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Robert Bell

LIST OF PUBLICATIONS

OF THE

GEOLOGICAL SURVEY OF CANADA.

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THE PUBLICATIONS
OF THE
GEOLOGICAL SURVEY OF CANADA



REPORTS OF PROGRESS.

Report of Progress to 1843. Published in both English and French, Montreal 1845. pp. 159. Out of print.

This volume contains the first of the regular Reports of Progress published after the appointment of Logan as Provincial Geologist. It is premised by "Remarks on the mode of making a Geological Survey of Canada," and by a short "Preliminary Report" containing general observations on the Geology of Canada and the adjacent States. The Reports proper are by Logan and Alexander Murray, then Assistant Provincial Geologist, and relate chiefly to the geology of portions of Western Canada. Logan's celebrated section of the measures at the Joggins on the Bay of Fundy is included as an Appendix, and occupies 59 pages.

Report of Progress for 1844. Published in English and French, Montreal 1846. pp. English 110, French 119. English out of print.

Price of French copies, 50c.

Reports by Logan and Murray on the Geology of portions of the Gaspé Peninsula, with an Appendix including a section of the Coal Measures on the Bay Chaleur, New Brunswick, and a number of other sections.

Report of Progress for 1845-6. Published in English and French, Montreal 1847. pp. English 125, French 137. Out of print.

Contains a Report by Logan on the Geology of the Ottawa and some of its Tributaries, and one by Murray on the Gaspé Peninsula. An Appendix by T. S. Hunt gives a list of mineral springs occurring near the Ottawa and its tributaries, and analyses of a few ores, &c.

Report of Progress for 1846-7. Published in English and French, Montréal 1847. pp. English 66, French 70. Out of print. Contains the following Reports by Logan and Murray :—

LOGAN—On the Geology and Economic Minerals of Lake Superior.

MURRAY—On the Geology of the Kaminitiquia and Michipicoten Rivers.

APPENDIX—Containing Statistics of Copper-mining and Copper-smelting in Great Britain.

Report of Progress for 1847-48. Published in English and French, Montréal 1849. pp. English 165, French 171. Out of print. Contains Reports by Logan, Murray and Hunt.

LOGAN—On the Geology of portions of Lower Canada, more particularly of the Eastern Townships.

MURRAY—On the North Coast of Lake Huron.

HUNT—On Various Minerals and Mineral Waters.

Report of Progress for 1848-49. Published in English and French, Toronto 1850. pp. English 65, French 70. Out of print.

Contains the following Reports :—

MURRAY—On the Geology of parts of the Coast of Lake Huron, the Spanish River, &c.

HUNT—On Mineral Springs, Ores, &c.

Report of Progress for 1849-50. Published in English and French, Toronto, 1850. pp. English 115, French 120. Out of print.

Contains the following Reports :—

LOGAN—On the Geology of Portions of Lower Canada, both North and South of the St. Lawrence.

HUNT—On Soils, Peat, Asphaltum, Mineral Springs, &c.

APPENDIX—Catalogue of some of the Economic Minerals and Deposits of Canada.

Report of Progress for 1850-51. Published in English and French, Quebec, 1852. pp. English 54, French 56. Out of print. Contains the following :—

LOGAN—On the Gold of the Chaudière Region.

MURRAY—On the Geology of the Western Peninsula.

HUNT—On Various Minerals and Mineral Waters.

Report of Progress for 1851-52. Published in English and French Quebec, 1852. pp. English 121, French 129. Out of print. Contains the following :

LOGAN—On the Geology of the Counties of Beauharnois and the Lake of Two Mountains; on various Economic Minerals, and on the Industrial Exhibition of 1851, (London). A catalogue is given of the Canadian Minerals shown at this Exhibition.

MURRAY—On the Geology of the Region between the Ottawa, the St. Lawrence and the Rideau.

HUNT—On the Examination of a number of Minerals, Soils, Mineral Waters, &c.

Report of Progress for 1852-53. Published in English and French, Quebec, 1854. pp. English 179, French 197. Out of print. Contains the following :

LOGAN—On the Geology of the North Shore of the St. Lawrence, between Montreal and Cape Tourment, and on Miscellaneous Economic Minerals.

MURRAY—On the Geology of the Region between Kingston and Lake Simcoe.

HUNT—On Mineral Waters, Various Minerals, Ores, &c.

Report of Progress for the years 1853-54-55-56. Published Toronto, 1857. In English and French. pp. 494.* With a large 4to. Atlas of Maps.

Price with Atlas, \$4.00.

This volume contains Reports by Logan, Murray, Richardson, Billings and Hunt, on subjects enumerated below.

LOGAN—On the Laurentian Rocks of Grenville, Chatham, St. Jerome &c., and the Economic Materials found in them.

MURRAY—Reports for 1853-56 inclusive, on the Topographical and Geological Features of the Region between the Ottawa River and Georgian Bay, as well as North of Lake Huron.

RICHARDSON—Report for 1856 on the Island of Anticosti and the Mingan Islands.

BILLINGS—Report for 1856 on Fossils from Anticosti, and on New Fossils from the Silurian of Canada.

* Unless both are given, the number of pages always refers to the English edition.

HUNT—Reports for the years 1853-56 inclusive, containing numerous Analyses of Minerals, Rocks, and Mineral Waters, and observations (Report for 1855) on the Metallurgy of Iron, the Manufacture of Salts from Sea-Water, &c.

The volume contains a Map illustrating the distribution of the crystalline limestones in the Grenville Region; a reduced Map of Mr. Murray's Explorations, and a Map of Anticosti. The Atlas contains twenty sheets by Mr. Murray and two sheets by Sir W. E. Logan, embracing the results of their Surveys of the Region between Lake Huron and the Ottawa River.

Report of Progress for the year 1857. Published Toronto, 1858. In English and French. pp. 240. Five Maps.

Price, 50c.

This volume contains the following Reports:—

LOGAN—Remarks relating chiefly to the succeeding Reports.

MURRAY—On the Coast at the mouth of French River, Georgian Bay; on Echo Lake and its environs, and on the Limestone of Bruce Mines.

RICHARDSON—On part of the Gaspé Peninsula from Magdalen River to Gaspé Bay, and on Lake St. John.

BELL—On the Fauna of portions of the Lower St. Lawrence, the Saguenay, Lake St. John, &c.

HALL—Descriptions of Canadian Graptolites.

BILLINGS—On the Black River Limestone and the Limestone of Galt. Also descriptions of various Fossils.

HUNT—On Dolomites, Limestones, Fish Manures, &c.

ASHE (Lieut. E. D.). On the Longitude of some of the principal places in Canada, as determined by Electric Telegraph in the years 1856-57.

Report of Progress for the year 1858. Published Montreal, 1859. In English and French. pp. 263. Contains three Maps and a Section.

Price, 75c.

This volume contains the following Reports:—

LOGAN—On the Distribution of the Laurentian Limestones, and of the Drift, in the Grenville Region. Also on the Ramsay Lead Mine, the Acton Copper Mine and Miscellaneous Economic Minerals.

MURRAY—On the country between the Thessalon River and Lake Huron, and between the Thessalon and the Mississaugui.

RICHARDSON—On the Geology of a portion of the Gaspé Peninsula, including an examination of the Coast from the Marsouin River to Rivière du Loup.

HUNT—On Intrusive Rocks, Minerals from Silurian Rocks, and on the History of Magnesian Limestones.

An Appendix to this volume includes the following :

Levels of the River Rouge, &c.

Localities of Copper Ores in the Silurian Rocks of Lower Canada.

Localities of Copper Ores in the Huronian Rocks, Mississagui River.

Catalogue of Animals collected by Mr. D'Urban in the Counties of Argenteuil and Ottawa.

Catalogue of Animals and Plants collected by Mr. R. Bell on the South-East side of the St. Lawrence, from Quebec to Gaspé.

Geology of Canada; Report of Progress of the Geological Survey from its commencement to 1863. With an Atlas of Maps and Sections. Published 1863; in English and in French. Large 8vo. pp. 983. Includes the more important facts published in all the preceding Reports. (For contents of Atlas, which may be had separately, see p. 17.)

Price of the Report: Cloth, \$5.00; Atlas: Cloth, \$2.50.

"The style in which this work has been got up, the precision of the drawing, and the accuracy of the woodcuts, may almost challenge comparison with the execution of similar productions on this side of the Atlantic. There has been a steady persistence in the conduct of this remarkable survey, honourable alike to the successive Governments that have encouraged it, and to the officers who have carried out the work. No other Colonial Survey has ever yet assumed the same truly national character; and the day may come—if ever the "Imperial Colony" shall claim and obtain independence—when the scientific public of a great nation, looking back upon the earlier dawnings of science in their land, shall regard the name of Logan, native born, with the same affectionate interest with which English geologists now regard the names of our great geological map-makers, William Smith and De la Beche."—*London Saturday Review*.

"This large octavo, of 983 pages, illustrated with 498 woodcuts, and to be accompanied by an atlas of maps and sections, presents a condensed view of the work of the Canadian Survey from its commencement in 1843. It gives the results of the combined

labours of Sir W. E. Logan, Mr. Murray, Dr. Hunt and Mr. Billings, a staff not to be surpassed either in ability or energy, and aided also by several able assistants, of whom Mr. Richardson and Mr. Bell stand first. The value of the work to Canada can scarcely be over-estimated. It must be regarded as of vast importance whether we consider readers abroad or at home, whether we consider scientific objects purely or those which are practical. Its mechanical execution is an evidence of the progress of the arts among us. Its publication to the world is a proof of the interest taken in science in this country, and of the enlightened patronage afforded by the Government to such investigations, and, at the same time, of the immense value of our mineral resources, as well as of the extent to which they have already been made available. It gives, for the first time, to geologists abroad the means of making themselves thoroughly acquainted with the geology of this country; and it thus places Canada on a level with those older countries whose structure has been explored, and the knowledge of it made the common property of the world."—*Canadian Naturalist*.

Report of Progress, 1863-1866. Published Ottawa, 1866. In English and French. One vol. large 8vo, pp. 321. Out of print.

This volume contains the following Reports:—

LOGAN—Summary Report of Geological Investigations.

RICHARDSON—On the Geology of the Quebec Group in the Eastern Townships.

*MICHEL—On the Gold Region of Lower Canada. Price, 25c.

*HUNT—On Gold Assays of Quartz from Eastern Canada, Mineralogy of Gold Veins, and method of Gold-working. Price, 25c.

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MACFARLANE—On the Laurentian, Huronian and Upper Copper-bearing Rocks of Lake Superior. With an Appendix on the Rocks and Cupriferous Beds of Portage Lake, Michigan.

BELL—On the Geology of the Grand Manitoulin Island.

HUNT—On the Geology and Mineralogy of the Laurentian Limestones; on Petroleum and Salt; on the Porosity of Rocks; and on Peat and its Applications.

APPENDIX—List of Copper Localities in Eastern Canada.

Report of Progress, 1866-69. Summary of Geological Investigations by Sir W. E. Logan, F.R.S., &c. Published Ottawa 1869. pp. 9.

Report of Progress, 1869-70. Summary of Geological Investigations, by Alfred R. C. Selwyn. Published Ottawa 1870. pp. 14.

Report of Progress from 1866 to 1869. Published Montreal, 1870. In English and French. Large 8vo, pp. 475. The English edition is now out of print.

Price of French edition, \$2.00.

This volume contains the following Reports:—

*LOGAN AND HARTLEY—Reports on part of the Pictou Coal Field. With a coloured Geological Map.

Price with an Appendix on Coals and Iron Ores, \$1.00.

BELL—On the Geology of the Manitoulin Island Group.

RICHARDSON—On the Region South of the St. Lawrence, between the Chaudière River and the Temiscouata Road. With a coloured Geological Map.

*VENNOR—On the Geology of portions of Hastings, Peterborough and Frontenac Counties, Ontario. With a coloured Geological Map. Price, 60c.

* Reports and maps marked thus can be procured separately at the prices attached.

- ROBB—On the Geology of a part of New Brunswick. With a Sketch-Map.
- *HUNT—On the Goderich Salt Region. Price, 25c.
- *HUNT—Notes on Iron and Iron Ores. Price, 25c.
- RICHARDSON—Report for 1869 on the North Shore of the Lower St. Lawrence.
- *BELL—On the Geology of the North-West Coast of Lake Superior and of the Nipigon District. Illustrated by a topographical Sketch-Map. Price, 75c.
- *HARTLEY—Report on the Coals and Iron Ores of Pictou-County, Nova Scotia; being an Appendix to Reports on the Pictou Coal Field (vid. ante). Price, 60c.
- HARTLEY—Notes on Coal from the Springhill Coal Field. (pp. 5.)
- *BELL—J., M.D. Appendix on the Plants of the Manitoulin Islands. Price, 25c.
- Report of Progress for 1870-71.** Published Ottawa, 1872. In English and French. Large 8vo, pp. 351. Price, \$1.25.

This volume contains the following Reports :—

- SELWYN—Summary Report of Geological Investigations.
- BAILEY AND MATTHEW—On the Geology of Southern New Brunswick. (pp. 228).
- ROBB—Supplementary Report on the Geology of North-Western New Brunswick.
- SELWYN—Notes of Observations on the Gold Fields of Quebec and Nova Scotia.
- RICHARDSON.—On the Geology of the Country North of Lake St. John.
- VENNOR—Abstract of a Report on the Geology of parts of the Counties of Frontenac, Leeds and Lanark, Ontario.
- BROOME—On the Phosphate of Lime and Mica found in North and South Burgess.
- BELL—On the Country North of Lake Superior, between the Nipigon and Michipicoten Rivers.

Report of Progress for 1871-72. Published Montreal, 1872. In English.* Large 8vo, pp. 154. Price, \$1.00.

This volume contains the following Reports :—

- INTRODUCTORY REPORT OF THE DIRECTOR.
- SELWYN—Journal and Report of Preliminary Explorations in British Columbia.

* Published in French in the Sessional Documents of the House of Commons for 1872, Vol. V., No. 7. The Report bears Number 31. Printed Ottawa 1873. pp. 156.

- RICHARDSON—On the Coal Fields of the East Coast of Vancouver Island. With a Map of their Distribution. Also a note by Dr. Dawson on Fossil Plants, and Analyses of Coals, &c., by Dr. Hunt.
- BELL.—On the Country between Lake Superior and the Albany River.
- McOUAT—On Exploration of Country between Lake St. John and Lake Mistassini.
- VENNOR.—On the Geology of the Counties of Leeds, Frontenac and Lanark, Ontario; with notes on the gold of Marmora. Accompanied by a Map of the Township of Marmora, showing the position of the Mines now being worked for Gold, and by a Table of Assays by B. J. Harrington.
- BAILEY—On Geological Investigations in New Brunswick.
- ROBB—Mining and Mineral Statistics.

Report of Progress, 1872-73. Published Montreal, 1873. In English and French. Large 8vo, pp. 300. With Map and Illustrations.

Price, \$1.75.

This volume contains the following Reports:—

INTRODUCTORY REPORT OF THE DIRECTOR.

- SELWYN—Notes of a Geological Reconnaissance from Lake Superior to Fort Garry.
- SELWYN—On the Acadia Iron Ore Deposits of Londonderry, Colchester County, Nova Scotia. With notes on samples of Iron Ore by B. J. Harrington.
- RICHARDSON—On the Coal Fields of Vancouver and Queen Charlotte Islands. With a Map of the former, an Appendix by Dawson (J. W.) on Fossil Plants, another by Billings on Mesozoic Fossils, and a third by Harrington on the Coals of the West Coast.
- BELL—On the Country between Lake Superior and Lake Winnipeg.
- McOUAT—On the Country between Lake Temiscamang and Abbittibbe.
- VENNOR—On Explorations and Surveys in the Counties of Frontenac, Leeds and Lanark. With a Plan of the Dalhousie Iron Mine.
- BAILEY AND MATTHEW—On the Carboniferous System of New Brunswick, in the Counties of Queen's, Sunbury, and a portion of York.

ELLS—Operations in boring for Coal with the diamond-pointed steam drill, at Newcastle Bridge, New Brunswick.

ROBE—On the Coal Mines of the Eastern or Sydney Coal Field of Cape Breton, Nova Scotia.

HARRINGTON—Notes on Samples of Brick Clay from Fort Garry; Analysis of Serpentine, &c.

Report of Progress, 1873-74. Published Montreal 1874. In English and French. Large 8vo, pp. 268. With a Map and Illustrations. Price, \$1.50.

This volume contains the following Reports:—

INTRODUCTORY REPORT OF THE DIRECTOR.

SELWYN—Observations in the North-West Territory, on a Journey across the Plains, from Fort Garry to Rocky Mountain House, returning by the Saskatchewan River and Lake Winnipeg. With an Appendix by B. J. Harrington on Western Coals, &c.

BELL—On the Country between Red River and the South Saskatchewan, with Notes on the Geology of the Region between Lake Superior and Red River. With an Appendix by C. Hoffmann on Lignites.

*RICHARDSON—On Geological Explorations in British Columbia.

Price, 25c.

VENOR—Report of Explorations and Surveys in Frontenac, Leeds and Lanark Counties, with Notes on the Plumbago of Buckingham, and Apatite of Templeton and Portland Townships, Ottawa County. With Plan of a portion of North Burgess showing position of Apatite Openings.

BARLOW—On the Exploration and Survey of the Springhill Coal Field, Cumberland County, Nova Scotia. With a Map showing the position of the Springhill Coal Field.

MCQUAT—On a Portion of the Coal Field of Cumberland County, Nova Scotia.

ROBE—On Exploration and Surveys in Cape Breton, Nova Scotia.

*HARRINGTON—On the Iron Ores of Canada and their Development.

Price, 50c.

*WHITEAVES—Notes on the Cretaceous Fossils collected by Mr. Jas. Richardson, at Vancouver and the adjacent Islands. With a Lithographed Plate.

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Report of Progress for 1874-75. Published Montreal 1876. In English and French. Large 8vo, pp. 319. With Maps and Illustrations.

This volume contains the following Reports :—

INTRODUCTORY REPORT OF THE DIRECTOR.

BELL—On the country West of Lakes Manitoba and Winnipegosis, with Notes on the Geology of Lake Winnipeg.

SPENCER—On the country between the Upper Assiniboine River and Lakes Winnipegosis and Manitoba.

RICHARDSON—On Explorations in British Columbia.

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HARRINGTON—Notes on a few Canadian Minerals and Rocks.

HOFFMANN—Chemical Contributions to the Geology of Canada.

Report of Progress for 1875-76. Published Montreal 1877. In English and French. Large 8vo, pp. 432. Price, \$2.50.

This volume contains the following :—

SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS, BY THE DIRECTOR.

HARRINGTON—Biographical Sketch of Sir William Edmond Logan.

SELWYN—Report on Exploration in British Columbia. With nine Illustrations, Sketch-map of Route and three Appendices. I. By Macoun on the Lower Peace and Athabaska Rivers, II. by Whiteaves on Fossils collected during the Expedition, and III. by Le Conte, on Coleoptera.

- MACOUN—On the Botany of the country traversed, from the Pacific to Carleton on the Saskatchewan. With an Appendix containing a Catalogue of Plants.
- DAWSON (G. M.)—Report on Explorations in British Columbia. With five Illustrations and two Sections.
- *SOUDDER—On the Insects of the Tertiary Beds at Quesnel, British Columbia. An Appendix to the last.
- ELLS—On Boring Operations in the North-West Territory in the summer of 1875.
- BELL—Report on an Exploration in 1875 between James' Bay and Lakes Superior and Huron.
- BARLOW (SCOTT)—Report of Progress in the Exploration and Survey of the Coal Fields of Cumberland County, Nova Scotia.
- BAILEY AND MATTHEW—Report of Geological Observations in Southern New Brunswick.
- FLETCHER—Report of Explorations and Surveys in Cape Breton, Nova Scotia. With a Section and coloured Geological Map.
- HOFFMANN—Chemical Contributions to the Geology of Canada.

Report of Progress for 1876-77. Published Montreal 1878. In English and French. Large 8vo, pp. 531. Price, \$2.50.

SUMMARY REPORT OF GEOLOGICAL INVESTIGATIONS, BY THE DIRECTOR.

- DAWSON (G. M.)—Report of Explorations in British Columbia, chiefly in the Basins of the Blackwater, Salmon and Nechacco Rivers, and on François Lake. With seven Illustrations and a coloured Geological Map.
- DAWSON (G. M.)—Report of a Reconnaissance of Leech River and Vicinity.
- *DAWSON (G. M.)—General Note on the Mines and Minerals of Economic value of British Columbia, with a list of Localities (Reprinted, with additions and alterations, from the Canadian Pacific Railway Report, 1877). Price, 25c.
- WHITEAVES—Notes on some Jurassic Fossils collected by Mr. G. M. Dawson in the Coast Range of British Columbia.
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- BELL—Report on Geological Researches North of Lake Huron and East of Lake Superior.
- HUNT—The Goderich Salt Region. (Reprinted from the Transactions of the American Institute of Mining Engineers, Vol. V.)

- VENNER**—Progress Report of Explorations and Surveys made during the years 1875 and 1876 in the Counties of Renfrew, Pontiac and Ottawa, together with additional notes on the Iron Ores, Apatite, and Plumbago Deposits of Ottawa County. With a coloured Geological Map.
- MATTHEW**—Report on the Slate Formations of the Northern part of Charlotte County, New Brunswick, with a Summary of Geological Observations in the South-eastern part of the same County.
- BAILEY AND ELLS**—Report on the Lower Carboniferous Belt of Albert and Westmorland Counties, N.B., including the "Albert Shales." With Sections and a coloured Geological Map.
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NOTE.—Up to 1860 the Geological Reports were printed as Appendices to the Journals of the Legislative Assembly, in English and French. The Appendices in which they are to be found are as follows :—

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" 1846	"	G.G.G.
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" 1857 (Explorations for the years 1853-54-55-56).		Appendix No. 32.
" 1860		" No. 24.

SPECIAL REPORTS, &c.

Esquisse Géologique du Canada, pour servir à l'intelligence de la Carte géologique et de la Collection des Minéraux économiques envoyées à l'Exposition Universelle de Paris, 1855. Par W. E. Logan et T. Sterry Hunt. Paris 1855. pp. 100.

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- ***Descriptive Catalogue of a Collection of the Economic Minerals of Canada, and of its Crystalline Rocks.** Sent to the London International Exhibition for 1862. Published Montreal, Large 8vo. pp. 83.
Price, 25c.
- ***Esquisse Géologique du Canada, suivie d'un Catalogue Descriptif de la Collection de Cartes et Coupes géologiques, Livres imprimés, Roches, Fossiles et Minéraux économique envoyées à l'Exposition Universelle de 1867.** Par T. Sterry Hunt. Paris 1867. pp. 72.
Price, 50c.
- ***Descriptive Catalogue of a Collection of the Economic Minerals of Canada, and Notes on a Stratigraphical Collection of Rocks sent to the Philadelphia International Exhibition of 1876.** Montreal 1876. pp. 152.
Price, 25c.
- ***Exposition Universelle de 1878 à Paris, Catalogue des Minéraux économiques du Canada, avec Notes descriptives et explicatives.** Par B. J. Harrington. Londres 1878. pp. 134.
Price, 25c.
- ***Remarks on the Mining Region of Lake Superior,** addressed to the Committee of the Executive Council; and Report on Mining Locations claimed on the Canadian Shores of the Lake, addressed to the Commissioner of Crown Lands. By W. E. Logan. Published Montreal 1847. pp. 31.
Price, 10c.
- ***Notes on the Gold of Eastern Canada,** being a Reprint of portions of various Reports of the Geological Survey of Canada from 1848-1863. Published Montreal 1864. pp. 40.
Price, 10c.
- ***Reports on the Gold Region of the County of Hastings.** By Dr. T. Sterry Hunt and Mr. A. Michel. Transmitted by Dr. Hunt to the Hon. Commissioner of Crown Lands, January 29, 1867. Published Montreal 1867. pp. 11.
Price, 10c.
- ***Report on the Gold Region of Nova Scotia.** By T. Sterry Hunt. Published Ottawa 1868. Large 8vo. pp. 48.
Price, 25c.
- ***Petroleum**—Its Geological Relations considered with especial reference to its occurrence in Gaspé; with a Geological Map by R. Bell of a portion of Gaspé. By T. Sterry Hunt. Published Quebec 1865. pp. 19.
Price, 50c.

- ***Canada**—A Geographical, Agricultural and Mineralogical Sketch. By T. Sterry Hunt. Published Quebec 1865. pp. 33. Price, 25c.
- ***Laurentian Limestones of North America.** Reprinted with additions, from the Report of the Geological Survey for 1863-66. By T. Sterry Hunt. Published 1871. pp. 54. Price, 25c.

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- Decade 1**—Descriptions of twenty-nine species of Lower Silurian Fossils, By J. W. Salter. Illustrated with ten steel plates. Large 8vo. pp. 47. Published Montreal 1859. Price, \$1.00.
- Decade 2**—A Monograph of the Graptolitidæ of the Quebec Group. By Prof. James Hall. Illustrated with twenty-nine steel plates. Large 8vo. pp. 151. Published Montreal 1865. Price, \$2.00.
- Decade 3**—Monographs of Lower Silurian Cystidæ, and Asteriadæ. By E. Billings. Description of the genus Cyclocystoides. By J. W. Salter and E. Billings. Monograph of the Palæozoic Bivalve Entomostraca of Canada. By Rupert Jones. Illustrated with eleven lithographed plates and numerous wood cuts. Large 8vo. pp. 102. Published Montreal 1858. Price, \$1.00.
- Decade 4**—Monograph of the Lower Silurian Crinoidæ. By E. Billings. Illustrated with ten lithographed plates and numerous wood cuts. Large 8vo. pp. 72. Published 1859. Price, \$1.00.
- Catalogues of the Silurian Fossils of the Island of Anticosti,** with descriptions of some new genera and species. By E. Billings, Published Montreal 1866. pp. 93. Price, 25c.
- Palæozoic Fossils,** containing descriptions and figures of new or little known species of Organic Remains, from the Rocks of the Silurian and Devonian Formations. By E. Billings.
- VOL. I—1861-65**—Published Montreal 1865. Illustrated by 399 wood cuts. Large 8vo, Cloth. pp. 426. Price, \$2.50.

VOL. II—PART I—Illustrated by 85 wood cuts and ten lithographed plates. Published Montreal 1874. Large 8vo. pp. 144.

Price, \$1.25.

Fossil Plants of the Devonian and Upper Silurian Formations of Canada—By J. W. Dawson. Published Montreal 1871. Large 8vo. pp. 92.

Price, \$2.00.

This volume contains twenty full page photo-lithographed plates of Fossil Plants, thoroughly illustrating the Pre-carboniferous Flora of the Dominion.

Fossil Plants of the Lower Carboniferous and Millstone Grit Formations of Canada—By J. W. Dawson. Published Montreal 1873. With ten full page photo-lithographed plates. Large 8vo. pp. 47.

Price, 75c.

Mesozoic Fossils—VOL. I., PART I.—On some Invertebrates from the Coal-bearing Rocks of the Queen Charlotte Islands, collected by Mr. James Richardson in 1872. By J. F. Whiteaves. Published Montreal 1876. With ten lithographed plates and a map showing localities of Fossils. Large 8vo. pp. 92

Price, 75c.

Mesozoic Fossils—VOL. I., PART II.—On the Fossils of the Cretaceous Rocks of Vancouver and adjacent Islands in the Strait of Georgia. By J. F. Whiteaves. Published Montreal 1879. With ten lithographed plates. Large 8vo. pp. 98.

Price, 75c.

MAPS.

Geological Map of Canada and the adjacent Regions, including the other British Provinces, and parts of the United States. By Sir W. E. Logan, F.R.S., &c. Published 1866. Scale 25 miles to one inch.

Price, in sheets	\$18.00
“ mounted on rollers	24.50
“ “ in portfolio, portable shape	25.00

The Geology of Canada (Quebec and Ontario) is derived from the results of the Canadian Geological Survey; that of the other Provinces from the labours of Dr. J. W. Dawson, Professors Robb, Jukes, and others; while that of the United States is compiled

under the authority of Professor James Hall, from various sources mentioned in the Atlas accompanying the "Geology of Canada."

This truly great and beautiful Map will at once recommend itself to all lovers of Geological Science in America. It consists of eight sheets, each 24 x 20½ inches, and, when mounted on rollers, measures 8 ft. by 3 ft. 7 in. It is engraved on steel, in the best style, and is coloured by hand in 33 colours, showing the different formations. The Territory mapped extends from Labrador on the East, to the Red River on the West, and from Hudson's Bay on the North, to Northern Virginia on the South. Besides the Geology of the British Provinces (the main object of the Map), the Geology of the Northern United States is fully shown; and it is as completely a Geological Map for the States of New York, Pennsylvania, Ohio, Indiana, Illinois, New Jersey, Vermont, Michigan, Missouri, Iowa, Wisconsin and Minnesota, as it is for Canada. The Coal Regions are shown with precision from Cape Breton to Missouri.

"We have at length the pleasure of announcing the appearance of this important and long-looked for contribution to American geology. The legend of the Map informs us that the geological details for Canada, comprising the former Provinces of Upper and Lower Canada (now Ontario and Quebec) are furnished by the Geological Survey under the direction of Sir William E. Logan. He has himself compiled the geology of the various States of the Union, under the supervision of Prof. Hall, from various sources which are mentioned in detail in the preface to the Atlas of the Geology of Canada (published in 1865) where he tells us that this portion of the work was done 'with the approval of Prof. James Hall, who has freely placed all his materials at the disposal of the compiler, and aided by his intimate personal knowledge of the geology of a greater part of the region represented.' For the geology of the Provinces of New Brunswick, Nova Scotia and Newfoundland, also, the most authentic printed and manuscript maps were consulted, as described in the Atlas just referred to."—*Silliman's Journal*.

An Atlas to Accompany the Report of Progress for 1853-6, containing twenty-two folio-maps of various Lakes and Rivers between Lake Huron and the River Ottawa. Published Toronto 1857.

Large 4to, half bound. Price, with the Report, \$4.00.

The Maps are on a scale of one inch to a mile and lithographed on sheets of twenty-two by thirty-three inches. They are as follows:—

I. Maps showing Explorations on the North Shore of Lake Huron and thence Eastward to the Ottawa.

1. Spanish River.
2. Spanish River, with White-Fish Tributary and White-Fish Lake; White-Fish River with Lakes Panache and Lavase, and Round Lake.

3. Mouth of the White-Fish River, and Coast of Lake Huron.
4. Wahnapišeping Lake and Wahnapišè River, with Maskanongi Lakes and River.
5. Wahnapišè River.
6. Wahnapišè River, with Channels and Mouths of French River.
7. Sturgeon River.
8. Sturgeon River and West end of Lake Nipissing.
9. French River.
10. East end of Lake Nipissing and Nahmaniligong River, with part of Mattawa River.
11. Mattawa River and part of Ottawa River.

II.—Maps showing Explorations between the East Shore of Lake Huron and the Ottawa River.

- 12 and 13. Meganatawan River, with miscellaneous Lakes.
- 14 to 18 inclusive. Muskoka and Petewahweh Rivers, and numerous Lakes.

III.—Maps of Bonne-chère, Madawaska and Shawashkong Rivers and sources of the Ottonabee.

19. Bonne-chère River with Mud Lake and Clear Lake;
20. Bonne-chère River with Golden and Round Lakes, and Little Madawaska River, Lake Kamaniskaik, and Madawaska River, and South-west Branch or Shawashkong River.
21. Shawashkong River, with Kaijick Manitou and Papineau Lakes.
22. Drag Lake, Kah-shah-gah-wigamog Lake, Gull River, Gull Lake and Balsam Lake.

An Atlas of Maps and Sections to accompany the Report of Progress to 1863—Published Montreal 1865. Large 8vo, Cloth.
Price, \$2.50.

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Map of the Grand Lake Coal Field and the Older Rock Formations in Queen's and Sunbury Counties, New Brunswick.

The following is a list of Maps accompanying some of the Reports enumerated on the preceding pages.

Report of Progress 1853-54-55-56.

Map showing the distribution of Crystalline Limestones of the Laurentian Series in various Townships between Grenville and Rawdon. Scale 3 miles to 1 inch.

Two Index Maps of Atlas (see p. 16) showing Exploration between Lake Huron and the Ottawa. Scale 10 miles to an inch.

Map of the Island of Anticosti. Scale 9 miles to an inch.

Report of Progress for 1857.

Map showing the distribution of the Huronian Limestone between Root River and Bruce Mines.

Map showing the distribution of the Laurentian and Lower Silurian Rocks in the vicinity of Lake St. John.

Topographical Map of the Magdalen River.

Report of Progress for 1858.

- Map showing the distribution of Crystalline Limestones of the Laurentian Series in the Counties of Argenteuil and Ottawa.
- Map showing the distribution of the Huronian Rocks between Rivers St. Mary and Missisague.
- Map showing the distribution of the Devonian and Silurian Formations in a part of Gaspé.

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- *Coloured Geological Map of the Pictou Coal Field, Nova Scotia.
Scale 1 inch to a mile. Price, 30c.
- *Coloured Map showing the distribution of Lower Silurian Rocks between the Chaudière and Trois Pistoles Rivers, South of the River St. Lawrence. Scale 8 miles to 1 inch. Price, 25c.
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Report of Progress 1872-73.

- *Plan of the Acadia Iron Mines, and Profile on the Line of Ore. Scale 400 yards to an inch. Price, 30c.
- Map of a part of the Strait of Georgia and of Vancouver Island, showing a portion of the Comox Coal Field and the distri-

bution of the Cretaceous Coal-bearing Rocks. Scale 2 miles to 1 inch.

Plan of the Dalhousie Iron Mine, Lanark County, Ontario.

Report of Progress 1873-74.

Sketch Survey of the Saskatchewan River from Rocky Mountain House to Cumberland Lake. Scale 16 miles to 1 inch.

*Plan of North Burgess, showing position of Apatite Openings. Scale $\frac{1}{2}$ a mile to 1 inch.

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Index Map showing the position of the Springhill Coal Field. Scale 1 mile to an inch.

Report of Progress 1874-75.

Map showing the distribution of the Iron Ores of Carleton County, New Brunswick.

*Shaded Geological Map of Lanark County and parts of Renfrew and Leeds, Ontario. Scale 4 miles to 1 inch.

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*Coloured Geological Map of the Cape Dauphin District, Cape Breton, Nova Scotia. Scale 4 inches to a mile.

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*Coloured Geological Map of the Sydney Coal Field, Cape Breton, Nova Scotia. Scale 1 inch to a mile.

Price, 25c.

Report of Progress 1875-76.

*Sketch Survey of Route from Quesnel Mouth by Stewart and McLeod Lakes to the Junction of Smoky River and Peace River. Scale 6 miles to 1 inch.

Price, 25c.

*Sketch-Map of Route from the Forks of Peace and Smoky Rivers to Carlton House, Saskatchewan River. Scale 40 miles to an inch.

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*Coloured Geological Map of the Sydney Coal Field, Cape Breton, Nova Scotia. Scale 1 inch to a mile.

Price, 25c.

Report of Progress 1876-77.

- *Coloured Geological Map of portion of British Columbia between the Fraser River and the Coast Range. Scale 8 miles to 1 inch.
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- *Coloured Geological Map of a portion of British Columbia, showing the Coal Fields of Comox, Nanaimo and Cowitchin on Vancouver and adjacent Islands, and the distribution of the Cretaceous Coal-bearing Rocks; also the Tertiary Rocks of Sooke and Burrard Inlet. Scale 4 miles to 1 inch.
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Miscellaneous Maps, &c.

- Two Plans of the Bruce Mines and Vicinity. Accompanying a Report on the North Shore of Lake Huron, published in 1849. (See p. 2.)
- Small coloured Geological Map of portions of Canada and the United States, accompanying Esquisse Géologique du Canada, published Paris 1855. (See p. 12.)
- Coloured Geological Map of a portion of Gaspé, accompanying a Report by Dr. Hunt on the Petroleum of Gaspé. (See p. 13.) Scale 1 inch to 4 miles.

In Preparation :

- A Geological Map, showing a portion of the Quebec Group and adjacent Formations North and South of the River St. Lawrence, from Lake St. Francis at Vallyfield to Crane Island thirty-three miles below Quebec. Scale 4 miles to an inch.

Geological Map of part of the East Coast of Hudson's Bay, and Geological Map of the Region between Lake Winnipeg and Hudson's Bay. To accompany Dr. R. Bell's Report for 1877-78.

Coloured Geological Map of the Southern portion of the Interior of British Columbia, to accompany the Report of Dr. G. M. Dawson for 1877-78. Scale 8 miles to one inch.

Coloured Geological Map of the Queen Charlotte Islands with plans of harbours, etc. To accompany the Report of Dr. G. M. Dawson for 1878-79. Scale of Map 8 miles to one inch.

Coloured Geological Map of Southern New Brunswick, in two sheets. To accompany the Reports of Messrs Bailey, Matthew and Ellis for 1877-78. Scale 4 miles to 1 inch.

Coloured Geological Map of part of Cape Breton Island. To accompany Mr. Hugh Fletcher's Report for 1877-78. Scale 1 mile to 1 inch.

MUSEUM AND LIBRARY.

The Museum and Library of the Geological Survey, 76 St. Gabriel Street, Montreal, is open to visitors from 10 A.M. to 4 P.M. Admission free. The Museum show-cases contain upwards of seven thousand named specimens of Canadian Fossils, Minerals and Rocks, arranged to illustrate the economic and scientific Geology of the Dominion.

In the Library there are upwards of three thousand Volumes, comprising standard works of reference on Geology, Mineralogy, Metallurgy, Chemistry and Natural History.

MONTREAL, May, 1879.