentrated and many fires and explosions seen. Smoke up to 1000 ft. Markers well on 1       |        | · AD. /01     |   |                 | 1,00  | 5145       |  |              |
| LANCASTER X  V. EB.777  LANCASTER X  J. 596.0 F/O Fearce, S.W Pilot  1502  2113  dentified target by red and given Ti's and by Eursdur Canal.  bumbed red Ti at 1905. 9 has from 18500 ft. Markers Well con- entrated and many fires and explosions seen. Shoke up to  1600 ft. Attack good.  LANCASTER X  J. 54.56  F/L Ellson, K.I Pilot  1446  2200  Lancaster Ti at 1901. 9 has from 19000 ft. Pff well concentrated public at 1901. 9 has from 19000 ft. Pff well concentrated public due to ice and jettiaged safe at 5158 19038 at 2015  LANCASTER X  LANCASTER X  LANCASTER X  C.27109 F/O LaTemer; R Pilot  1504  1504  2115  Lancaster Canada and good weather.  Southed a facility goo values of smoke seen. lagood weather.  Lancaster Canada and good weather.  Southed a facility goo values of smoke seen. lagood weather.  Lancaster Canada and good of the first and good weather.  Lancaster Canada and good of the first and good weather.  Lancaster Canada and good weather.  Lancaster Canada and good of the first and good of the          |        |               |   |                 |       |            | of smoke to 6000 ft. Target well ablace 2x5001b WC TD 025  | lumn         |
| England red TI at 1905.9 hrs from 18500 ft. Kankers well consentrated and meny fires and explosions seen. Smoke up to SCO ft. Attack good.    LANCASTER X  |        |               | J. 89640 P/O Pearce, 3                        | .W Pilot        | 1502  |            | mang up and brought back.  | T "          |
| LANCASTER X J. %36 P/L Ellson, k.I Pilot 1446 2200 Identified target by red TI in clear vis. and good weather.  Pembed sed TI at 1901. 9 hrs from 19000 ft. Pff well concentrated and a fairly gan values of smoke seam. 14500th GFIR hung up ossible due to see and jettiagened asfe at JLEN 0305 at 2015  LANCASTERX X. XB.747 C.27109 P/O LaTemer; R Pilot 1504 2152 Identified target by red TI in clear vis. and good weather.  Pembed sed Ti at 1901. 9 hrs from 15000 ft. Gencentration times out. Attack started well and green surveys through 1/10 the cloud.  Booked red TI at 1912. 5 her crown 10000 ft.  |        | 13.777        |   |                 |       |            |  |              |
| LANGASTEGG C. 27109 P/O LaTemer; R Pilot 1504, 2152 Identified target by red and green sarriers through 1/10ths cloud.  Language of the control of the co    |        | INCASTER X    | J. %36 P/L Ella-                              | T - B11-4       | 2116  |            | Social State of State |              |
| LANCASTREX X. EB.7A7 C.27109 P/O LaTemmer; R Pilot 1504 252 Lancastrex Sombed dee to ice and jettiaged safe at \$155N 03038 at 2015 hrs from 1500 ft. Generatration times out. Attack started well and should be a good press. Bombed red II at 1912 5 her street and green sarriers through 1/10ths cloud.  |        | KB.794        |   | - F110t         | 1446  | CHOUSE AND | political red II at 1901. 9 hrs from 19000 et Dee  | hed          |
| LANGASTREX X. KB.747 C.27109 P/O LaTemmer; R Pilot 1504 2152 Landa should be a good preng. Landa should be a good be good    |        |               |   |                 |       |            | possible due to ice and inttiggred and at 11177 2001h (PIDI hung up  |              |
| Bombed red TI's at 1902 5 has from 1000 ft.  |        |               | 0 27100 8/0 7 8                               |                 |       | G 500      | and should be a good prang.  | 11           |
| concentrated and bombing was milit   |        |               |   | R Pilot         | 1504  |            | Identified target by red and green markers through 3/10ths clc<br>Bombed red TI's at 1902.5 hrs from 19000 ft. Markers were well<br>consentrated and bombing was right on them. Fires and explosion  |              |
| seen among the markers. Very well concentrated attack.   | 100    |               | , a 1, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50 | 1 - 1 - 1 - 1   | 50    | 4          | seen among the markers. Very well concentrated attack.   | ns           |

## OPERATIONS RECORD BOOK

APPENDEX A. 227



Target - NEUSS.

DETAIL OF WORK CARRIED OUT

By No. 428 (R.C.A.F.) Squadron.

SECRET

| DATE             | AIRCRAFT<br>TYPE & NUMBER | CREW                 | Dury                    | 1                  | TIME                | A ALLES   |         |
|------------------|---------------------------|----------------------|-------------------------|--------------------|---------------------|---|---------|
| -                | TYPE & NUMBER             |                      | DOLL                    | Up<br>BOMB         | Down                |   | REFERE  |
|                  |                           |                      |                         | TD.025.            | 5x500 1b            | M. TD. 025. 4/c M. Z. darried: 1x40001b HC NI, 6x1000 1b MC, T3.  | 025, 5  |
|                  |                           |                      |                         | 0 1b @ T           | 025, 1              | 3500 1b MO, TD025,<br>.025, 2x500 1b MO TD,025.<br>500 1b MO TB,025,  |         |
| 27th<br>loxember | LANCASTER X               | J.87364 F/O Humber,  |                         | 1633<br>rsion(Wite | 2228<br>eford)      | Identified target by red II and green and yellow flares through the ground haze and thin cloud. Bombed skymarkers and glow of re II at 2029 hrs from 16000 ft. Large explosion at 2028 hours.   | gn<br>d |
|                  | LANCASTER X<br>B. KB.764  | J.28735 F/O Lindsey  |                         | 1635               | 2235<br>chford      | Identified target by markers through 9/10 cloud. Sambed red   |         |
|                  | LANCASTER X               | J.10102 F/L Pratt, 0 | - Pilot                 | 164.9              | 2286                | Identified target by "I med and any and any and any   | light.  |
|                  | D. KB.770                 | T 00000 7/0 0        |                         | ion (Wite          |                     | Should be a good prant. 3 large explosions seen in T/A.   |         |
|                  | E. KB.768                 | J.88215 F/O Tynan, N | . Pilot . Diversio      | n: (Wratti         | ng Com-             | Identified target by II's and sky markers through 5/10th close<br>Bombed on sky markers at 2055 hrs from 17000 ft. II's ap-<br>parently ocnombrated and target should be well hit.  | L       |
| - 6              | ANCASTER X<br>L. KB.792   | J.21668 F/O Miller,  | B.B Pilot<br>Diversion  | 1625<br>Wrattin    | 221.5               | Identified target by red II and skymarkers through IC/IC olough<br>Rombed red II at 2013.5 hrs.from 19000.ft. Large fire at<br>2029 and explosions seen in target. Stbd. inner gave us  |         |
| - 1              | ANCASTER X                | J.26466 F/O Roulston | K.C P3105               | 1655               | 22 58               | Trouble, Target well-ablaze, Should be good attack.   |         |
| 3                | KB.784                    |                      | Diversion               | Comment Market Co. | Gormon)             | Identified target by green flares through 10/10th droud.  Bombed centre of green sky markers at 2026 hrs from 17000 ft.  Pairly big explosions seen from target. Flak moderate.  Simuld be good attack.                                 |         |
| I                | ANCASTER X<br>. KB.725    | R176219 F/S Read, L. |                         | 1640               | 2259                | Identified target by markers through 8/10 cloud.  |         |
|                  | 1.43.60                   | •                    |                         |                    | 59 33 PACES (\$405) | ing and many explosions seen from 2 to 10 min after bombing.  |         |
|                  | ANGASTER X<br>KB. 820     | J.915 F/L Shewfelt,  | H.A Pilot<br>Diverte    | 1644<br>d. to Tudd | 2250 I              | dentified target by red II's and fires through 5/10 cloud.<br>Cabed concentration of fires at 2062 hrs from 19000 ft.   |         |
|                  | ANCASTER X<br>            | J.26767 F/L Edmondao | n, W.R Pilot<br>Diverte | /1524<br>d to Stra | dishall             | Identified target by red Ti's ages cascading into 7/10th thin stratus cloud. Bembed red Ti's at 2030 hrs from 17000 ft. 300d fires seen burning. Seemed a good prang if markers were accurate. Beopys fired from ground 10 mi. to port. |         |

| - CONT.        | T  | GI Company Company                        | 1  | 1 7                    | Proce              | Page 16.   |   |
|----------------|--|---|--|------------------------|--------------------|--|---|
| DATE           | AIRCRAFT<br>Type & Number  | Crew                                      | Dury   | UP                     | Down               | DETAILS OF SORTIE OR FLIGHT  | REFERENCE                               |
| 7th<br>forembe | LANCASTER X<br>P. KB.760   | J. 35427 F/O PAGE, B.B                    |  | 1651<br>erted Tude     | 2314               | Identified target by red and green TI's in 10/10 cloud. Bombed glow through cloud at 2020.9 hr s from 19000 feet.  |   |
|                |  |   |  | -                      |                    | Concentrated glow were only results observed. Single en-   |   |
|                |  | T 43                                      | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1          | M. Change              |                    | gine fighter made an attack as we finished bombing run. Ev-  | ė                                       |
|                | 24   |   |  | 1 0 mg                 | or the             | asive action put A.P.I. and intercom u/s.  | -                                       |
|                | LANGASTER X  | J.9436 F/L Ellson, R                      |  | 1631                   | 2244               | Identified target by PFF markers through 8/10th thin layer   | -                                       |
|                | Q. KB.795  |   |  |                        | radishal           | Molord. Bombed red TI's at 2028 hrs from 18000 ft. Good at-  |   |
|                |  | A   | ······································         |                        |                    | task, explosions seen. Moderate heavy flak encountered.  | ·                                       |
|                |  | 1   | 1 04 No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1000                   |                    | Fired on by Halifax on run into target.  |   |
| -              | W. of T  |   |  | 1                      |                    | APPLICATION OF THE REST OF THE PROPERTY OF THE |   |
|                | LANGASTER X  | J.87551 F/O Walker, I                     |  | 1637                   |                    | Identified by markers in 8/10 cloud. Bombed red II's at  |   |
|                | S. KB.763  |   |  |                        | adishall           | 2027.5 hrs from 17000 ft. Concentrated bombing and three   |   |
|                |  |   | - AB   | 1                      | 11-34-2            | large explosions seen. Good attack. Flak moderate.   |   |
|                | LANGASTER X  | J. 27557 F/O Pauli G.                     | 79.54  | 2506                   | 221.0              |  | *************************************** |
|                | U. KB.781  | A-2/55 ( F/M. F80111,                     |  | 1626                   |                    | Identified target visually through a thin layer of cloud.  Bombed fires in T/A at 2031 hrs from 18000 ft. Flares were  |   |
|                | U. M. 101  |   | DIACLA   | ed to ou               | Addibne.           | not accurate and TI's not wisible but fires appeared concen-   | 4                                       |
|                | 2. 4 (P75)2.4 1.1  | 1456                                      | The same of the same of                        |                        | -                  | trated. Jettisoned 1x1000 USA TD. 025 live at 5121N 0220E  |   |
|                |  |   | <u> </u>                                       | ļ                      |                    | at 2140 hrs from \$000 ft. due to hang up. Hit by heavy flac   |   |
|                |  | 1 2 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |  |                        |                    | predicted in stbd fin.   |   |
| Add            | LANGASTER X  | C.27109 F/O LaTrumer.                     | p - Pilot                                      | 1642                   | 2230               | Identified target by PFF markers through 8/10th cloud with   |   |
|                | V. KB.777  | MAGILANZ ALIX METERS METERS               |  | d to Str               | Adiahall           |  |   |
| 4              | 1.   |   | Diverter                                       | 1                      |                    | Large white explosion at 2025 hrs. Good attack, Moderate   |   |
| 4559           | September 1  | - Strate - Page 55                        |  |                        |                    | heavy flak barrage over target.  |   |
|                | LANCASTER X  | J.25985 S/L Gonvou. 4.                    | f - Pilot                                      | 1700                   | 2252               | Identified target by FFF marking through thin layer of cloud   | 4                                       |
| 10000          | W. KB.794  | 19862792 Th. 1886                         | Diverted to                                    | remail: tell all extra | deres and a second | Bombed glow of red TI's at 2026 from 15000 ft. Clow seen   | <u> </u>                                |
|                |  |   | Diversed A                                     | 0 Witdhi               | ord                | through cloud with some smoke coming up. Moderate flak.  |   |
| A THE          | Assert San Control   | 1.00 10 000 100 0000                      | Contract of the                                | Carlot I               | Contract of        |  |   |
|                | LANCASTER X  | R168425 F/S Mackie, D.                    | J Pilot  | 1629                   |                    | Identified target by TI med and green through 10/10 thin   |   |
|                | X. KB.747  | 1000                                      | Diverted                                       |                        | dishall            | cloud. Bombed red TI at 2027 hrs from 17000 ft. Fires burn-  |   |
| ACCESS OF      |  |   | Sales States                                   |                        | 10000              | ing and explosions seen in built up area. Fires visible  |   |
| ALC:           |  | -   |  |                        |                    | for 100 miles on return. Moderate heavy flak.  |   |
|                | IANCASTER X  | J.26026 F/O Poole, D.F                    | P - Pilot                                      | 1622                   | 2223               | Identified target by FFF through 8/10 cloud. Bombed glow of  |   |
| The same of    | У. КВ. 778   | DIEGOET AND THE PARTY OF                  |  |                        | dishall.           | fires, as skymarkers had gone out when we bombed, at 2031 hr   | 4                                       |
|                | STORY TO BE STORY  | 2 000 000 000                             |  | Ex-Jacob               | •                  | from 18000 ft Good attack. Moderate heavy flak over target.  | is                                      |
| 1000           |  |   |  |                        |                    |  | *************************************** |
|                | LANCASTER X  | J.87368 F/O Noel, NA.                     | - Pilot  | 1646                   | 2237               | Identified target by red II through thin cloud. Bombed red   |   |
| ALCOHOL:       | Z. KB.771  | 3.0/300 1/0 1002,                         | Diverted                                       |                        |                    | TI at 20300 hrs from 18000 ft. One large fire and large expl   | losion se                               |
|                | The state of the s | A T                                       |  | W.                     | AHAMA              | at 2031 hrs . Good trip and attack should be good. Doderate  | e .                                     |
| ASSESSMENT .   | COUNTY THE WAY IN  | 2 2 2 2 2                                 | 4.30   | AND RESTRICTION        |                    | predicted flak.  | ALC: THE                                |

MMM. Orribere

### OPERATIONS RECORD BOOK

APPENDER A. 228.



TARGET - DUISBURG.

DETAIL OF WORK CARRIED OUT

By No. 428 (R.C.A.F.) Squadron.

SECRET

PAGE No. 17.

| DATE   | Aircraft<br>Type & Number   | CREW   | Duty                                  | TIME                                    |                     | DETAILS OF SORTIE OR PLIGHT  | REPERENCE                |
|--|---|--|---------------------------------------|---|---------------------|--|--------------------------|
|  |   |  | 1                                     | UP                                      | Down                |  |                          |
| AC V.  | ,I,K,L, carried:  | 1x4000 1b HC NI , 14   | x500 1b GP TD.02                      | 5, 2x500                                | 1b NC T             | 0.025. A/C C,E,O,Q,Y,Z,X, carried; 1xA000 lb HC.NI, 16x500lb<br>xA000 lb HC NI, 11x500 lb GP TD.025, 5x500 lb NC TD.025.   | MC.TD.02                 |
| A∕C W,   | carried: 1x4000   | 16 HC NI, 12x50006 GF  | TD.025, 4x500 1                       | MC TD.                                  | œ5.                 |  |                          |
| 30th   | LANCASTER X.  | J. 87364 F/O Humber, 1   | Pilot                                 | 1648                                    | 2247                | Identified target by flames red with wellow stars Bombed of  | entre                    |
| ovember  | A. KB.791   |  |                                       |   | -                   | of markers through 10/10 cloud with tops 8000 ft. at 2008.5 from 18000 ft. Target well and continuously marked. Domber   |                          |
|  |   |  |                                       |   | -                   | stream very well concentrated and if flares well place atta<br>should prove successful.  | ck .                     |
|  | LANCASTER X   | J.28735 F/O Lindsay,   | J.B Pilot                             | 1656                                    | 2310                | Identified target by red flares with yellow stars and bombe  | ď                        |
|  | В. КВ.764   |  |                                       |   | of the              | centre of markers through 10/10 close at 2008 hrs from 180   | 00                       |
|  | •   |  | · · · · · · · · · · · · · · · · · · · |   |                     | to be 1000 pounds going off. Best concentration of what se   |                          |
|  | LANCASTER X   | R176219 F/S Read, L.   | Pilot                                 | 1625                                    | 2310                | Identified target by red flares with yellow stars. 10/10 cl  |                          |
|  | C. KB.757   |  | •                                     | 5.323                                   | 100                 | over target we we bombed centre of all flares at 2010 has f<br>in the T/A. If FFF accurate should be good attack.  | rom                      |
|  | LANCASTER X   | J.87551 F/O Walker, 1  | .W Pilot                              | 1653                                    | 2253                | Identified target by sed flares with yellow stars. Bombed o  | entre                    |
|  | D. KB.770   |  |                                       |   |                     | of cluster of two flares through 10/10 cloud at 2008,6 hrs<br>17000 ft. A/C in A/A concentrated and marking secured to be<br>bathed but could not assess due to cloud. Ittakkel ky 4   | from<br>well<br>a 5/2000 |
| 600  | LANCASTER X   | J.16487 F/L Kagna, L.  | - Pilot                               | 1638                                    | 2311 %              |  |                          |
|  | E. KB.768   | N. LONG/F/.H. Aagna,   | - Filet                               |   | 2311                | Identified t rest by red flares with yellow stars and hombe centre of same through 10/10 cloud at 2007.9 hrs from 17000  | d                        |
| in the second  | Transport   | The registre black of  |                                       |   |                     | ft. Scored well comcentrated glow becoming larger beneath cloud as we ran off target.  | *                        |
|  |   | J.915 P/L Shewfelt   | H.A. Pilot                            | 1650                                    | 2301                | Identified target by red flares with yellow stars, Target o  | oy                       |
|  | G. KB.798   | - Table of the selection   |                                       |   |                     | ered by 10/10 cloud with tops to 8000 ft. Bombed centre of   | ults                     |
|  |   |  |                                       |   |                     | but PF concentrated and well timed so if accurate attack   |                          |
|  | LANCASTER X   | F 636-1 W/F 5  |                                       | - 7- 0                                  |                     | The second of the second secon |                          |
|  | I. KB.792   | J.23034 F/L Berry, D.  | E Pilot                               | 1612                                    | 2304                | We were late on target and PFF had stopped so we homed on the MUNICHEN GLADBACK and beabed through 10/10 cloud with tops a   | t6000£t                  |
|  |   |  |                                       |   |                     | at 2020 hrs from 17000 ft. As we dropped our bombsthere was  | clouds                   |
|  |   | * 1 1 1 1 1 1 1 1 1 1 1 1  |                                       |   |                     | for 30 to 40 mi. We could see a white glow in the clouds tu<br>a reddishoclour but nothing else could be seen in direction   | rn<br>of                 |
|  |   |  |                                       | -                                       |                     | Duisburg. Our own explosion looked bigger than the attack of Dusiburg.   | n.                       |
|  | LANCASTER X   | J. 38427 F/O Page, E.  | - Pilot                               | 1658                                    | 2314                | TRANSFIRM TAYOUT DO THE TIAYER WITH VEILOW MINES IN 10/10 k  | load                     |
| -  | K. KB.784   |  | D.                                    |   |                     | Bombed centre of one flares at 2010 hrs from 19000 ft. Not about position of flares in relation to navigational fix so   | sure                     |
|  | -   |  |                                       | *************************************** |                     | an orbit and then hombed. Thoughtflares about 24 md. from so   | tual                     |
| STREET, SQUARE, SQUARE | THE RESERVE AND ADDRESS OF THE PARTY OF THE | The second secon |                                       | THE RESERVE OF THE PERSON NAMED IN      | THE PERSON NAMED IN | aiming point.  |                          |

| DATE | AIRCRAFT                  | CHEW                       | Dury                                    | 46 123 123 | Truce |  |
|------|---------------------------|----------------------------|---|------------|-------|--|
|      | Type & Number             | Control of the same of the |   | Up         | Down  | DETAILS OF SORTIE OR FLIGHT REFEREN  |
|      | r L. KB.725               | J.21668 F/O Miller,        | B.B Pilot                               | 1657       | 2321  | Identified target by red flares with yellow stars and New.<br>fix, Bombed flares at 2008.7 hrs from 18000 ft. Could not<br>assess results due to 10/10 cloud.  |
| ^    | LANCASTER X<br>O. KB.766  | C, 27109 F/O LaTurrer      | R Pilot                                 | 1652       | 2345  | Primary at 2008. here from 19000 ft. 10/10 sloud to 8000 ft. Identified on Gee and by red flares with yellow stars. Pombed centre of all flares, kitsok well-timed and well-concentrated Should be good attack of FFF were on.   |
|      | LANCASTER X<br>S. KB.763  | J.28726 F/O Denoh, R       | J Pilot                                 | 1638       | 2255  | Primary at 2008,8 hrs from 18000 ft, 10/10 solid cloud to 8000 ft. Lientified and bombed on sky markers wed with yellow stars. Red glow seen in the sky as we left the target. No estimate of results owing to heavy cloud.  |
|      | U. KB.781                 | J.27557 F/O Pauli, G       | .R. = Pilot                             | 1643       | 2318  | Primary at 2008.8 hrs from 17000 ft. 10/10 aloud to 8000 ft. Identified traget and bombed on red flares with yellow state. Markers well-concentrated orange glow seen on cloud on why out.   |
|      | LANCASTER X<br>V. KB.777  | R168425 F/S Mackie,        | b.J. = Pilot                            | 1655       | 2240  | Primary at 2007.8 hrs from 19000 ft. 10/10 cloud to 5000 ft.  Iden, on Gee and red flares with yellow stars - bombed on the latter. AC, bombing well concentrated at 51008 05308 1945 are at 19000 ft, an explosion seen which looked like as a/o or a SCARCECON. 2 cluster of red and green it falling out together burning pieces. No flat seen at the time. |
|      | LANCASTER X<br>W. KB.794  | J.25985 S/L Gonyou.        | G.L Pilot                               | 1649       | 2300  | Primary at 2007.7 hrs from 18000 ft. Identified and bombed on flares red with yellow stars. Excellent concentration of A/G   |
|      | LANCAS/FER X<br>X. KB.747 | .C.1256 W/C Hull, A.       | Q. Pilot                                | 1610       | 2325  | Primary at 2007.5 hrs from 17000 ft. Identified and bombed on sky markers red with yellow sters. 2 explosions seen 2010 hrs from 17000 ft. soon after bambing. Should be good attack.  |
|      | LANCASTER X<br>Y. KB.778  | J.26026 F/O Poole, D.      | .F Pilot                                | 2008       | 2307  | Primary at 2008.1 hrs from 17000 ft. Identified and bombed on aky markers red with yellow stars. A good trip - A/c well son-centrated and sky marking good.  |
|      | IANCASTER X<br>Z. KB.#771 | J.87368 F/O Noel, N        | .A Pilot                                | . 1645     | 2340  | Primary at 2006 hrs from 19000 ft. Identified and bashed on occentration of sky markers. No estimate possible due to clock, but there was a glow, and some explosions could be seen lighting up the cloud. If marking was on, the attack   |
|      |                           | restant Manageryer         | • |            | 1-950 | should be good.  |
|      | LANCASTER X<br>Q. KB. 795 | J.9436 F/L Ellson,         | K.I Pilot                               | 1654       | 1839  | Abortive - not over enemy territory. Jettisoned 12x500 lb MC TD.025 mare at 5A50N e100B 1731.5 hrs frvm 7500 ft. (mare) and 12x001b HOM at 5455N 01368 1739.6 hrs from 7500 ft (safe) Brought hack 1x500 lb MC TD.025. Fort outer u/s rendering rear turret u/s immediately after take off, so went out to mean to lettison then returned to base.             |

(A.C. HULL) WING COMMANDER, OFFICER COMMANDING, No. 428 (R.C.A.F.) SQUADRON.