

B. Cloutier

CANADA
DEPARTMENT OF MINES AND RESOURCES

—
MINES AND GEOLOGY BRANCH
BUREAU OF MINES

CATALOGUE AND INDEX OF BUREAU
OF MINES REPORTS



OTTAWA
EDMOND CLOUTIER, C.M.G., B.A., L.Ph.
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
CONTROLLER OF STATIONERY

1946

Price, 25 cents.

No. 818

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PREFACE

In presenting the seventeenth edition of the "Catalogue of Bureau of Mines Publications", the following comments may be of service, as explanatory of the more extended handling of the material now adopted.

Earlier editions of this catalogue were furnished with an "Alphabetical Guide to Catalogue", which referred by number to the individual, general, and detailed reports. Owing to the large number of investigations carried out during recent years, many of which appeared only in composite volumes of investigations of the various divisions of the branch, the arrangement thus adopted could not conveniently be used as a guide to this wealth of material. In the present edition, therefore, an index has been introduced arranged alphabetically under the minerals concerned, each mineral again being divided according to the aspect from which it has been investigated and then again, where possible, according to source of the material investigated. Reference is then made to the report, the page numbers concerning the specific investigations being prefixed where needed.

Applications for publications listed herein should be made to the Bureau of Mines, Mines and Geology Branch, Department of Mines and Resources, Ottawa.

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CATALOGUE OF REPORTS

- *1. Mining conditions in the Klondike, Yukon. By Eugene Haanel, 1902.
- *2. The great landslide at Frank, Alberta. 17 pp., 14 pls., 2 figs., 2 maps (not numbered). By R. G. McConnell and R. W. Brock, 1903.
- (E) *3. Report of the Commission appointed to investigate the different
- (F) *4. electro-thermic processes for the smelting of iron ores and the making of steel in operation in Europe. 223 pp., 24 pls., 64 figs. By Eugene Haanel, 1904.
- *5. On the location and examination of magnetic ore deposits by magnetometric measurements. 132 pp., 13 pls., 54 figs. By Eugene Haanel, 1904.
- *7. Preliminary report on limestones, and the lime industry of Manitoba. 68 pp., 8 pls. By J. W. Wells, 1905.
- *8. Preliminary report on the industrial value of the clays and shales of Manitoba. 41 pp., 9 pls. By J. W. Wells, 1905.
- *9. Preliminary report on the raw materials, manufacture, and uses of hydraulic cements in Manitoba. 70 pp., 7 pls. By J. W. Wells, 1905.
- (E) *10. Mica: its occurrence, exploitation, and uses. 148 pp., 1 pl., 38
- (F) *264. figs., 2 maps (not numbered). By Fritz Cirkel, 1905. (*See also* Repts. Nos. 118 and 701.)
- *11. Asbestos: its occurrence, exploitation, and uses. 170 pp., 19 pls., 1 map (not numbered). By Fritz Cirkel, 1905. (*See also* Repts. Nos. 69 and 707.)
- *12. Report of the Commission appointed to investigate the zinc resources of British Columbia and the conditions affecting their exploitation. 399 pp., 68 pls., 32 figs., 2 maps (not numbered). By W. R. Ingalls, 1905.
- 16. Final report of the experiments made at Sault Ste. Marie, under Government auspices, in the smelting of Canadian iron ores by the electro-thermic process. (This includes the Preliminary Report No. 16A, published in 1906.) 150 pp., 23 pls., 21 figs. By Eugene Haanel, 1907.
- 17. The present and prospective output of the mines of the silver-cobalt ores of the Cobalt district. 13 pp. By Eugene Haanel, 1907.
- (E) *18. Graphite: its properties, occurrence, refining, and uses. 307 pp.,
- (F) 202. 20 pls., 52 figs., 44 tables, 9 maps (not numbered). By Fritz Cirkel, 1905. (*See also* Report No. 511.)
- (E) *19. Peat and lignite: their manufacture and uses in Europe. 247 pp.,
- (F) *198. 34 pls., 228 figs. By E. Nystrom, 1908.
- *20. Iron ore deposits of Nova Scotia (Part I). 226 pp., 63 pls., (including maps.) By J. E. Woodman, 1909.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- *21. Summary Report of the Mines Branch for the fiscal year 1907-8. 98 pp.
 Director's general report. By Eugene Haanel.
 Iron ore deposits of Vancouver and Texada islands. By E. Lindeman.
 Alleged iron ore deposits of Ontario and Quebec. By B. F. Haanel.
 Work in Chemical Laboratory, 1907-8. By F. G. Wait.
 Report on visit to gas producer plants in and around New York. By B. F. Haanel.
 Resources and statistics, 1907-8. By John McLeish.
 Comparison of induction furnaces employed for production of steel. By A. Grönwall.
 Results of experiments in intensified nitrification by means of peat beds. By Müntz and Lainé.
22. The examination of some iron ore deposits in the districts of Thunder Bay and Rainy River in the province of Ontario. 65 pp., 7 pls., 18 figs. By F. Hille, 1908.
- *23. Iron ore deposits along the Ottawa (Quebec side) and Gatineau rivers. 147 pp., 5 pls., 15 figs., 2 maps—Nos. 53 and 54. By Fritz Cirkel, 1909.
24. Report on the mining and metallurgical industries of Canada, 1907-8. 972 pp., 75 pls., 16 figs., 6 maps (not numbered). (See Rept. No. 597).
- (E) *25. The tungsten ores of Canada. 56 pp., 10 pls., 1 fig. By T. L.
 (F) *156. Walker, 1909.
26. Annual report on the mineral production of Canada, 1906. 196 pp.
 26b. By John McLeish.
27. Preliminary report on the mineral production of Canada, 1907. By John McLeish.
- 27a. Preliminary report on the mineral production of Canada, 1908. By John McLeish.
- *28. Summary report of the Mines Branch for the nine months ending December 31, 1908. 93 pp.
 Director's general report. By Eugene Haanel.
 Coal tests at McGill University. By J. B. Porter.
 Report of work in Chemical Laboratories, 1908. By F. G. Wait.
 Report of Division of Mineral Resources and Statistics. By John McLeish.
 Report of work done by Assay Office, 1908. By G. Middleton.
 Tungsten ores of Canada. By T. L. Walker.
 Chrome ores and asbestos in province of Quebec. By F. Cirkel.
 Iron ores of Nova Scotia. Preliminary report. By J. E. Woodman.
 Iron ore deposits in New Brunswick and northwestern Ontario. By E. Lindeman.
 Magnetic survey of the Huron mountain, Temagami Forest Reserve. By B. F. Haanel.
 Magnetic deposits in Mayo township, Hastings county, Ont. By Howells Fréchette.
 Smelting of titaniferous iron ores in electric furnace at Weland, Ont. By B. F. Haanel.

Publications marked thus () are out of print.

Note.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Coal samples for testing Canadian coals at McGill University. By T. C. Denis.
- Tests made in Scotland, on oil-shale from New Brunswick, etc. By R. W. Ells.
- Preliminary report on peat bogs in Canada. By E. Nystrom and A. Anrep.
- Preliminary report on coal and coal mining in Nova Scotia. By J. G. S. Hudson.
- Preliminary report on gypsum deposits and industry of Nova Scotia and New Brunswick. By W. F. Jennison.
- Report on visit to some producer gas plants in and around Berlin, Germany. By B. F. Haanel.
- Appendix I. Progress of electric smelting in Norway. By O. Stalhane.
- Appendix II. Mineral production of Canada, 1907-8. By John McLeish.
- (E) *29. Report on the chrome iron ore deposits in the Eastern Townships, province of Quebec. 141 pp., 11 pls., 15 figs., 1 map—No. 57.
- (F) *226. (Appendices: I—Notes on the metallurgy of chromium, by W. Borchers; II—Experiments with chromite at McGill University under the direction of J. B. Porter.) 1909.
30. Investigation of the peat bogs and peat fuel industry of Canada during the season 1908-9. (Bulletin No. 1.) 25 pp., 6 maps—Nos. 36, 37, 38, 39, 40, and 41. By Erik Nystrom and A. Anrep.
32. Investigation of an electric shaft furnace, Domnarfvet, Sweden. 38 pp., 4 pls., 10 figs. By Eugene Haanel, 1909.
47. Iron ore deposits of Vancouver and Texada islands, British Columbia. 28 pp., 5 maps—Nos. 48, 49, 50, 51, and 52. By E. Lindeman, 1910.
- (E) *55. Joint report (with the Geological Survey) on the bituminous or oil-shales of New Brunswick and Nova Scotia, also on the oil-shale industry of Scotland. Part I: Economics. 36 pp., 15 pls., 6 figs. By R. W. Ells. With appendix, The technology of the Scottish shale oil industry. By W. A. Hamor. 1910. Part II:
- (F) *56. Geological position and character of the oil shale deposits of Canada. 75 pp. By R. W. Ells. With appendix, Oil-shale found on Melville island (Arctic ocean) 1909. 1910 (dated 1909).
- Geological Survey Nos. (E) 1107. (F) 1108.
58. Annual report on the mineral production of Canada during the calendar years 1907 and 1908. 286 pp. By John McLeish.
- NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1907 and 1908.*
31. Cement.
42. Iron and steel.
43. Chromite.
44. Asbestos.
- *45. Coal, coke, and peat.
46. Natural gas and petroleum.
- *59. Report of analyses of ores, non-metallic minerals, fuels, etc., made in the chemical laboratories during the years 1906, 1907, 1908, 1909. 126 pp., 2 pls., with appendix. Arranged by F. G. Wait. Appendix—Description of commercial methods and apparatus for the analyses of oil-shales. By H. A. Leverin, 1910.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

62. Preliminary report on the mineral production of Canada, 1909.
By John McLeish.
- *63. Summary report of the Mines Branch for the calendar year 1909.
176 pp., 4 pls.
Director's general report. By Eugene Haanel. Coal tests at McGill University. By J. B. Porter. Report on work in Chemical Laboratories, 1909. By F. G. Wait.
Report of Division of Mineral Resources and Statistics for 1909. By John McLeish.
Report covering operations of Assay Office, Vancouver, B.C. By G. Middleton.
Molybdenum ores of Canada. By T. L. Walker.
Magnetic concentration of iron ores from Quebec and New Brunswick; copper-nickel ores from Ontario. By G. C. Mackenzie.
Investigation of some manganese ore deposits in Nova Scotia and New Brunswick. By T. C. Denis.
Investigation of iron ores and metallurgical limestones in Nova Scotia. By J. E. Woodman.
Magnetic survey of some mining locations at Timagami, Ont. By E. Lindeman.
Report on copper mining industry in Quebec. By A. W. G. Wilson.
Nicolet antimony mine, Quebec. By A. W. G. Wilson.
Iron locations in Spalding township, Megantic county, Que. By A. W. G. Wilson.
Notes on an occurrence of talc and soapstone in Megantic county, Que. By A. W. G. Wilson.
Examination of certain iron ore properties in northeastern Ontario. By Howells Fréchette.
Gypsum resources of Nova Scotia. By W. F. Jennison.
Report on further investigation of asbestos deposits in province of Quebec. By F. Cirkel.
Investigation of reported iron ore occurrences in Ontario, Quebec, and New Brunswick. By B. F. Haanel.
Investigation of Harris peat gas process. By B. F. Haanel.
Preliminary report on peat bogs of Canada. By A. Anrep.
Data on coal mining in Nova Scotia. By J. G. S. Hudson.
Accountant's statement. By John Marshall.
Appendix I. Preliminary report on mineral production of Canada in 1909. By John McLeish.
Appendix II. Description of commercial methods for the analysis of oil-shales. By H. A. Leverin.
Appendix III. United States report on prevention of mine explosions. (Oct. 22, 1908.)
Appendix IV. Examination of magnetic ore deposits. By Howells Fréchette.
- (E) *67. Iron ore deposits of the Bristol mine, Pontiac county, Que. (Bulletin
(F) 314. No. 2). 15 pp., 2 pls., 2 figs., 2 maps—Nos. 60 and 61. By E. Lindeman and G. C. Mackenzie, 1910.
- (E) *68. Recent advances in the construction of electric furnaces for the
(F) *263. production of pig iron, steel, and zinc. (Bulletin No. 3.) 76 pp., 1 pl., 17 figs. By Eugene Haanel, 1910.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- (E) *69. Chrysotile-asbestos: its occurrence, exploitation, milling, and uses.
 (F) *81. Appendix: The testing of heat-insulating materials. By Frederick Bacon, 1910. 316 pp., 66 pls., 88 figs., 2 maps—Nos. 78 and 86. (Second edition, enlarged.) By Fritz Cirkel, 1911. (See also Rept. No. 707.)
- *71. Investigation of the peat bogs and peat industry of Canada during the season 1909-10; (Bulletin No. 4.); (to which is appended A. Larson's paper on Dr. M. Ekenberg's wet-carbonizing process, from *Teknisk Tidskrift* No. 12, December 26, 1908—translation by A. Anrep, Jr.; also a translation of Lieut. Ekelund's pamphlet entitled "A solution of the peat problem", 1909, describing the Ekelund process for the manufacture of peat powder, by H. A. Leverin). 44 pp., 17 pls., 6 figs., 6 maps—Nos. 72, 73, 74, 75, 76, and 77. (Second edition, enlarged.) The first edition does not contain the translation of Lieut. Ekelund's pamphlet by H. A. Leverin.
- *82. Magnetic concentration experiments (Bulletin No. 5). 28 pp., 4 figs. By G. C. Mackenzie, 1910.
- (E) *83. An investigation of the coals of Canada with reference to their economic qualities, as conducted at McGill University under the authority of the Dominion Government. By J. B. Porter, R. J. Durley, and others. (See also No. 338, Vol. VII.)
 (F) *308. *Vol. I—Coal washing and coking tests. 233 pp., 46 pls., 31 figs., 5 maps—Nos. 95, 96, 97, 98, and 99. 1912.
 Vol. II—Boiler and gas producer tests. 189 pp., 17 pls., 25 figs., 1912.
 Vol. III
 Appendix I—Detailed results of the coal washing trials. 168 pp. By J. B. Porter, 1912.
 Vol. IV
 Appendix II—Detailed results of the boiler trials. 352 pp. By R. J. Durley, 1913.
 Vol. V
 Appendix III—Detailed results of the gas producer trials. 318 pp. By R. J. Durley, 1913.
 *Vol. VI
 Appendix IV—Manufacture and testing of coke. 75 pp. By J. B. Porter and E. Stansfield, 1912.
 Appendix V—Work of the chemical laboratory. 42 pp. By E. Stansfield, 1912.
- NOTE.—Vols. I and II were printed separately in the following parts:
 Vol. I—
 Part I—Introductory. By J. B. Porter.
 Part II—The coal fields of Canada. By T. C. Denis.
 Part III—Collecting the coal samples. By T. C. Denis and E. Stansfield.
 Part IV—Sampling in the testing plant and laboratory. By J. B. Porter.
 Part V—Mechanical purification of coal, commonly called coal washing. By J. B. Porter.
 Part VI—Manufacture and testing of coke. By E. Stansfield and J. B. Porter.
 Vol. II—
 Part VII—Boiler tests. By R. J. Durley.
 Part VIII—Gas producer tests. By R. J. Durley.
 Part IX—Work of the chemical laboratory. By E. Stansfield.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- (E) *84. Gypsum deposits of the Maritime Provinces of Canada (including the Magdalen islands). 171 pp., 36 pls., 19 figs., 3 maps—
(F) *233. Nos. 64, 65, and 66. By W. F. Jennison. 1912. (*See also* Repts. Nos. 245 and 714.)
88. Annual report on the mineral production of Canada, 1909. 291 pp. By John McLeish.
- NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1909.*
79. Iron and steel.
80. Coal and coke.
85. Cement, lime, clay products, stone, and other structural materials.
89. Proceedings of conference on explosives, 1911. (Fourth edition.) 49 pp.
- *90. The exploitation of our peat bogs for the production of fuel for domestic and industrial purposes. (Reprint of presidential address delivered at the fourth annual meeting of the American Peat Society held at Ottawa, July 25, 1910.) 8 pp. By Eugene Haanel, 1911.
92. Report on the explosives industry in the Dominion of Canada. (Fourth edition.) 18 pp. By Captain Arthur Desborough, 1911.
- (E) *93. Molybdenum ores of Canada. 64 pp., 14 pls., 6 figs. By T. L. Walker, 1911.
(F) *197.
- (E) *100. The building and ornamental stones of Canada: Vol. I, Ontario. 376 pp., 77 pls., 21 figs. By W. A. Parks, 1912.
(F) *100a. 102. Preliminary report on the mineral production of Canada, 1910. By John McLeish.
- *103. Summary report of the Mines Branch for the calendar year 1910. 237 pp., 1 fig., 1 map—No. 94.
Director's general report. By Eugene Haanel.
Report of Chemical Laboratory for 1910. By F. G. Wait.
Report of the Division of Mineral Resources for 1910. By John McLeish.
Report of operations of Assay Office, Vancouver, B.C. By G. Middleton.
Report of Fuel Testing Station, 1910. By B. F. Haanel.
Report of Fuel Testing Laboratory, 1910. By E. Stansfield.
Report of Ore Dressing and Metallurgical Laboratory, 1910. By G. C. Mackenzie.
Molybdenum ores of Ontario and British Columbia. By T. L. Walker.
Copper mining industry in Ontario, 1910. By A. W. G. Wilson.
Austin Brook iron-bearing district, N.B. By E. Lindeman.
Investigation of iron ore deposits at Torbrook, Annapolis county, N.S.; and magnesite deposits, Grenville township, Argenteuil county, Que. By Howells Fréchette.
Investigation of reported discovery of tin ore in the vicinity of Arnprior, Ont. By L. H. Cole.
Cobalt and surrounding districts, province of Ontario. By L. H. Cole.
Mica deposits of Ontario and Quebec. By H. S. de Schmid.
Preliminary report on building and ornamental stones of Ontario south of the Ottawa and French rivers. By W. A. Parks.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Investigation of peat bogs of Canada, and manufacture of peat fuel at Alfred, Ont. By A. Anrep, Jr.
 Report on tests of blaugas. By E. Stansfield.
 Report on explosives industry in Canada. By A. Desborough.
 Report on explosion of "Verite" at works of General Explosives Company, Ltd., Hull, Que. By J. G. S. Hudson.
 Report on explosion of "Blaster's Friend", at works of Dominion Explosives Company, Ltd., Sand Point, Renfrew county, Ont. By J. G. S. Hudson.
 Investigation of coal mine disaster at Bellevue mine, near Frank, Alberta. By J. G. S. Hudson.
 Report of Draughting Division.
 Appendix I. Preliminary report on mineral production of Canada during 1910, with revised statistics for 1909. By John McLeish.
 Appendix II. Conference on proposed legislation to regulate manufacture, importation, and testing of explosives. By Eugene Haanel.
 Appendix III. The Explosives Act. 1910-11.
- *104.** Catalogue of publications of the Mines Branch, 1907-11, containing tables of contents of the various technical reports, monographs, bulletins, etc., together with a list of magnetometric survey maps, working plans, etc.; including also a digest of technical memoirs and the annual summary reports of the Superintendent of Mines issued by the Department of the Interior, 1902-1906. 135 pp., 1912.
- (E) **105.** Austin Brook iron-bearing district, New Brunswick. 15 pp., 3 pls.,
 (F) ***219.** 5 figs., 3 maps—Nos. 106, 107, and 108. By E. Lindeman, 1913.
- 110.** Western portion of Torbrook iron ore deposits, Annapolis county, N.S. (Bulletin No. 7.) 13 pp., 4 pls., 1 map—No. 141. By Howells Fréchette, 1912.
- *111.** Diamond drilling at point Mamainse, Ontario. (Bulletin No. 6.) 59 pp., 5 pls., 1 fig., 1 map—No. 112. By A. C. Lane, with introductory by A. W. G. Wilson.
- (E) ***118.** Mica: its occurrence, exploitation, and uses. (Second edition.)
 (F) ***264.** 411 pp., 38 pls., 67 figs., 22 maps—Nos. 119 to 140 inclusive. By H. S. de Schmid, 1912. (See also Rept. No. 701.)
- *142.** Summary report of the Mines Branch for the calendar year 1911. 201 pp., 16 pls., 6 figs., 1 map—No. 166.
 Director's general report. By Eugene Haanel.
 Report of chemical laboratories, 1911. By F. G. Wait.
 Report of Division of Mineral Resources and Statistics, 1911. By John McLeish.
 Assay Office report for 1911. By G. Middleton.
 Report of Fuels and Fuel Testing Division, 1911. By B. F. Haanel.
 Investigation of peat bogs, 1911. By A. Anrep.
 Report of chemical laboratory of Fuel Testing Station, 1911. By E. Stansfield.
 Report of Ore Dressing and Metallurgical Laboratory, 1911. By G. C. Mackenzie.
 Building and ornamental stones of Maritime Provinces. By W. A. Parks.
 Report on Sudbury nickel field. By A. P. Coleman.

Publications marked thus () are out of print.

Note.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Copper and pyrites. By A. W. G. Wilson.
 Iron ore deposits along Central Ontario railway. By E. Lindeman.
 Calabogie iron-bearing district. By E. Lindeman.
 Magnetometric survey of a nickeliferous pyrrhotite deposit in Sudbury district. 1 map—No. 166. By E. Lindeman.
 Investigation of Canadian market for various mineral products in a crude or partially prepared state. By Howells Fréchette.
 Gypsum and salt industries of central and western Canada. By L. H. Cole.
 Phosphate and feldspar deposits of Ontario and Quebec.
 Determination of moisture in fuels. By E. Stansfield.
 Report of tests on pyrene. By E. Stansfield.
 An electrically heated tube furnace suitable for making ultimate organic analyses. By E. Stansfield.
 Report on explosion of explosives at Sand Point, Ont., Beloeil and Rigaud, Que. By J. G. S. Hudson.
 Accountant's statement, 1911. By John Marshall.
 Appendix I. Preliminary report on mineral production of Canada, 1911. By John McLeish.
 Appendix II. On explosives.
- *143.** Annual report on the mineral production of Canada, 1910. 328 pp. By John McLeish.
- NOTE.—The following parts were separately printed and issued in advance of the Annual Report for 1910.*
- *114.** Cement, lime, clay products, stone, and other structural materials.
***115.** Iron and steel.
***116.** Coal and coke.
117. General summary of the mineral production.
- (E) ***145.** Magnetic iron sands of Natashkwan, Saguenay county, Quebec.
 (F) ***149.** 49 pp., 22 pls., 9 figs., 3 maps—Nos. 146, 147, and 148. By G. C. Mackenzie, 1913 (marked 1912).
- *150.** Preliminary report on the mineral production of Canada, 1911. By John McLeish.
- (E) ***151.** Investigation of the peat bogs and peat industry of Canada,
 (F) ***180.** 1910-11. (Bulletin No. 8.) 53 pp., 19 pls., 1 fig., 12 maps—Nos. 113, 152, 153, 157 to 165 inclusive. By A. Anrep.
- (E) ***154.** The utilization of peat fuel for the production of power, being a
 (F) ***155.** record of experiments conducted at the Fuel Testing Station, Ottawa, 1910-11-12. 140 pp., 10 pls., 17 figs., 17 charts. By B. F. Haanel.
- (E) ***167.** Pyrites in Canada: its occurrence, exploitation, dressing, and uses.
 (F) ***169.** 202 pp., 27 pls., 29 figs., 1 map—No. 168. By A. W. G. Wilson. 1913 (marked 1912).
- (E) ***170.** The nickel industry: with special reference to the Sudbury region,
 (F) ***179.** Ontario. 198 pp., 63 pls., 14 figs., 8 maps—Nos. 171, 172, 173, 174, 175, 176, 177, and 178. By A. P. Coleman, 1913.
- (E) **184.** Magnetite occurrences along the Central Ontario railway. 23 pp.,
 (F) ***195.** 9 pls., 19 maps—Nos. 185-193a, 194, and 204. By E. Lindeman, 1913.
- (E) ***201.** Annual report on the mineral production of Canada during the
 (F) ***265.** calendar year 1911. 316 pp. By John McLeish.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

NOTE.—The following parts were separately printed and issued in advance of the Annual Report for 1911.

181. Cement, lime, clay products, stone, and other structural materials.
- *182. Iron and steel.
183. General summary of the mineral production.
199. Copper, gold, lead, nickel, silver, zinc, and other metals.
200. Coal and coke.
- (E) 203. The building and ornamental stones of Canada: Vol. II, Maritime Provinces. 264 pp., 45 pls., 9 figs. By W. A. Parks, 1914.
- (F) *280. The copper smelting industry of Canada. 184 pp., 43 pls., 39 figs., 4 maps—Nos. 210, 211, 212, and 213. By A. W. G. Wilson, 1914 (marked 1913).
- (E) 209. Preliminary report on the mineral production of Canada, 1912. By John McLeish.
- (F) *214. Iron ore occurrences in Canada.
Vol. I—Description of principal iron ore mines. 71 pp., 23 pls., 1 map—No. 445. Appendix consisting of 22 maps enclosed in a special case—Nos. 106, 107, 185, 185a, 186, 186a, 190, 190a, 191, 191a, 192, 192a, 205, 206, 207, 208, 208a, 208b, 208c, 340, 340a, 443. 1917.
Vol. II—Description of iron ore occurrences. 222 pp., 1 map—No. 445. Appendix consisting of 33 maps enclosed in a special case—Nos. 187, 187a, 188, 188a, 189, 193, 193a, 194, 249 to 253, 261, 311, 312, 313, 341, 341a, 342, 342a, 343, 343a, 405, 409, 410, 416, 438, 439, 441, 442, 444, 446. 1918.
Compiled by E. Lindeman and L. L. Bolton, with introductory by A. H. A. Robinson.
- (E) *222. Lode mining in Yukon: an investigation of the quartz deposits in the Klondike division. 214 pp., 40 pls., 35 figs., 6 maps—Nos. 220, 221, 234 to 237. By T. A. MacLean, 1914.
- (F) *223. Summary report of the Mines Branch for the calendar year 1912. 174 pp., 16 pls., 1 fig., 3 maps—Nos. 215, 220, and 221. Director's general report. By Eugene Haanel. Report of Chemical Laboratory, 1912. By F. G. Wait. Report of Division of Mineral Resources and Statistics. By John McLeish. Assay Office report, 1912. By G. Middleton. Fuel and Fuel Testing Division. Report on a test of lignite coal from Consumer's Coal Co., Moosejaw, Sask. By B. F. Haanel. Sampling of lignitic and semi-bituminous coals of Alberta for gas producer tests. By J. G. S. Hudson. Report of chemical laboratory of Fuel Testing Station. By E. Stansfield. Investigation of peat bogs. By A. Anrep. Petroleum and natural gas resources of Canada. By F. G. Clapp and L. G. Huntley. Report of Ore Dressing and Metallurgical Division. By G. C. Mackenzie. Investigation of magnetic iron sands at Natashkwan, Que. By G. C. Mackenzie. Equipment of new Ore Dressing Laboratories, 1912. By G. C. Mackenzie.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Report on Parker-Lanius process of extracting gold from free-milling and refractory ores. By G. C. Mackenzie.
- Building and ornamental stones of Quebec. By W. A. Parks.
- Work on pyrites and copper. By A. W. G. Wilson.
- Report on mineral deposits in vicinity of St. Mary Bay, Nova Scotia. By A. W. G. Wilson.
- Moose Mountain iron-bearing district, Ont. By E. Lindeman.
- Investigation of Canadian market for various mineral products in a crude or partially prepared state. By Howells Fréchette.
- Continued examination of the phosphate and feldspar deposits of Ontario and Quebec. By H. S. de Schmid.
- Further investigation of gypsum and salt industries of Canada. By L. H. Cole.
- Preliminary report of investigations at Research Laboratory of applied electro-chemistry, Queen's University, Kingston, for Mines Branch. (Metal cobalt and its alloys.) By H. T. Kalmus.
- Recent developments in electro-thermic production of iron and steel, 1911-12. By H. T. Kalmus.
- Lode mining in Yukon: investigation of quartz deposits in Klondike division. By T. A. MacLean.
- Accountant's statement, 1912. By John Marshall.
- Appendix I. Preliminary report on mineral production of Canada, 1912. By John McLeish.
- Appendix II. Legislative administration of mineral lands in Canada.
- *227.** Sections of the Sydney coal fields. 6 pp., 15 pls., 1 map—No. 228. By J. G. S. Hudson, 1913.
- *229.** Summary report of the petroleum and natural gas resources of Canada. 1912. By F. G. Clapp. (*See also* No. 224.)
- (E) ***230.** Economic minerals and mining industries of Canada, 77 pp., 19 pls.,
- (F) ***231.** 1 map—No. 232. 1913. (*See also* Nos. 611 and 738.)
- (E) ***245.** Gypsum in Canada: its occurrence, exploitation, and technology.
- (F) ***246.** 256 pp., 30 pls., 27 figs., 6 maps—Nos. 239, 240, 241, 242, 243, and 244. By L. H. Cole, 1914.
- (E) ***254.** Magnetite occurrences near Calabogie, Renfrew county, Ontario.
- (F) ***255.** 16 pp., 1 fig., 5 maps—Nos. 249, 250, 251, 252, and 253. By E. Lindeman, 1914.
- (E) ***259.** Researches on cobalt and cobalt alloys conducted at Queen's
- (F) ***260.** University, Kingston, Ontario, for the Mines Branch of the Department of Mines. (*See also* Nos. 309, 334, 411, and 413.)
- Part I—Preparation of metallic cobalt by reduction of the oxide. 36 pp., 8 pls., 4 figs. By H. T. Kalmus, assisted by C. W. Day, C. Harper, A. Savell, and R. Wilcox, 1913.
- 262.** Annual report on the mineral production of Canada during the calendar year 1912. 339 pp. By John McLeish.
- NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1912.*
- 238.** General summary of the mineral production.
- (E) ***247.** (F) ***287.** Iron and steel.
- 256.** Copper, gold, lead, nickel, silver, zinc, and other metals.
- *257.** Cement, lime, clay products, stone, and other structural materials.
- *258.** Coal and coke.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- (E) 266. Investigation of the peat bogs and peat industry of Canada, 1911
 (F) *267. and 1912. (Bulletin No. 9.) 47 pp., 29 pls., 6 figs., 11 maps—
 Nos. 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, and 278.
 By A. Anrep.
- (E) 279. The building and ornamental stones of Canada: Vol. III, Quebec.
 (F) *389. 304 pp., 52 pls., 12 figs. By W. A. Parks, 1915.
- (E) *281. Preliminary report on the bituminous sands of northern Alberta.
 (F) *282. 92 pp., 55 pls., 5 figs., 1 map—No. 284. By S. C. Ells, 1915
 (marked 1914). (*See also* Rept. No. 632.)
283. Preliminary report on the mineral production of Canada, 1913.
 By John McLeish.
- (E) 285. Summary report of the Mines Branch for the calendar year 1913.
 (F) *286. 214 pp., 51 pls., 24 figs., 1 map—No. 284.
 Director's general report. By Eugene Haanel.
 Progress report on monograph on copper mines and copper
 mining. By A. W. G. Wilson.
 Investigation of alleged platinum discoveries in vicinity of
 Nelson, B.C. By A. W. G. Wilson.
 Hall process for desulphurizing ores. By A. W. G. Wilson.
 Iron ore occurrences in Cape Breton. By E. Lindeman.
 Lode mining in Yukon. By T. A. MacLean.
 Investigation of Canadian market for various mineral products
 in a crude or partially prepared state. By Howells
 Fréchette.
- White mica occurrences in Tête Jaune Cache and Big Bend
 districts, B.C. By H. S. de Schmid.
- Saline springs of Manitoba. By L. H. Cole.
- Bituminous sands of northern Alberta. By S. C. Ells.
- Building and ornamental stones of Quebec. By W. A. Parks.
- Work of Ore Dressing and Metallurgical Division for 1913.
 By W. B. Timm.
- Investigation of the magnetic iron sands at Natashkwan, Que.
 By S. C. Parsons.
- Investigation of processes for smelting zinc ores. By W. R.
 Ingalls.
- Researches on cobalt and cobalt alloys at Research Labora-
 tory of applied electro-chemistry and metallurgy, Queen's
 University, Kingston, for Mines Branch. (Preparation
 of metallic cobalt by reduction of the oxide.) By H. T.
 Kalmus.
- Work at Fuel Testing Station, 1913. By B. F. Haanel.
- Results of investigation of five lignite samples obtained from
 Alberta. By B. F. Haanel.
- Report of chemical laboratory of Fuel Testing Station. By
 E. Stansfield.
- Investigation of peat bogs. By A. Anrep.
- Report of Mineral Resources and Statistics Division, 1913.
 By John McLeish.
- Appendix I. Preliminary report on mineral production of
 Canada, 1913. By John McLeish.
- Appendix II. Description of Mines Branch laboratories. By
 F. G. Wait, B. F. Haanel, and W. B. Timm.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- (E) 291. The petroleum and natural gas resources of Canada. By F. G. Clapp and others, 1915.
 (F) *292. Vol. I—Technology and exploitation. 378 pp., 21 pls., 25 figs., 1 map—No. 293.
 Vol. II—Occurrence of petroleum and natural gas in Canada. 404 pp., 31 pls., 40 figs., 6 maps—Nos. 294, 295, 296, 297, 298, and 302.
 Vol. II also printed separately in two parts as follows:—
 Part 1, Eastern Canada. 245 pp., 12 pls., 23 figs., 3 maps—Nos. 294, 295, and 296.
 Part 2, Western Canada. 159 pp., 19 pls., 17 figs., 3 maps—Nos. 297, 298, and 302.
- (E) 299. Peat, lignite, and coal: their value as fuels for the production of gas and power in the by-product recovery producer. 261 pp., 29 pls., 39 figs. By B. F. Haanel, 1915.
 (F) *300.
- (E) 303. Moose Mountain iron-bearing district, Ontario. 14 pp., 2 figs., 8 maps—Nos. 205, 205a, 206, 207, 208, 208a, 208b, 208c—in separate envelope. By E. Lindeman, 1914.
 (F) 304.
- (E) 305. The non-metallic minerals used in the Canadian manufacturing industries. 199 pp. By Howells Fréchette, 1914.
 (F) *306.
- (E) 309. Researches on cobalt and cobalt alloys conducted at Queen's University, Kingston, Ontario, for the Mines Branch of the Department of Mines. (See also Nos. 259, 334, 411, and 413.)
 (F) 310. Part II—The physical properties of the metal cobalt. 48 pp., 14 pls., 8 figs. By H. T. Kalmus and C. Harper, 1914.
- (E) 320. Annual report on the mineral production of Canada during the calendar year 1913. 363 pp. By John McLeish.
 (F) 321.
- NOTE.—The following parts were separately printed and issued in advance of the Annual Report for 1913.
315. Iron and steel.
 *316. Coal and coke.
 317. Copper, gold, lead, nickel, silver, zinc, and other metals.
 318. Cement, lime, clay products, stone, and other structural materials.
 319. General summary of the mineral production.
- *322. Economic minerals and mining industries of Canada. (Panama-Pacific edition.) 78 pp., 19 pls., 1 map—No. 232. 1915. (See also Nos. 611 and 738.)
- (E) 323. The products and by-products of coal. 51 pp. By E. Stansfield and F. E. Carter, 1915.
 (F) *324.
- (E) 325. The salt industry of Canada. 135 pp., 9 pls., 25 figs., 4 maps—Nos. 327, 328, 329, and 330. By L. H. Cole, 1915. (See also No. 716.)
 (F) *326.
331. Results of the investigation of six lignite samples obtained from the province of Alberta. 110 pp., 5 pls., 29 figs. By B. F. Haanel and John Blizzard, 1915.
333. Preliminary report on the mineral production of Canada, 1914. By John McLeish.
- (E) 334. Researches on cobalt and cobalt alloys conducted at Queen's University, Kingston, Ontario, for the Mines Branch of the Department of Mines. (See also Nos. 259, 309, 411, and 413.)
 (F) *335. Part III—Electro-plating with cobalt. 69 pp., 4 figs. By H. T. Kalmus, assisted by C. Harper and A. Savell, 1915.
336. Notes on clay deposits near McMurray, Alberta. (Bulletin No. 10.) 15 pp. By S. C. Ellis, 1915.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- *337. Catalogue of Mines Branch publications—(8th to 11th editions).
338. An investigation of the coals of Canada with reference to their economic qualities as conducted at McGill University, Montreal, under the authority of the Dominion Government. Extra volume (Vol. VII) supplementing report No. 83. Weathering of coal. 194 pp., 6 pls., 65 figs. By J. B. Porter, 1916.
- (E) 344. Electrothermic smelting of iron ores in Sweden. 65 pp., 7 pls., 5
(F) 345. figs. By A. Stansfield, 1915.
- (E) 346. Summary report of the Mines Branch, Department of Mines, for
(F) 347. the calendar year ending December 31, 1914. 232 pp., 12 pls., 15 figs.
Director's general report. By Eugene Haanel.
Examination of certain copper deposits in Quebec. By A. W. G. Wilson.
The Atikokan and Matawin iron ranges. By E. Lindeman.
The Atikokan iron range. By A. H. A. Robinson.
Limestones of the province of Quebec. By Howells Fréchette.
Investigation of miscellaneous non-metallic minerals. By H. S. de Schmid.
Investigation of sand areas of Quebec. By L. H. Cole.
Bituminous sands of northern Alberta. By S. C. Ells.
Building and ornamental stones of Prairie Provinces. By W. A. Parks.
Report of Ore Dressing and Metallurgical Division. By G. C. Mackenzie.
Electro-plating with cobalt. By H. T. Kalmus.
Chemical laboratories of Fuel Testing Station. By E. Stansfield.
Investigation of peat bogs, 1914. By A. Anrep.
Report on mechanical work done at Fuel Testing Station, 1914. By A. W. Mantle.
Chemical Laboratory, Sussex St. By F. G. Wait.
Report of Division of Mineral Resources and Statistics, 1914. By John McLeish.
Report of investigation of Hillcrest Mine disaster. By J. G. S. Hudson.
Appendix I. Preliminary report on mineral production of Canada, 1914. By John McLeish.
Appendix II. Explosives Act. 4-5, George V.
- (E) *351. Investigation of the peat bogs and the peat industry of Canada,
(F) *352. 1913-14. (Bulletin No. 11.) 185 pp., 92 pls., 66 figs., 30 maps—Nos. 354 to 383 inclusive. By A. Anrep.
- (E) 384. Annual report on the mineral production of Canada during the
(F) *415. calendar year 1914. 362 pp. By John McLeish.
- NOTE.—The following parts were separately printed and issued in advance of the Annual Report for 1914.
348. Coal and coke.
*349. Iron and steel.
*350. Copper, gold, lead, nickel, silver, zinc, and other metals.
383. Cement, lime, clay products, stone, and other structural materials.
- (E) 385. Investigation of a reported discovery of phosphate at Banff,
(F) 386. Alberta. (Bulletin No. 12.) 38 pp., 12 pls., 1 fig., 1 map—No. 387. By H. S. de Schmid, 1916.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

388. The building and ornamental stones of Canada: Vol. IV, Manitoba, Saskatchewan, and Alberta. 333 pp., 56 pls., 6 figs., 1 map (not marked). By W. A. Parks, 1917.
- (E) 396. Phosphate in Canada. 156 pp., 32 pls., 12 figs., 2 maps—Nos.
(F) 397. 398, 399—11 maps not marked. By H. S. Spence, 1921 (marked 1920).
- (E) 401. Feldspar in Canada. 125 pp., 22 pls., 12 figs., 2 maps—Nos.
(F) *402. 403 and 404. By H. S. de Schmid, 1916.
406. Description of the laboratories of the Mines Branch of the Department of Mines. (Bulletin No. 13.) 51 pp., 60 pls., 12 figs., 1916.
408. Preliminary report on the mineral production of Canada, 1915. By John McLeish.
- (E) 411. Researches on cobalt and cobalt alloys, conducted at Queen's University, Kingston, Ontario, for the Mines Branch of the Department of Mines. (See also Nos. 259, 309, 334, and 413.)
(F) *412. Part IV—Cobalt alloys with non-corrosive properties. 37 pp., 31 pls., 50 figs. By H. T. Kalmus and K. B. Blake, 1916.
- (E) 413. Researches on cobalt and cobalt alloys, conducted at Queen's University, Kingston, Ontario, for the Mines Branch of the Department of Mines. (See also Nos. 259, 309, 334, and 411.)
(F) 414. Part V—Magnetic properties of cobalt and of Fe₂Co. 18 pp., 1 pl., 13 figs. By H. T. Kalmus and K. B. Blake, 1916.
- (E) 421. Summary report of the Mines Branch for the calendar year ending
(F) *422. December 31, 1915. 213 pp., 13 pls., 3 figs.
Director's general report. By Eugene Haanel.
Possibility of producing refined copper in Canada. By A. W. G. Wilson.
Mining antimony ores in Canada. By A. W. G. Wilson.
Investigation of iron ores. By A. H. A. Robinson.
Limestones of the province of Quebec. By Howells Fréchette.
Investigation of miscellaneous non-metallic minerals. By H. S. de Schmid.
Building and ornamental stones of Saskatchewan and Alberta. By W. A. Parks.
Progress report for 1915 of Ore Dressing and Metallurgical Division. By G. C. Mackenzie.
List of ores tested. By G. C. Mackenzie.
Descriptions of several properties and tests made. (Molybdenite and iron ores.) By G. C. Mackenzie, W. B. Timm, and C. S. Parsons.
Work at Fuel Testing Station, 1915. By B. F. Haanel.
Work of chemical laboratories of Fuel Testing Station, 1915. By E. Stansfield.
Investigation of peat bogs, 1915. By A. Anrep.
The clays of southern Saskatchewan. By N. B. Davis.
Work done by the chemical laboratory, Division of Chemistry, 1915. By F. G. Wait.
Report of Division of Mineral Resources and Statistics, 1915. By John McLeish.
Description of Ceramics Laboratory and equipment. By J. Keele.
Testing of clays and shales. By J. Keele.
Notes on the industrial values of the clay and shale deposits in the Moncton map area, New Brunswick. By J. Keele.
Work of Explosives Division, 1915. By J. G. S. Hudson.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

Explosion at the Reserve mine, Western Fuel Company, Nanaimo, B.C. By J. G. S. Hudson.
Appendix. Preliminary report on the mineral production, 1915.
By John McLeish.

- (E) 426. Annual report on the mineral production of Canada during the
(F) *427. calendar year 1915. 364 pp. By John McLeish.

NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1915.*

419. Iron and steel.
420. Coal and coke.
423. Cement, lime, clay products, stone, and other structural materials.
424. A general summary of the mineral production.
425. Copper, gold, lead, nickel, silver, zinc, and other metals.
428. The production of spelter in Canada. 60 pp. By A. W. G. Wilson, 1916.
430. The coal-fields and coal industry of eastern Canada; a general survey and description. (Bulletin No. 14.) 62 pp., 26 pls., 1 fig., 1 map—No. 434. By Francis W. Gray, 1917.
432. The mining of thin-coal seams as applied to the eastern coal-fields of Canada. (Bulletin No. 15.) 132 pp., 1 pl., 61 figs., 1 map—No. 434. By J. F. Kellock Brown, 1917.
435. Mineral springs of Canada. Part I: The radioactivity of some Canadian mineral springs. (Bulletin No. 16.) 60 pp., 23 pls., 5 figs., 1 map—No. 437. By J. Satterly and R. T. Elworthy, 1917. Appendices: I—Bibliography of the radioactivity of springs; II—Table of equivalent Centigrade and Fahrenheit temperatures.
447. The value of peat fuel for the generation of steam. (Bulletin No. 17.) 42 pp., 1 pl., 5 figs., 6 charts. By John Blizard, 1917.
*449. Preliminary report on the mineral production of Canada. 1916. By John McLeish.
452. Report on the building and ornamental stones of Canada: Vol. V, British Columbia. 236 pp., 47 pls., 3 figs. By W. A. Parks, 1917. Appendices: I—6 tables; II—Production of stone in British Columbia in 1913, 1914, and 1915; III—Production of stone by classes in British Columbia in 1913, 1914, and 1915; IV—Production of stone in Canada by provinces in 1915; V—Reference list by numbers to the stones described in this report.
(E) 454. Summary report of the Mines Branch for the calendar year 1916.
(F) 455. 183 pp., 14 pls., 10 figs.
Director's general report. By Eugene Haanel.
Investigation of iron ores. By A. H. A. Robinson.
Separation of lime from Grenville magnesite: and other work of Non-metalliferous Division, 1916. By Howells Fréchet.
A reconnaissance for phosphate in the Rocky mountains; and for graphite near Cranbrook, B.C. By H. S. de Schmid.
Investigation of the sands and sandstones of Canada. By L. H. Cole.
The occurrence and testing of foundry moulding sands. By L. H. Cole.
Investigation of bituminous sands of northern Alberta. By S. C. Ellis.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Building and ornamental stones of British Columbia. By W. A. Parks.
- Work at the Fuel Testing Station, 1916. By B. F. Haanel.
- Work of chemical laboratories of Fuel Testing Station, 1916. By E. Stansfield.
- Specifications for the purchase of oil. By E. Stansfield and Victor F. Murray.
- The Hoffmann potash test. By J. H. H. Nicolls.
- Notes on the errors caused by the erosion of an iron ball mill. By R. C. Cantelo.
- Oil-burette for fractional distillation and specific gravity determination. By Victor F. Murray.
- Automatic regulator for electric water-still. By Victor F. Murray.
- Nitrogen distillation apparatus. By Victor F. Murray.
- Investigation of peat bogs, 1916. By A. Anrep.
- Report of mechanical work done at Fuel Testing Station, 1916. By A. W. Mantle.
- Progress report of Ore Dressing and Metallurgical Division. By G. C. Mackenzie.
- Report on the chemical laboratory of Ore Dressing Division. By H. C. Mabee.
- Field investigation of clay and shale resources. By J. Keele.
- Apatite: a substitute for bone ash in the manufacture of bone china. By J. Keele.
- Refractory materials in Canada. By J. Keele.
- Tests on clays and shales from Pembina mountains in southern Manitoba. By J. Keele.
- Clay investigation in southern Saskatchewan. By N. B. Davis.
- Work of chemical laboratory of the Division of Chemistry, 1916. By F. G. Wait.
- Report of Division of Mineral Resources and Statistics, 1916. By John McLeish.
- Field work of Division of Mineral Resources and Statistics, 1916. By A. Buisson.
- Appendix. Preliminary report on the mineral production of Canada, 1916. By John McLeish.
- 466.** Test of some Canadian sandstones to determine their suitability as pulpstones. (Bulletin No. 19.) 16 pp., 6 pls., 4 figs. By L. H. Cole, 1917.
- 468.** Report on the clay resources of southern Saskatchewan. 93 pp., 21 pls., 1 fig., 2 maps—Nos. 468a and 469. By N. B. Davis. 1918.
- *472.** Mineral springs of Canada, Part II: The chemical character of some Canadian mineral springs. (Bulletin No. 20.) 173 pp., 10 pls., 2 figs. By R. T. Elworthy, 1918.
- (E) 474.** Annual report on the mineral production of Canada during the
- (F) 475.** calendar year 1916. 343 pp. By John McLeish.
- NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1916.*
- 458.** Iron and steel.
- 465.** Coal and coke.
- 470.** Cement, lime, clay products, stone, and other structural materials.
- 471.** Copper, gold, lead, nickel, silver, zinc, and other metals.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- *476. Occurrence and testing of foundry moulding sands. (Being reprint of a report appearing in the annual summary report of the Mines Branch for the year ending December 31, 1916.) (Bulletin No. 21.) 17 pp., 3 pls., 2 figs. By L. H. Cole, 1917.
- *478. Preliminary report on the mineral production of Canada, 1917. By John McLeish.
- *479. Analyses of Canadian fuels, Part I: Maritime Provinces. (Bulletin No. 22.) 28 pp. Compiled by E. Stansfield and J. H. H. Nicolls, 1918.
480. Analyses of Canadian fuels, Part II: Quebec and Ontario. (Bulletin No. 23.) 25 pp. Compiled by E. Stansfield and J. H. H. Nicolls, 1918.
- *481. Analyses of Canadian fuels, Part III: Manitoba and Saskatchewan. (Bulletin No. 24.) 15 pp. Compiled by E. Stansfield and J. H. H. Nicolls, 1918.
482. Analyses of Canadian fuels, Part IV: Alberta and Northwest Territories. (Bulletin No. 25.) 77 pp. Compiled by E. Stansfield and J. H. H. Nicolls. Appendices: A—Distillation tests of crude petroleum and its products; B—Classification of the products of oil distillation. First edition, 1918. Second edition, 1921.
483. Analyses of Canadian fuels, Part V: British Columbia and Yukon Territory. (Bulletin No. 26.) 24 pp. Compiled by E. Stansfield and J. H. H. Nicolls, 1918.
- (E) 493. Summary report of the Mines Branch of the Department of Mines for the calendar year ending December 31, 1917. 153 pp., 4 figs.
- (F) 494. Director's general report. By Eugene Haanel.
Investigation of iron ores. By A. H. A. Robinson.
Limestones of Ontario. By Howells Fréchette.
The Canadian graphite industry. By H. S. Spence.
Investigation of certain sand and sandstone deposits. By L. H. Cole.
Work at the Fuel Testing Station, 1917. By B. F. Haanel.
Work of chemical laboratories of the Fuel Testing Station, 1917. By E. Stansfield.
Investigation of peat bogs. By A. Anrep.
Report of progress of Ore Dressing and Metallurgical Division, 1917. By G. C. Mackenzie.
List of ores tested and reports thereon, 1917. By W. B. Timm and C. S. Parsons.
Report of chemical laboratory of Ore Dressing and Metallurgical Division. By H. C. Mabee.
Investigation of clay and shale resources. By J. Keele.
Pottery clays. By J. Keele.
Magnesite. By J. Keele.
Silica. By J. Keele.
Tests of samples of bedrock. By K. A. Clark.
Comparison of the Road Materials Laboratories with other laboratories. By K. A. Clark.
Investigational work on the sampling and testing of bedrock. By K. A. Clark.
Sampling and testing of fieldstone. By K. A. Clark.
Special series of tests on bedrock collected from the quarries in the city of Montreal. By K. A. Clark.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

Work of Division of Chemistry. By F. G. Wait.
 Report of Division of Mineral Resources and Statistics, 1917.
 By John McLeish.

496. Results of forty-one steaming tests conducted at the Fuel Testing Station, Ottawa. (Bulletin No. 27.) 83 pp., 11 figs., 41 charts. By John Blizard and E. S. Malloch, 1920.
502. The economic use of coal for steam-raising and house-heating. (Bulletin No. 28.) 21 pp. By J. Blizard, 1919.
- (E) *504. Annual report on the mineral production of Canada during the
 (F) *505. calendar year 1917. 258 pp. By John McLeish.
- NOTE.—*The following parts were separately printed and issued in advance of the Annual Report for 1917.*
497. Copper, gold, lead, nickel, silver, zinc, and other metals.
498. Iron and steel.
499. General summary of the mineral production.
500. Cement, lime, clay products, stone, and other structural materials.
501. Coal and coke.
- *506. Preliminary report on the mineral production of Canada, 1918.
 By John McLeish.
- *507. Potash recovery at cement plants. (Bulletin No. 29.) 34 pp.,
 10 pls., 4 tables. By A. W. G. Wilson, 1919.
- (E) *509. Summary report of the Mines Branch of the Department of Mines
 (F) *510. for the calendar year ending December 31, 1918. 225 pp.,
 6 figs., 9 diagrams.
- Director's general report. By Eugene Haanel.
- Investigation of pyrites resources. By A. H. A. Robinson.
- Limestones of Ontario and Quebec. By Howells Fréchette.
- Investigation of graphlite and the graphite industry; mica for condenser plates. By H. S. Spence.
- Preliminary report on the silica deposits of eastern Canada.
 By L. H. Cole.
- Preliminary notes on the moulding sand deposits of eastern Canada.
 By L. H. Cole.
- Building stones of Wolfe River district east of Port Arthur.
 By L. H. Cole.
- Notes on a discovery of rock salt at Malagash, Nova Scotia.
 By L. H. Cole.
- Work at the Fuel Testing Station, 1918. By B. F. Haanel.
- Report on test of New Brunswick oil shales in the Wallace retort.
 By B. F. Haanel.
- Work of chemical laboratories of Fuel Testing Station, 1918.
 By E. Stansfield.
- Lignite carbonization. By E. Stansfield and R. E. Gilmore.
- Mechanical work at Fuel Testing Station. By A. W. Mantle.
- Progress report of Ore Dressing and Metallurgical Division.
 By G. C. Mackenzie.
- List of ores tested and reports thereon. By W. B. Timm and
 C. S. Parsons.
- Report of work of chemical laboratory of Ore Dressing and
 Metallurgical Division. By H. C. Mabee.
- Report of Ceramics Division: investigation of clay and shale
 resources of British Columbia, and of eastern and northern
 Ontario. By J. Keele.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Report of Road Materials Division: tests on bedrock, gravel, soil samples, and weathered rock. By K. A. Clark.
 Alberta bituminous sands for rural roads. By G. C. Parker.
 Work of Division of Chemistry, 1918. By F. G. Wait.
 Report of Division of Mineral Resources and Statistics, 1918.
 By John McLeish.
- (E) *511. Graphite. 202 pp., 56 pls., 43 figs., 6 maps—Nos. 513, 514, 515,
 (F) *512. 516, 517, and 518. By H. S. Spence. Appendix: Bibliography of Canadian graphite, 1920.
519. Smelter treatment rates. Report of the Committee of Investigation in the matter of tolls charged by the Consolidated Mining & Smelting Company of Canada, Limited, at Trail, British Columbia, June, 1919. (Bulletin No. 30.) 45 pp., 8 figs. Appendix: Schedule "C": lead ores, Consolidated Mining & Smelting Company of Canada, Ltd., 1919.
- (E) 520. Annual report on the mineral production of Canada during the
 (F) 521. calendar year 1918. 80 pp. By John McLeish.
522. Report on some sources of helium in the British Empire. (Bulletin No. 31.) 72 pp., 1 pl., 20 figs., 4 maps—Nos. 523, 524, 525, and 526. By J. C. McLennan and associates. Appendix: Gas density balance, 1920.
527. The production of copper, gold, lead, nickel, silver, zinc, and other metals in Canada during the calendar year 1918. 74 pp. By John McLeish.
528. The production of coal and coke in Canada during the calendar year 1918. 40 pp. By John McLeish.
529. The production of iron and steel in Canada during the calendar year 1918. 36 pp. By John McLeish.
530. Report on road materials along the St. Lawrence river from the Quebec boundary line to Cardinal, Ontario. (Bulletin No. 32.) 65 pp., 6 pls., 1 map—No. 532. By R. H. Picher. Appendices: I—Rock outcrops; II—Character of boulder deposits or field stone; III—Character of gravel deposits; IV—Commercial development of gravel deposits, 1920.
533. Preliminary report on the mineral production of Canada during the calendar year 1919. By John McLeish.
- (E) 542. Summary report of the Mines Branch of the Department of Mines
 (F) 543. for the calendar year ending December 31, 1919. 182 pp., 2 figs., 5 diagrams.
 Director's general report. By Eugene Haanel.
 Progress report of Metalliferous Mines Division. By A. W. G. Wilson.
 Investigation of iron ore deposits in northern Ontario. By A. H. A. Robinson.
 Iron oxide pigments in the province of Quebec. By Howells Fréchette.
 Investigation of miscellaneous non-metallic minerals. By H. S. Spence.
 Work at the Fuel Testing Station, 1919. By B. F. Haanel.
 Work of chemical laboratories of the Fuel Testing Station, 1919. By E. Stansfield.
 Lignite carbonization. By E. Stansfield and R. E. Gilmore.
 Report of peat committee for year ending December 31, 1919. By B. F. Haanel.

Publications marked thus () are out of print.

Note.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Progress report of Ore Dressing and Metallurgical Division.
By W. B. Timm.
- List of ores tested, and detailed particulars of concentration and separation tests. By W. B. Timm and R. K. Carnochan.
- Report of chemical laboratory of Ore Dressing and Metallurgical Division. By H. C. Mabee.
- Report of Ceramics Division: detailed reports on residual clays in British Columbia.
- Clays and shales in vicinity of Fort William and Port Arthur. Kaolin in Gatineau valley. By J. Keele.
- Aluminium and its sources. By R. T. Elworthy.
- Structural materials in Dundas, Stormont, and Glengarry counties, eastern Ontario. By J. Keele and L. H. Cole.
- Pottery clays. By M. E. Young.
- Road materials and soil conditions in the area between Winnipeg and Brandon, Manitoba. By K. A. Clark.
- Road materials in Rocky Mountains Park, Alberta. By K. A. Clark.
- Road materials investigation in Chateauguy and Beauharnois counties, Quebec, from Morrisburg, Ontario, along the St. Lawrence river to the Quebec boundary, and in the neighbourhood of Renfrew, Ont. By H. Gauthier.
544. The production of iron and steel in Canada during the calendar year 1919. 45 pp. By John McLeish.
- (E) *545. Annual report on the mineral production of Canada during the calendar year 1919. 82 pp. By John McLeish.
- (F) *546. The production of copper, gold, lead, nickel, silver, zinc, and other metals in Canada during the calendar year 1919. 76 pp. By John McLeish.
547. The production of copper, gold, lead, nickel, silver, zinc, and other metals in Canada during the calendar year 1919. 76 pp. By John McLeish.
548. The production of coal and coke in Canada during the calendar year 1919. 39 pp. By John McLeish.
- (E) 549. Report on structural materials along the St. Lawrence river between Prescott, Ontario, and Lachine, Quebec. 119 pp., 30 photographs, 5 figs., 3 maps—Nos. 551, 552, and 553 inclusive. By J. Keele and L. H. Cole. Appendices: A—Pleistocene and recent fossils of the St. Lawrence valley, from Prescott to Beauharnois. By E. J. Whittaker. B—Ordovician fossils from St. Lawrence canal system localities, Ontario and Quebec. Collected by L. H. Cole and J. Keele; identified by Alice E. Wilson, 1922.
- (F) 550. Report on structural materials along the St. Lawrence river between Prescott, Ontario, and Lachine, Quebec. 119 pp., 30 photographs, 5 figs., 3 maps—Nos. 551, 552, and 553 inclusive. By J. Keele and L. H. Cole. Appendices: A—Pleistocene and recent fossils of the St. Lawrence valley, from Prescott to Beauharnois. By E. J. Whittaker. B—Ordovician fossils from St. Lawrence canal system localities, Ontario and Quebec. Collected by L. H. Cole and J. Keele; identified by Alice E. Wilson, 1922.
554. Preliminary report on the mineral production of Canada during the calendar year 1920. By John McLeish.
555. Silica in Canada: its occurrence, exploitation, and uses. Part I—Eastern Canada. 126 pp., 15 pls., 16 figs., 7 maps—Nos. 557, 558, 559, 560, 561, 562, and 563. By L. Heber Cole, 1923. (See also No. 686.)
564. The preparation, transportation, and combustion of powdered coal. 131 pp., 3 pls., 39 figs. By J. Blizard. Appendix: Boiler tests with pulverized coal. By Henry Kreisinger, Milwaukee, Wis., and J. Blizard, Pittsburgh, Pa., 1921.
565. Gas producer trials with Alberta coals. (Supplementing No. 331.) (Bulletin No. 33.)¹ 40 pp., 1 fig., 18 charts. By J. Blizard and E. S. Malloch, 1921.

Publications marked thus () are out of print.

¹No further Mines Branch reports were numbered as bulletins.

Noz.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

566. The production of copper, gold, nickel, silver, zinc, and other metals during the calendar year 1920. 76 pp. By John McLeish.
567. The production of coal and coke in Canada during the calendar year 1920. 36 pp. By John McLeish.
- (E) 568. Annual report on the mineral production of Canada during the
(F) 569. calendar year 1920. 80 pp. By John McLeish.
570. Barium and strontium in Canada. 100 pp., 15 pls., 18 figs. By H. S. Spence, 1922.
- (E) 574. Summary report of investigations made by the Mines Branch during
(F) 573. the calendar year ending December 31, 1920. 87 pp., 7 figs.
Development of chemical and metallurgical industries in
Canada. By A. W. G. Wilson.
Mineral pigments in eastern Canada. By Howells Fréchette.
Investigation of miscellaneous non-metallic minerals. By H. S. Spence.
Alkali deposits of western Canada. By L. H. Cole.
Bituminous sands of Alberta. By S. C. Ells.
Report of Ore Dressing and Metallurgical Division: ores tested,
and reports thereon. By W. B. Timm and R. K. Carnochan.
Carbonization of peat. By E. Stansfield and J. H. H. Nicolls.
Notes on the Hoffmann potash test. By J. H. H. Nicolls.
Trent process for purifying coal high in ash. By B. F. Haanel.
Report of Ceramics Division: Testing of brick and fireclays
from the various provinces; pottery clays; clay working
industry; field examination and clay testing; practical
instructions as to sampling; laboratory tests; testing under
working conditions. By J. Keele.
Road material survey along Gananoque-Napanee section of the
Toronto-Montreal highway, Ontario. By H. Gauthier.
Road materials in Nova Scotia. By H. Gauthier.
Appendix: Preliminary report on the investigation of the
manufacture of peat fuel, conducted by the Joint Peat
Committee of the Federal Government and the Govern-
ment of Ontario: up to December 30, 1920; together with a
statement of the plans, and outline of the work to be done,
during the year 1921. By B. F. Haanel.

*NOTE.—The following parts of this report were separately printed and were issued concurrently.

575. Investigations in 1920: Mineral Resources and Technology. (pp. 5-22.)

576. Investigations in 1920: Ore Dressing and Metallurgy. (pp. 23-38.)

577. Investigations in 1920: Fuels and Fuel Testing. (pp. 39-54)
(pp. 76-81—contains appendix.)

578. Investigations in 1920: Ceramics and Road Materials. (pp. 55-75.)

579. Titanium. 127 pp., 5 figs., 2 maps—Nos. 581 and 582. By A. H. A. Robinson, 1922.

583. Talc and soapstone in Canada. 85 pp., 2 pls., 15 figs., 1 map—No. 585. By H. S. Spence, 1922.

Publications marked thus () are out of print.

¹Since 1920, reports on the mineral production in Canada have been published by the Mining, Metallurgical and Chemical Branch, Dominion Bureau of Statistics, and applications for these reports should be addressed to the Dominion Statistician, Ottawa, Ont.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

586. Summary report of investigations made by the Mines Branch during the calendar year ending December 31, 1921. 346 pp., 20 pls., 15 figs., 21 diagrams.
- Amber from Coalmont, B.C. By A. W. G. Wilson.
- The iron industry of British Columbia and Ontario. By A. H. A. Robinson.
- Iron oxide pigments in Ontario. By Howells Fréchette.
- Investigation of miscellaneous non-metallic minerals. By H. S. Spence.
- Alkali deposits of western Canada. By L. H. Cole and F. M. MacNiven.
- Cretaceous shales of Manitoba and Saskatchewan as a possible source of crude petroleum. By S. C. Ells.
- Oil shales of Canada. By S. C. Ells.
- Chemical products from natural gas. By R. T. Elworthy.
- The possibility of producing methanol (methyl alcohol) and formaldehyde from natural gas. By R. T. Elworthy.
- The chemical and physical characters of bentonite. By E. A. Thompson and A. Sadler.
- Report of Ore Dressing and Metallurgical Division, 1921. By W. B. Timm and other members of the staff.
- Lignite carbonization. By J. H. H. Nicolls and Harold Kohl.
- Notes on the burning quality of kerosene oils for illuminating purposes. By P. V. Rosewarne.
- The lubricating value of cod liver oil. By P. V. Rosewarne.
- Preliminary report on the investigation of oil shales. By A. A. Swinnerton.
- Outline of work done by Ceramics Division; tests of clay from various provinces; pottery clays; kiln scum on face bricks; working stony clays for brick and tile. By J. Keele.
- Tentative method for sampling clay deposits; clay-working industry; ball clay in Saskatchewan. By J. Keele.
- Laboratory tests on road building stone; report on the investigation of a number of rock quarries and gravel deposits in Prescott and Russell counties, Ontario; road materials survey in Rocky Mountains Park; experimental abrasion test on concrete; results of physical tests upon samples of stone and gravel from Nova Scotia. By H. Gauthier.
- Appendix: Preliminary report on the investigation of peat fuel conducted by the Joint Peat Committee for the Federal Government and the Government of the Province of Ontario, January 1, 1921 to March 31, 1922, together with a statement of plans of the work to be done during the year 1922. By B. F. Haanel.

**NOTE.—The following parts of this report were separately printed and were issued concurrently.*

588. Investigations in 1921: Mineral resources and technology. (pp. 7-77.)
589. Investigations in 1921: Ore Dressing and Metallurgy. (pp. 78-204.)
590. Investigations in 1921: Fuels and Fuel Testing. (pp. 205-252, 319-338.)
591. Investigations in 1921: Ceramics and Road Materials. (pp. 253-318.)

592. Molybdenum: Metallurgy and uses; and the occurrence, mining, and concentration of its ores. 292 pp., 11 pls., 55 figs., 41 tables, 3 maps—Nos. 594, 595, and 596. By V. L. Eardley-Wilmot, 1925.

597. Development of chemical, metallurgical, and allied industries in Canada in relation to the mineral industry. 329 pp., 39 tables, 12 diagrams. By A. W. G. Wilson, 1924.

*NOTE—*This report was also published in two volumes, as follows:—*

598. Vol. I—Chemical industries.

599. Vol. II—Metallurgical and allied industries.

Separate copies of the following diagrams and charts accompanying report No. 597 (and the separate volumes—Nos. 598 and 599) are available for distribution:

Alkali industry—products, by-products, and industrial uses.

Electro-products and some of their uses.

Utilization of atmospheric nitrogen—Cyanamide process.

Chart showing some of the industrial applications of lime.

Chart showing some of the many uses of alcohol.

Chart of the hardwood distillation industry.

Products derived from coal.

Iron industry.

Industrial uses of lead.

605. Summary report on Mines Branch investigations during the calendar year ending December 31, 1922. 273 pp., 5 pls., 17 figs., 11 diagrams.

Mineral pigments (eastern Canada). By Howells Fréchette. Alkali deposits, western Canada; volcanic ash near Waldeck, Saskatchewan. By L. H. Cole.

Canadian feldspar in 1922; fluorspar in 1922; graphite in Canada, 1922; talc and soapstone in Canada, 1922; the molybdenum situation in Canada, 1922. By V. L. Eardley-Wilmot.

Bituminous sands of northern Alberta. By S. C. Eells.

Some Canadian fossil resins. By R. T. Elworthy.

A field method and apparatus for the determination by means of electrical conductivity measurements, of the character of waters leaking into oil and gas wells. By R. T. Elworthy.

Report of the Ore Dressing and Metallurgical Division, 1922. By W. B. Timm and other members of staff.

Carbonization of peat in commercial hardwood distillation ovens. By R. E. Gilmore and Harold Kohl.

Report on treatment of oil shale from New Brunswick by the Ryan oil digestion process. By A. A. Swinnerton.

Preliminary gasoline survey: analyses of gasoline samples collected in Ottawa, December, 1922. By P. V. Rosewarne.

Ceramic materials. By Howells Fréchette.

Report on investigation of road materials along the Hawk Creek-McLeod Meadows section of the Banff-Windermere highway, Rocky Mountains Park. By H. Gauthier.

Prospecting for road materials between Massive and Johnson canyon. By H. Gauthier.

Experiments for investigating the test for the crushing strength of rock. By H. Gauthier.

Road materials in Nova Scotia. By R. H. Picher.
Appendix. Interim report of the Joint Peat Committee.
By B. F. Haanel.

NOTE—*The following parts of this report were separately printed and were issued concurrently.*

607. Investigations in 1922: Mineral Resources and Technology. (pp. 7-70.)
608. Investigations in 1922: Ore Dressing and Metallurgy. (pp. 71-193.)
609. Investigations in 1922: Fuels and Fuel Testing. (pp. 194-225, 262-266.)
610. Investigations in 1922: Ceramics and Road Materials. (pp. 226-261.)
- (E) *611. The mineral industries of Canada. (British Empire Exhibition Edition.) 138 pp., 35 pls., 1 map—No. 613. Compiled by (F) *612. A. H. A. Robinson with the co-operation of the staff of the Mines Branch. First printing 1924. Second printing 1925.
- (E) 614. Facts about peat. 48 pp. By B. F. Haanel, 1924.
- (F) 615. Investigations of mineral resources and the mining industry, 1923. 616.¹ 74 pp.
Bentonite. By H. S. Spence.
Feldspar. By H. S. Spence.
Bituminous sands of northern Alberta. By S. C. Ells.
Natural abrasive materials in Canada. By V. L. Eardley-Wilmot.
Natural gas in Alberta. By R. T. Elworthy.
Sodium and magnesium salts of western Canada. By L. H. Cole.
Zinc-lead mining in British Columbia. By A. H. A. Robinson.
Canadian exposition train in France and Belgium, 1923. By A. Buisson.
- 616a. Natural gas in Alberta. (Advance section of No. 616—Investigations of mineral resources and the mining industry, 1923). 31 pp. By R. T. Elworthy.
617. Investigations in ore dressing and metallurgy, 1923. 150 pp., 3 pls., 11 figs. By W. B. Timm and associates.
618. Investigations of fuels and fuel testing, 1923. 86 pp., 2 pls., 5 figs., 7 diagrams.
The carbonization of lignite and sub-bituminous coals. By Harold Khol.
Survey of Maritime Provinces coals. By J. H. H. Nicolls.
A study of the nature of sulphur in coal and coke from the Maritime Provinces. By J. H. H. Nicolls.
Gasoline survey for 1923. By P. V. Rosewarne.
The Hartman oil shale retort. By A. A. Swinnerton.
Report on the Ramage process for oil refining. By R. E. Gilmore and P. V. Rosewarne.
619. Investigations in ceramics and road materials, 1923. 75 pp., 1 pl.
Investigation of ceramic industry; exhibit for the British Empire Exhibition; laboratory investigations. By Howells Fréchette.
Tunnel kilns. By L. P. Collin.

Publications marked thus () are out of print.

¹Since 1923 the Summary Reports of the Mines Branch have been issued in four parts as separate reports of the various divisions.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- Road materials in Ontario and Quebec, with particular reference to their relative merits, based on a study of their use. By H. Gauthier.
- Road materials in Nova Scotia and New Brunswick. By R. H. Picher.
- *624. Catalogue of Mines Branch publications. (12th-14th editions.)
625. Bituminous sands of northern Alberta. 35 pp., 6 pls. By S. C. Ells, 1924. (*See also* Nos. 632 and 684.)
- *626. Bentonite. 36 pp., 14 pls., 2 figs. By H. S. Spence. 1924.
- *627. The mining laws of Canada—a digest of Dominion and Provincial laws, 1924. 43 pp. (British Empire Exhibition edition.)
- (E) 628. Central and district heating; the possibilities of application in
- (F) 629. Canada. 79 pp., 26 figs., 4 tables. By F. A. Combe. (Dominion Fuel Board Report No. 3.) 1924.
- (E) 630. Coke as a household fuel in central Canada. 140 pp., 51 pls., 18 figs.,
- (F) 631. 24 tables. By J. L. Landt. (Dominion Fuel Board Report No. 5.) 1925.
632. Bituminous sands of northern Alberta: occurrence and economic possibilities. Report on investigations to the end of 1924. 244 pp., 43 pls., 47 figs., 6 tables, 8 maps—Nos. 633, 634, 635, 636, 637, 638, 639, and 640. Four map sections. By S. C. Ells, 1926.
641. Final report of the Peat Committee appointed by the Governments of the Dominion of Canada and the Province of Ontario. "Peat: its manufacture and uses". Published jointly by the Mines Branch, Department of Mines, Canada, and the Department of Mines, Ontario. 298 pp., 58 pls., 46 figs., 28 tables. By B. F. Haanel. Appendices: A—Investigation of drying conditions obtaining during the manufacture of peat fuel at the Alfred peat bog, by H. A. Leverin; B—Preliminary report on the relations of the maceration to the drying qualities of peat, by R. E. Gilmore; C—Manufacture of carbonized peat at Dumfries, Scotland, report by J. O. Roos of Hjelmstätter, 1926.
- (E) 642. Investigations of mineral resources and the mining industry, 1924.
- (F) 685. 118 pp., 5 pls., 7 figs.
- A review of fifteen years' progress in the production of non-metallic minerals in Canada. By members of the staff of the Mineral Resources Division.
- Titaniferous magnetite deposits of Bourget township, Chicoutimi district, Quebec. By A. H. A. Robinson.
- The goldfields of western Quebec. By W. B. Timm and A. H. A. Robinson.
- Magnesium sulphate in British Columbia. By M. F. Goudge.
- Sodium carbonate in British Columbia. By M. F. Goudge.
- Natural gas and petroleum in northern Alberta. By R. T. Elworthy.
643. Investigations in ore dressing and metallurgy, 1924. 115 pp., 6 figs., 7 tables. By W. B. Timm and associates.
644. Investigations of fuels and fuel testing, 1924. 81 pp., 4 pls., 5 figs.
- Coking experiments on coals from the Maritime Provinces. By B. F. Haanel and R. E. Gilmore.
- Friability tests on various fuels sold in Canada. By J. H. H. Nicolls.
- The effects of exposing Canadian lignite to atmospheres of different humidities. By J. H. H. Nicolls.

Publications marked thus () are out of print.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

- The examination of some lubricating oils sold in Canada. By P. V. Rosewarne.
- Gasoline survey for 1924. By P. V. Rosewarne and J. McD. Chantler.
- Report of carbonization and washing experiments on sub-bituminous coal from Coal Valley, Alberta. By R. A. Strong.
- Distillation of oil shale—comparison of laboratory methods. By A. A. Swinnerton.
645. Investigations in ceramics and road materials, 1924. 45 pp.
Ceramic industry. By Howells Fréchette.
Laboratory investigations. By Howells Fréchette.
Cost of burning brick and tile. By L. P. Collin.
Road materials: New Brunswick and Nova Scotia. By R. H. Picher.
646. Sodium sulphate of western Canada; occurrence, uses, and technology. 160 pp., 15 pls., 16 figs., 10 tables, 22 maps—Nos. 647 to 668 inclusive. By L. H. Cole, 1926.
669. Investigations of mineral resources and the mining industry, 1925. 84 pp.
Hot springs in western Canada—their radioactive and chemical properties. By R. T. Elworthy.
Natural gas in New Brunswick. By R. T. Elworthy.
The building and ornamental stone trade in Great Britain. By W. A. Parks.
Notes on zinc and lead in eastern Canada. By A. H. A. Robinson.
Lithium-bearing minerals in Canada. By L. H. Cole and V. L. Eardley-Wilmot.
The present status of the abrasive industry. By V. L. Eardley-Wilmot.
670. Investigations in ore dressing and metallurgy, 1925. 123 pp., 4 pls., 9 figs. By W. B. Timm and associates.
671. Investigations of fuels and fuel testing, 1925. 184 pp., 58 tables, 7 pls., 17 figs.
Examination of typical cokes sold in Canada as household fuels. By R. E. Gilmore, C. B. Mohr, and others. Published separately as No. 671-1.
Tests of various fuels made in a domestic hot-water boiler at the Fuel Testing Station in co-operation with the Dominion Fuel Board. By E. S. Malloch and C. E. Baltzer. Published separately as No. 671-2.
Low-temperature carbonization of bituminous coals. By R. A. Strong. Published separately as No. 671-3.
Effects of continued weathering upon the friabilities of various fuels. By J. H. H. Nicolls.
Analyses of solid fuels. By J. H. H. Nicolls. Published separately as No. 671-4.
The examination of lubricating oils after use in automobile engines. By P. V. Rosewarne.
Gasoline survey for 1925. By P. V. Rosewarne and H. McD. Chantler.
Analyses of oils and liquid fuels. By P. V. Rosewarne.
Distillation of oil shale with circulation of uncondensed gases. By A. A. Swinnerton.

672. Investigations in ceramics and road materials, 1925. 35 pp., 2 tables.
 Clay-working plants in Quebec, Nova Scotia, and New Brunswick. By L. P. Collin.
 Andalusite in Nova Scotia. By L. P. Collin.
 Causes and prevention of scumming and efflorescence. By L. P. Collin.
 Texture of ceramic materials. By J. F. McMahon.
 Road materials: eastern Ontario. By R. H. Picher.
 Gravel and gravel roads. By R. H. Picher.
- (E) 673. Abrasives: Products of Canada, technology and application.
 (F) 674. Part I, Siliceous abrasives; sandstones, quartz, tripoli, pumice, and volcanic dust. 119 pp., 14 pls., 8 figs., 16 tables. By V. L. Eardley-Wilmot, 1927.
- (E) 675. Abrasives: Products of Canada, technology and application. Part II, Corundum and diamond. 51 pp., 5 pls., 6 figs., 4 tables.
 (F) 676. By V. L. Eardley-Wilmot, 1927.
- (E) 677. Abrasives: Products of Canada, technology and application. Part III, Garnet. 69 pp., 4 pls., 19 figs., 6 tables. By V. L. Eardley-Wilmot, 1927.
 (F) 678.
679. Helium in Canada. 63 pp., 2 pls., 2 maps—Nos. 680 and 681. By R. T. Elworthy, 1926.
- (E) 682. Preliminary report on the limestones of Quebec and Ontario. 75 pp., 16 pls., 3 figs. By M. F. Goudge, 1927.
 (F) 683.
684. Use of Alberta bituminous sands for surfacing of highways. 37 pp., 4 pls., 10 figs. By S. C. Ells, 1927.
686. Silica in Canada; its occurrence, exploitation, and uses. Part II—Western Canada. 59 pp., 6 pls., 7 figs. By L. H. Cole. Appendix I—Recent developments in the silica industry in eastern Canada, 1928. (*See also* No. 555).
687. Investigations of mineral resources and the mining industry, 1926. 80 pp., 7 pls., 5 figs.
 Flotation reagents. By C. S. Parsons.
 Anthraxolite near Sudbury, Ont.; Asbestos in northern Ontario; Feldspar in the Sudbury region, Ont.; Graphite in Ontario and Quebec; Lithium minerals in southeastern Manitoba; Canadian soapstone industry. By H. S. Spence.
 Sodium carbonate at Soap lake, British Columbia. By L. H. Cole.
 Recent developments in the gypsum industry in British Columbia. By L. H. Cole.
 Manitoba as a mining province. By A. H. A. Robinson.
 The limestones of Nova Scotia and New Brunswick, preliminary report on. By M. F. Goudge.
 The limestones of Gaspé peninsula, preliminary report on. By M. F. Goudge.
 The limestones of Timiskaming district, Ontario, preliminary report on. By M. F. Goudge.
 Notes on the quicksilver occurrences in Canada. By V. L. Eardley-Wilmot.
 Notes on the occurrences, metallurgy, and uses of quicksilver. By V. L. Eardley-Wilmot.
 Granite paving blocks. By C. H. Freeman.
 The asbestos industry in Canada. By C. H. Freeman.
688. Investigations in ore dressing and metallurgy, 1926. 130 pp., 5 pls. By W. B. Timm and associates.

NOTE.—The letters (E) and (F) placed before publication numbers denote the English and French editions respectively.

689. Investigations of fuels and fuel testing, 1926. 132 pp., 7 pls., 16 figs., 41 tables.
- 689-1. Solid fuels—
 Instructions for burning coal, coke, and peat. By E. S. Malloch and C. E. Baltzer.
 Low temperature carbonization—continuation of tests on Canadian bituminous coals. By R. A. Strong.
 A study of the nature of sulphur in Canadian coal and coke. By J. H. H. Nicolls.
 Air-drying of Canadian lignite, and the re-absorption of moisture by the same. By J. H. H. Nicolls.
 Analyses of solid fuels. Compiled by J. H. H. Nicolls.
- 689-2. Liquid fuels—
 Gasoline survey for 1926. By P. V. Rosewarne and A. F. Gill.
 Report of experiments on the dehydration of bitumen emulsion from Alberta bituminous sands. By P. V. Rosewarne and G. P. Connell.
 Oil shale from Rosevale, New Brunswick. By A. A. Swinnerton.
 Report on the Pritchard process for the distillation of oil shale. By R. E. Gilmore and A. A. Swinnerton.
 Canadian oil shale, and bitumen from bituminous sands, as sources of gasoline and fuel oil, by pressure cracking. By R. E. Gilmore, P. V. Rosewarne, and A. A. Swinnerton.
690. Investigations in ceramics and road materials, 1926. 70 pp., 1 fig.
 Brick sizes in Canada. By Howells Fréchette.
 Methods of using barium for scum-prevention in stiff-mud brick. By L. P. Collin.
 Manufacture of grey brick. By L. P. Collin.
 Refractoriness of moulding sand. By J. F. McMahon.
 Kaolin and associated clays of Punk island. By L. H. Cole and J. F. McMahon.
 Commercial crushed stone, Ontario and Quebec. By R. H. Picher.
 Stone and its use in road construction. By R. H. Picher.
- *691. Diatomite: its occurrence, preparation, and uses. 182 pp., 15 pls., 31 figs., 17 tables, 1 map—No. 692. By V. L. Eardley-Wilmot, 1928.
694. Investigations of mineral resources and the mining industry, 1927. 60 pp., 11 pls., 7 figs., 8 tables.
 Bituminous sands of northern Alberta—experimental drilling and paving operations, 1927. By S. C. Ells.
695. Investigations in ore dressing and metallurgy, 1927. 186 pp., 6 pls., 1 fig. By W. B. Timm and associates.
696. Investigations of fuels and fuel testing, 1927. 107 pp., 10 pls., 9 figs., 35 tables.
- 696-1. Solid fuels—
 The use of gas and by-product cokes for domestic heating purposes. By E. S. Malloch and C. E. Baltzer.
 Coking tests on coals from western Canada. By R. E. Gilmore and R. A. Strong.
 1. Box coking tests in commercial by-product ovens.
 2. Laboratory by-product carbonization tests.

Publications marked thus () are out of print.

Low-temperature carbonization—continuation of tests on Canadian bituminous coals. By R. A. Strong.

Analyses of solid fuels. Compiled by J. H. H. Nicolls.

696-2. Liquid fuels—

Gasoline survey for 1927. By P. V. Rosewarne and R. J. Offord.

The assay of bituminous sands. By R. E. Gilmore, A. A. Swinnerton, and G. P. Connell.

1. Tentative methods for the determination of the bitumen in bituminous sands, and the sulphur content of the bitumen.

2. Carbon disulphide versus benzol as solvents in respect to sulphur in the bitumen.

3. Comparison of laboratory extraction and distillation methods for the subsequent examination of the bitumen.

697. Investigations in ceramics and road materials, 1927. 80 pp.

An investigation of the treatment of certain western clays to overcome drying defects. By Howells Fréchette and J. G. Phillips.

Preliminary report on clay gathering. By J. F. McMahon.

Clays and shales of the Grand Lake area, N.B. By Howells Fréchette.

Road materials in Prince Edward Island. By R. H. Picher.

Stone quarries in Quebec. By R. H. Picher.

The testing of non-bituminous road materials. By R. H. Picher. (Published separately as No. 697-1.)

698. Industrial fuel and power statistics, calendar year 1925. 23 pp., 12 figs. By E. S. Malloch and C. E. Baltzer.

(E) **699.** Abrasives: Products of Canada, technology and application. Part
(F) ***700.** IV: Artificial abrasives and manufactured abrasive products and their uses. 123 pp., 19 pls., 14 figs., 11 tables. By V. L. Eardley-Wilmot, 1929. (*See also* Nos. 673, 675, and 677.)

701. Mica. 142 pp., 21 pls., 1 chart, 10 figs., 16 tables, 2 maps—Nos. 703 and 704. By H. S. Spence, 1929.

705. Comparative tests of various fuels when burned in a domestic hot-water boiler. 92 pp., 5 pls., 6 charts, 6 figs., 10 tables. By E. S. Malloch and C. E. Baltzer, 1929.

706. Comparison of cost and convenience of house heating with various fuels. 8 pp., 1 fig. By E. S. Malloch, 1929.

(E) ***707.** Chrysotile asbestos in Canada. 146 pp., 34 pls., 8 figs., 6 charts.

(F) **708.** By J. G. Ross. 1931.

710. Investigations of mineral resources and the mining industry, 1928. 53 pp., 2 pls., 5 figs.

Preliminary report on the limestones of northern and western Ontario and of the Prairie Provinces. By M. F. Goudge.

Potash salts in the Maritime Provinces of Canada. By L. H. Cole.

Core drilling bituminous sands of northern Alberta. By S. C. Ellis. (Published separately as No. 710-1.)

Preliminary report on moulding sands in eastern Canada. By C. H. Freeman.

711. Investigations in ore dressing and metallurgy, 1928. 166 pp., 7 figs. By W. B. Timm and associates.

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- 712.** Investigations of fuels and fuel testing, 1928. 71 pp., 2 pls., 4 figs.
 Preliminary carbonization and briquetting tests on lignite from northern Ontario. By R. A. Strong.
 Report on oil-shale from Pictou county, Nova Scotia. By A. A. Swinnerton.
 Laboratory notes. By J. H. H. Nicolls.
 (1) Under-water storage of Saskatchewan lignite.
 (2) Effects of prolonged weathering on the friabilities of certain coals.
 (3) Observations concerning organic and other forms of sulphur in coals containing large amounts of sulphur.
 Analyses of coals and other solid fuels. Compiled by J. H. H. Nicolls and C. B. Mohr.
 Gasoline survey for 1928. By P. V. Rosewarne and R. J. Offord.
- 713.** Mining laws of Canada. (Revised edition.) By A. Buisson, 1931.
- 714.** The gypsum industry of Canada. 164 pp., 20 pls., 23 figs., 5 tables, 1 map—No. 715. By L. H. Cole, 1930.
- 716.** The salt industry of Canada. 116 pp., 15 pls., 31 figs., 13 tables, 2 maps—Nos. 717 and 718. By L. H. Cole, 1930.
- 719.** Investigations of mineral resources and the mining industry, 1929. 69 pp., 5 pls., 7 figs.
 The Wilberforce radium occurrence. By H. S. Spence and R. K. Carnochan.
 Notes on anhydrite. By L. H. Cole and R. A. Rogers.
 Bituminous sands of northern Alberta—operations during 1929. By S. C. Ells.
 Limestone in industry. By M. F. Goudge.
 Preliminary report on the limestones of British Columbia. By M. F. Goudge.
- 720.** Investigations in ore dressing and metallurgy, 1929. 208 pp., 1 pl., 3 figs. By W. B. Timm and associates.
- 721.** Investigations of fuels and fuel testing, 1929. 131 pp., 8 pls., 8 figs.
 Report of tests on Sydney coal in the Illingworth low-temperature carbonization retort. By R. A. Strong and E. J. Burrough. (Published separately as No. 721-1.)
 Notes on methods for the laboratory assay of coals for carbonization and coking properties. By R. E. Gilmore.
 (1) Comparison of low-temperature carbonization results by the "lead bath" and the Gray-King methods.
 (2) Relation of caking indices and agglutinating values of coals to their laboratory and plant scale coking properties.
 Caking indices of typical Canadian coking coals. By J. H. H. Nicolls.
 Analyses of coals and other solid fuels. Compiled by J. H. H. Nicolls and C. B. Mohr.
 Gasoline survey for 1929. By P. V. Rosewarne and H. McD. Chantler. (Published separately as No. 721-2.)
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- 724.** Investigations in ore dressing and metallurgy, 1930. 215 pp., 1 pl. By W. B. Timm and associates.
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 Analyses of natural gas during 1930 and 1931. By P. V. Rosewarne and R. J. Offord. (Published separately in No. 725-5.)
 Weathering of crude naphtha in Turner Valley. By P. V. Rosewarne and W. P. Campbell. (Published separately in No. 725-5.)

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- Experiments on the hydrogenation of Alberta bitumen and on the effect of pressure on the pyrolysis of methane. By T. E. Warren. (Published separately as No. 725-1, and also in No. 725-5.)
- (1) Hydrogenation and pressure-cracking experiments on Alberta bitumen for the production of motor fuel.
 - (2) The effect of pressure on the pyrolysis of methane.
- Report on oil shales from New Glasgow area, Pictou county, Nova Scotia, and from Port Daniel, Bonaventure county, Quebec. By A. A. Swinnerton. (Published separately in No. 725-5.)
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- Road gravels in Quebec. By R. H. Picher.
- *727.** Investigations of mineral resources and the mining industry, 1931. 153 pp., 36 pls., 7 figs.
- The suitability of certain Canadian sands for use in sand-blasting. By L. H. Cole, R. K. Carnochan, and W. E. Brissenden. (Published separately as No. 727-1.*)
- Helium in Canada from 1926 to 1931. By P. V. Rosewarne and R. J. Offord. (Published separately as No. 727-2.)
- The pitchblende and silver discoveries at Great Bear Lake, Northwest Territories. By H. S. Spence. (Published separately as No. 727-3.)
- (a) Radium-bearing minerals from Great Bear Lake, Northwest Territories.
 - (b) Occurrences of pitchblende and silver ores at Great Bear Lake, Northwest Territories.
 - (c) Final report on field investigations during 1931, in LaBine Point area, Northwest Territories.
- Raw materials for the manufacture of rock wool in the Niagara peninsula, Ontario. By M. F. Goudge.
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- 729.** The clay and shale resources of Turner Valley and nearby districts. 126 pp., 8 pls., 29 figs. By W. G. Worcester, 1932.

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- 730.** Gold in Canada. 1932. 92 pp., 8 figs. By A. H. A. Robinson.
- 731.** Feldspar. 145 pp., 13 pls., 23 figs. By H. S. Spence, 1932.
- 732.** Anhydrite in Canada: occurrence, properties, and utilization. 89 pp., 5 pls., 9 figs. By L. H. Cole and R. A. Rogers, 1933.
- (E) **733.** Canadian limestones for building purposes. 196 pp., 40 pls., 11
- (F) **778.** figs. By M. F. Goudge, 1933.
- ***734.** Gold in Canada, 1933. 92 pp., 8 figs. By A. H. A. Robinson.
- 735.** Investigations of mineral resources and the mining industry, 1932. 31 pp., 1 pl., 5 figs.
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- 736.** Investigations in ore dressing and metallurgy, 1932. 287 pp., 2 pls., 14 figs. By W. B. Timm and associates.
- 737.** Investigations of fuels and fuel testing, 1932. 155 pp., 7 pls., 10 figs., 8 charts.
General review of investigations. By B. F. Haanel and R. E. Gilmore.
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Gasoline survey for 1932. By H. McD. Chantler.
- (E) **738.** Mineral industries of Canada, 1933. 116 pp., 34 pls., 1 map—
- (F) **739.** No. 702.
- 742.** Limestones of Canada, Part II: Maritime Provinces. 186 pp., 29 pls., 12 figs., 2 maps—Nos. 740 and 741. By M. F. Goudge, 1934. (See also Nos. 682, 733, 755, and 781.)
- 743.** Investigations in ore dressing and metallurgy, January to June, 1933. 157 pp., 4 pls., 5 figs. By W. B. Timm and associates.
- 744.** Investigations in ore dressing and metallurgy, July to December, 1933. 194 pp. By W. B. Timm and associates.

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- *745. Petroleum fuels in Canada: deliveries for consumption, calendar years 1930-31-32. 11 pp. By J. M. Casey.
746. Gasoline survey for 1933. 21 pp., 1 fig. By H. McD. Chantler.
747. Investigations in ore dressing and metallurgy, January to June, 1934. 209 pp., 1 fig. By W. B. Timm and associates.
748. Investigations in ore dressing and metallurgy, July to December, 1934. 202 pp., 2 pls., 3 figs. By W. B. Timm and associates.
- (E) 749. Mineral industries of Canada, 1933. (Abridged.) 39 pp. By
(F) 750. A. H. A. Robinson. (*See also* No. 738.)
- (E) 751. Road gravels in Quebec. 214 pp. By R. H. Picher, 1935.
- (F) 752. 753. Analyses of coals and other solid fuels, 1932, 1933, and 1934. 58 pp. Compiled by J. H. H. Nicolls and C. B. Mohr.
754. A study of clay winning and its costs in the provinces of Ontario and Quebec. 90 pp., 19 pls., 3 figs. By J. F. McMahon, 1935.
- (E) 755. Limestones of Canada, their occurrence and characteristics, Part
(F) 758. III: Quebec. 274 pp., 36 pls., 13 figs., 2 maps—Nos. 756 and 757. By M. F. Goudge, 1935. (*See also* Nos. 682, 733, 742, and 781.)
759. Petroleum fuels in Canada, deliveries for consumption, calendar year 1933. 12 pp. By J. M. Casey.
760. The Canadian mineral industry, 1934. 119 pp.
761. Wood fuel burning tests. 6 pp., 1 pl., 1 fig. By E. S. Malloch and C. E. Baltzer, 1935.
762. Coal friability tests: a comparative study of methods for determining the friability of coal, and suggestions for tumbler and drop shatter test methods. Appendices: I—Tumbler test for coal; II—Drop shatter test for coal. 102 pp., 4 pls., 9 figs. By R. E. Gilmore, J. H. H. Nicolls, and G. P. Connell, 1935.
763. Investigations in ore dressing and metallurgy, January to June, 1935. 237 pp., 1 pl. By W. B. Timm and associates.
764. Gasoline survey for 1934. 22 pp., 1 fig. By H. McD. Chantler.
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- (E) 767. Natural bonded moulding sands of Canada. 144 pp., 11 pls.,
(F) 768. 7 figs. By C. H. Freeman, 1936.
- (E) 769. Gold in Canada, 1935. 127 pp., 7 figs. By A. H. A. Robinson.
(F) 770.
771. Investigations in ore dressing and metallurgy, July to December, 1935. 235 pp. By W. B. Timm and associates.
772. Petroleum fuels in Canada, deliveries for consumption, calendar year 1934. 20 pp. By J. M. Casey.
- *773. The Canadian mineral industry, 1935. 100 pp.
774. Investigations in ore dressing and metallurgy, January to June, 1936. 186 pp., 3 pls. By W. B. Timm and associates.
775. Fuel briquetting. 95 pp., 5 pls., 2 figs. By R. A. Strong and associates, 1937.

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776. Investigations in ore dressing and metallurgy, July to December, 1936. 202 pp., 10 figs.
- *777. Catalogue and index of Mines Branch reports, 1937. 83 pp.
779. Analyses of coals and other solid fuels, 1934 to 1936. 139 pp. By J. H. H. Nicolls and C. B. Mohr.
780. Petroleum fuels in Canada, deliveries for consumption, 1935. 20 pp., 1 fig. By J. M. Casey.
781. Limestones of Canada, Part IV: Ontario. 353 pp., 46 pls., 10 figs., 2 maps—Nos. 782 and 783. By M. F. Goudge, 1938.
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- *791. The Canadian mineral industry in 1937. 99 pp.
792. Investigations in ore dressing and metallurgy, January to June 1938. 147 pp., 1 pl., 2 figs.
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794. Petroleum fuels in Canada, deliveries for consumption, 1937. 20 pp., 1 fig. By J. M. Casey.
795. The mining laws of Canada. A digest of Dominion and Provincial laws affecting mining. 110 pp. By A. Buisson, 1939.
796. Gasoline surveys for 1937 and 1938. 20 pp., 2 figs. By P. V. Rosewarne and H. McD. Chantler.
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- (E) 800. Stabilized roads. 37 pp., 3 pls., 1 fig. By R. H. Picher, 1940.
- (F) 801.
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- *804. The Canadian mineral industry in 1938. 101 pp.
805. Investigations in ore dressing and metallurgy, January to June 1939. 195 pp., 1 pl., 5 figs. By C. S. Parsons and associates.
806. Investigations in ore dressing and metallurgy, July to December 1939. 116 pp., 2 pls. By C. S. Parsons and associates.

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807. Industrial waters of Canada—report on investigations, 1934 to 1940. 112 pp., 4 figs. By H. A. Leverin, 1942.
808. Petroleum fuels in Canada—deliveries for consumption, 1927 to 1940. 31 pp. By J. M. Casey.
- (E) 809. Peat moss or sphagnum moss; its uses in agriculture, in industry, and in the home. 10 pp. By H. A. Leverin, 1943.
- (F) 810. Limestones of Canada, Part V: Western Canada. 233 pp., 40 pls., 6 figs., 2 maps—Nos. 812 and 813. By M. F. Goudge, 1946.
811. Limestones of Canada, Part V: Western Canada. 233 pp., 40 pls., 6 figs., 2 maps—Nos. 812 and 813. By M. F. Goudge, 1946.
814. Petroleum fuels in Canada, deliveries for consumption, 1940 to 1944. 25 pp. By J. M. Casey.
- *815. The Canadian mineral industry in 1944. 102 pp.
817. Peat moss deposits in Canada. 102 pp., 9 pls., 10 figs. By H. A. Leverin, 1946.
818. Catalogue and index of Bureau of Mines reports, 1946. 66 pp.

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- *1. Alkali deposits of western Canada. By L. H. Cole, 1921. (Published in Rept. No. 588, Investigations of mineral resources and technology, 1921.)
2. Oil shales of Manitoba and Saskatchewan. By S. C. Ells, 1921. (Published in Rept. No. 588, Investigations of mineral resources and technology, 1921.)
- *3. Cretaceous shales of Manitoba and Saskatchewan as a possible source of crude petroleum. By S. C. Ells, 1921. (Published in Rept. No. 588, Investigations of mineral resources and technology, 1921.)
- *4. A new source of soapstone in Ontario. April, 1922. (Published in Rept. No. 607, Investigations in mineral resources and technology, 1922.)
5. Pottery clays in Canada. By J. Keele. (Revised, 1935.)
- *6. British market for Canadian non-metallic minerals. By Hugh S. Spence, 1922.
- *7. Directory of Belgian buyers of metals and minerals. December, 1922.
- *8. Directory of British buyers of metals and minerals. December, 1922.
- *9. Investigation of the economic value of a fossil resin from British Columbia. By R. T. Elworthy, 1922. (Published in Rept. No. 607, Investigations in mineral resources and technology, 1922.)
10. Recovery of petroleum by shafts and galleries at Pechelbronn, France, and at Wietz, Germany. By Charles Camsell and Arthur Buisson, 1924.
11. Selective flotation as applied to Canadian ores. By C. S. Parsons, 1924. (Published in Rept. No. 617, Investigations in ore dressing and metallurgy, 1923.)
- *12. Work and organization of the Mines Branch. November, 1922.
- *13. Deschenes refinery of the British America Nickel Corporation. February, 1922.
- *14. List of graphite consumers in Canada.
- *15. The selective flotation of the lower grade nickeliferous pyrrhotite ores of Ontario. By W. B. Timm, 1924. (Published in Rept. No. 617, Investigations in ore dressing and metallurgy, 1923.)
- *16. Experimental tests on the beneficiation of Canadian iron ores. By W. B. Timm, 1924. (Published in Rept. No. 617, Investigations in ore dressing and metallurgy, 1923.)
17. The Lake George antimony ores and their concentration. By C. S. Parsons, 1924. (Published in Rept. No. 643, Investigations in ore dressing and metallurgy, 1924.)
- *18. Gasoline survey for 1924. January, 1925. (Published in Rept. No. 644, Investigations of fuels and fuel testing, 1924.)
19. Methods of sampling coal deliveries. February, 1925.

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20. The goldfields of western Quebec. By W. B. Timm and A. H. A. Robinson, 1925. (Published in Rept. No. 642, Investigations of mineral resources, 1924.)
21. Concentration of the lead-zinc ores of eastern Canada. By C. S. Parsons, 1925.
- *22. The concentration of Canadian molybdenite ores. By W. B. Timm and C. S. Parsons, 1925.
23. Gasoline survey for 1925. By P. V. Rosewarne and H. McD. Chantler, 1925.
- *24. Selected list of books for the brick yard office. By Howells Fréchet, 1926.
25. The concentration of flake graphite ore. By C. S. Parsons, 1926.
- *26. Ceramic testing and research laboratories, Ottawa. February, 1926.
- (E) 27. Gravel and gravel roads. By R. H. Picher, 1936.
- (F) 27a.
28. Gasoline survey for 1926. By P. V. Rosewarne and A. F. Gill, 1926.
- *29. Selective flotation as applied to Canadian ores (II). By C. S. Parsons, 1927.
30. Analyses of some samples of coke sold in Canada. May, 1927.
31. Gasoline survey for 1927. By P. V. Rosewarne and R. J. Offord, 1928.
32. The ore testing and research laboratories, Mines Branch, Ottawa. By W. B. Timm, 1928.
33. Preliminary report on an investigation of the treatment of certain western clays to overcome drying defects. By Howells Fréchet and J. G. Phillips, 1928.
34. New fuel research laboratory. 1928.
35. Gasoline survey for 1928. By P. V. Rosewarne and R. J. Offord.
36. Some coal research problems in Canada. By R. E. Gilmore, 1929.
37. Coke as a fuel for domestic purposes. By C. E. Baltzer, 1929.
38. New pyrometallurgical laboratory for test and research on iron and steel. April, 1929.
39. A story of gasoline. By P. V. Rosewarne, 1929.
40. Notes on beryllium and beryl. By Hugh S. Spence, 1930.
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42. Motor fuel survey of Alberta for 1930. By P. V. Rosewarne and H. McD. Chantler.
43. Summary report of analysis of natural gas from Turner Valley field in Alberta. By P. V. Rosewarne, 1930.
44. Ceramic Testing and Research Laboratories, Ottawa.
45. Gasoline survey for 1930. By H. McD. Chantler.
- *46. Impressions of the mineral industries of British South Africa. By W. B. Timm, 1931.
47. Advances made in recent years in the metallurgy of gold including improved processes and equipment.
48. Radium-bearing minerals from Great Bear Lake, N.W.T. By Hugh S. Spence.
49. Lubrication of the gasoline engine.
50. Raw materials for the manufacture of rock wool in the Niagara peninsula of Ontario. By M. F. Goudge.
51. Occurrences of pitchblende and silver ore at Great Bear Lake, N.W.T. By Hugh S. Spence, 1931.

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52. Status of hydrogenation of petroleum, bitumen, coal tar, and coal. January, 1932.
53. A world survey of recent oil shale developments. January, 1932.
54. The semi-direct production of nickel steel from Sudbury ore. By T. W. Hardy and H. H. Bleakney, 1932.
- *55. A classification of coal for use in the by-product coking industry. By E. J. Burrough and E. Swartzman, 1932.
56. Summary of tests on British Columbia coals when used as pulverized fuel. August, 1932.
57. Refractory clays in Canada. September, 1932.
58. The Mineragraphic Laboratory, Mines Branch. February, 1933.
59. Zinc dust consumption at Canadian gold mines. By A. Buisson, 1933.
60. Gasoline survey for 1932. By H. McD. Chantler.
61. Zinc dust consumption at Canadian gold mines (1931-1932-1933). By A. Buisson.
62. Characteristics of rock wool experimentally prepared from rock available in the St. David's-Thorold district of Ontario. By M. F. Goudge, 1934.
63. Analyses of samples of natural gas from Ontario in 1932 and 1933. By P. V. Rosewarne and R. J. Offord.
64. Industrial waters of Canada, Interim report No. 1. By H. A. Leverin, 1936.
65. Analysis of some fuel oil sold in Canada. By P. V. Rosewarne and H. McD. Chantler, 1936.
- *66. Industrial waters of Canada. Interim report No. 2. By H. A. Leverin, 1937.
67. What Canada is doing in steel. By A. W. G. Wilson, 1937.
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- *69. The concentration of Canadian molybdenite ores. By W. B. Timm, 1939.
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LISTS OF MINES AND METALLURGICAL PLANTS

The following lists of metallurgical works, milling plants, metal and non-metal mine operators, coal mine operators, etc., are published from time to time by the Bureau of Mines:—

1-1. Metallurgical works—

- I. Iron and steel.
- II. Non-ferrous and precious metals.

1-2. Milling plants—

- I. Metallic ores.
- II. Non-metallic ores.

Metal Mines:

- 2-1. Gold.
- 2-2. Silver and cobalt.
- 2-3. Copper and copper-nickel.
- 2-4. Silver-lead-zinc.
- 2-5. Iron.
- 2-6. Antimony and tungsten.
- 2-7. Molybdenum.

Non-Metal Mines:

3-1. Abrasives—

Corundum, Grindstone (sandstone), Diatomite, Garnet, Volcanic dust, Pebbles and quartz sand.

3-2. Asbestos.

3-3. Feldspar.

3-4. Graphite.

3-5. Gypsum.

3-6. Magnesium and sodium sulphates, and sodium carbonate.

3-7. Mica.

3-8. Mineral pigments—

Barite, Iron oxides, Manganese.

3-9. Quartz (silica).

3-10. Salt wells and mines in Canada.

3-11. Talc and soapstone.

3-12. Miscellaneous non-metals—

Actinolite

Apatite

Arsenic

Bentonite

Calcite

Chromite

Dolomite, crystalline

Fluorspar

Fuller's earth

Lepidolite

Magnesite

Mineral water

Natro-alunite

Phosphate

Pyrites

Strontium

Whiting.

Fuels:

- 4-1. Coal mines in Canada.
- 4-2. Coke in Canada, producers of.
- 4-3. Peat and peat moss, producers of.

- 5-1. Natural gas and petroleum wells.
- 5-2. Petroleum refineries.

6. Structural materials—

- 6-1. Cement mills.
- 6-2. Sand-lime brick plants.
- 6-3. Clay products, manufacturers of.
- 6-4. Lime kilns.
- 6-5. Sand and gravel pits.
- 6-6. Stone quarries.

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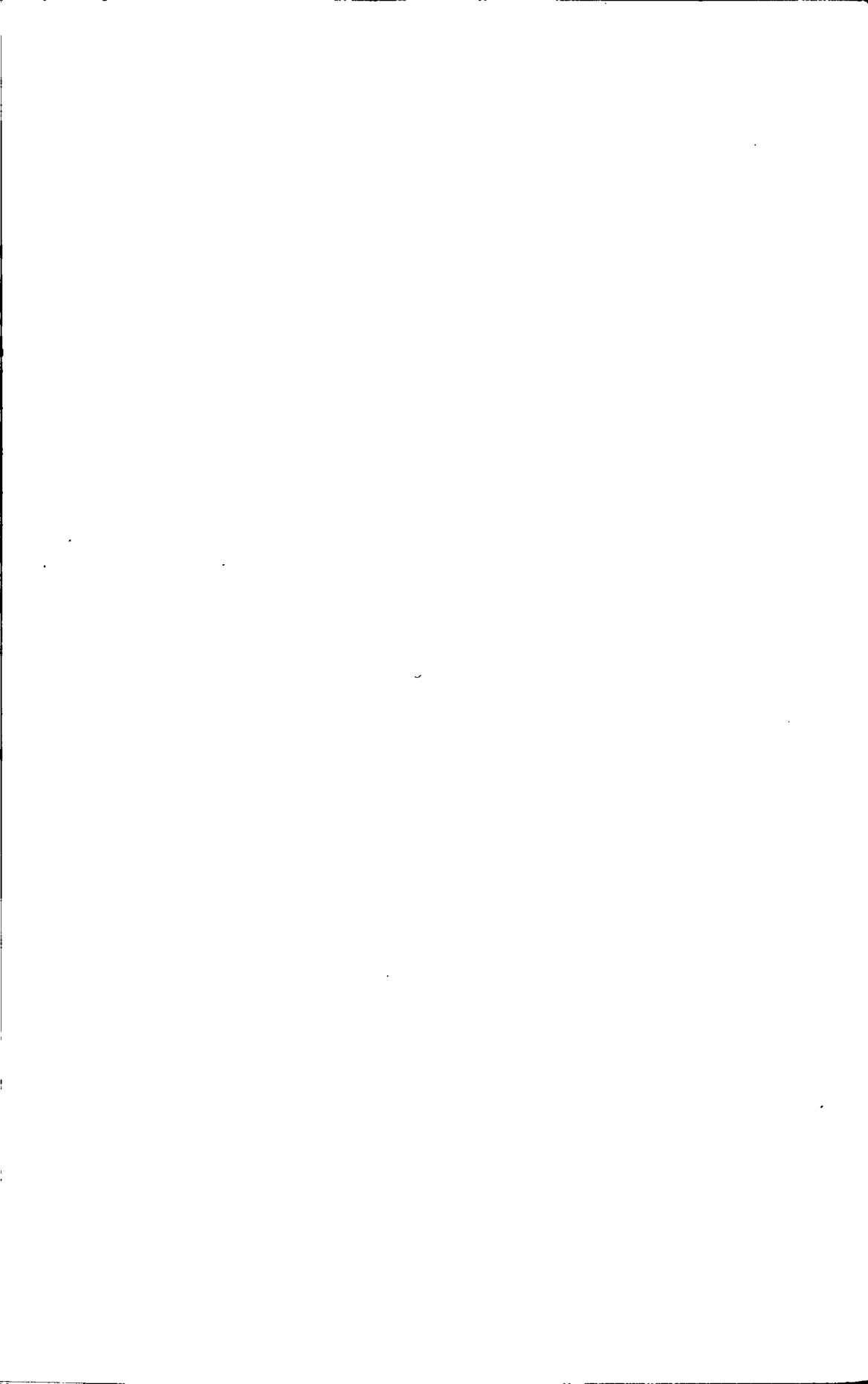
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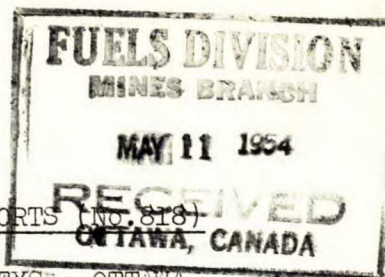


SUPPLEMENT

to

CATALOGUE AND INDEX OF MINES BRANCH REPORTS (No. 818)

DEPARTMENT OF MINES AND TECHNICAL SURVEYS - OTTAWA



(formerly Bureau of Mines, Mines & Geology Branch; Dept. of Mines & Resources)

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Mineral Resources Division
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 Ottawa, May 1954.