

| Description.                       | Canadian Collieries (Dunsmuir), Ltd., Ladysmith, Wellington Extension Colliery. |       |       |                   |       |            |                   |                   |                   |            |       |
|------------------------------------|---------------------------------------------------------------------------------|-------|-------|-------------------|-------|------------|-------------------|-------------------|-------------------|------------|-------|
|                                    | M20                                                                             |       |       | M2020             |       | 567        |                   | 568               |                   | 569        |       |
| Sample No.                         | R                                                                               | A     | D     | R                 | D     | R          | D                 | R                 | D                 | R          | D     |
| Moisture condition (see note p. 2) | 0.7                                                                             |       |       |                   |       |            |                   |                   |                   |            |       |
| Loss on air-drying                 | Calc.                                                                           | Calc. | Anal. | Calc.             | Anal. | Anal.      | Calc.             | Anal.             | Calc.             | Anal.      | Calc. |
| Results obtained by                |                                                                                 |       |       |                   |       |            |                   |                   |                   |            |       |
| Proximate analysis:—               |                                                                                 |       |       |                   |       |            |                   |                   |                   |            |       |
| Moisture                           | 1.7                                                                             | 1.1   |       | 1.2               |       | 1.3        |                   | 1.6               |                   | 1.4        |       |
| Ash                                | 9.9                                                                             | 10.0  | 10.1  | 8.5               | 8.6   | 8.4        | 8.5               | 11.8              | 12.0              | 11.3       | 11.5  |
| Volatile matter                    | 33.5                                                                            | 39.7  | 40.1  | 39.9              | 40.4  | 40.7       | 41.2              | 38.9              | 39.5              | 38.8       | 39.4  |
| Fixed carbon                       | 48.9                                                                            | 49.2  | 49.8  | 50.4              | 51.0  | 49.6       | 50.3              | 47.7              | 48.5              | 48.5       | 49.1  |
| Ultimate analysis:—                |                                                                                 |       |       |                   |       |            |                   |                   |                   |            |       |
| Carbon                             | 71.7                                                                            | 72.1  | 72.9  |                   |       | 74.3       | 75.3              |                   |                   |            |       |
| Hydrogen                           | 4.8                                                                             | 4.8   | 4.7   |                   |       | 5.2        | 5.2               |                   |                   |            |       |
| Ash                                | 9.9                                                                             | 10.0  | 10.1  |                   |       | 8.4        | 8.5               |                   |                   |            |       |
| Sulphur                            | 0.4                                                                             | 0.4   | 0.4   | 0.5               | 0.5   | 0.4        | 0.4               | 0.4               | 0.4               | 0.4        | 0.4   |
| Nitrogen                           | 1.2                                                                             | 1.2   | 1.2   |                   |       | 1.2        | 1.2               |                   |                   |            |       |
| Oxygen                             | 12.0                                                                            | 11.5  | 10.7  |                   |       | 10.5       | 9.4               |                   |                   |            |       |
| Calorific value:—                  |                                                                                 |       |       |                   |       |            |                   |                   |                   |            |       |
| Calories per gram, gross           | 7180                                                                            | 7250  | 7310  | 7340              | 7430  | 7340       | 7430              | 7060              | 7170              | 7220       | 7330  |
| B. Th. U. per lb., gross           | 12930                                                                           | 13020 | 13160 | 13210             | 13370 | 13210      | 13380             | 12700             | 12910             | 13000      | 13190 |
| Fuel ratio.                        |                                                                                 | 1.25  |       |                   | 1.25  |            | 1.20              |                   | 1.20              |            | 1.25  |
| Carbon-Hydrogen ratio              | 14.8                                                                            | 15.0  | 15.4  |                   |       | 14.2       | 14.6              |                   |                   |            |       |
| Caking properties                  |                                                                                 |       |       |                   |       | Good coke. |                   | Good coke.        |                   | Fair coke. |       |
| Hoffmann potash test.              |                                                                                 |       |       |                   |       |            |                   |                   |                   |            |       |
| Location in mine                   | Wellington seam                                                                 |       |       | Wellington seam.  |       |            |                   |                   |                   |            |       |
| Kind of sample                     | Commercial—10 tons                                                              |       |       | 100 lb.           |       |            |                   |                   |                   |            |       |
| Quality of coal                    | Over 1½ inch screen, and picking tables.                                        |       |       |                   |       |            | Ladysmith lump.   | Ladysmith nut.    | Ladysmith pea.    |            |       |
| Taken by                           | T. Denis, Mines                                                                 |       |       | Mine authorities. |       |            | Mine authorities. | Mine authorities. | Mine authorities. |            |       |
| Date of sampling                   | April 8, 1908.                                                                  |       |       | April, 1909       |       |            | 1915.             | 1915.             | 1915.             |            |       |
| Remarks                            | Operated by Wellington Colliery Co., Ltd., at time of sampling.                 |       |       |                   |       |            |                   |                   |                   |            |       |