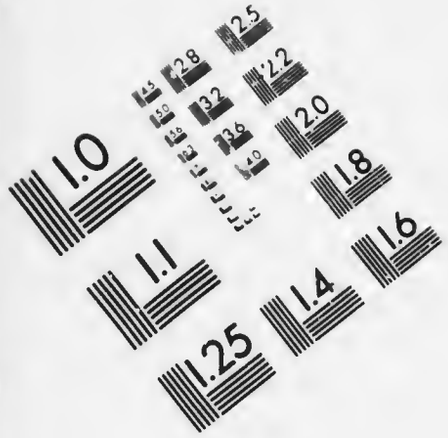

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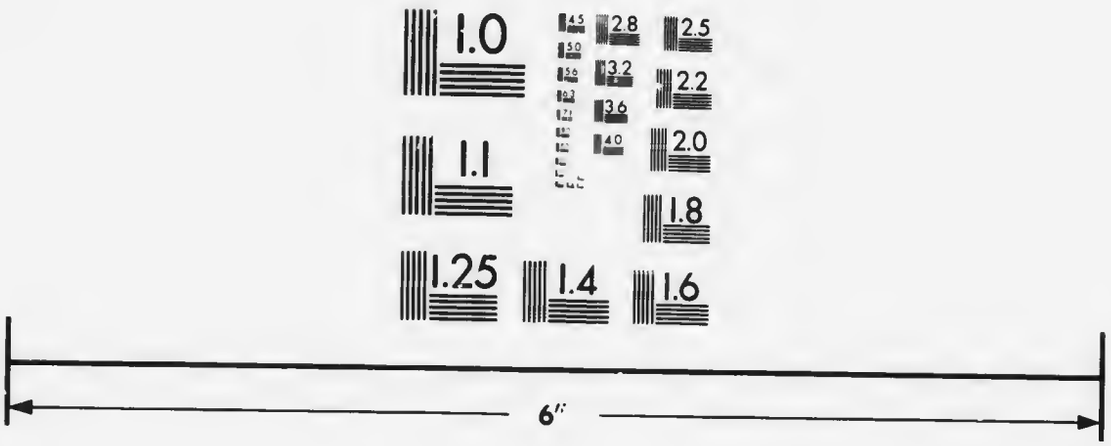

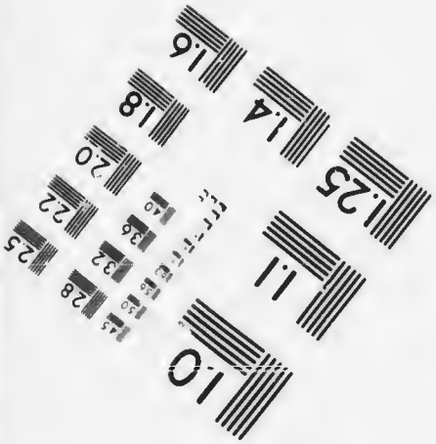

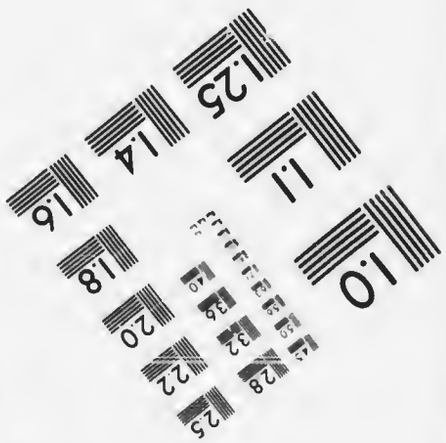

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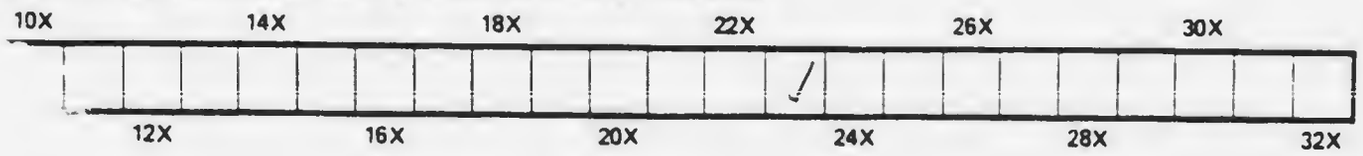

GEOLOGICAL SURVEY OF CANADA
ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S., DIRECTOR.

CATALOGUE

OF A

STRATIGRAPHICAL COLLECTION

Acadia College,

OF

CANADIAN ROCKS

PREPARED FOR

THE WORLD'S COLUMBIAN EXPOSITION

CHICAGO, 1893

BY

WALTER F. FERRIER, B. A. Sc., F. G. S.
Lithologist to the Survey.

OTTAWA
GOVERNMENT PRINTING BUREAU
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To Alfred R. C. Selwyn, C.M.G., F.R.S., &c.,
Director and Deputy Head,
Geological Survey Department of Canada.

Sir,—I beg to submit to you, herewith, the catalogue of a stratigraphical collection of Canadian rocks, prepared, in accordance with your instructions, for exhibition at the World's Columbian Exposition, Chicago.

The collection comprises 1,500 specimens, and illustrates all the formations known to occur in the Dominion of Canada, from the Laurentian to the Pleistocene.

It is arranged, as far as possible, according to the scheme of geological classification published in the Report of Progress of this Survey for 1880–81–82.

The localities represented under each system and formation follow each other, as a rule, in regular order, commencing with the most easterly and proceeding westwards across the continent.

A series of geographical division labels has been adopted to facilitate reference on the map to the various places mentioned.

These divisions are purely geographical ones and have no reference to the stratigraphy of the rocks. The nomenclature of the rocks in this catalogue must be regarded as only tentative, as it will readily be understood that, in the majority of cases, owing to the very short time at our disposal, and the magnitude of the collection, only a hurried *macroscopic* examination of each specimen was possible.

In a few instances the structure of specimens exhibited has been described in detail in the Reports of the Survey and elsewhere. Where such is the case the reference is given.

As the collection is very complete, geographically, many large areas being represented for the first time, it is proposed ultimately to incorporate it with that already in the Museum of this Department, and thus form an unrivalled series of the rocks of Canada.

My grateful acknowledgments are due, first, to yourself, and also to my colleagues on the Geological Survey, for their hearty co-operation and assistance, particularly to Messrs. Ells, Fletcher, Ingall, Tyrrell, Low, Faribault, Ami, McInnes, Weston, and A. E. Barlow, who contributed much valuable material and information and cheerfully gave assistance in the arrangement of the specimens.

The stratigraphical positions of the fossiliferous rocks and the names of the fossils are given on the authority of Dr. H. M. Ami.

To Messrs. Scott Barlow and R. L. Broadbent I am indebted for much valuable assistance in the tedious work of verifying localities. To my assistant in the work of preparing the manuscript catalogue, Mr. Percy H. Selwyn, my best thanks are due for the energetic and able manner in which his part of the work was carried out.

I have the honour to be, Sir,

Your obedient servant,

WALTER F. FERRIER.

Ottawa, June, 1893.

EXPLANATORY NOTES.

A few notes with regard to the rocks represented in the collection are here given, and, in the case of most of them, reference is made to the publications of the Geological Survey in which they are described. A general sketch of the physical geography and geology of Canada was published by this Survey in 1884.[1]

A.—Laurentian.

Under this heading there is a series of four hundred and twenty-two specimens illustrating most thoroughly, both as to variety and distribution, the rocks of the Laurentian system occurring in the Dominion of Canada. The areas represented include the typical Laurentian area of Logan (in respect to the definition of which see a recent paper by Dr. F. D. Adams, of McGill University[2]), as well as many which have been investigated since his time. In fact, the whole of the great Laurentian protaxis, extending from Labrador to the vicinity of the mouth of the Mackenzie River, and underlying, as pointed out by Dr. Adams, an area of over two million square miles, is represented by specimens from localities very evenly distributed over its entire length.

With regard to the nomenclature of some of the rocks, a few remarks may not be out of place here. The term *gneiss*, originally used by the old Saxon miners to designate the country rock of the Erzgebirge ore-deposits, has been since applied, as pointed out by Teall[3] and others, to rocks varying greatly in structure and composition. The present writer, for many reasons, prefers the use of the term in a structural sense only (granite gneiss, diorite gneiss, &c.) and, where possible, it has been so used in this catalogue and in the lithological collections of the Canadian Geological Survey. Where, however, a detailed microscopical examination of a granitoid rock possessing parallel structure, has not been made, or where there

[1] Descriptive Sketch of the Physical Geography and Geology of the Dominion of Canada, by Alfred R. C. Selwyn and George M. Dawson, with coloured geological map. Montreal, 1884.

[2] "On the typical Laurentian area of Canada," Frank D. Adams. The Journal of Geology, University of Chicago, vol. I, No. 4, pp. 325-340.

[3] British Petrography. J. J. Harris Teall, London, 1888, p. 295.

are insufficient data as to its mode of occurrence, the term *gneiss* alone is used, in the meantime, in its old sense as a definite rock name.

The first fifteen specimens of the collection represent the commonly occurring granites and gneisses of the north shore of the gulf and river St. Lawrence from Labrador to Pointe de Monts.

Following these there is a series (Nos. 16 to 32) of the same class of rocks from the immediate vicinity of the River Saguenay, mainly collected by Dr. Adams. Three specimens of granite (Nos. 33 to 35) from the East Main River, interior of Labrador, one of the most recently explored areas, are described by Mr. A. P. Low in his report on that region, now in the press.

The series of Laurentian rocks is then continued up the St. Lawrence from Bay St. Paul to Quebec, and thence through the counties of Quebec, Portneuf and Champlain (Nos. 36 to 57). These have also been fully described by Mr. Low.[1] Attention may be called to Nos. 42 and 43 as being typical specimens of the Laurentian gneiss at the Falls of Montmorenci, near Quebec city, the occurrence of which has been questioned by some geologists.

Continuing on from east to west along the Laurentian axis there is a good series of typical rocks from the area lying between the St. Maurice and Rouge rivers (Nos. 78 to 105) and also from the counties of Ottawa and Pontiac, province of Quebec. This region has been rendered classic ground to the geologist by the labours of Logan, Hunt and others. The rocks from the counties of Ottawa and Pontiac also possess a special interest from an economic stand-point, as being associated with some of the largest deposits of apatite, mica and graphite for which Canada is noted.

Passing from the province of Quebec to that of Ontario, there are, next, specimens illustrating the Laurentian of Central Ontario (Nos. 106 to 136.) In these rocks, as in the case of the preceding ones, many valuable deposits of apatite, mica, and other minerals occur, particularly in the counties of Frontenac, Lanark and Leeds. Specimens from the districts of Muskoka and Parry Sound are also here included.

From the districts of Nipissing and Algoma there is a fine series of specimens (Nos. 137 to 180.) Those from the Sudbury mining

[1] Part L, Annual Report, Geol. Surv., Can., vol. V., 1889-90-91.

district have been described by Dr. R. Bell,[1] and many of them microscopically examined by Prof. Geo. H. Williams.[2]

Two rocks from the east coast of Hudson's Bay (Nos. 164 and 165) are inserted here in their proper order, agreeably with the general geographical arrangement of the collection.

The region north of Lake Superior comes next (Nos. 166 to 196) and includes a series of specimens from the Thunder Bay district, in which Mr. McInnes, of this Survey, has been working during the past year.

From the district of Rainy River, which includes the Lake of the Woods area and the Rainy River region, both so fully described by Dr. A. C. Lawson,[3] there is a representative series of rocks (Nos. 197 to 225). A report by the late Mr. W. H. Smith, which covers a portion of this area, is now in the press.[4]

Going further west we come to the area on the eastern shore of Lake Winnipeg and its vicinity (Nos. 226 to 250). These interesting rocks were collected by Mr. J. B. Tyrrell in 1890-91, and are now being examined microscopically by the writer. This is the first occasion on which this important and interesting portion of the Laurentian area has been represented in the stratigraphical collections of the Survey.

The next four specimens (Nos. 251 to 254) were collected by Dr. Bell and Mr. Cochrane from localities around God's and Island Lakes in the Keewatin district. (See Part C, Report of Progress, 1878).

The next geographical subdivision is the North-west Territory. The writer has adopted this subdivision for convenience of reference on the map and includes under it that portion of the North-west Territories which is *not* included in Keewatin, Assiniboia, Saskatchewan, Alberta or Athabasca. For the specimens (Nos. 255 to 275) from this region we are indebted to Messrs. Tyrrell and

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[1] Part F, Annual Report Geol. Surv. Can., vol. V., 1889-90-91.
[2] Ibid. Appendix I.
[3] Part CC, Annual Report Geol. Surv. Can., vol. I., 1885.
Part F " " " " vol. III., 1887-88.
[4] Part G " " " " vol. V., 1889-90-91.

Dowling, who explored it in 1892 and brought back a fine collection. These rocks (Nos. 255 to 275) are as yet undescribed, but the writer hopes before long to publish a report on them.

With the typical Laurentian rocks have been placed a series from the Archæan belt in British Columbia which are supposed to be of Laurentian age.[1] They were all collected by Mr. McEvoy during the years 1891 and 1892. Perhaps it would have been more strictly in accordance with the general plan of classification adopted for the collection, to have placed those rocks under the heading "Pre-Cambrian," as they constitute an isolated area, but when it was decided to have a printed catalogue for the collection it was too late to make the alteration without deranging the entire collection.

The series of granitoid rocks of the Laurentian is brought to a close with three specimens of granite gneiss (Nos. 298 to 300) from the Yukon River, collected by Mr. McConnell.[2]

Next are fifty specimens representing the Laurentian limestones and dolomites (Nos. 301 to 350). These are from widely separated localities, and, being grouped together here, illustrate in a very thorough manner the distribution, physical characters, and mineral associations of the limestone bands which occur throughout the Laurentian.[3] Many of them afford very handsome marbles.

Next in order is a series of specimens (Nos. 351 to 397) representing the Norian rocks or anorthosites, basic eruptive rocks of the gabbro family, which in various regions break through the Laurentian strata. They sometimes, as pointed out by Dr. Adams, form comparatively insignificant masses, but elsewhere characterize great tracts of country. The Saguenay area alone occupies not less than 5,800 square miles.

An exhaustive memoir on these rocks has been recently published by Dr. Adams[4] and reviewed by Dr. Lawson.[5] The writer cannot do better than refer the student to that memoir.

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[1] Described by G. M. Dawson under the name Shuswap Series. Bull. Geol. Soc. Am., vol. II., p. 170; also in part B, p. 29, Ann. Report Geol. Surv. Can., vol. IV., 1888-89.

[2] Part D, Annual Report, Geol. Surv. Can., vol. IV., 1888-89.

[3] "Laurentian Limestones of North America." T. Sterry Hunt, 1871.

[4] "Ueber das Norian oder Ober-Laurentian von Canada." Stuttgart, 1893.

[5] "Science," vol. XXI., No. 538, p. 281; also, The Journal of Geology, University of Chicago, vol. I., No. 4, pp. 332-335.

A case of twenty-five specimens of eruptives (other than gabbros) associated with the Laurentian, brings the series of typical Laurentian rocks to a close. Amongst these eruptives are some of great interest, *e.g.*, the porphyrites from Grenville and Chatham, Quebec, (Nos. 405 to 407); the curious concretionary veinstone (No. 409) from Portland Township, Ottawa County, Quebec; the pyroxenites which are associated with the deposits of apatite (Nos. 410 and 411); and the beautiful granites and syenites from Lake Superior (Nos. 415 to 418).

A. B.—Pre-Cambrian.

Under this heading are included those Archæan rocks whose isolated position renders their exact correlation with the typical Huronian or Laurentian rocks a matter of some difficulty.

The rocks whose characters approach more nearly to those of the Laurentian, are referred, with a query, to that system, whilst a similar course is adopted in the case of those resembling the Huronian.

The general geographical arrangement of the collection is carried out, the most easterly areas coming first. As in the case of the typical Laurentian, a series of limestones and eruptives associated with these Pre-Cambrian rocks have been grouped together for purposes of comparison.

Specimens Nos. 423 to 447, consisting of schists, gneisses, slates and agglomerates, represent the Pre-Cambrian rocks of Nova Scotia, and have been described by Mr. H. Fletcher in his various reports on the geology of that province.[1]

The Pre-Cambrian rocks of New Brunswick come next in order (Nos. 448 to 497), and are represented by various gneisses, schists, felsites, slates, grits, and ash rocks. The geology of the province has been fully described by Messrs. Bailey, Matthew, Ells, and others, and the reader is referred to their numerous reports published by this Survey.[2]

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[1] For Cape Breton see Part H, Annual Report Geol. Surv., Canada, 1882-83-84.
For Antigonish and Pictou counties see Part P, Annual Report Geol. Surv., Can., vol. II., 1886.

[2] See Bailey and Matthew, Report of Progress, Geol. Surv., Canada, 1870-71.
Also, ibid., Report of Progress for 1875-76.
Also, Ells, Bailey's and Matthew's reports in Report of Progress, 1877-78.
Also, Ells in Reports of Progress for 1879-80 and 1880-81-82.

The Kingston Series of Messrs. Bailey and Matthew[1] is represented by five specimens (Nos. 478 to 482).

In the Eastern Townships of the province of Quebec we have a series of slaty, schistose, and imperfect gneissic rocks, with white and gray crystalline, micaceous dolomites and magnesian limestones, together with various eruptives (Nos. 498 to 522). These rocks are now regarded by Dr. Selwyn as probably of Huronian age, and any one comparing them with typical Huronian rocks will be at once struck with their great similarity of appearance and lithological character. A number of rocks from this area were microscopically examined by Dr. Adams and the results published in the Report of Progress of this Survey for 1880-81-82 (Part A, pp. 8-23). The most recent reports and maps on this region have been made by Dr. Ells.[2]

The stratigraphical relations of the Hastings group (Ontario) of Mr. H. G. Vennor (Nos. 523 to 547) have not yet been determined with accuracy. This group consists largely of calcareous, micaceous, and chloritic schists, quartzites, slates, conglomerates, limestones, and dolomites. Much of the material is clearly of clastic origin, and in this respect it approaches more nearly to the Huronian than to the Laurentian. Vennor supposed it to be equivalent to the lower portion of the Grenville series, but the evidence now seems to point to its being more closely allied to, if not identical with, the Huronian.

As before mentioned, a series of limestones (Nos. 523 A. to 532 A.) and one of eruptives (Nos. 533A. to 547 A.), associated with Pre-Cambrian rocks, are placed here for comparison with those of the Laurentian and Huronian. Attention is called to the remarkable olivine rock (Dunite ?) from the Shickshock Mountains (No. 542 A).

B.—Huronian.

A glance over the cases containing the rocks of this system will show at once the marked way in which they differ in their physical characters from those of the Laurentian.

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[1] See Report of Progress, 1870-71, p. 119.

[2] Part J, Annual Report Geol. Surv., Canada, vol. II., 1886.
Also, Part K, Annual Report, vol. III., 1887-88.

The geographical subdivisions under this heading (Huronian) correspond, in general, to those of the Laurentian, as these two systems are usually closely associated at the various localities represented.

Starting, as before, at the extreme east, there is a series of specimens (Nos. 548 to 557) from Labrador and Belle Isle. The two Labrador specimens (No. 548-549) were collected by Dr. Bell, and are referred to in his report on Hudson Strait and Bay.[1] Nos. 550 to 557 were collected by Dr. Selwyn in 1889 at Belle Isle, which was, up till then, supposed to be composed of Laurentian gneisses.[2]

Next to these come ten rocks (Nos. 558-567) from the East Main River district, already referred to.[3]

Huronian rocks of Pontiac county, province of Quebec, (Nos. 568 to 572), follow, and then comes an unrivalled series of typical Huronian rocks from the districts of Nipissing and Algoma (Nos. 573 to 639). One rock from Hudson Bay (No. 578) is inserted here in order to bring it in its proper place in accordance with the geographical arrangement.

From the Abittibi River there are five specimens of greywacke, shale, schist, and quartzite collected by Mr. Cochrane in 1877 (Nos. 573 to 577). Then from the country lying to the north of Lake Huron there is a magnificent series (Nos. 579 to 639) of agglomerates, conglomerates, arkoses, quartzites, shales, schists, limestones and dolomites, collected by Messrs. Bell, A. E. Barlow, Weston, Selwyn and others. The writer is now engaged in a microscopical examination of the rocks collected by Mr. A. E. Barlow in 1891–92, and many of the rocks from the Sudbury mining district, of special interest as being associated with enormous deposits of copper and nickel ores, have already been so examined and reported on by Prof. Geo. H. Williams.[4]

From the district of Thunder Bay there are numerous specimens (Nos. 640 to 681) collected by Dr. Selwyn[5] on the line of the Can-

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[1] Part DD, Annual Report Geol. Surv. Canada, vol. I., 1885.
[2] Part A " " vol. IV., 1888-89.
[3] See p. VI.
[4] Part F, Annual Report Geol. Surv., Canada, vol. V., 1889-90-91. Appendix I.
[5] See Part A, pp. 8-9, Annual Report, vol. V., 1889-90-91.

adian Pacific railway from east of the Pic River bridge to near Schreiber; by Dr. Bell[1] from north of Lake Huron and east of Lake Superior; and by Mr. McInnes[2] from the region between the Lake of the Woods and Thunder Bay, Lake Superior. From the district of Rainy River there are two series of specimens, one from the Rainy Lake area (Nos. 682 to 698), including the Coutchiching series of Dr. A. C. Lawson, and the other from the Lake of the Woods area. In the first series there are rocks collected by Mr. McInnes from Seine River and Steep Rock Lake, and by Mr. W. H. Smith from the vicinity of Hunter's Island.[3] Nos. 694 to 698 represent the schistose rocks of the Coutchiching series of Dr. Lawson, described and defined by him in his report on the geology of the Rainy Lake region.[4]

The rocks from the Lake of the Woods area (Nos. 699 to 743) have been fully described by Dr. Lawson in his report on that region.[5] The petrography of the rocks described is fully dealt with in both reports.

Passing on to the west, there is a fine series of specimens (Nos. 744 to 768) from the Huronian portion of the Archæan in the vicinity of Lake Winnipeg, collected by Mr. J. B. Tyrrell in 1891.

The remarks made in the case of the Laurentian rocks from the same area, on page VII apply equally to these.

From the Keewatin district, Dr. Bell and Mr. Cochrane have contributed a number of interesting rocks (Nos. 769 to 803) collected in 1878 and 1879. The geology of this region is described by Dr. Bell in the Report of Progress of this Survey for 1878-79, part C.

From the North-west Territory, (for definition see p. VII) are a number of specimens collected in 1892 by Messrs. J. B. Tyrrell and D. B. Dowling, (Nos. 804 to 813) from the country lying north of the Churchill River, and south of Athabasca Lake and Bear River. These have not yet been reported on, but microscopical sections of most of them have already been prepared.

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[1] Report of Progress, Geol. Surv. Canada, 1876-77, p. 193.
[2] Part A., pp. 25-28, Ann. Report, Geol. Surv. Canada, vol. V., 1889-90-91.
[3] Part F, Ann. Report, Geol. Surv. Canada, vol. V., 1890-91.
[4] Part F, Ann. Report, Geol. Surv. Canada, vol. III., 1887-88.
[5] Part CC, Ann. Report, Geol. Surv. Canada, vol. I., 1885.

Messrs. McConnell and Ogilvie have contributed five specimens (Nos. 814 to 818) of schists and quartzites from the Yukon District.*

Closing the series of the Huronian rocks there are fifty specimens of associated eruptives (Nos. 819 to 868), grouped together. Attention is called to the diorites and diabases which accompany the nickel and copper ore deposits in the Sudbury mining district.

NOTE.—In the following pages the positions of the specimens holding fossils, in the stratigraphical arrangement, and the names of the fossils themselves are given on the authority of Dr. H. M. Ami, of the Palæontological branch of this Survey.

C.—CAMBRIAN.

Commencing with Nova Scotia, specimens 869 to 898, collected by Messrs, Selwyn, Bailey and Faribault, represent the Atlantic coast gold-bearing rocks. These particular specimens have not yet been reported upon in detail. A few eruptives and limestones (No. 894 to 898) are grouped together at the end of this series for purposes of comparison.

Nos. 894 A to 898 A, from Cape Breton, are from a higher horizon in the Cambrian than the preceding specimens.

Following these are rocks (No. 899 to 918) from the Cambrian of New Brunswick, collected by Messrs. Ells, Bailey and Matthew, who have fully described the geology of the region.[1]

Next are a number of rocks (Nos. 919-928), some holding fossils, from various localities along the north shore of the Gulf and River St. Lawrence.

From Lake Mistassini are five specimens (No. 929 to 933) collected by Mr. Low in 1892. These rocks are described by Mr. Low in his report on the Mistassini Expedition.[2]

Nos. 934 to 938 from the east coast of Hudson Bay are described by Dr. Bell in his report on that region.[3]

To the south of the St. Lawrence River we have an extensive development of Palæozoic rocks. Nos. 939 to 963 represent the

*In their lithological characters these rocks resemble the Huronian, but there is no evidence that they are of this age.

[1] Ells, Report of Progress, Geol. Surv., Canada, 1879-80, and 1880-81-82. Also Bailey and Ells, Report of Progress, 1878-79.

[2] Part D, Ann. Report Geol. Surv., Canada, vol. I., 1885.

[3] Part C, Report of Progress, Geol. Surv. Canada, 1877-78.

rocks of supposed Cambrian age extending along the shore of the river from Pointe Maquereau to Port Neuf county, and including the Island of Orleans and Cap Rouge. They are described in the Geology of Canada, 1863, and various other reports of this Survey.

Nos. 964 to 983 are from the areas mapped by Dr. Ells[1] as Cambrian, in the Eastern Townships of the province of Quebec.

The next five specimens (Nos. 984 to 988) are from the small area in the Sudbury mining district, mapped as Cambrian in Dr. Bell's report on that district.[2]

The main areas of the Nipigon and Keweenian formations (specimens Nos. 989 to 1012) occur in the vicinity of Nipigon and Black Bays, Lake Superior, and around Lake Nipigon; small detached areas being found at Michipicoten Island, and fringing the east coast of the lake at Gargantua and Mamainse. They are generally regarded as of Cambrian age (see "Descriptive Sketch of the Physical Geography and Geology of the Dominion of Canada," by Alfred R. C. Selwyn and George M. Dawson, 1884), and consist, in the case of the Nipigon, of a series of red and white sandstones and rather coarse conglomerates, associated with massive columnar diabase. A specimen (No. 999) from a similar series of rocks on the east coast of Hudson Bay is here inserted for comparison. The Keweenian rocks consist for the most part of interbedded coarse conglomerates and trap flows (frequently amygdaloidal.)

The Animikie formation (Nos. 1013 to 1037) underlies the Nipigon and Keweenian, and is chiefly developed around the shores, and in the vicinity of Thunder Bay, Lake Superior. The rocks are chiefly argillites (frequently dolomitic), cherts and dolomites, with associated sheets of diabase. They constitute the well-known silver-bearing formation of that region, and, together with the Nipigon and Keweenian formations, are fully described in reports by Dr. Bell[3] and Mr. Ingall.[4]

From British Columbia and the adjoining portion of Alberta there are, first, ten specimens (Nos. 1038 to 1046) representing the

[1] Part J, Ann. Report Geol. Surv. Canada, vol. II., 1886.
[2] Part F " " " vol. V., 1889-90-91.
[3] Report of Progress, Geol. Surv. Canada, 1866-69.
[4] Part H, Ann. Report, Geol. Surv. Canada, vol. III., 1887-88.

Bow River series and Castle Mountain formation, collected by Messrs. McConnell[1] and Ami; then one specimen (No. 1047) from the middle Cambrian of Mt. Stephen; and lastly, fourteen specimens (Nos. 1048 to 1062) from the southern interior of British Columbia, of which the first ten are schists, argillites and limestones, collected by Messrs. G. M. Dawson[2], McEvoy and Selwyn[2]; and the last four are green and grey argillites, from the Adams Lake Series of Dr. G. M. Dawson. (See Bull. Geol. Soc. Am., Vol. II, 1891, pp. 165–176.)

D.—Cambro-Silurian.

Commencing, as before, at the most easterly exposures, there are five specimens (Nos. 1063 to 1067), referred to this system, from Nova Scotia, and described by Mr. Fletcher in part P, Annual Report of this Survey for 1886.

The Cambro-Silurian rocks of New Brunswick (Nos. 1068 to 1072) come next. (For an account of these, reference may be made to reports by Messrs. Ells, Bailey and McInnes in Annual Reports of this Survey for 1879–80 and 1887–88.)

Next in order is an extensive series of specimens (Nos. 1073 to 1132) illustrating the various formations of the Cambro-Silurian system occurring in the provinces of Quebec, Ontario and Manitoba. Specimens from the same formation in different provinces are grouped together. The rocks (Nos. 1073 to 1082) from the Eastern Townships of the province of Quebec, mapped as Cambro-Silurian by Dr. Ells, are described by him in the Annual Report of this Survey for 1886, part J. The rocks of the Cambro-Silurian and the fossils they contain are fully described in the Geology of Canada, 1863, and in subsequent reports and palæontological publications of this Survey.

Five specimens (Nos. 1133 to 1137) of the supposed Cambro-Silurian rocks of British Columbia and the North-west Territories bring the series of rocks of this system to a close.

E.—Silurian.

The Silurian rocks of Nova Scotia and New Brunswick (Nos. 1138 to 1147) come first. Those from Nova Scotia are described by

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[1] Part D, Ann. Report, Geol. Surv. Canada, vol. II., 1886.

[2] Summary Report of Director of this Survey for 1890, pp. 12, 13–16.

Mr. Fletcher in the Annual Report of this Survey for 1886, part P, pp. 36–49; those from New Brunswick by Messrs. Robb and Bailey in numerous reports published by this Survey since 1869.

The Chaleur Group of Quebec (Nos. 1148 to 1152) is described by Sir Wm. Logan in the Report of Progress of this Survey for 1844; also, Geology of Canada, 1863.

The fossiliferous Silurian rocks of Quebec and Ontario, including all the formations from the Medina to the Lower Helderberg, are represented by an extensive series of specimens (Nos. 1153 to 1212).

As in the case of the Cambro-Silurian, specimens from the same formation occurring in the two provinces, are grouped together. These rocks and the fossils they contain are described in the Geology of Canada, 1863, and in various subsequent reports of this Survey.

From Saskatchewan and Manitoba there are seven specimens (Nos. 1181 to 1187) described by Mr. J. B. Tyrrell in Part. E, Ann. Report of this Survey for 1889-90-91.

Eruptives.

(*Uncertain age, cutting strata from Pre-Cambrian to Devonian.*)

Twenty-five specimens (Nos. 1188 to 1212) of these eruptive rocks of uncertain age, from the provinces of Nova Scotia, New Brunswick, Quebec, and British Columbia are here grouped together. Attention may be called especially to the serpentine (No. 1198) which carries the important and well known deposits of asbestus in the eastern townships of the province of Quebec; also to the very interesting specimen of Alnöite (No. 1206) recently described by Dr. F. D. Adams.[1]

F.—Devonian.

In the east, the Devonian rocks from Nova Scotia (Nos. 1213 to 1217) and New Brunswick (Nos. 1218 to 1222) have been described by Messrs. Fletcher, Matthew, Bailey and Ells, in various reports of this Survey, chiefly from 1870 to 1887.

Nos. 1223 to 1227 are from the upper and lower Devonian beds of Gaspé and Bonaventure counties, Quebec. Nos. 1224, 1225,

[1] Am. Jour. Sci., vol. XLIII., p. 269, 1892.

and 1227 are of especial interest as containing specimens of fossil fish similar to some of those described by Hugh Miller from the Old Red Sandstone of Scotland.

Then comes a large series of specimens (Nos. 1223 to 1237) representative of the different members of the Devonian system, from the Oriskany to the Chemung and Portage formations, inclusive, occurring in Ontario. These rocks, and their fossils, will be found fully described in the Geology of Canada, 1863, and in subsequent reports and palæontological publications of the Survey.

Nos. 1238 to 1247 are from the Devonian of Manitoba fully described by Mr. J. B. Tyrrell in part E, pp. 199, 204 and 209, Annual Report of this Survey, vol. V., 1889-90-91.

From the exposures of Devonian rocks on the Abitibbi River there are three specimens (Nos. 1248 to 1250) collected by Mr. Cochrane in 1877.

Nos. 1251 and 1252 were collected by Mr. McConnell from Devonian strata on the Hay River, near Great Slave Lake.[1]

Nos. 1253 to 1255 are from the vicinity of Banff in the Rocky Mountains.[2]

Nos. 1256 to 1262, from the Mackenzie River, are described by Mr. McConnell in his report on that region.[3]

G.—Carboniferous.

Specimens from the same formation occurring in different provinces are placed according to provinces under the name of the formation.

The lower Carboniferous rocks of Nova Scotia[3] (Nos. 1263 to 1267) and the Albert shales[4] of New Brunswick (Nos. 1268 to 1272) come first in the collection.

From the province of Quebec, the Bonaventure formation of Logan is represented by specimens 1273 to 1277 (see Report of Progress, 1844), and two eruptives are placed further on (Nos. 1301, 1302).

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1. Part D, p. 69, Ann. Report Geol. Surv. Can., vol. IV., 1888-89.
2. " " p. — " " " " " vol. II, 1886.
3. See "Acadian geology," Sir J. W. Dawson.
4. Reports of Progress, Geol. Surv. Canada, 1876-77 and 1878-79.

The Millstone Grit formation of Nova Scotia is represented by specimens Nos. 1278 to 1283; that of New Brunswick by specimens Nos. 1284 to 1287.

Nos. 1288 to 1297 are from the Coal Measures of Nova Scotia.

Following these are three specimens (Nos. 1298 to 1300) of the Permo-Carboniferous rocks of Nova Scotia and Prince Edward Island.

From British Columbia there is a series of rocks (Nos. 1303 to 1312) in part known to be of Carboniferous age but possibly including newer and older Palæozoic rocks.

H.—Triassic.

There are numerous rocks of this system from Nova Scotia (Nos. 1313 to 1337), chiefly sandstones and amygdaloidal traps, the latter holding a great variety of zeolitic minerals.

From the Queen Charlotte Islands and Vancouver Island there are five specimens (Nos. 1333 to 1337) representing the Triassic rocks which occur there and which are described by Dr. G. M. Dawson in Part B. Report of Progress of this Survey for 1878-79, and Part B. Ann. Report for 1886.

K.—Cretaceous.

The Cretaceous rocks of North-western Manitoba and portions of adjacent district of Saskatchewan are represented by an extensive series (Nos. 1338 to 1362) of specimens, collected by Mr. J. B. Tyrrell during the years 1887 to 1890. These rocks are fully described in his report on the region,[1] and include specimens from the Dakota, Benton, Niobrara, Pierre (Millwood and Odanah Series) formations. Two specimens (Nos. 1363 and 1364) from Vancouver Island and the Queen Charlotte Islands come next. (See references given above under Triassic.)

Nos. 1365 to 1372 are Cretaceous rocks from the Athabasca district collected by Mr. McConnell during the years 1889, 1890 and 1892.[1]

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[1] Part E, Ann. Report Geol. Surv. Canada, vol. V., 1889-90-91.
Part D, " " " "

No. 1373 from the Porcupine River, North-west Territory, Nos. 1374 and 1375 from the Cretaceous of the Rocky Mountains[1] and No. 1376 from the Mackenzie River[2] were all collected by Mr. McConnell.

No. 1377 is from Green Lake, Saskatchewan.

The Belly River formation of Alberta (Nos. 1378 to 1380) is described by Dr. Dawson in Part B, Report of Progress of this Survey for 1880-81-82.

There are next three specimens from the Pierre formation in Assiniboia, collected by Messrs. Weston and McConnell.

The three eruptive rocks (Nos. 1384 to 1386) from British Columbia have been placed here by mistake, their age being uncertain: No. 1386 has been mapped provisionally as Triassic.

L.—Tertiary.

Nos. 1387 to 1392, described by Mr. J. B. Tyrrell,[3] are from the Laramie of Alberta and Assiniboia.

Nos. 1393 and 1394 are respectively from the Miocene of Assiniboia and the vicinity of the Mackenzie River.

No. 1395 is an argillite holding plant remains from the Laramie rocks of the Yukon River.[4]

Six specimens (Nos. 1396 to 1401) from British Columbia conclude the series of Tertiary rocks.

M.—Post-Tertiary.

No. 1402 is a specimen from the white silts of Alert Bay, British Columbia.

No. 1403 to 1409 are from the Boulder Clay, Leda Clay and Saxicava sands of Ontario, chiefly from the neighbourhood of Ottawa and collected by Dr. Ami.

Nos. 1400 and 1401 are of very recent formation.

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[1] Part D, Ann. Report Geol. Surv. Canda, vol. II., 1886.
[2] Part D, " " " vol. IV., 1888-89.
Part E, " " " vol. II., 1886.
[3] Part B, " " " vol. IV., 1888-89.

ERRATA.

Page 38, No. 466, for "Ells, 1887," read "Bailey."

" 48, between Nos. 557 and 558 insert "**EAST MAIN RIVER DISTRICT.**"

" 68, No. 818, for "Taton due" read "Tatondue"; also, omit "**BRITISH COLUMBIA**" from headline immediately under "**ERUPTIVES.**"

" 76, No. 920, for "1892" read "1872."

" 88, for "**(Adam's Lake Series)**" read "**(Adams Lake Series.)**"

" 89, Nos. 1060, 1061 and 1062 for "Adam's Lake" read "Adams Lake"; also, No. 1067, for "1866" read "1886."

" 97, No. 1133, for "N.W.T." read "Alberta."

" 99, insert "**LIMESTONES AND DOLOMITES**" after "**QUEBEC**" (preceding No. 1156).

A.—LAURENTIAN.

NORTH SHORE OF GULF AND RIVER ST. LAWRENCE.

1 **Hornblende Granite Gneiss.**—Light grey; contains pyrite.

High ridge to north and north-west of the Mission Station, Nain, Labrador.

BELL, 1884.

2 **Hornblende Granite Gneiss.***—Pink.

Belle Isle, Que.

SELWYN 22-7-89.

3 **Orthoclase Gneiss.**—Red.

Blanc Sablon Bay, Strait of Belle Isle, Que.

FORTIN, 1859.

4 **Hornblende Gneiss.**

Esquimaux Bay, eastern entrance, Que.

FORTIN, 1859.

5 **Orthoclase Gneiss.**—Red.

Cape Whittle, Que.

FORTIN, 1859.

6 **Orthoclase Gneiss.**—Red.

Little Natasquan Harbour, Que.

RICHARDSON, 1860.

7 **Hornblende Gneiss.**

S. W. point, Quetachoo Manicouagan Bay, Saguenay County, Que.

8 **Pegmatite. "Graphic Granite."**

S. W. point, Quetachoo Manicouagan Bay, Saguenay County, Que.

RICHARDSON.

9 **Orthoclase Gneiss.**—Red.

Watcheshoo Bay, Mingan, Que.

RICHARDSON.

10 **Hornblende Granite Gneiss.**

Manitou River, Saguenay County, Que.

RICHARDSON, 1860.

11 **Hornblende Granite Gneiss.**

Manitou River, Saguenay County, Que.

RICHARDSON, 1860.

*This specimen is so closely associated with very typical Huronian rocks as to make its true age doubtful.

12 Biotite Syenite Gneiss.

Seven Islands, Saguenay County, Que.

SELWYN, 15-7-80.

13 Biotite Hornblende Gneiss.

Pentecost River, Saguenay County, Que.

SELWYN, 15-7-80.

14 Hornblende Granite Gneiss.

Egg Island, Saguenay County, Que.

RICHARDSON, 1860.

15 Hornblende Biotite Gneiss.

Pointe de Monts, Saguenay County, Que

RICHARDSON, 1869.

SAGUENAY DISTRICT.

16 Orthoclase Gneiss.—Porphyritic.

Portage des Roches, Lake Kenogami, Chicoutimi County, Que.

ADAMS, 3-6-83.

17 Gneiss.—Dark coloured.

Occurring in irregular bands in No. 16. The bands are from one to six inches thick.

Portage des Roches, Lake Kenogami, Chicoutimi County, Que.

ADAMS, 3-6-83.

18 Orthoclase Gneiss.—Quartz-bearing.

South shore of Lake Kenogami near River Cyriac, Chicoutimi County, Que.

ADAMS, 4-6-83.

19 Orthoclase Gneiss.—Quartz-bearing.

South shore of Lake Kenogami, between rivers Chicoutimi and Cyriac, Chicoutimi County, Que.

ADAMS, 4-6-83.

20 Orthoclase Gneiss.—Porphyritic: quartz-bearing.

North shore of Lake Kenogami, one mile west of Point aux Sables, Chicoutimi County, Que.

ADAMS, 4-6-83.

21 Orthoclase Gneiss.—Quartz-bearing.

Lake Kenogami, opposite Aux Sables River, Chicoutimi County, Que.

ADAMS, 4-6-83.

22 Orthoclase Gneiss.—Pink: almost destitute of foliation.

River Aulnais, 14 miles from Belle Rivière, Chicoutimi County, Que.

ADAMS, 2-7-83.

23 Orthoclase Gneiss.—Red: very poorly foliated, and containing but little quartz.

Lac Vert, Chicoutimi County, Que.

ADAMS, 10-7-83.

24 **Gneiss.**—Red and grey interstratified.

Lake Pononchashoo at head of River Shipshaw, Chicoutimi County, Que.

ADAMS, 3-10-84.

25 **Orthoclase Gneiss.**—Red: finely foliated.

Metabetchouan River, Que.

ADAMS, 6-8-83.

26 **Orthoclase Gneiss.**—Pink; almost destitute of foliation.

Lake St. John, one mile west from River Metabetchouan, Chicoutimi County, Que.

RICHARDSON, 4-10-57.

27 **Gneiss.**—Greyish; well foliated; composed of a large amount of quartz with orthoclase and plagioclase.

NOTE.—The darker bands are caused by the presence of magnesia mica with a little iron ore.

North shore of Ha! Ha! Bay, Saguenay River, Bagot Township, Chicoutimi County, Que.

ADAMS, 17-9-83.

28 **Gneiss.**—Greyish; well foliated.

Occurs 30 yards from No. 27.

North shore of Ha! Ha! Bay, Saguenay River, Bagot Township, Chicoutimi County, Que.

ADAMS, 17-9-83.

29 **Specimen from black bands interstratified with red Orthoclase Gneiss.**

North shore of Ha! Ha! Bay, Saguenay River, Bagot Township, Chicoutimi County, Que.

ADAMS, 17-9-83.

30 **Gneiss.**—Obscurely foliated.

Occurs 100 yards from No. 29.

North shore of Ha! Ha! Bay, Saguenay River, Bagot Township, Chicoutimi County, Que.

ADAMS, 17-9-83.

31 **Gneiss.**—Composed of quartz and orthoclase, a little plagioclase, and a very little hornblende and iron ore.

Cape West, Saguenay River, Chicoutimi County, Que.

ADAMS, 15-9-83.

32 **Orthoclase Gneiss.**—Pink: almost destitute of foliation.

Hebertville, Labarre Township, Chicoutimi County, Que.

RICHARDSON, 1857.

EAST MAIN RIVER DISTRICT.

33 **Granite.**—Pinkish white: porphyritic: contains hornblende.

East Main River, Que.

LOW, 1-8-92.

34 **Granite.**—Pinkish white.

East Main River, Que.

LOW, 1-8-92

35 Granite.—Pinkish white.

East Main River, Que.

Low, 1-8-92.

BAIE ST. PAUL AND CHÂTEAU RICHER.

36 Garnetiferous Gneiss.

East side of Baie St. Paul, Charlevoix County, Que.

Weston, 1891.

37 Mica Diorite Gneiss.—Contains some quartz.

Sault à la Puce River, Montmorency County, Que., at first forks of road up river.

Low, 16-6-91.

38 Granite Gneiss,

Where road along Sault à la Puce crosses Lot 65, Château Richer, Montmorency County, Que.

Low, 16-6-91.

39 Pyroxene Granite Gneiss.

Lot 71, Château Richer, Montmorency County, Que.

Low, 16-6-91.

40 Pyroxene Granite Gneiss.

Lot 72, Château Richer, Montmorency County, Que.

Low, 16-6-91.

41 Hornblende Gneiss.

On road in rear of Church, front of 2nd Range, Ste. Anne, Montmorency County, Que.

Low, 17-6-91.

QUEBEC, PORT-NEUF AND CHAMPLAIN COUNTIES.

42 Orthoclase Gneiss.—Red.

Montmorenci Falls, Quebec County, Que.

Weston, 1891.

43 Orthoclase Gneiss.—Red.

Montmorenci Falls, Quebec County, Que.

Weston, 1891.

44 Hornblende Granite Gneiss.—Contains hypersthene and some biotite.

Jacques Cartier River, on road east side, 2½ miles north of Valcartier, Quebec County, Que.

Low, 1889.

45 Hornblende Granite Gneiss.—Contains hypersthene and some biotite.

½ mile north of locality of No. 44, Quebec County, Que.

Low, 1889

46 Orthoclase Gneiss.—Light pink ; very fine grained ; almost pure felspar.

On road from Port-Neuf Village, 1 mile N. of C.P. Railway, Seigniory of Port-Neuf, Port-Neuf County, Que.

Low, 1889.

47 Orthoclase "Augen" Gneiss.—Red.

Road east side of Jacques Cartier River, above Valcartier, Quebec County, Que.

Low, 1889.

48 Mica Gneiss.—Pink ; fine grained ; contains some garnets.

Road on south side Port-Neuf River, 2 miles east of St. Bazile, Port-Neuf County, Que.

Low, 1889.

49 Mica Gneiss.—Dark grey, and red ; highly quartzose.

Quebec and Lake St. John R. R., above Migwick Station, Que.

Low, 29-7-90.

50 Mica Gneiss.—Light grey ; compact ; moderately fine grained.

Quebec and Lake St. John R. R., at crossing of discharge, Lake Edward, Quebec County, Que.

Low, 29-7-90.

51 Garnetiferous Gneiss.—Contains white orthoclase and a steatitic mineral.

Quebec and Lake St. John R. R., 10 miles north of Lake Edward, Que.

Low, 30-7-90.

52 Hornblende Mica Gneiss.—Dark grey, and red ; medium grained ; compact ; contains numerous pegmatite veins.

Quebec and Lake St. John R. R., near Chambord, Lake St. John, Chicoutimi County, Que.

Low, 1-8-90.

53 Quartzite.—White ; often holds mica and other minerals.

River Batiscan near Notre Dame des Anges, Champlain County, Que.

Low, 29-6-91.

54 Garnetiferous Gneiss.—Light greyish white ; coarse grained.

Most easterly road between St. Tite and St. Stanislas, Champlain County, Que.

Low, 28-7-91.

55 Hornblende Gneiss.

Road east of River Batiscan, north of St. Stanislas, Champlain County, Que.

Low, 17-7-91.

56 Hornblende Granite Gneiss.—Red felspar.

Lake Mekinac, Champlain County, Que.

Low, 31-7-91.

57 Hornblende Granite Gneiss.

Lake Mekinac, Champlain County, Que.

Low, 30-7-91.

ST. MAURICE, MASKINONGE, BERTHIER, MONTCALM, TERREBONNE AND ARGENTEUIL COUNTIES.

58 Gneiss.—Greenish grey; fine grained.

10 miles below Rivière aux Rats, River St. Maurice, St. Maurice County, Que.

LOW, 22-7-91.

59 Hornblende Gneiss.—Black.

River St. Maurice below Grand Piles, St. Maurice County, Que.

LOW, 7-7-91.

60 Garnetiferous Gneiss.—Pinkish white.

Shawenegan Falls, River St. Maurice, St Maurice County, Que.

LOW, 9-7-91.

61 "Augen" Gneiss.—Red; coarse grained.

Shawenegan Falls, St. Maurice County, Que.

MCCONNELL, 30-7-80.

62 "Augen" Gneiss.—Coarse grained; more hornblende and mica than in No. 61.

Shawenegan Falls, St. Maurice County, Que.

MCCONNELL, 31-8-80.

63 Biotite Gneiss.—Fine grained.

Les Grais River, St. Maurice, St. Maurice County, Que.

MCCONNELL, 1880.

64 Orthoclase Gneiss.—Red; porphyritic.

Fief Hope, Maskinonge County, Que.

MCCONNELL, 14-9-80.

65 Pyroxene Granite Gneiss.

Half mile east of St. Jean de Matta, on road to St. Gabriel, Berthier County, Que.

MCCONNELL, 8-7-80.

66 Hornblende Schist.—Black.

Near Village of Rawdon, Montcalm County, Que.

ADAMS, 29-9-85.

67 Orthoclase Gneiss.—Quartz-bearing.

About six miles north of St Jerome, Two Mountains County, Que

ADAMS, 17-8-85.

68 Gneissic Rock.—Coarse grained; quartzose.

Near St. Jerome, Two Mountains County, Que.

NOTE.—It is a specimen of the rock at border of the St. Jerome anorthosite area, the anorthosite gradually passing over into the gneiss (orthoclase) by which it is surrounded.

ADAMS, 18-8-85.

69 Orthoclase Gneiss.—Quartz-bearing.

Near St. Jerome, on road between St. Jerome and St. Sophie, Two Mountains County, Que.

ADAMS, 18-8-85.

70 Gneiss.—Red and black interstratified.

One-third of a mile south of bridge at St. Jerome, west side of North River, Two Mountains County, Que.

ADAMS, 9-4-82.

71 Orthoclase Gneiss.—Red.

St. Andrews, Argenteuil County, Que.

ELLS, 1892.

72 Orthoclase Gneiss.—Red.

Lot 13, Range 10, Chatham Township, Argenteuil County, Que.

WILLIMOTT, 13-7-78.

73 Hornblende Granite Gneiss.

[illegible], Grenville Township, Argenteuil County, Que.

HUNT.

74 Garnetiferous Biotite Gneiss.—Coarsely crystalline.

Lot 1 (south ½), Range 6, Grenville Township, Argenteuil County, Que.

HUNT.

75 Garnetiferous Biotite Gneiss.—Coarsely crystalline.

Split Rock, River Rouge, Argenteuil County, Que.

76 Hornblende Gneiss.

Trembling Mountain, Grandison Township, Argenteuil County, Que.

ELLS, June, 1891.

77 Garnetiferous Gneiss.—Felspathic.

River Rouge, Argenteuil County, Que.

OTTAWA AND PONTIAC COUNTIES.

78 Biotite Granite Gneiss.—Dark grey.

North Nation River, below railway bridge, Petite Nation Seigniory, Ottawa County, Que.

ELLS, 1892.

79 Biotite Granite Gneiss.—Garnetiferous; fine grained.

North Nation River, below railway bridge, Petite Nation Seigniory, Ottawa County, Que.

ELLS, 1892.

80 Granite Gneiss.—Red; coarsely crystalline.

North Nation River, below railway bridge, Petite Nation Seigniory, Ottawa County, Que.

ELLS, 1892.

81 Biotite Granite Gneiss.—Red and grey interbanded; fine grained.

North Nation River below railway bridge, Petite Nation Seigniory, Ottawa County, Que.

ELLS, 1892.

82 Biotite Granite Gneiss.—Light grey.

Shore of Black Bay, Ottawa River, Ottawa County, Que.

ELLS, 1892.

83 Biotite Granite Gneiss.—Dark grey; richer in bisilicates than No. 82.

Shore of Black Bay, Ottawa River, Lochaber Township, Ottawa County, Que.

ELLS, 1892.

84 Hornblende Granite Gneiss.—Red; rather coarse grained.

Shore of Black Bay, Ottawa River, Lochaber Township, Ottawa County, Que.

ELLS, 1892.

85 Hornblende Granite Gneiss.—Red; fine grained.

Shore of Black Bay, Ottawa River, Lochaber Township, Ottawa County, Que.

ELLS, 1892.

86 Garnetiferous Gneiss.—Grey.

Star Hill Phosphate Mine, Lot 8, Range 8, Portland Township West, Ottawa County, Que.

INGALL, 29-10-88.

87 Hornblende Biotite Gneiss.—Grey; fine grained; contains pyrite.

Du Lièvre River, Lot 17, Range 9, Buckingham Township, Ottawa County, Que.

INGALL, 30-7-88.

88 Garnetiferous Gneiss.—Highly quartzose.

Villeneuve Mica Mine, Lot 31, Range 1, Villeneuve Township, Ottawa County, Que.

INGALL, 13-9-88.

89 Biotite Gneiss.—Dark grey; medium grained; banded.

Craft's Mine, Lot 24, Range 7 Portland Township East, Ottawa County, Que.

INGALL, 23-10-91.

90 Graphitic Gneiss.—Rusty weathering.

Donaldson's Mine, Lot 26, Range 6, Buckingham Township, Ottawa County, Que.

INGALL, 24-11-91.

91 Biotite Gneiss.—Coarse grained; highly quartzose and felspathic.

Lot 17, Range 9, Buckingham Township, Ottawa County, Que.

INGALL, 1888.

92 Biotite Granite Gneiss.—Red; rather coarse grained.

Union Phosphate Mine (Quarry), Portland Township West, Ottawa County, Que.

COSTE, 15-8-85.

93 Pyroxene Gneiss.—Banded green and white.

Lot 12, Range 1, Wakefield Township, Ottawa County, Que.

WILLIMOTT, 1883.

94 Pyroxene Gneiss.—Dark coloured.

Lot 22, Range 5, Wakefield Township, Ottawa County, Que.

WILLIMOTT, 1883.

95 Biotite Gneiss.—Light coloured; coarse grained.
Lot 24, Range 4, Wakefield Township, Ottawa County, Que.
WILLIMOTT, 1883.

96 Biotite Gneiss.—Pink; coarse grained.
Lot 24, Range 4, Wakefield Township, Ottawa County, Que.
WILLIMOTT, 1883.

97 Pyroxene Granite Gneiss.
Lot 12 (?), Range 6, Hull Township, Ottawa County, Que.
BRUMELL.

98 Gneiss.—Mottled black and white.
Lot 10, Range 14, Hull Township, Ottawa County, Que.
WILLIMOTT, 1883.

99 Granite (Pegmatite).—Coarsely crystalline.
Lot 9, Range 12, Hull Township, Ottawa County, Que.
WILLIMOTT, 1883.

100 Pyroxene Gneiss.—Dark coloured.
Christian's Quarry, Hull Township, Ottawa County, Que.
WILLIMOTT, 8-7-85.

101 Orthoclase Gneiss.—Red: contains magnetite and pyrrhotite.
Bristol Iron Mines, Lot 21, Range 4, Pontiac County, Que.
WILLIMOTT, 1883.

102 Hornblende Gneiss.
Lot 21, Range 2, Bristol Township, Pontiac County, Que.
WILLIMOTT, 25-6-85.

103 Orthoclase Gneiss.—Red.
Thorne Township, Pontiac County, Que.

104 Biotite Gneiss.
Thorne Township, Pontiac County, Que.

105 Biotite Gneiss.—Dark coloured: holds magnetite and hematite.
One mile and a half north of Norcliffe, Gendreau Township, Lake Kippewa, Pontiac County, Que.
BARLOW, A. E., 15-8-92.

CENTRAL ONTARIO.

LANARK TO VICTORIA COUNTIES INCLUSIVE, WITH DISTRICTS OF MUSKOKA AND PARRY SOUND.

106 Orthoclase Gneiss.—Red.
Lot 10, Range 1, Pittsburg Township, Frontenac County, Ont.

107 Granite.—Red.
Kingston, Frontenac County, Ont.

108 Granite (Pegmatite).
Lot 6, Range 13, Loughborough Township, Frontenac County, Ont.

109 Hornblende Gneiss.
Lot 26, Range 6, Oso Township, Frontenac County, Ont.

110 "Augen" Gneiss.
Fall River, Bathurst Township, Lanark County, Ont.

111 Hornblende Granite Gneiss.—Contains red felspar and epidote.
Ramsay Township, Lanark County, Ont.

112 Hornblende Gneiss.
Lot 24, Range 6, Horton Township, Renfrew County, Ont.

113 Orthoelase Granite Gneiss.—Red.
The first chute, Bonnechère River, Horton Township, Renfrew County, Ont.
MURRAY, A., August, 1853.

114 Hornblende Gneiss.
Lot 22, Range 2, Ross Township, Renfrew County, Ont.
WILLIMOTT, 12-9-79

115 Hornblende Gneiss.
Lot 9, Range 1, Westmeath Township, Renfrew County, Ont.

116 Pegmatitie Granite.—Pink; coarse grained.
Lot 14, Range A, Westmeath Township, Renfrew County, Ont.

117 Hornblende Gneiss, and Orthoelase Gneiss (red).—Interbanded.
High Falls, Chalk River, Lot 9, Range 5, Buchanan Township, Renfrew County, Ont.

118 Orthoelase Gneiss.—Red.
High Falls, Chalk River, Range 5, Buchanan Township, Renfrew County, Ont.
WILLIMOTT.

119 Biotite Gneiss, and Orthoelase Gneiss (red).—Interbanded.
Above high cliffs, Petawawa River, Renfrew County, Ont.
RICHARDSON, 1853.

120 Orthoelase Gneiss.—Red.
Lot 17, Range 5, Lyndoch Township, Renfrew County, Ont.
WOOD, H. O.

121 Biotite Gneiss.
Lots 10 and 11, Range (?), Lyndoch Township, Renfrew County, Ont
WOOD, H. O.

122 Orthoelase Gneiss.—Rather coarse grained.
Lot 5 (east ½), Range 6, Madoc Township, Hastings County, Ont.
COSTE, E., 1884.

123 Orthoclase Gneiss.—Red; coarse grained; contains pyrite.

Lots 20 and 21, Range 3, Madoc Township, Hastings County, Ont.

COSTE, E., 24-7-84.

124 Orthoclase Gneiss.—Rather coarse grained; contains biotite and hornblende.

Copeway Lake, Red Mountains, Lake Township, Hastings County, Ont.

COSTE, E., 14-10-84.

125 Orthoclase Gneiss.—Rather coarse grained; contains biotite and hornblende.

Coe Hill Mine, Wollaston Township, Hastings County, Ont.

COSTE, E., 1885.

126 Garnetiferous Gneiss.—Grey.

Wollaston Township, Hastings County, Ont.

COSTE, E., 1-9-84.

127 Hornblende Gneiss, and Orthoclase Gneiss (red).—Interbanded.

Lot 29, Range 6, Dummer Township, Peterborough County, Ont.

COSTE, E., 12-9-84.

128 Diorite Gneiss.

Somerville, near Burnt River, on Kinmount and Fenelon Falls Road, Victoria County, Ont.

COSTE, E., 1885.

129 Garnetiferous Gneiss.—Grey.

"The Narrows," Lake of Bays, Muskoka River, McLean Township, Muskoka District, Ont.

MURRAY, A., 1853.

130 Garnetiferous Gneiss.—Rusty weathering.

First Falls above the Lake of Bays, Muskoka River, Franklin Township, Muskoka District, Ont.

MURRAY, A., 1853.

131 Biotite Gneiss, and Orthoclase Gneiss (red).—Interstratified.

West end of Fairy Lake, Muskoka River, Chaffey Township, Muskoka District, Ont.

MURRAY, A., 1853.

132 Biotite Gneiss.—Rusty weathering.

West side of Fairy Lake, Chaffey Township, Muskoka District, Ont.

MURRAY, A., 1853.

133 Granite (Pegmatite).—Red; coarse grained.

Three miles north-east of Squandeburg, 15 miles north-west of Parry Sound Village, Shawanaga Township, Parry Sound District, Ont.

BELL, 1876.

134 Hornblende Gneiss.—Fine grained.

Rapids on Distress River, Maganetawan River, Parry Sound District, Ont.

BELL, 1876.

135 Hornblende Gneiss.—Fine grained.

Falls of Maganetawan River, Parry Sound District, Ont.

BELL, 1876.

136 Biotite "Augen" Gneiss.—Rusty weathering.
Falls at Station 16, Maganetawan River, Parry Sound District, Ont.
BELL, 5-7-76.

DISTRICTS OF NIPISSING AND ALGOMA.

137 Gneiss.—Grey; fine grained.
Between Eau Claire and Rutherglen, Calvin Township, Nipissing District, Ont.
BARLOW, A. E., 1892.

138 Mica Gneiss.—Fine grained; rusty weathering.
Between Eau Claire and Rutherglen, Calvin Township, Nipissing District, Ont.
BARLOW, A. E., 1892.

139 Garnetiferous Hornblende Gneiss.—Pink.
Callander Station, C. P. Railway, Himsworth Township, Nipissing District, Ont.
SELWYN, 1884

140 Hornblende Gneiss.—Rather coarse grained.
Sturgeon Falls, C. P. Railway, Springer Township, Nipissing District, Ont.
SELWYN, 1884.

141 Biotite Hornblende Gneiss.—Coarse grained.
Veuve River, west of C. P. Railway Station, Dunnet Township, Nipissing District, Ont.
SELWYN, 30-7-84.

142 Gneiss.—Banded dark grey and white.
Veuve River Quarry, C. P. Railway, Dunnet Township, Nipissing District, Ont.
SELWYN, 1884.

143 Hornblende Biotite Gneiss.
West of North Bay, Nipissing District, Ont.
BRUMELL, 21-7-84.

144 Mica Gneiss.—Fine grained.
East of Lake Nipissing, Nipissing District, Ont.
MURRAY, A., 1884

145 Gneiss.—Reddish; fine grained.
Timber Berth 20, south of Maskinongé Island, west arm of Lake Nipissing, Nipissing District, Ont.
BARLOW, A. E., 1892

146 Hornblende Gneiss, and Orthoclase Gneiss (red).—Interbanded.
Timber Berth 20, south of Maskinongé Island, west arm of Lake Nipissing, Nipissing District, Ont.
BARLOW, A. E., 1892.

147 Biotite Gneiss.—Grey; fine grained.
One mile and a half east of Markstay Station, C. P. Railway, Hagar Township, Nipissing District, Ont.

148 Hornblende Gneiss.—Garnetiferous.

Wahnapitae Station, C. P. Railway, Dryden Township, Nipissing District, Ont.

SELWYN, 19-7-84.

149 Hornblende Granite.—Pinkish; fine grained; contains sulphides of iron and copper.

Missanabie Station, C. P. Railway, Algoma District, Ont.

SELWYN, 6-9-91.

150 Hornblende Granite Gneiss.—Medium grained.

869th mile post, three miles west of Schreiber Station, C. P. Railway, Algoma District, Ont.

SELWYN, 1891.

151 Biotite Gneiss.—Mottled grey and red.

Between Serpent River and Kenabutch Station, C. P. Railway, Algoma District, Ont.

BRUMELL, 17-7-84.

152 Hornblende Granite Gneiss.—Red felspar.

Straight Lake Station, C. P. Railway, Moncrieff Township, Algoma District, Ont.

BARLOW, A. E., 1892.

153 Hornblende Gneiss.—Porphyritic.

Seven-eighths of a mile west of Cartier Station, C. P. Railway, Cartier Township, Algoma District, Ont.

SKYNNER, 17-8-88.

154 Hornblende Gneiss.—Dark grey; banded.

A short distance east of Murray Mine, Lot 11, Range 5, McKim Township, Nipissing District, Ont.

BARLOW, A. E., 1892.

155 Granite Gneiss.—Fine grained; hornblende inclusions.

Murray Mine, Lot 11, Range 5, McKim Township, Nipissing District, Ont.

BELL.

156 Hornblende Granite.—Squeezed; porphyritic.

On line between Ranges 3 and 4, quarter mile west of post between Lots 11 and 12, Garson Township, Nipissing District, Ont.

BARLOW, A. E., 1890.

157 Mica Diorite Gneiss.—Contains much cyanite.

Lot 9, Range 3, Dryden Township, one-half mile east of Wahnapitae Station on C. P. Railway, Nipissing District, Ont.

BARLOW, A. E., 1890.

158 Orthoclase Granite Gneiss.—Red; rather coarse grained.

East end of Carrying Lake, between Lake Temogami and Montreal River, Nipissing District, Ont.

BARLOW, A. E., 1888.

159 Orthoclase Granite Gneiss.—Red.

Timber Limit 69, north shore of Wavy Lake, Algoma District, Ont.

BARLOW, A. E., 1891.

160 Granite Gneiss.—Red.

Hill south of portage from Baby into Daisy Lake, Lot 6, Range 1, Township of Neelon, Nipissing District, Ont.

BARLOW, A. E., 1891.

161 Mica Diorite Gneiss.

Kettle Fall Portage, Abittibi River, Nipissing District, Ont.

COCHRANE, 1877.

162 Biotite Gneiss.—Red.

Abittibi River, Nipissing District, Ont.

COCHRANE, 21-7-77.

163 Biotite Gneiss.

Rock Portage, Abittibi River, Nipissing District, Ont.

COCHRANE, 17-7-77.

EAST COAST OF HUDSON BAY.

164 Granitic Rock consisting of Orthoclase, Quartz and Garnet.

South-west point of Sherrick's Mountain, Hudson Bay.

BELL, 1877.

165 Hornblende Granite Gneiss.

Fox Island, about four miles from Paint Hills, Hudson Bay.

BELL, 1877.

DISTRICTS OF NIPISSING AND ALGOMA.—*Continued.*

(ALGOMA.)

166 Granite Gneiss.—Chloritic.

Three miles N. E. from Gros Cap, Lake Superior, Algoma District, Ont.

MURRAY, A., 25-7-60.

167 Hornblende Granite Gneiss.—Red felspar with epidote.

Creek three miles south of Goulais River, Lake Superior, Algoma District, Ont.

MURRAY, A., 25-7-60.

168 Hornblende Gneiss.—Porphyritic.

Base of mountain, east of Amygdaloid Point, north of camp on Batchewahnung Bay, Lake Superior, Algoma District, Ont.

MURRAY, A., 1860.

169 Granite Gneiss.—Reddish grey; chloritic.

Third station west of Harmony River, Lake Superior, Algoma District, Ont.

MURRAY, A., 9-8-60.

170 Biotite Granite Gneiss.—Reddish.

Two miles north of Pointe aux Mines, Lake Superior, Algoma District, Ont.

BELL, 1876.

171 Museovite Gneiss.—Greenish grey.

Pointe aux Mines, Lake Superior, Algoma District, Ont.

SELWYN, 21-8-82.

172 Hornblende Gneiss, and Orthoclase Gneiss (red).—Interbanded.

Cape Gargantua, Lake Superior, Algoma District, Ont.

LOGAN, 1846.

173 Biotite Gneiss.—Pinkish grey.

Opposite Lizard Island, Lake Superior, Algoma District, Ont.

BELL, 1876.

174 Granite Gneiss.—Light pink.

Extreme point of Otter Head, Lake Superior, Algoma District, Ont.

SELWYN, 1882.

175 Biotite Gneiss.—Pinkish grey.

Coldwater River on C. P. Railway, 45 miles east of Port Arthur, Dorion Township, Algoma District, Ont.

SELWYN, 1882.

176 Diorite Gneiss.

C. P. Railway track, ¼ mile west of Onaping Station, Dowling Township, Algoma District, Ont.

BELL, 19-9-89.

177 Hornblende Granite Gneiss.—Red felspar, and epidote.

West of Bannerman Lake, C. P. Railway, Moncrieff Township, Algoma District, Ont.

SELWYN, 1884.

178 Hornblende Granite Gneiss.

West of Bannerman Lake, C. P. Railway, Moncrieff Township, Algoma District, Ont.

SELWYN, 1884.

179 Hornblende Granite Gneiss.

West of Bannerman Lake, C. P. Railway, Moncrieff Township, Algoma District, Ont.

SELWYN, 1884.

180 Orthoclase Gneiss (red), and Hornblende Schist.—Shows contact between these two rocks.

Chapleau Station, C. P. Railway, north shore of Lake Superior, Algoma District, Ont.

SELWYN, 5-9-91.

DISTRICT OF THUNDER BAY.

181 Granitie Rock.—White; coarse grained.

Dog Lake, Thunder Bay District, Ont.

McINNES, 14-8-90.

182 Biotite Gneiss.—Reddish; fine grained.

Dog Lake, Thunder Bay District, Ont.

McINNES, 15-8-90.

183 Hornblende Schist.
Dog Lake, Thunder Bay District, Ont.
McInnes, 16-8-90.

184 Hornblende Granite.—Bright red.
Dog Lake, Thunder Bay District, Ont.
McInnes, 15-8-90.

185 Hornblende Gneiss.—Black: fine grained.
Dog Lake, Thunder Bay District, Ont.
McInnes, 14-8-90.

186 Hornblende Granite Gneiss.—Reddish: rather coarse grained.
Dog Lake, Thunder Bay District, Ont.
McInnes, 12-8-90.

187 Biotite Gneiss.
Dog Lake, Thunder Bay District, Ont.
McInnes, 16-8-90.

188 Biotite Gneiss.
Kaministiquia River, Ware Township, Thunder Bay District, Ont.
McInnes, 9-8-90.

189 Biotite Gneiss.
Buda Station, C. P. Railway, Thunder Bay District, Ont.
McInnes, 11-10-92.

190 Hornblende Gneiss.
North-east of Trout Lake, Thunder Bay District, Ont.
McInnes, 4-8-91.

191 Biotite Gneiss.—Light grey.
Little Trout Lake, Thunder Bay District, Ont.
McInnes 31-7-90.

192 Biotite Gneiss.—Light grey.
Kashabowie Lake, Thunder Bay District, Ont.
McInnes, 27-7-91.

193 Hornblende Gneiss.—Pink.
Crayfish River Thunder Bay District, Ont.
McInnes, 13-8-91.

194 Biotite Granite Gneiss.—Coarse grained.
North of Shebandowan Lake, Thunder Bay District, Ont.
McInnes, 6-9-91.

195 Biotite Granite Gneiss.—Coarse grained.
Crayfish River, Thunder Bay District, Ont.
McInnes, 14-8-91.

196 Biotite Granite Gneiss.—Light grey: medium grained.
Lake Kaishibushkosiokok, Thunder Bay District, Ont.
McInnes, 25-8-92.

DISTRICT OF RAINY RIVER.

(I.—RAINY LAKE AREA.)

197 Hornblende Gneiss.—Pinkish: fine grained.

Elbow of north shore of lake south-east of Crooked Pine Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

198 Muscovite Granite Gneiss.—Medium grained.

East shore of Elbow Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

199 Biotite Granite Gneiss.—Pink.

North shore of Crooked Pine Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

200 Biotite Granite Gneiss.—Reddish: fine grained.

Island in Kawoganiskok Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

201 Hornblende Biotite Gneiss.—Pink.

North shore of Kawoganiskok Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

202 Muscovite Gneiss.—Coarse grained.

West end of lake, south of Atikokan River, Rainy River District, Ont.

SMITH, W. H., 1889.

203 Biotite Granite (Pegmatite).—Coarse grained.

Magnetic Lake, Rainy River District, Ont.

SMITH, W. H., 1889.

204 Biotite Granite.—Red.

Foot of small lake west of Deux Rivières Portage, Rainy River District, Ont.

SMITH, W. H., 1889.

205 Hornblende Granite Gneiss.—Red.

Small island in Batchewanung Lake, Rainy River District, Ont

SMITH, W. H., 1889

206 Hornblende Granitoid Gneiss.—Coarse grained.

One-half mile north of Jones' Lake, Big Turtle River, Rainy River District Ont

LAWSON, 25-8-85.

207 Hornblende Gneiss.—Flesh coloured.

(Laurentian at contact with Keewatin)
Mouth of Big Turtle River, Rainy River District, Ont.

LAWSON, 28-8-85.

208 Biotite Granite Gneiss.

(Laurentian at contact with Keewatin)
Otukamamoan Lake, west side, 3¼ miles south of north end, Rainy River District, Ont.

LAWSON, 1887.

209 Gneiss.—Coarsely crystalline; porphyritic.

North side of Crow Rock Inlet, Rainy Lake, Rainy River District, Ont.

LAWSON, 19-8-85.

210 **Granitoid Gneiss.**—Grey.

Island one mile west of Sand Point Island, Rainy Lake, Rainy River District, Ont.

LAWSON, 1886.

211 **Hornblende Granite Gneiss.**—Coarsely crystalline: spotted with red felspar.

Manitou River, 1 mile south of Porcupine Portage, Rainy Lake, Rainy River District, Ont.

LAWSON, 1886.

212 **Hornblende Syenite Gneiss.**—Coarse grained: little or no biotite.

West side of Sphene Lake, Rainy River District, Ont.

LAWSON, 1886.

213 **Biotite Gneiss** Traversed by a somewhat schistose band of fine grained grey granite.

North arm of Ash Bay, Rainy Lake, Rainy River District, Ont.

LAWSON, 1887.

214 **Hornblende Granite Gneiss.** Coarse grained.

Island 3 miles north-east of Pither's Point, Rainy Lake, Rainy River District, Ont.

LAWSON, 1886.

215 **Hornblende Granite Gneiss.**—Coarse grained.

(Laurentian at contact with Keewatin)
Pipestone Lake, Rainy River District, Ont.

LAWSON, 1886.

216 **Biotite Gneiss.**

West side of Rainy Lake, one-half mile west of Shoe Bay, Rainy River District, Ont

LAWSON, 1887.

DISTRICT OF RAINY RIVER.

(II. LAKE OF THE WOODS AREA.)

217 **Biotite Granite, passing into Gneiss.**

Dog Tooth Lake, Lake of the Woods, Ont.

LAWSON, 1-7-84

218 **Gneiss.** Green and reddish: massive.

Blindfold Lake, Lake of the Woods, Ont.

LAWSON 30-6-84.

219 **Biotite Gneiss.** Green and reddish: massive.

Long Lake, east of Pine Portage Mine, Lake of the Woods, Ont.

LAWSON, 7-7-85.

220 **Hornblende Gneiss.** Grey: coarse grained: porphyritic.

Quarry Island, Lake of the Woods, Ont

LAWSON, 25-6-84.

221 Gneiss.—Red; porphyritic.

(Laurentian near contact with Keewatin)
50 chains west of Darlington Bay, C. P. Railway, Lake of the Woods, Ont.

LAWSON, 1-7-85

222 Syenitic Gneiss.—Salmon coloured.

North entrance of Sabascosing Bay, Lake of the Woods, Ont.

LAWSON, 9-6-84.

223 Biotite Granite Gneiss.—Grey.

Falcon Island, Lake of the Woods, Ont.

LAWSON, 13-6-84.

224 Hornblende Gneiss.

American Point, south side of North-west Angle Inlet, Lake of the Woods, Ont.

TYRRELL, J. W., 15-10-84.

225 Biotite Granite Gneiss.—Coarse grained.

Clear Water Bay, Lake of the Woods, Ont.

LAWSON, 4-9-84.

LAKE WINNIPEG AND VICINITY.

226 Biotite Granite.—Red.

Silver Falls, Winnipeg River, Man.

TYRRELL, J. B., 17-9-91.

227 Mica Diorite Gneiss.—Grey.

Pine Falls, Winnipeg River, Man.

TYRRELL, J. B., 17-9-91.

228 Gneiss.—Grey and red banded.

South of Black River, Lake Winnipeg, Man.

TYRRELL, J. B., 16-9-91.

229 Mica Diorite Gneiss.—Grey.

Station 142*a*, Lake Winnipeg, Man.

TYRRELL, J. B., 7-9-91.

230 Mica Diorite Gneiss. Red.

First rapid on Black River, Lake Winnipeg, Man.

TYRRELL, J. B., 8-9-91

231 Biotite Granite Gneiss. Reddish; rather coarse grained; porphyritic.

Black River, Lake Winnipeg, Man.

TYRRELL, J. B., 8-9-91.

232 Biotite Granite Gneiss.—Reddish; medium grained.

Turtle Lake, Lake Winnipeg, Man.

TYRRELL, J. B., 10-8-91.

233 Granite Gneiss. Pinkish white; rather coarse grained contains much muscovite.

Near Portage 11, Lake Winnipeg, Man

TYRRELL, J. B., 14-8-91.

234 **Biotite Gneiss.**—Red; coarse grained.
North-west end of English Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 25-8-91.

235 **Mica Diorite Gneiss.** Dark coloured.
North-west side of English Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 25-8-91.

236 **Granite.**—Red; coarse grained; very poor in bisilicates.
North of Steep Rock River, Lake Winnipeg, Man.
TYRRELL, J. B., 11-7-91.

237 **Granite Gneiss.**—Light grey; fine grained.
Island in Bailthroat Bay, Lake Winnipeg, Man.
TYRRELL, J. B., 6-10-90.

238 **Biotite Granite Gneiss.**
Loon Island, Lake Winnipeg, Man.
TYRRELL, J. B., 26-9-90.

239 **Biotite Granite Gneiss.**—Reddish; medium grained.
Creek opposite Bull Head, Lake Winnipeg, Man.
TYRRELL, J. B., 24-8-90.

240 **Hornblende Granite Gneiss.**
Poplar Point, Lake Winnipeg, Man.
TYRRELL, J. B., 11-9-90.

241 **Hornblende Granite.**—Much squeezed and altered.
Poplar River, Lake Winnipeg, Man.
TYRRELL, J. B., 10-9-90.

242 **Mica Diorite Gneiss.**—Grey.
Lake Winnipeg, Man.
TYRRELL, J. B., 6-8-90.

243 **Biotite Granite Gneiss.**
Spider Island, Lake Winnipeg, Man.
TYRRELL, J. B., 5-9-90.

244 **Mica Diorite.**—Reddish; coarse grained.
Lat 53° 35', Lake Winnipeg, Man.
TYRRELL, J. B., 2-9-90.

245 **Mica Diorite Gneiss.**—Grey; fine grained.
Goose Island, Playgreen Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 28-8-90.

246 **Biotite Granite Gneiss.**—Reddish.
Playgreen Lake, near Warren's Landing, Lake Winnipeg, Man.
TYRRELL, J. B., 28-8-90.

247 **Biotite Granite Gneiss.**—Reddish.
Little Playgreen Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 30-8-90.

248 **Hornblende Gneiss.**—Dark coloured; fine grained.
Little Playgreen Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 30-8-90.

249 Mica Diorite Gneiss.—Rather coarse grained.
Playgreen Lake, Lake Winnipeg, Man.
TYRRELL, J. B., 25-8-90.

250 Biotite Granite.—Red; coarse grained.
Rocky Island, Lake St. Martin, Lake Winnipeg, Man.
TYRRELL, J. B., 7-7-90.

KEEWATIN DISTRICT.

251 Muscovite Granite. Coarse grained; contains garnets.
Beaver Hill Lake, Keewatin.
COCHRANE, 1879.

252 Biotite Granite Gneiss.—Grey; fine grained.
God's Lake, Keewatin.
COCHRANE, 1879.

253 Biotite Granite Gneiss.—Grey; fine grained.
Oxford Lake, Narrows between the Doorway and Wa-pin-ai-pin-is, Keewatin.
BELL, 1878.

254 Biotite Granite Gneiss.—Grey; fine grained.
Dinner Place, Cross Lake, Keewatin.
BELL, 29-8-78.

NORTH-WEST TERRITORY.

255 Biotite Gneiss.—Dark greenish grey.
Deer River, North-west Territory.
DOWLING, 6-9-92.

256 Hornblende Granite Gneiss.
Churchill River, North-west Territory.
DOWLING, 20-9-92.

257 Biotite Gneiss.—Grey; porphyritic crystals of red felspar.
Churchill River above Whitefish River, North-west Territory.
DOWLING, 14-9-92.

258 Granite (Pegmatite). Coarse grained.
Reindeer Lake, North-west Territory.
DOWLING, 10-10-92.

259 Biotite Gneiss. Grey; medium grained.
Deer River, North-west Territory.
TYRRELL, J. B., 4-7-92.

260 Biotite Granite Gneiss.—Red.
Pelican Rapids, Churchill River, North-west Territory.
TYRRELL, J. B., 19-9-92.

261 Hornblende Granite Gneiss.—Garnetiferous.
Churchill River below Pine River, North-west Territory.
TYRRELL, J. B., 17-9-92.

262 Biotite Granite Gneiss.—Reddish: rather coarse grained: contains some hornblende.
Whitefish River, North-west Territory.
TYRRELL, J. B., 11-9-92.

263 Hornblende Granite Gneiss.—Reddish: rather coarse grained.
River flowing into Whitefish Lake, North-west Territory.
TYRRELL, J. B., 9-9-92.

264 Hornblende Granite Gneiss.—Grey: fine grained: rusty stains.
Lake north of Little Whitefish Lake, North-west Territory.
TYRRELL, J. B., 7-7-92.

265 Mica Diorite Gneiss.
Near lake on Whitefish River, North-west Territory.
TYRRELL, J. B., 12-9-92.

266 Biotite Granite Gneiss.—Red.
Small lake on Drifting River, North-west Territory.
TYRRELL, J. B., 5-9-92.

267 Hornblende Granite.—Coarse grained.
Small lake on Drifting River, North-west Territory.
TYRRELL, J. B., 29-8-92.

268 Granitoid Gneiss.—Red: fine grained: much decomposed.
Falls on Drifting River, North-west Territory.
TYRRELL, 28-8-92.

269 Hornblende Biotite Gneiss.
Wollaston Lake, North-west Territory.
TYRRELL, J. B., 20-8-92.

270 Biotite Granite Gneiss. Red.
River flowing into Cree Lake, North-west Territory.
TYRRELL, J. B., 13-7-92.

271 Garnetiferous Biotite Gneiss. Coarse grained.
Small island in Little Sandy Lake, North-west Territory.
TYRRELL, J. B., 9-7-92.

272 Hornblende Gneiss. Dark grey: porphyritic red felspar crystals.
North-west end of Black Lake, two miles S. W. of Wolverine River, North-west Territory.
TYRRELL, J. B., 5-8-92.

273 Garnetiferous Granite Gneiss. Red: fine grained.
Athabasca Lake, twelve miles west of Black River, North-west Territory.
TYRRELL, J. B., 27-7-92.

274 Biotite Granite Gneiss.—Grey; fine grained.
Athabasca Lake, North-west Territory.
TYRRELL, J. B., 27-7-92.

275 Orthoclase Granite Gneiss (Red), and Hornblende Granite Gneiss.—Interbanded; fine grained.
Fort Chipewyan, Lake Athabasca, North-west Territory.
McCONNELL, 1-7-90.

SOUTHERN INTERIOR OF BRITISH COLUMBIA.

276 Muscovite Granite Gneiss.—Rusty weathering.
Sugar Lake, Yale District, British Columbia.
McEvoy, 26-8-91.

277 Biotite Granite Gneiss.—Rusty weathering.
Shuswap River, Yale District, British Columbia.
McEvoy, 2-9-91.

278 Biotite Granite Gneiss.—Rusty weathering.
Shuswap River, Yale District, British Columbia.
McEvoy, 4-9-91.

279 Muscovite Granite Gneiss.—Rusty weathering.
Spallumcheene River, Yale District, British Columbia.
McEvoy, 24-9-91.

280 Biotite Gneiss.—Fine grained; rusty weathering.
Mabel Lake, Yale District, British Columbia.
McEvoy, 4-9-91.

281 Biotite Gneiss.—Fine grained.
Mabel Lake, Yale District, British Columbia.
McEvoy, 4-9-91.

282 Graphitic Gneiss.—Fine grained; rusty weathering.
Mabel Lake, Yale District, British Columbia.
McEvoy, 4-9-91

283 Granitic Rock.—Greenish; coarse grained; rusty weathering.
Mabel Lake, Yale District, British Columbia.
McEvoy, 4-9-91.

284 Biotite Granite Gneiss.—Rusty weathering.
Mabel Lake, Yale District, British Columbia.
McEvoy, 5-9-91.

285 Pyroxene Gneiss (?).—Contains pyrite.
Mabel Lake, Yale District, British Columbia.
McEvoy, 6-9-91.

286 Hornblende Gneiss.—Dark coloured.
Steamous Mountain, Yale District, British Columbia.
McEvoy, 15-9-91.

287 **Biotite Granite.**—Coarse grained.
Sicamous Mountain, Yale District, British Columbia.
McEvoy, 15-9-91.

288 **Biotite Granite Gneiss.**—Garnetiferous.
Sicamous Mountain, Yale District, British Columbia.
McEvoy, 15-9-91.

289 **Hornblende Gneiss.** Medium grained.
East of Spallumcheen River, Yale District, British Columbia.
McEvoy, 14-9-91.

290 **Biotite Granite Gneiss.**—Garnetiferous.
Sicamous Mountain, Yale District, British Columbia.
McEvoy, 18-9-91.

291 **Biotite Granite Gneiss.** Fine grained.
Near Chase Creek, Yale District, British Columbia.
McEvoy, 23-6-92.

292 **Biotite Granite Gneiss.** Medium grained.
Mount Christie, Yale District, British Columbia.
McEvoy, 18-9-92.

293 **Biotite Granite Gneiss.** Medium grained.
Craigellachie, Yale District, British Columbia.
McEvoy, 23-9-92.

294 **Biotite Granite Gneiss.** Very schistose.
Victor Lake, Yale District, British Columbia.
McEvoy, 21-9-92.

295 **Biotite Granite Gneiss.**—Fine grained; rusty weathering.
Three Valley Lake, Yale District, British Columbia.
McEvoy, 21-9-92.

296 **Biotite Granite.**—Coarse grained; highly garnetiferous.
East of Three Valley Lake, Yale District, British Columbia.
McEvoy, 21-9-92.

297 **Biotite Granite Gneiss.** Garnetiferous; medium grained.
Camp of this date. Yale District, British Columbia.
McEvoy, 11-9-92.

YUKON DISTRICT.

298 **Biotite Granite Gneiss.** Coarse grained.
Yukon River, North-west Territory.
McConnell, 16-8-88.

299 **Biotite Granite Gneiss.** Medium grained.
Yukon River, North-west Territory.
McConnell, 14-8-88.

300 **Biotite Granite Gneiss.** Garnetiferous.
Yukon River, North-west Territory.
McConnell, 13-8-88.

CRYSTALLINE LIMESTONES AND DOLOMITES.

QUEBEC, ONTARIO AND NORTH-WEST TERRITORIES.

301 Limestone.—Crystalline; micaceous.

River St. Maurice above Grand Piles, St. Maurice County, Que.

Low, 23-7-91.

302 Limestone.—Crystalline; micaceous.

River St. Maurice, St. Maurice County, Que

Low, 7-7-91

303 Serpentine Limestone.

River St. Maurice above Grand Piles, St Maurice County, Que.

Low, 22-7-91.

304 Serpentine Limestone.

Lot 8, Range 14, Caxton Township, St. Maurice County, Que.

McConnell, 1880.

305 Limestone.—White; crystalline.

Three miles north-west of Lac'oix Rapids, Matawan River, Maskinongé County, Que

Adams, 1887.

306 Limestone. Grey; crystalline; contains pyroxene and mica.

Lot 14, S. E. Range 2, Provost Township, Berthier County, Que.

Adams, 17-9-83.

307 Limestone.—Pinkish white; crystalline; contains pyroxene.

Gold Mine, Kildare Township, Joliette County, Que.

Ord, 13-6-79.

308 Serpentine Limestone.—Contains mica.

Rawdon Township, Montcalm County, Que.

Adams, 23-7-87.

309 Limestone. Greenish white; coarsely crystalline; contains pyroxene, &c.

About one mile in a north-easterly direction from St. Sauveur, Terrebonne County, Que.

Adams, 1882.

310 Limestone.—Bluish white; crystalline; contains mica, pyroxene, pyrrhotite, &c.

St. Sauveur, Terrebonne County, Que.

Vennor, 10-7-79.

311 Serpentine Limestone.

Lot 13 (south ½), Range 5, Grenville Township, Argenteuil County, Que.

Willimott, 15-7-78

312 Limestone.—Bluish white; crystalline; contains mica, pyroxene, pyrrhotite, &c.

Millers's Mine, Lot 5, Range 10, Grenville Township, Argenteuil County, Que.

Willimott, 1878.

313 **Limestone.**—Crystalline: contains graphite and wollastonite.

Lot 10, Range 5, Grenville County, Argenteuil County, Que.

314 **Serpentine Limestone.**—Contains *Eozöon Canadense*.

Lot 2, Range 8, Templeton Township, Ottawa County, Que.

ELLS.

315 **Serpentine Limestone.**—Contains much bright yellow serpentine.

Cote St. Pierre, La Petite Nation Seigniory, Ottawa County, Que.

ELLS.

316 **Limestone.** Bright salmon colour: contains green apatite.

Lot 29, Range 2, Wakefield Township, Ottawa County, Que.

WILLIMOTT.

317 **Serpentine Limestone.**—Dark coloured: micaceous.

Lot 5, Range 11, Hull Township, Ottawa County, Que.

WILLIMOTT, 1883.

318 **Limestone.**—Bright pink: crystalline.

Gow's Mine, Hull Township, Ottawa County, Que.

WILLIMOTT, 1883.

319 **Limestone.** Salmon coloured: crystalline: micaceous.

Grand Falls, Calumet Island, Pontiac County, Que.

WILLIMOTT, 1879.

320 **Limestone.**—Greyish white: crystalline: contains pyroxene.

Lot 17, Range 11, Calumet Township, Pontiac County, Que.

WILLIMOTT, 1878.

321 **Dolomitic Limestone.**—Greenish white; rusty weathering; patches of light green mica.

Calumet Portage, Pontiac County, Que.

VENNOR.

322 **Dolomitic Limestone.** White.

Lot 25, Range 6, Ramsay Township, Lanark County, Ont.

WILLIMOTT, 25-6-85.

323 **Limestone.**—Salmon coloured; contains green apatite.

Lot 18, Range 2, Huntley Township, Carleton County, Ont.

324 **Dolomitic Limestone.**—White.

Burgess Township, Lanark County, Ont.

325 **Limestone.** White; crystalline; highly micaceous.

Lot 4, Range 7, Loughborough Township, Frontenac County, Ont.

VENNOR.

326 **Dolomitic Limestone.** White.

Point on east side of Canoe Lake, Loughborough Township, Frontenac County, Ont.

VENNOR.

327 Dolomite. White: very fine grained.
Lot 28, Range 9, Barrie Township, Frontenac County, Ont.
WILLIMOTT, 23-11-85.

328 Limestone.—Bluish white: crystalline: micaceous.
Lot 10, Range 1, Horton Township, Renfrew County, Ont.
McMULLEN, 1858.

329 Dolomite.—Bluish white.
Muskrat Rapids, Bonnechere River, Horton Township, Renfrew County, Ont.
LOGAN, 1845.

330 Dolomite.—Pinkish: compact.
Ross Township, Renfrew County, Ont.

331 Limestone.—Bluish: fine grained.
Lot 8, Range 8, Ross Township, Renfrew County, Ont.
McMULLEN, 1858.

332 Limestone.—Salmon coloured: highly micaceous.
Lot 1, Range 5, Ross Township, Renfrew County, Ont.
McMULLEN, 1858.

333 Limestone.—Salmon coloured: contains pyroxene.
Lot 1, Range 1, Ross Township, Renfrew County, Ont.
McMULLEN, 1858.

334 Dolomite.—White.
Lot 21, Range 5, Ross Township, Renfrew County, Ont.
McMULLEN, 1858.

335 Limestone.—Salmon coloured: highly micaceous.
Lot 20, Range B, Westmeath Township, Renfrew County, Ont.
McMULLEN, 1858.

336 Limestone. White: highly micaceous.
Lot 9, Range 1, Westmeath East, Renfrew County, Ont.
McMULLEN, 1858.

337 Limestone. Blue: micaceous.
Lot 5, Range 1, Westmeath Township, Renfrew County, Ont.
McMULLEN, 1858.

338 Serpentine Limestone.
Lot 4, Range 8, Bromley Township, Renfrew County, Ont.
WILLIMOTT.

339 Limestone.—Greenish: micaceous.
Lot 20, Range 3, Bromley Township, Renfrew County, Ont.
WILLIMOTT.

340 Limestone.—Salmon coloured: contains green and red apatite.
Furness Island, Lake Clear, Sebastopol Township, Renfrew County, Ont.
WILLIMOTT, 16-7-84.

341 **Limestone.**—Pinkish white: contains red apatite and phlogopite.

Lot 31, Range 10, Sebastopol Township, Renfrew County, Ont.

WILLIMOTT, 1881

342 **Dolomite.**—White.

Lot 5, Range 1, Lyndoch Township, Renfrew County, Ont.

WOOD, H. O.

343 **Dolomitic Limestone.**—White.

Manitowabin Lake, Parry Sound District, Ont.

BELL, 1876.

344 **Limestone.** Bluish white: contains much pyroxene.

Roberts Inlet, Parry Sound District, Ont.

BELL, 12-7-76.

345 **Limestone.**—Light pink: coarsely crystalline: with some pyroxene.

Lot 28, Range 1, McDougall Township, Parry Sound District, Ont.

BELL, 1876.

346 **Dolomitic Limestone.** Yellowish green: rusty weathering: serpentinous.

Outlet of Lake Talon, Nipissing District, Ont.

BELL, 1876

347 **Dolomitic Limestone.** Greenish white: rusty weathering.

Outlet of Lake Talon, Nipissing District, Ont.

BELL, 1876

348 **Limestone.**—Brownish white: micaceous.

S. W. end of Iron Island, Lake Nipissing, Nipissing District, Ont.

BARLOW, A. E., July, 1892

349 **Limestone.** Red: siliceous.

Is and A, East Bay, east end of Lake Nipissing, Nipissing District, Ont.

MURRAY, 1846.

350 **Limestone.**—Greyish white: highly micaceous.

Churchill River, North-west Territories.

DOWLING, 23-9-92.

ANORTHOSITES.

NORTH SHORE OF RIVER ST. LAWRENCE.

351 **Anorthosite.** Violet grey: compact: blotched with hypersthene.

Falls of the Mingan River, north shore of River St. Lawrence, Que.

352 **Anorthosite.** Light violet: compact.

Sheldrake, north shore of River St. Lawrence, opposite west end of Anticosti Island

SELWYN, 27-7-89

SAGUENAY AREA.

353 Anorthosite.—Grey; granular; imbedded masses of plagioclase.

Bridge over Rivière aux Sables, four miles from Lake Kenogami, Chicoutimi County, Que.

ADAMS, 10-9-83.

354 Anorthosite.—Grey; granular; imbedded masses of plagioclase showing a rude parallel arrangement.

Bridge over Rivière aux Sables, four miles from Lake Kenogami, Chicoutimi County, Que.

ADAMS, 10-9-83.

355 Anorthosite. Grey; granular; imbedded masses of plagioclase.

North Shore of Lake Kenogami, about one mile and a half west of Rivière aux Sables, Lartigue Township, Chicoutimi County, Que.

ADAMS, 6-6-83.

356 Anorthosite. Grey; granular; imbedded masses of plagioclase.

North shore of Lake Kenogami, two and a half miles east of the Picauba River, Chicoutimi County Que.

ADAMS, 9-6-83.

357 Anorthosite.—Grey; granular; imbedded masses of plagioclase.

NOTE.—The plagioclase masses are, however, more numerous and smaller in size than these in No. 356, and are arranged parallel to one another.

North shore of Lake Kenogami, Chicoutimi County, Que.

ADAMS, 6-6-83.

358 Anorthosite.—Grey; granular; a few imbedded masses of plagioclase.

North shore of Lake Kenogami, Chicoutimi County, Que.

ADAMS, 6-6-83.

359 Anorthosite.—Bluish grey; but little imbedded plagioclase.

Mouth of Metabetchouan River, Metabetchouan Township, Chicoutimi County, Que.

ADAMS, 11-8-83.

360 Anorthosite.—Bluish grey; imbedded plagioclase.

Mouth of Metabetchouan River, Metabetchouan Township, Chicoutimi County, Que.

LOW, 1-8-90.

361 Anorthosite.—Dark coloured; shows foliation.

South shore of Lake Kenogami, Chicoutimi County, Que.

ADAMS, 9-6-83.

362 Anorthosite. Well foliated; rich in magnesia iron silicates.

Bridge over Rivière aux Sables, four miles from Lake Kenogami, Chicoutimi County, Que.

ADAMS, 1883.

363 Anorthosite.—Greyish blue.

NOTE.—Intermediate in character between the granular white anorthosite and the more massive rock of Nos 367 and 368.

Lake Kenogami, about three-quarters of a mile west of Picauba River, Chicoutimi County, Que.

ADAMS, 14-7-83.

364 Anorthosite.—Greenish: foliated.

Falls of River Shipshaw, near discharge of Saguenay River, Simard Township, Chicoutimi County, Que.

ADAMS, 2-8-83.

365 Anorthosite. Violet: shows no foliation in hand specimen.

Grand Falls on Belle Rivière, Chicoutimi County, Que.

ADAMS, 25-7-83.

366 Anorthosite.—Violet: shows no foliation in hand specimen.

River Saguenay, one mile and a half from River Dorval, Chicoutimi County, Que.

ADAMS, 6-8-83.

367 Anorthosite.—Dark violet; massive or almost massive; composed essentially of plagioclase and olivine, the the latter surrounded by the double zone as in No. 361.

East shore of Lake St. John, one mile and a half south of Little Discharge, Signai Township, Chicoutimi County, Que.

ADAMS, 27-8-83.

368 Anorthosite.—Dark violet; same as No. 367.

East shore of Lake St. John, one mile and a half south of Little Discharge, Signai Township, Chicoutimi County, Que.

ADAMS, 27-8-83.

369 Anorthosite. Dark violet; same as No. 367.

Island in River Saguenay, about one-half mile below portage of Alma, Chicoutimi County, Que.

ADAMS, 8-8-83.

370 Anorthosite.—Near contact with the gneiss; hand specimen shows no foliation.

East end of Bon Portage, Lake Kenogami, Chicoutimi County, Que.

ADAMS, 8-7-82.

371 Anorthosite. Violet.

About one mile and a half north of Hebertville, Labarre Township, Chicoutimi County, Que.

ADAMS, 29-8-83.

372 Pyroxene Hornblende Plagioclase Rock. Contains iron ore, zircon, quartz, and orthoclase, occurs between the true anorthosite and the gneiss.

South shore of Lake Kenogami, three miles from west end, Plessis Township, Chicoutimi County, Que.

ADAMS, 16-8-82.

373 Gabbro.—Fine grained; forms a "stock" which crosses the lake; specimen taken from near its eastern contact with the gneiss.

South shore of Lake Kenogami, Chicoutimi County, Que.

ADAMS, 6-6-83.

374 Anorthosite.—From the most easterly exposure of Ha! Ha! Bay "stock."

Head of Ha! Ha! Bay, Saguenay River, Chicoutimi County, Que.

ADAMS, 17-9-83.

375 Anorthosite.—Dark grey.

Head of Ha! Ha! Bay, Saguenay River, Chicoutimi County, Que.

ADAMS, 22-8-82.

376 Anorthosite.—Dark violet: composed of hornblende, mica, diallage, rhombic pyroxene (?) pyrite, &c.

Head of Ha! Ha! Bay, Saguenay River, Chicoutimi County, Que.

ADAMS, 28-6-82.

377 Anorthosite.—Dark coloured.

NOTE.—This specimen which is so much finer in grain than No. 376, comes from the same "stock," and is only about three feet distant.

Head of Ha! Ha! Bay, shore east of hotel, Saguenay River, Chicoutimi County, Que.

ADAMS, 28-5-83.

378 Anorthosite.—Dark violet.

Lot 21, Road Range N, Jonquieres Township, Chicoutimi County, Que.

LOW, 2-8-92.

BAIE ST. PAUL AND CHÂTEAU RICHER.

379 Anorthosite.—Greenish grey.

Cran Blanc, Côte Beaupré Seigniory, Parish of St. Jérôme, Charlevoix County, Que.

LOW, 14-8-90.

380 Anorthosite.—Pink; massive.

Baie St. Paul, Parish of St. Jérôme, Charlevoix County, Que.

LOW, 12-8-90.

381 Anorthosite. Greenish brown.

Côte Beaupré Seigniory, Parish of St. Jérôme, Charlevoix County, Que

LOW, 12-8-90.

382 Anorthosite.—Yellowish grey: rusty weathering: patches of a reddish violet tinge.

(Described. See Ferrier in Appendix to Part L, page 78, No. 4, Annual Report, Geol. Surv. Can., Vol. V., 1889-90-91.)

Lot 8, S. W. Range, Sault à la Puce, Montmorenci County, Que.

LOW, 1891.

383 Anorthosite.—Greyish; fine grained; an almost purely felspathic rock; indistinctly foliated.

(Described. See Ferrier in Appendix to Part L, page 78, No. 5, Annual Report, Geol. Surv. Can. Vol. V., 1889-90-91.)

Château Richer, on road up Bras du Sault à la Puce, one-half mile above junction of road in rear of concession, Lots 64-63, Montmorenci County Que.

LOW 19-6-91.

384 Anorthosite.—Light greenish yellow.

(Described. See Ferrier in Appendix to Part L, page 77, No. 3, Annual Report, Geol. Surv. Can., Vol. V., 1889-90-91.)

Lot 13, North-east Range, Sault à la Puce, Montmorenci County, Que.

Low, 16-6-91.

385 Anorthosite.—Pink and green; fine grained; consists largely of plagioclase.

(Described. See Ferrier in Appendix to Part L, page 79, No. 6, Annual Report, Geol. Surv. Can., Vol. V., 1889-90-91.)

Lots 63-64, Château Richer, 100 yards south of locality of No. 383, Montmorenci County, Que.

Low, 16-6-91.

386 Anorthosite.—Light greenish grey; almost exclusively felspathic: the felspar grains are almost entirely plagioclase.

(Described. See Ferrier in Appendix to Part L, page 80, No. 11, Annual Report, Geol. Surv. Can., Vol. V., 1889-90-91.)

Where road along Sault à la Puce crosses lot 68, Château Richer, Montmorenci County, Que.

Low, 16-6-91.

387 Anorthosite.—Olive green; one of the fine grained plagioclase rocks in which bisilicates are almost entirely wanting.

(Described. See Ferrier in Appendix to Part L, page 81, No. 20, Annual Report, Geol. Surv. Can., Vol. V., 1889-90-91.)

200 yards from contact, on road back from Ste. Anne Church, in front of 2nd Range, Sault à la Puce, Montmorenci County, Que.

Low, 17-6-91.

TERREBONNE AND MONTCALM COUNTIES.

388 Anorthosite.—White; foliated; partially altered to saussurite (?).

West side of River Achigan, New Glasgow Township, Terrebonne County, Que.

Adams, 11-9-82

389 Anorthosite.—Dark green; foliated.

West side of River Achigan, New Glasgow Township, Terrebonne County, Que.

Adams, 11-9-82.

390 Anorthosite.—Grey; very fine grained; composed entirely of plagioclase.

Line between Townships of Rawdon and Kilkenny, Montcalm County, Que

Adams, 12-9-82.

391 Anorthosite. Dark coloured; coarsely crystalline.

Road between Kilkenny and New Glasgow, Montcalm County, Que.

Adams, 12-9-82

392 Anorthosite.—Rich in iron ore.

Lot 7, Range 1, Wexford Township, Terrebonne County, Que.

Adams, 12-9-82

393 Anorthosite.—Dark green ; rudely foliated.

Near railroad station, St. Jérôme, Terrebonne County, Que.

ADAMS, 7-10-85.

394 Anorthosite.—Very dark coloured ; nearly massive.

North-west of Ste. Adèle, Township of Abercrombie, Terrebonne County, Que.

ADAMS, 9-9-82.

395 Anorthosite.—Very dark in colour ; nearly massive.

East of the 1st Rauge, Morin Township, Terrebonne County, Que.

ADAMS, 7-9-82.

396 Anorthosite.—Dark violet.

NOTE.—The most massive variety in the great anorthosite mass of Morin and Wexford Townships.

Front of Range 3, Morin Township, Terrebonne County, Que.

ADAMS, 28-10-85.

397 Anorthosite.—Dark coloured ; massive.

One mile and a quarter west of St. Sauveur, St. Sauveur Township, Terrebonne County, Que.

ADAMS, 6-9-82.

ERUPTIVES.

(Associated with Laurentian Rocks)

QUEBEC, ONTARIO AND BRITISH COLUMBIA.

398 Diabase.—Dark coloured ; very coarse grained.

Great Point, south-west side of Seven Islands Bay, Saguenay County, Que.

RICHARDSON, 1869.

399 Diabase.—Very dark coloured ; fine grained.

Pointe de Monts, Saguenay County, Que.

SELWYN, 14-7-89.

400 Dioritic Rock.—Dark grey ; very fine grained.

East Main River, Que.

LOW, 21-7-92.

401 Granite.—Yellowish white ; rather coarse grained.

Lake Obatagoman, East Main River, Que.

LOW, 24-6-92.

402 Dyke Rock.—Cutting anorthosite. The dyke is from two to three feet wide, with well defined walls, and shows no banding.

Falls of Shipshaw River, Simard Township, Chicoutimi County, Que.

ADAMS, 12-9-83.

403 Dyke Rock.—Cuts the gneiss. (See No. 52.)

Lac Vert, Township of Mesy, County of Chicoutimi, Que.

ADAMS, 19-7-82.

404 Granitic Veinstone.—Fine grained : cuts No. 23.

East end of Bon Portage, Lake Kenogami, County of Chicoutimi, Que.

Adams, 17-8-83.

405 Porphyry.—Reddish brown : well defined crystals of red felspar.

Lot 8, Ranges 7 and 8, Chatham Township, Argenteuil County, Que.

406 Hornblende Granite.—Red. This is the "syenite" of Sir Wm. Logan.

Lot 3, Range 5, Grenville Township, Argenteuil County, Que.

407 Porphyry.—Blackish green : very compact ; spotted red, brown and black.

Lot 4, Range 6, Grenville Township, Argenteuil County, Que.

408 Trap Dyke.—Very fine grained.

Lot 8, Range 4, Buckingham Township, Ottawa County, Que.

409 Veinstone.—Concretionary.

Lot 7, Range 7, Portland Township, West, Ottawa County, Que.

Torrance, J. F., 1883.

410 Pyroxenite.—Contains apatite.

Crown Hill Mine, Lot 4, Range 7, Portland Township, West, Ottawa County, Que.

Ingall, 22-10-88.

411 Pyroxenite.—White.

Lot 11, Range 7, Templeton Township, Ottawa County, Que.

Ells.

412 Diabase.—Dark coloured ; very coarse grained.

Lot 24, Range 7, Horton Township, Renfrew County, Ont.

413 Hornblende Syenite.

Moss Marsh, Hastings County, Ont.

Coste, 24-7-84.

414 Diorite.—Coarse grained.

One mile and a half north of Noreliffe, Township of Gendreau, Lake Kippawa, Ont.

Barlow, A. E., 1892.

415 Hornblende Granite.—Rather coarse grained.

Three miles south of Pointe aux Mines, Lake Superior, Algoma District, Ont.

Bell, 1876.

416 Biotite Granite.—White : medium grained.

Granite Mountain, north side of Michipicoten River, above Long Portage, Algoma District, Ont.

Bell, 1877.

417 Hornblende Granite.—Pink : rather coarse grained.

Pic River, Lake Superior, Thunder Bay District, Ont.

Logan, 1846.

418 Syenite.—Dark red; fine grained.
Princes Location, Lake Superior, Thunder Bay District, Ont.
LOGAN, 1846.

419 Porphyroid Granite.—Dark grey.
West side of Falcon Island, Lake of the Woods, Ont.
LAWSON, 1884.

420 Dyke Rock.—Composed chiefly of mica, quartz, felspar and hornblende; cuts gneiss.
On island, north end of Falcon Island, Lake of the Woods, Ont.
LAWSON, 25-8-84.

421 Dyke Rock.—Cuts Laurentian. A recent eruptive.
Mabel Lake, Yale District, British Columbia.
McEVOY, 5-9-91.

422 Dyke Rock.—Porphyritic.
Sicamous Mountain Township, Yale District, British Columbia.
McEVOY, 20-9-91.

A. B.—PRE-CAMBRIAN.

NOVA SCOTIA.

(LAURENTIAN ?)

423 Mica Schist.—Grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

424 Mica Schist.—Grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

425 Chloritic Schist.—Green.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

426 Chloritic Schist.—Green.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

427 Talco-Micaceous Schist.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880

428 Gneiss.—Grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

429 Serpentinous Schist.—Greenish grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

430 Talco-micaceous Schist.—Greenish grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

431 Talco-micaceous Schist.—Grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

432 Hornblende Schist.—Dark grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

433 Chloritic Schist.—Green; rusty weathering.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

434 Hornblende Schist.—Dark greenish grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

435 Hornblende Gneiss.—Very dark grey.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

436 Muscovite Granite.—Very coarse grained.
Middle River, Victoria County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

437 Volcanic Ash Rock.—Greenish grey.
Road between Mira and Catalone Lakes, Cape Breton County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

438 Nacreous Schist.—Brownish grey.
Watson Brook, Coxheath Hills, Cape Breton County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

439 Chloritic Schist.—Light green.
Coxheath Hills, Cape Breton County, Cape Breton Island, N.S.
FLETCHER, H., 1880.

440 Slate.—Red.
Coxheath, Cape Breton County, Cape Breton Island, N.S.
FLETCHER, H.

441 Agalmatolite Slate.—Red.
Arisaig (Frenchman's Barn), Antigonish County, N.S.
WESTON, 1869.

442 Volcanic Ash Rock.—Mottled; felspathic.
Arisaig (Frenchman's Barn), Antigonish County, N.S.
WESTON, 1869.

443 Agglomerate.—Chloritic; squeezed.
Moose River, Pictou County, N.S.
FLETCHER, H., 1886.

444 Spotted Schist—Green; chloritic.
Moose River, Pictou County, N.S.
FLETCHER, H., 1886.

445 Chloritic Schist.—Green; finely laminated.
Moose River, Pictou County, N.S.
FLETCHER, H., 1886.

446 Sericitic Schist.—Brownish yellow.
Moose River, Pictou County, N.S.
FLETCHER, H., 1886.

447 Chloritic Schist.—Greenish grey; thinly laminated.
East brauch of Moose River, Pictou County, N.S.
FLETCHER, H., 1886.

NEW BRUNSWICK.

(LAURENTIAN ?)

448 Hornblende Granite Gneiss.—Greenish grey, and pink; rusty weathering.
Howes' Road, St. John, St. John County, N.B.
HUNT, 1869.

449 Hornblende Granite.—Greenish grey and pink.
Howes' Road, St. John, St. John County, N.B.
HUNT, 26-7-69.

450 Hornblende Granite Gneiss.—Red: contains much epidote.
Howes' Road, St. John, St. John County, N.B.
HUNT, 21-7-69.

451 Hornblende Granite.—Mottled green and pink.
South side of Long Island, Kennebacasis Bay, King's County, N.B.
MATTHEW, G. F., 1876.

452 Hornblende Granite Gneiss.—Green and pink; medium grained.
West side Musquash Harbour, St. John County, N.B.

(HURONIAN ?)

453 Felsite.—Pinkish; hard: schistose.
Road from Lepreau Village to Ragged Falls on Lepreau River, Charlotte County, N.B.
ELLS, 5-8-78.

454 Hornblende Schist.—Fine grained.
New River road, Charlotte County, N.B.
ELLS, 6-8-78.

455 Schist.—Green; chloritic and felspathic.
South side of Jones' Cove, St. John River, King's County, N.B.
ELLS, 14-8-78.

456 Epidotic and Chloritic Rock.—Light green.
Nerepis (Mackenzie's), Westfield Parish, King's County, N.B.
HUNT, 1869.

457 Ash Rock.—Greenish grey.
The Mill, Barnesville, King's County, N.B.
BAILEY, 1878.

458 Mica Schist.—Greenish; rusty weathering.
Near Fowler's Corner, King's County, N.B.
BAILEY, 1878.

459 Felsite.—Purple.
Mechanics Settlement, King's County, N.B.
ELLS, 5-9-77.

460 Talco-micaceous Schist.—Greenish pink.
Pollet River, Albert County, N.B.
ELLS, 5-6-77.

461 Felsite.—Green; hard; slaty.
Pollet River, one mile south of Elgin Corner, Albert County, N.B.
ELLS, 1876.

462 Felsite.—Dark grey; hard; flinty; contains pyrite.
Pecks' Creek, Albert County, N.B.
ELLS, 13-7-77.

463 Felsite.—Reddish and greenish.
Mile Brook, Albert County, N.B.
ELLS, 9-8-77.

464 Ash Rock.—Purple; felspathic.
Big Salmon River, St. John County, N.B.
ELLS, 16-8-77.

465 Felspathic Grit.—Purple. In places this rock is a conglomerate.
Big Salmon River, St. John County, N.B.
ELLS, 15-8-77.

466 Chloritic Slate.—Green.
Big Salmon River, St. John County, N.B.
ELLS, 1877.

467 Slate.—Light green.
Martin's Head, St. John County, N.B.
ELLS, 11-8-77.

468 Slate.—Green; chloritic and calcareous.
Martin's Head, St. John County, N.B.
ELLS, 11-8-77.

469 Chloritic Schist.—Green; clear quartz grains.
Mouth of Wolf River, west side, Albert County, N.B.
ELLS, 9-8-77.

470 Talco-micaceous Schist.—Purplish grey.
Vernon Copper Mine, St. John County, N.B.
ELLS, 11-8-77.

471 Hydro-mica Schist.—Light yellowish green.
Pollet River, Albert County, N.B.

ELLS, 9-6-77.

472 Ash Rock.—Brownish; felspathic.
Barnesville, King's County, N.B.

BAILEY, 77-75.

473 Mica Schist.—Grey; glistening.
Hammond, King's County, N.B.

BAILEY, 1877.

474 Grit.—Purple; micaceous.
Black River, Simmonds Parish, St. John County, N.B.

BAILEY, 1877.

475 Slate.—Green; hard; felspathic.
Bridge near mouth of Black River, Simmonds Parish, St. John County, N.B.

BAILEY, 1877.

476 Ash Rock.—Greenish; slaty; felspathic; contains clear grains of quartz.
South of dam on Little New River, Charlotte County, N.B.

MATTHEW, 1876.

477 Felsite Schist.—Yellowish white; fine grained; micaceous; contains pyrite.
West side of Beaver Harbour, Pennfield Parish, Charlotte County, N.B.

(KINGSTON SERIES.=HURONIAN?)

478 Talco-chloritic Schist.—Green.
Bostwick Brook, Kingston Parish, King's County, N.B.

MATTHEW, 1876.

479 Felsite Schist.—Greyish; micaceous.
Bostwick Brook, Kingston Parish, King's County, N.B.

MATTHEW, 1876.

480 Schist.—Dark coloured; chloritic and hornblendic; rusty weathering.
Bostwick Brook, Kingston Parish, King's County, N.B.

MATTHEW, 1876.

481 Schist.—Green; chloritic and hornblendic.
Bostwick Brook, Kingston Parish, King's County, N.B.

MATTHEW, 1876.

482 Gneissoid Rock.—Consists of quartz, felspar and mica.
Big South-west Miramichi River, four miles below forks with north branch, Northumberland County, N.B.

ELLS, 4-8-90.

(HURONIAN ?)

483 Schist.—Light green; felspathic and micaceous; rusty weathering.

Mains Ledges, one mile above Libby Brook, Little South-west Miramichi River, Northumberland County, N.B.

ELLS, 20-7-80.

484 Gneissic Rock.—Dark grey: hornblendic.

North branch of Little South-west Miramichi River, Northumberland County, N.B.

ELLS, 17-7-80.

485 Felspathic Rock.—Reddish green; porphyritic.

South branch of Big Sevogle River, five miles below the Forks, N.B.

ELLS, 26-6-80.

486 Gneissic Rock.—Grey and pink; hornblendic.

South branch of Big Sevogle River, one mile below the Forks, N.B.

ELLS, 26-6-80.

487 Mica Slate.—Greyish; felspathic.

South branch of Big Sevogle River, one half mile below Big Brook, N.B.

ELLS, 28-6-80.

488 Chloritic Schist.—Green.

Little Falls, Tête-à-gauche River, N.B.

489 Chloritic Schist.—Green.

Small island in upper end of Nictor Lake, head of Tobique River, Restigouche County, N.B.

ELLS, 31-7-79.

490 Felsite.—Dark coloured; hard; flinty.

Nepisiguit River, vicinity of Portage Brook, Northumberland County, N.B.

491 Gneiss.—Greyish; fine grained; rusty weathering.

Blue Ledge, Nepisiguit River, two miles below south branch and four miles below Portage Brook, Northumberland County, N.B.

ELLS, 2-8-79.

492 Schist.—Greenish; felspathic and chloritic.

Nepisiguit River, one mile below Devil's Elbow, Northumberland County, N.B.

ELLS, 2-8-79.

493 Felsite.—Banded; chloritic; sometimes a felspathic schist.

Indian Falls, Nepisignit River, N.B.

ELLS, 4-8-79.

494 Schist.—Greyish green; felspathic; porphyritic.

North flank of Bald Mountain, Nictor Lake, Tobique River, Restigouche County, N.B.

ELLS, 31-7-79.

495 Schist.—Micaceous and felsitic; porphyritic.

Hills about head of Upsalquitch Lake, Northumberland County, N.B.

ELLS, 6-7-79.

496 Felspathic Schist.—Dark grey.
Bald Mountain, Indian Falls, Nepisiguit River, Restigouche County, N.B.

ELLS, 2-8-79.

497 Gneissic Rock. Greyish white; rusty weathering; contains clear grains of quartz.
Hills north side of Nepisiguit River, vicinity of Devil's Elbow, N.B.

ELLS, 2-8-79.

EASTERN TOWNSHIPS, QUEBEC.

(HURONIAN?)

498 Slate.—Light green: crumpled.
C. P. Railway, 2 miles west of Maine, U.S. boundary line, Ditchfield Township, Beauce County, Que.

ELLS, 28-8-85.

499 Mica Schist.—Green: chloritic.
Lot 12, Ranges 2 and 3, Marston Township, Compton County, Que.

ELLS, 26-8-85.

500 Epidotic Rock. Mottled grey and green.
Harvey Hill (?), Leeds Township, Megantic County, Quebec.

1884.

501 Chloritic Slate. Contains magnetite octahedrons
Lots 22 and 23, Range 11, Leeds Township, Megantic County, Que.

FERRIER, 27-7-91.

502 Ottrelite (Chloritoid) Schist.
Harvey Hill, Leeds Township, Megantic County, Que.

WILLIMOTT, 1877.

503 Mica Schist. Greyish: contains ottrelite.
Harvey Hill, Leeds Township, Megantic County, Que.

WILLIMOTT, 1877.

504 Chloritic Slate. Quartzose; holds bornite (purple copper ore.)
Harvey Hill, Leeds Township, Megantic County, Que.

WILLIMOTT, 1882.

505 Talc Schist. Light green: contains large crystals of siderite.
Harvey Hill, Leeds Township, Megantic County, Que.

WILLIMOTT, 1882.

506 Schist. Grey and white; hornblendic and dolomitic; cut by quartz veins.
Harvey Hill Mine, Leeds Township, Megantic County, Que.

WESTON, 1877.

507 Mica Schist. Greenish grey: cut by quartz veins supposed to be auriferous.

Lot 11, Range 5, Ireland Township, Megantic County, Que.

GIROUX, 6-10-85.

508 Chloritic Slate.—Dark greenish grey: contains crystals of siderite.

Moulton Hill Mine, Ascot Township, Town of Sherbrooke, Que.

WILLIMOTT, 27-6-92.

509 Schist.—Ochreous; chloritic, felspathic and micaceous; rusty weathering.

Lot 24, Range 4, Ascot Township, Town of Sherbrooke, Que.

ELLS, 27-7-85.

510 Talco-micaceous Slate. Grey: crumpled.

Lot 24, Range 4, Ascot Township, Town of Sherbrooke, Richmond County, Que.

ELLS, 27-7-85.

511 Chlorite Schist. Green.

Lot 8, Range 9, Ascot Township, Town of Sherbrooke, Que.

SELWYN, 29-7-85.

512 Magnetic Iron Ore. Associated with jasper.

From Stephen E. Smith's mine, Lot 21, Range 6, Ascot Township, Town of Sherbrooke, Que.

SELWYN, 29-7-85.

513 Dolomitic Serpentine. Grey; rusty weathering.

Lot 12, Range 6, Hatley Township, Stanstead County, Que.

SELWYN, 27-7-85

514 Felspathic Schist. Light grey.

Lot 15, Range 7, Hatley Township, Stanstead County, Que.

SELWYN, 29-7-85.

515 Slate. Dark grey: contains crystals of dolomite.

Lot 9, Range 7, Hatley Township, Stanstead County, Que.

SELWYN, 20-7-85.

516 Chloritic Slate.—Finely laminated.

Lot 17, Range 5, Potton Township, Brome County, Que.

LOCKWOOD, 15-10-79.

517 Schist. Micaceous and chloritic; finely laminated; glistening: rusty weathering.

Lots 7 and 8, Ranges 2 and 3, Potton Township, Brome County, Que.

WEBSTER, 1876.

518 Chloritic Schist—Bluish green: contains copper ore.

Huntingdon Copper Mine, Lot 8, Range 8, Bolton Township, Brome County, Que.

SELWYN, 1885.

519 Quartzoze Slate and Sandstone.—The slate is greenish grey in colour and hard.

Cutting on line of Missisquoi, Magog and Black River Railway, Lot 8, Range 7, Bolton Township, Brome County, Que.

SELWYN, 22-9-85.

520 Schist.—Light grey; fel-spathic and chloritic.
Lot 27, Range 6, Bolton Township, Brome County, Que.
WEBSTER, 10-7-78.

521 Micaceous and Hornblendic Rock.—Grey.
Cutting on line of Missisquoi, Magog and Black River Railway, Lot 8, Range 7, Bolton Township, Brome County, Que.
SELWYN, 22-7-85.

522 Schist.—Micaceous and felspathic; thinly laminated; glistening: rusty weathering.
Lot 1 (E. half), Range 8, Bolton Township, Brome County, Que.
SELWYN, 3-10-79.

HASTINGS, ADDINGTON, RENFREW, AND LANARK COUNTIES.

(HASTINGS GROUP OF H. G. VENNOR * —HURONIAN.)

523 Calc-Schist.—Dark grey.
Marmora Township, Hastings County, Ont.
VENNOR, 1866.

524 Whetstone Slate.—Grey. Adjoining conglomerate.
Madoc Village, Hastings County, Ont.
VENNOR, 1866.

525 Lime Shale.—Grey.
Hastings Road, Hastings County, Ont.
VENNOR, 1866.

526 Hornblende Schist.—Dark coloured.
Salmon River, west of Little Cedar Lake, Tyendinaga Township Hastings County, Ont.

527 Micaceous Schist.—Highly calcareous.
Lot 8, Range 7, Marmora Township, Hastings County, Ont.
COSTE, 1-8-86.

528 Micaceous Slate.—Grey; thinly laminated.
First Rapids on Deer River, above Belmont Lake, Hastings County, Ont.
VENNOR, 1866.

529 Steatitic Schist.—Highly charged with magnetic iron ore.
Bridgewater, Elzevir Township, Hastings County, Ont.
VENNOR, 1866.

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*NOTE.—The limestones have not been separated as they are a prominent feature of the series and the original names of the rocks, where given, have been retained.

530 Mica Slate. Light grey: finely laminated: glistening.
Lot 12, Range 1, Blythfield Township, Renfrew County, Ont.
WHITE, 1892.

531 Mica Schist. Light green: calcareous; contains pyrite.
Lot 12, Range 1, Blythfield Township, Renfrew County, Ont.
WHITE, 1892.

532 Schist. Green; steatitic and chloritic.
Lot 28, Range 1, Elzevir Township, Hastings County, Ont.
VENNOR, 1866.

533 Chloritic Schist. Dark green.
Lot 1, Range 12, Lavant Township, Lanark County, Ont.
WHITE, 1891.

534 Calc-schist. Grey: associated with dolomite.
Lot 25, Range 5, Madoc Township, Hastings County, Ont.
VENNOR, 1866.

535 Quartzite. Grey.
Lot 6, Range 5, Madoc Township, Hastings County, Ont.
COSTE, 8-5-84.

536 Quartzite. Grey.
Hastings Road between Keller's Brook and Bannockburn, Madoc Township, Hastings County, Ont.
VENNOR, 1866.

537 Conglomerate. Reddish: quartzose: stretched.
Dominion Mine, Lot 2, Range 2, Madoc Township, Hastings County, Ont.
COSTE, 9-5-84.

538 Conglomerate. Reddish: quartzose: stretched.
Kaladar Township, Addington County, Ont.
COSTE, 3-6-84.

539 Conglomerate. Reddish: quartzose: stretched.
Kaladar Township, Addington County, Ont.
MURRAY.

540 Limestone. Grey and white banded.
Lot 11, Range 1, Elzevir Township, Hastings County, Ont.
VENNOR, 1866.

541 Limestone (greyish white) and **Gneiss** (dark coloured). Interbanded.
Lot 25, Range 3, Marmora Township, Hastings County, Ont
VENNOR, 1866.

542 Limestone. Banded dark grey, and white.
Tudor Township, Hastings County, Ont.
VENNOR, 1866.

543 Sericitic Schist. Yellowish white: highly calcareous.
Quinnabog Falls, Madoc Township, Hastings County, Ont.
VENNOR, 1866.

544 Sericitic Schist.—Greenish grey; highly calcareous.

NOTE.—This rock adjoins the talcose slate on the south side of the conglomerate east of Madoc.

Madoc Township, Hastings County, Ont.

VENNOR, 1866.

545 "Blotched" Diorite.

Hole-in-the-Wall, Tudor Township, Hastings County, Ont.

VENNOR, 1866.

546 Hornblendic Schist.—Rusty weathering.

Addington Road, Kaladar Township, Addington County, Ont.

VENNOR, 17-10-69.

547

NOTE.—Owing to No. 539 occupying a space of two trays, No. 547 was left blank.

LIMESTONES.

NOVA SCOTIA, NEW BRUNSWICK, QUEBEC AND ONTARIO.

523A Limestone.—White; crystalline.

Marble Mountain, Richmond County, Cape Breton Island, N.S.

BROWN, 21-6-77.

524A Limestone.—Greyish; crystalline.

Mosely's Iron Mine, Cape Breton Island, N.S.

June 18th, 1877.

525A Limestone.—Greenish grey; compact.

One mile east of Malignant Cove, Arisaig Parish, Antigonish County, N.S.

HONEYMAN, 1870.

526A Limestone.—Bluish grey; very fine grained; compact.

Dry Brook, New Campbellton, Victoria County, Cape Breton Island, N.S.

527A Limestone.—Bluish grey; finely crystalline.

South shore of Long Island, King's County, N.B.

MATTHEW, 1876

528A Limestone.—White; finely crystalline.

Howe's Road, St. John County, N.B.

529A Limestone.—Mottled red and white; compact.

South side of Long Island, King's County, N.B

MATTHEW, 1876.

530A Limestone.—Bluish grey; finely crystalline.

Pleasant Valley, Albert County, N.B.

ELLS, 19-6-77.

531A Limestone.—Yellowish white; crystalline.
Near Kinnear's Mills, Leeds Township, Megantic County, Que.

532A Limestone.—Grey; compact; banded.
Lot 34, Range 3, Tudor Township, Hastings County, Ont.
WILLIMOTT, 1883.

ERUPTIVES.

NEW BRUNSWICK, QUEBEC AND ONTARIO.

533A Diorite. Dark coloured; massive.
South branch of the Nepisiguit River, N.B.
ELLS, 2-8-79.

534A Syenite. Red; fine grained; composed principally of a red felspar with a little hornblende.
Upper Titusville, Hammond River, King's County, N.B.
BAILEY, 1870

535A Hornblende Granite. Pink and grey.
East side of Lepreau Harbour, Charlotte County, N.B.
ELLS, 8-8-78.

536A Hornblende Syenite. Red; fine grained.
Two miles up from mouth of south branch, Nepisiguit River, N.B.
ELLS 1878.

537A Felsite. Dark green; mottled.
Long Settlement, King's County, N.B.
BAILEY, 1877.

538A Diorite. Dark coloured; coarse grained; schistose.
Mount Albert, Shickshock Mountains, Gaspé, Que.

539A Chromic Iron. Occurs in small veins and irregular pockets in serpentine.
Mount Albert, Shickshock Mountains, Gaspé, Que.

540A Serpentine. Reddish brown; banded; contains hypersthene.
Mount Albert, Shickshock Mountains, Gaspé, Que.
LOW, 16-7-87.

541A Hornblende Granite. Gneissic; medium grained.
Mount Albert, Shickshock Mountains, Gaspé, Que.

542A Olivine Rock.
Mountain south of 2nd Forks of Ste Anne River, Shickshock Mountains, Gaspé, Que
SELWYN, 1881.

543A Diorite.—Greenish grey; fine grained.

Lot 11, Ranges 7 and 8, Ascot Township, Town of Sherbrooke, Richmond County, Que.

WEBSTER, 28-8-88.

544A Trap.—Amygdaloidal; contains epidote.

St. Armand East, St. Armand Township, Missisquoi County, Que.

WILLIMOTT, Aug., 1882.

545A Hornblende Rock.—Coarsely crystalline.

Lot 21, Range 5, Hatley Township, Stanstead County, Que.

SELWYN, 8-10-79.

546A Trap. Greenish grey; fine grained; amygdaloidal.

Lot 25, Range 12, Cleveland Township, Richmond County, Que.

547A Diabase.—Dark grey; rather coarse grained.

The rock mass adjoining the magnetic iron.

Lot 8, Range 8, Marmora Township, Hastings County, Ont

B.—HURONIAN.

LABRADOR AND BELLE ISLE.

548 Steatite (Pipestone). Compact.

West side of Skynner's Cove, Nachvak, Labrador.

BELL, July, 1885.

549 Chloritic Schist.—Green.

West side of Cape Wolstenholm, Labrador.

BELL, 1885.

550 Felspathic Sandstone.—Dark greyish green.

Belle Isle, Que.

SELWYN, 22-7-89.

551 Shale.—Grey; altered.

Belle Isle, Que.

SELWYN, 22-7-89.

552 Felspathic Sandstone.—Grey; quartzose.

Belle Isle, Que.

SELWYN, 22-7-89.

553 Shale. Grey; altered.

Belle Isle, Que.

SELWYN, 22-7-89.

554 Sandstone. Tufaceous; distinctly banded.

Belle Isle, Que.

SELWYN, 22-7-89.

555 Dioritic Schist. Dark green.

Belle Isle, Que.

SELWYN, 22-7-89.

556 Sandstone. Dark grey; tufaceous.

Belle Isle, Que.

SELWYN, 22-7-89

557 Conglomerate. Light grey: fine grained; quartzose.
Belle Isle, Que.
SELWYN, 22-7-80.

558 Felspathic Sandstone. Greyish green.
Lake Obatagoman, East Main River, Que.
LOW, 24-6-92.

559 Hydro-mica Slate. Greyish green.
Lake Obatagoman, East Main River, Que.
LOW, 24-6-92.

560 Agglomerate. Coarse grained: felspathic.
Lake Chibougamoo, East Main River, Que.
LOW, 26-6-92.

561 Shale. Light greyish green: altered.
Lake Wakinidi, East Main River, Que.
LOW, 28-6-92.

562 Shale. Red: felspathic.
Lake Wakinidi, East Main River, Que.
LOW, 28-6-92.

563 Chloritic Schist. Dark greyish green.
East Main River, Que.
LOW, 29-7-92.

564 Quartzite. Grey: gneissic.
East Main River, Que.
LOW, 2-8-92.

565 Quartzite. Grey.
East Main River, Que.
LOW, 5-8-92.

566 Mica Schist Conglomerate.
East Main River, Que.
LOW, 7-8-92.

567 Schist. Light coloured; felspathic and quartzose: rusty weathering.
East Main River, Que.
LOW, 8-8-92.

PONTIAC COUNTY, QUEBEC.

568 Chloritic Schist. Dark green.
Outlet Portage, Shabogama River, Pontiac County, Que.
COCHRANE, 5-10-87.

569 Sandstone. Grey: shaly.
Wekwapatchikamaga Lake, Pontiac County, Que.
COCHRANE, 26-9-87.

570 Chloritic Schist. Contains interlaminated veins of white quartz.
From an 8-inch vein, Aubaska Lake, Pontiac County, Que.
COCHRANE, 30-9-87.

571 Hydro-mica Schist.—Light greyish green.
Anibaska Lake, Pontiac County, Que.
COCHRANE, 30-9-87.

572 Diorite.—Dark green; schistose; contains chlorite.
Shabogama Lake, Pontiac County, Que.
COCHRANE, 3-10-87.

DISTRICT OF NIPISSING.

573 Felspathic Sandstone.—Dark greyish green; fine grained; contains chlorite.
Foot of Granny's Point, Abittibi River, Nipissing District, Ont.
COCHRANE, 25-7-77.

574 Shale.—Grey; sandy.
The Two Portages, Abittibi River, Nipissing District, Ont.
COCHRANE, 25-7-77.

575 Quartzite.—Grey; banded.
Abittibi River, Nipissing District, Ont.
COCHRANE, 19-7-77.

576 Dioritic Schist.—Dark grey.
Foot of Long Portage, Abittibi River, Nipissing District, Ont.
COCHRANE, 16-7-77.

577 Felspathic Sandstone.—Coarse grained; contains chlorite.
Right bank of river, at the head of Sextant Rapids and Demi-Charge, Abittibi River, Nipissing District, Ont.
COCHRANE, 13-7-77.

HUDSON BAY.*

578 Quartzite. Greyish white; vitreous.
Marble Island, Hudson Bay.
BELL, 1884.

DISTRICTS OF NIPISSING AND ALGOMA.

579 Felspathic Agglomerate. Coarse grained.
Small island in Red Squirrel Lake, between Temagami Lake and Montreal River, Nipissing District, Ont.
BARLOW, A. E., 1888.

*NOTE.—This specimen is inserted here in order to bring it in its proper place in accordance with the general arrangement of the collection.

580 Jasper Conglomerate.
Bruce Mines, Lake Huron, Algoma District, Ont.
BELL, 1889.

581 Felspathic Agglomerate.
Onaping Creek, north of Moncrieff Township, Algoma District, Ont.
BELL, 1889.

582 Felspathic Agglomerate.
Campement d'Ours, Algoma District, Ont.
WESTON, 15-8-82.

583 Conglomerate.—Felspathic and quartzose.
Near Bruce Mines, Lake Huron, Algoma District, Ont.
BELL, 1888.

584 Slate.—Dark greenish grey; contains pebbles of red and grey syenite.
Echo Lake, Garden River, Algoma District, Ont.
WESTON, 21-7-82.

585 Arkose. Reddish; coarse grained.
South shore of Howey Lake, Timber Limit 90, Algoma District, Ont.
BARLOW, A. E., 1892.

586 Arkose. Reddish green.
East end of Van Winkle Lake, Timber Limit 90, Algoma District, Ont.
BARLOW, A. E., 1892.

587 Arkose. Reddish green.
East end of Van Winkle Lake, Timber Limit 90, Algoma District, Ont.
BARLOW, A. E., 1892.

588 Breccia. Dark green; chloritic.
West side of Lake Temiscaming, north end, Nipissing District, Ont.
BELL, 27-7-87.

589 Breccia.—Light pink.
Victoria Mine, Lake Huron, Algoma District, Ont.
WESTON, 27-7-82.

590 Brecciated Quartzite. Grey.
Eagle Lake, Lake Huron, Algoma District, Ont.
WESTON, 24-8-82.

591 Breccia. Dark green; chloritic.
Lot 3, Range 6, at angle of bend going west, Moncrieff Township, Algoma District, Ont.
SKYNNER, 26-8-88.

592 Breccia. Dark grey.
Station 28, Walker Lake, Algoma District, Ont.
BARLOW, A. E., July, 1891.

593 Breccia. Dark grey.
East shore of South-west Bay, Lake Temagami, Nipissing District, Ont.
BARLOW, A. E., 1887.

594 Breccia. Dark grey.
West end of Lake Panache, one mile and a half east of Township of Foster, Timber Limit 91, Algoma District, Ont.
BARLOW, A. E., 1891

595 Felspathie Sandstone.—Light brownish yellow; rusty weathering.

Island A, three and a half miles south-west of inlet into Lake Panache, Algoma District, Ont.

BARLOW, A. E., 1891.

596 Felspathie Sandstone.—Pink.

Machet.a, two miles west of Thessalon, Algoma District, Ont.

WESTON, 24-8-82.

597 Felspathic Sandstone.—Pinkish grey.

Three miles below Garden River Bay, Algoma District, Ont.

WESTON, 22-8-82.

598 Quartzite.—Grey.

Echo Lake, Algoma District, Ont.

WESTON, 21-7-82.

599 Shale.—Dark grey; quartzose.

Island three miles S. W. of Levase River or inlet of Panache Lake.

BARLOW, A. E., 1889.

600 Shale.—Dark grey; quartzose.

North shore of lake on Lot 6, Range 1, Louise Township, Algoma District, Ont.

BARLOW, A. E., 22-6-89.

601 Felspathic Sandstone.—Light greenish grey.

North-east part of White Bear Lake, en route from Temiscaming to Temagami *via* Metabetchouan River, Algoma District, Ont.

BARLOW, A. E., 1889.

602 Quartzite.—Dark grey.

West side of Lake Temiscaming, north end, Algoma District Ont.

BELL, 27-7-87.

603 Quartzite.—Dark grey; micaceous; rusty weathering.

One mile east of Lake Panache, Timber Berth 68, Algoma District, Ont.

BARLOW, A. E., 10-7-89.

604 Quartzite.—Dark grey.

Lot B on the Austin property, Echo Lake, Algoma District, Ont.

WESTON, 22-7-82.

605 Quartzite.—Dark grey.

West end of Ramsay Lake, Lot 5, Range 2, McKim Township, Nipissing District, Ont.

BELL, July, 1889.

606 Quartzite.—Greenish grey.

Two and a half miles north of Thessalon, Algoma District, Ont.

SELWYN, 11-8-88.

607 Quartzite.—Light grey.

East end of Ramsay Lake, Algoma District, Ont.

BELL, 1888.

608 Biotite Gneiss.—Dark grey.

Stobie Mine, Lot 5, Range 1, Blezard Township, Nipissing District, Ont.

BARLOW, A. E., 1889.

609 **Quartzite.**—Dark grey; contains small bands of red felspar.

Two miles below Eagle Point, Lake Huron, Algoma District, Ont.

WESTON, 24-8-82.

610 **Quartzite.**—Light lavender.

Algoma Mills, Algoma District, Ont.

SELWYN, 1887.

611 **Quartzite.**—Grey'sh white; vitreous.

Mount Skill, south of east end of Murphy's Lake, Algoma District, Ont.

BARLOW, A. E., 1889.

612 **Quartzite.**—Light greyish green.

Timber Limit 90, Mount Skill, south-west end of Murphy's Lake, Algoma District, Ont.

BARLOW, A. E., 1890.

613 **Quartzite.**—Light greenish grey; rusty weathering.

Station 10, Lake Panache, Algoma District, Ont.

BARLOW, A. E., 26-8-89.

614 **Quartzite.**—Dark grey; vitreous.

Lot 7, Range 4, on Emery Railway, Dryden Township, Nipissing District, Ont.

BARLOW, A. E., 1889.

615 **Quartzose Rock.**—Red; felspathic; contains veins of white secondary quartz.

Desert Lake, Algoma District, Ont.

WESTON, 3-8-83.

616 **Felspathic Sandstone.** Dark greenish grey; contains chlorite.

South-east shore of Portage Bay, Lake Temagami, Nipissing District, Ont.

BARLOW, A. E., 1887.

617 **Shale.** Dark grey; sandy; contains incipient crystals.

Sudbury Station of C. P. Railway, Algoma District, Ont.

BRUMELL, 8-7-84.

618 **Shale.**—Grey; sandy.

Timber Limit 81, north shore of Lac Panache, Algoma District, Ont.

BARLOW, A. E., 29-6-89.

619 **Felspathic Sandstone.**—Dark greenish grey; fine grained.

West side of mouth of Thessalon River, Lake Huron, Algoma District, Ont.

WESTON, 26-8-82.

620 **Felspathic Sandstone.** Dark grey; contains veins of calcite holding chalcopyrite.

One-half mile east of Thessalon River, Lake Huron, Algoma District, Ont.

WESTON, 26-8-82.

621 Felspathic Sandstone.—Dark green; holds pebbles of red syenite.

Bruce Mines, Lake Huron, Algoma District, Ont.

WESTON, 1882.

622 Shale.—Dark grey; evenly bedded.

One mile and three-quarters east of Algoma Mills, Algoma District, Ont.

BELL, 1888

623 Shale.—Dark greenish grey; banded.

Near Thessalon or Desert Lake, Algoma District, Ont.

WESTON, 3-8-82.

623a Shale.—Green; altered.

West end of Lake Panache, Timber Limit 91, one mile and a half east of Foster Township, District of Algoma, Ont.

BARLOW, A. E., 1889.

623b Shale.—Greyish green; sandy.

North shore of Moore Lake, Lot 5, Range 5, Creighton Township, Algoma District, Ont.

BARLOW, A. E., 1890.

624 Felspathic Shale.—Dark greenish grey; fine grained.

Two miles north of Sam Martin's Lake, on east side of Upper Wahnapitae River, Algoma District, Ont.

BELL, 1891.

625 Hydro-mica Shale.—Dark grey.

Between Vermilion and Spanish Rivers, Algoma District, Ont.

BRUMELL, 14-7-84.

626 Chloritic Schist.—Dark green.

Victoria Mine, Lake Huron, Algoma District, Ont.

WESTON, 27-7-82.

627 Mica Schist.—Contains crystals of staurolite.

Murray's Falls, Spanish River, Drury Township, Algoma District, Ont.

BELL, 16-8-91.

628 Quartzite.—Grey; micaceous; rusty weathering.

Between Spanish and Sable Rivers, C. P. Railway, Algoma District, Ont.

BRUMELL, 15-7-84.

629 Schist.—Light grey; rusty weathering.

Island east of Algoma District, Ont.

MURRAY, 1860.

630 Hydro-mica Schist.—Light grey.

Portage from Small Beaver Pond into Net Lake, north of north-east arm, Algoma District, Ont.

BARLOW, A. E., 1888.

631 Jaspery Iron Ore.—Banded.

South shore of Turtle Lake, north of the east arm, Lake Temagami, Algoma District, Ont.

BARLOW, A. E., 1888.

632 Limestone.—Dark grey: siliceous.

Shore of Lake Panache, south of Station 72, District of Algoma, Ont.

BARLOW, A. E., 28-6-89.

633 Dolomite.—Light grey: rusty weathering; contains reticulating veins of quartz.

Ferguson's Mine, east end of Temagami Lake, Nipissing District, Ont.

BELL, 23-8-87.

634 Limestone.—Grey: banded.

West side of Echo Lake, Algoma District, Ont.

BELL, 1889.

635 Limestone. Grey: banded.

Garden River, Algoma District, Ont.

WESTON, 1-8-82.

636 Dolomite. Pinkish white.

Islet in Geneva Lake, Lot 11, Range 4, Hess Township, District of Algoma, Ont.

BELL, 1888.

637 Felsite.—Dark grey; banded.

Behind Roman Catholic Church, Sudbury, Lot 6, Range 4, McKim Township, District of Nipissing, Ont.

BARLOW, A. E., 1889.

638 Tufaceous Sandstone.—Grey: much contorted.

Timber Limit 90, north shore of Van Winkle Lake, ten chains from east end, Algoma District, Ont.

BARLOW, A. E., 23-8-92.

639 Chlorite Schist. Veined with quartz.

First Narrows, Missinabie Lake, Algoma District, Ont.

SELWYN, 8-9-91.

DISTRICT OF THUNDER BAY.

640 Hydro-mica Schist.—Light grey.

Mine at Heron Bay Station, C. P. Railway, Thunder Bay District, Ont.

SELWYN, 1891.

641 Quartzite. Grey: banded.

Pic River, Thunder Bay District, Ont.

SELWYN, 1891.

642 Chlorite Schist.—Green: contains crystals of dolomite.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

643 Quartzite. Grey.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

644 Hydro-mica Schist.—Light grey.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

645 Hydro-mica Schist.—Dark greenish grey.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

646 Chloritic Schist.—Dark green; contains cubes of iron pyrites.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

647 Quartzite.—Grey: banded.

Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

648 Quartzite.—Light greyish green; slaty.

One mile east of Hudson Bay Company's Post, Michipicoten, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

649 Shale.—Dark greenish grey; micaceous; sandy.

South side of Pointe aux Mines, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

650 Shale.—Dark greyish green; banded; micaceous; sandy.

Point aux Mines, Lake Superior, Thunder Bay District, Ont.

SELWYN, 21-8-82.

651 Sandstone.—Dark grey; micaceous.

Cape Gargantua, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

652 Shale.—Light greyish green; sandy.

Cape Choyyé, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

653 Quartzite.—Grey; banded.

Cape Choyyé, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

654 Slate.—Dark blue; banded.

Mattawan River, about four miles above C. P. Railway crossing, Thunder Bay District, Ont.

McINNES, 31-7-90.

655 Conglomerate.—Siliceous; contains pebbles and fragments of flinty black slate.

Mattawan River, Thunder Bay District, Ont.

McINNES, 31-7-90.

656 Gneissoid Rock.—From contact. Principally quartz, felspar and mica; coarsely crystalline.

Dog Lake, Thunder Bay District, Ont.

McINNES, 13-8-90.

657 Mica Gneiss.—Fine grained; purplish.

Near contact with Laurentian. Crayfish Lake, Thunder Bay District, Ont.

McINNES, 7-8-91.

658 Diorite.—Fine grained; contains bands of impure magnetite.

Small lake about 10 miles south of Shebandowan Lake, Thunder Bay District, Ont.

McINNES, 26-9-91.

659 Chloritic and Felsitic Rock.—Light greenish grey : coarsely crystalline : quite schistose in places. (Near contact with the Laurentian.)

Lower Shebandowan Lake, Thunder Bay District, Ont.

McINNES, 28-7-90.

660 Felspathic Rock.—Greenish grey : slaty.

Greenwater Lake, Thunder Bay District, Ont.

McINNES, 9-9-90.

661 Hydro-mica Schist.—Greenish white, and white : weathering soft.

Greenwater Lake, Thunder Bay District.

McINNES, 8-9-90.

662 Chloritic and Felsitic Rock. Light greenish grey : coarsely crystalline : more massive than No. 659.

Lower Shebandowan Lake, Thunder Bay District, Ont.

McINNES, 9-9-90.

663 Slate. Bluish grey : contains crystals of iron pyrites.

Long narrow lake, four miles north of Middle Shebandowan Lake, Thunder Bay District, Ont.

McINNES, 2-9-90.

664 Felspathic Schist. White : weathering soft.

North shore of Greenwater Lake near its outlet, Thunder Bay District, Ont.

McINNES, 8-9-90.

665 "Whin"-like Rock. Blue grey ; fine grained : felspathic.

North-east shore of Greenwater Lake, Thunder Bay District, Ont.

McINNES, 10-9-90.

666 Dioritic Rock. Dark blue : fine grained : slaty.

North shore of Greenwater Lake, Thunder Bay District, Ont.

McINNES, 10-9-90.

667 Granitoid Schist. Reddish. (Near contact with the Laurentian).

Middle Lake Shebandowan, Thunder Bay District, Ont.

McINNES, 9-9-90.

668 Felspathic Schist. Dark grey : ferruginous.

East shore of Lac des Mille Lacs, Thunder Bay District, Ont

McINNES, 25-7-90.

669 Felspathic Schist. Blue grey : fine grained : fissile.

North shore of Upper Lake Shebandowan, Thunder Bay District, Ont.

McINNES, 7-9-90.

670 Felspathic Sandstone. Purplish : fine grained : highly micaceous : altered.

Crayfish Lake, Thunder Bay District, Ont.

McINNES, 7-8-90.

671 Felspathic Schist. Light greenish grey : pyritous.

Kekekuah Lake, Thunder Bay District, Ont.

McINNES, 2-9-90.

672 Felspathic Schist. – Light grey ; knotted : altered quartz porphyry (?)

Lower Lake Shebandowan, Thunder Bay District, Ont.

McINNES, 26-7-90.

673 Felspathic Schist. Greenish grey : chloritic.

Huronian Road, Moss Township, Thunder Bay District, Ont.

McINNES, 27-8-91.

674 Dioritic Rock.—Dark grey ; chloritic ; schistose.

East shore of Greenwater Lake, Thunder Bay District, Ont.

McINNES, 4-10-91.

675 Felspathic Schist. Greenish white : hard.

North shore of Middle Shebandowan Lake, Thunder Bay District, Ont.

McINNES, 8-9-91.

676 Felspathic Rock.—Dark greenish grey : calcareous ; fine grained : slaty in places.

Trout Lake, Thunder Bay District, Ont.

McINNES, 1-8-91.

677 Felspathic Rock.—Very light greenish grey : schistose ; white weathering.

Lower Lake Shebandowan, Thunder Bay District Ont.

McINNES, 7-9-91.

678 Chloritic Schist.—Greenish grey : fissile.

Upper Lake Shebandowan, Thunder Bay District, Ont.

McINNES, 25-7-90.

679 Dioritc.—Greenish grey : very hard.

Upper end of Lake Shebandowan, Thunder Bay District, Ont.

McINNES, 1-9-90.

680 Breccia.—Greenish grey : chloritic : schistose.

Huronian Mine ("country rock"), Moss Township, Thunder Bay District, Ont.

LAWSON.

681 Felspathic Schist.—Grey.

Huronian Mine ("country rock"), Moss Township, Thunder Bay District, Ont.

LAWSON.

DISTRICT OF RAINY RIVER.

(I.—RAINY LAKE AREA.)

682 Mica Schist.—Grey : fissile : rusty weathering.

Twelve Portages, Seine River, Rainy River District, Ont.

McINNES.

683 Argillite.—Blue grey.

Seine River, above Sturgeon Falls, Rainy River District, Ont.

McINNES, 4-7-90.

684 Sericitic Schist.—Silvery; knotted.

Twelve Portages, Seine River, Rainy River District, Ont.

McInnes, 3-7-90.

685 Felspathic Rock.—Greenish grey; schistose. (Near contact with Laurentian.)

Steep Rock Lake, Rainy River District, Ont.

McInnes, 7-7-90.

686 Sericitic Schist.—Silvery white; rusty weathering.

North shore of Pooh-bah Lake, Rainy River District, Ont.

Smith, W. H., 1889.

687 Quartzose Schist (Altered Quartz Porphyry).—Greenish grey; chloritic.

North shore of Island Lake, Rainy River District, Ont.

Smith, W. H., 21-6-90.

688 Felsitic Schist.—Light greenish grey; spotted.

West shore of Steep Rock Lake, Rainy River District, Ont.

Lawson, 1-9-90.

689 Mica Schist.—Grey.

North-eastern arm of Missimooish Lake, Rainy River District, Ont.

Smith, W. H., 3-9-88.

690 Felspathic Rock.—Greenish grey; fine grained; calcareous.

Portage and Crystal Lake, Rainy River District, Ont.

Smith, W. H., 26-6-90.

691 Dioritic Rock.—Dark grey; ferruginous; schistose.

East end of Missimooish Lake, Rainy River District, Ont.

Smith, W. H., 29-8-88.

692 Sericitic Schist. Very light greenish grey; calcareous.

North of Crow Rock Lake Manitou River, Rainy River District, Ont.

Smith, W. H., 30-7-91.

693 Felspathic Schist. Banded greenish grey and purplish; hard.

Little Wabigoon River, Rainy River District, Ont.

Smith, W. H., 22-9-92.

(COUTCHICHING SERIES OF A. C. LAWSON.)

694 Mica Schist. Fine grained; felspathic.

Three miles east of Black Bay, south shore of Rainy Lake, Rainy River District Ont.

Lawson, 1887.

695 Mica Schist. Fine grained; felspathic.

Rainy Lake, Rainy River District, Ont

Lawson, 13-8-85.

696 Mica Schist.—Light grey : fine grained : knotted : felspathic.

Island one mile and a half east of Open Water Narrows, Rainy Lake, Rainy River District, Ont

LAWSON, 1886.

697 Biotite Gneiss.—Fine grained : evenly laminated.

Halleluiah Point, Rainy Lake, Rainy River District, Ont.

LAWSON, 11-9-85.

698 Sericite Schist.—Light greenish grey : fine grained.

South-east arm of Rice Bay, Rainy Lake, Rainy River District, Ont.

LAWSON, 14-8-85.

DISTRICT OF RAINY RIVER.

(II.—LAKE OF THE WOODS AREA.)

699 Quartzite.—Grey.

East side of Shoal Lake, Lake of the Woods, Ont.

LAWSON.

700 Felspathic Schist.—Grey : holds clear quartz grains. Bedded conformably with agglomerate schists.

One mile south of entrance to Ptarmigan Bay, Lake of the Woods, Ont.

LAWSON.

701 Schist.—Grey : contains elongated segregations of a hornblendic mineral. Bedded with micaceous schists.

North end of Corkscrew Island, Lake of the Woods, Ont.

LAWSON, 12-8-84.

702 Felsite Schist.—Grey ; porphyritic ; contains some hornblende Interbedded with agglomerate schists into which it merges as matrix.

Big Narrows Island, Lake of the Woods, Ont.

LAWSON, 18-8-84.

704 Felsite.—Greenish grey : quartzose ; contains grains and layer segregations of quartz. A small patch in a thick series of agglomerates.

Near extremity of Zig-zag Point, Lake of the Woods, Ont.

LAWSON, 8-8-84.

705 Felspathic Schist.—Grey : porphyritic : holds triclinic felspar and grains and blebs of clear quartz.

West end of Echo Bay, Lake of the Woods, Ont.

LAWSON, 6-8-84.

706 Felspathic Schist. Grey : holds clear quartz grains.

Island two and a half miles east of Infernal Point, Lake of the Woods, Ont.

LAWSON, 21-6-84.

707 Felspathic Schist.—Grey; like No. 694, but with rather large, round concretions of calcite.

North-east shore of Corkscrew Island, Lake of the Woods, Ont.

LAWSON, 4-8-84.

708 Clastic Rock.—Composed chiefly of fragments of hornblende, mica, quartz and felspar. Bedded with mica schists.

South arm of Yellow Girl Bay, Lake of the Woods, Ont.

LAWSON, 18-7-84.

709 Felspathic Schist.—Grey; holds clear quartz grains; occurs between granitoid gneiss and green schists.

North-east corner of Quarry Island, Lake of the Woods, Ont.

LAWSON, 25-6-84.

710 Felspathic Schist.—Micaceous; associated with mica schists.

Island three and a half miles north of French Portage, Lake of the Woods, Ont.

LAWSON, 25-6-84.

711 Felsite Schist.—Part of series of agglomerate schists.

Clear Water Bay, Lake of the Woods, Ont.

LAWSON, 3-9-84.

712 Felspathic Schist.—Contains quartz grains. Matrix of agglomerate schist.

Long Bay, Lake of the Woods, Ont.

TYRRELL, J. W., 17-2-84.

713 Felsite Schist.

Island half a mile south of Treaty Island, Lake of the Woods, Ont.

TYRRELL, J. W., 3-7-84.

714 Steatite (Indian Pipestone).—Grey. Occurs in an irregular mass in hornblende schist.

One mile south-west of French Portage, Lake of the Woods, Ont.

LAWSON, 9-6-84.

715 Steatitic Schist.—Grey; soft; contains octahedra of magnetite. Occurs near an intrusion of quartz porphyry.

Main shore, four miles S. W. of Wiley's Point, Lake of the Woods, Ont.

LAWSON, 16-8-84.

716 Mica Schist. Dark grey; finely fissile; merges into a micaceous schist agglomerate.

Main shore, six miles S. W. of Wiley's Point, Lake of the Woods, Ont.

LAWSON, 22-8-84.

717 Slate.—Greenish grey; very fissile; crumpled cleavage.

Island in Yellow Girl Bay, two miles S. E. of Yellow Girl Point, Lake of the Woods, Ont.

LAWSON, 1884.

718 Mica Schist.—Grey; very quartzose.

Island one mile and a half west of N. W. end of Falcon Island, Lake of the Woods, Ont.

TYRRELL, J. W., 18-10-84.

719 Felsite Schist.—Contains clear quartz grains. Associated with mica schist.

Big Narrows Island (near granite mass), Quandary Bay, Lake of the Woods, Ont.

LAWSON, 17-6-84.

720 Felsite Schist.

Small island off west end of Treaty Island, Lake of the Woods, Ont.

TYRRELL, J. W., 24-6-84.

721 Chloritic Schist.—Calcareous. Associated with altered traps and hornblendic schists.

Shore near entrance to Long Bay, Lake of the Woods, Ont.

LAWSON, 10-7-84.

722 Sericite Schist.—White.

Bare Point, Lake of the Woods, Ont.

LAWSON, 24-6-84.

723 Sericite Schist.—White. Conformably bedded with agglomerates.

One mile and three-quarters south of entrance to Ptarmigan Bay, Lake of the Woods, Ont.

LAWSON, 12-8-84.

724 Steatitic Rock.

One mile further west than No. 175 (of Lawson's note book), on Island in Shoal Lake, Lake of the Woods, Ont.

LAWSON, 25-9-84

725 Schist.—Purplish grey; soft; probably carbonaceous. Occurs near beds of carbonaceous schists.

One mile and a quarter south of entrance to Ptarmigan Bay.

LAWSON, 12-8-84.

726 Hornblende Schist.—Black; glistening. A small patch included in Laurentian gneiss.

Sabiskong Bay, Lake of the Woods, Ont.

LAWSON, 9-6-84.

727 Hornblende Rock.—Contains felspar.

NOTE.—Near contact of granitic mass from which the felspathic constituent is probably derived.

South of Portage Bay, Lake of the Woods Ont.

LAWSON, 10-10-84.

728 Chloritic Schist.

Main shore south of entrance to Portage Bay, two miles S.S.W. of Picture Rock Point, Lake of the Woods, Ont.

LAWSON, 11-10-84.

729 Hornblende Schist.—Greenish grey.

Island one mile and three-quarters south of Wiley's Point, Lake of the Woods, Ont.

TYRRELL, J. W., 18-8-84.

730 Chloritic Schist.—Calcareous.

Island near bottom of Pine Portage Bay, Lake of the Woods, Ont.

LAWSON, 25-6-84.

731 Chloritic Rock.—Dark green : coarse textured : probably originally contained hornblende.

One mile and three quarters S. W. of end of Zig-Zag Point, Lake of the Woods, Ont.

LAWSON, 1884.

732 Amygdaloidal Trap Schist.

Small Island off south-west extremity of Corkscrew Island, Lake of the Woods, Ont.

FERRIER, 2-8-84.

733 Amygdaloidal Trap Schist.—A small patch in hydromicaceous and magnesian schists.

South-west corner of Hay Island, Lake of the Woods, Ont.

LAWSON, 4-7-84

734 Trap Schist.—Greenish grey : altered.

Island in Labyrinth Bay, Shoal Lake, Lake of the Woods, Ont.

LAWSON, 25-9-84.

735 Agglomerate.—Showing concretionary structure : occurs in hornblende schists.

Island one mile east of Wiley's Point, Lake of the Woods, Ont.

LAWSON, 1884.

736 Slate Conglomerate and Agglomerate.

A quarter of a mile south of Rainy Lake Lumbering Company's Mill, Rat Portage, Lake of the Woods, Ont.

LAWSON, 28-9-84.

737 Hornblende Schist Agglomerate.—Shows marked lenticular structure.

North-west end of Falcon Island, Lake of the Woods, Ont.

LAWSON, 25-8-84.

738 Dolomite.—Ferruginous : rusty weathering.

North shore of Ptarmigan Bay, one mile west of entrance, Lake of the Woods, Ont.

LAWSON, 1-8-84.

739 Dolomitic Schist.—Ferruginous : rusty weathering. Occurs as a vein-like segregation.

North end of Wolf Island, Lake of the Woods, Ont.

LAWSON, 31-7-84

740 Serpentinous Rock.—Rusty weathering. Occurs in gneiss.

Near south side of entrance to Sabascosing Bay, Lake of the Woods, Ont.

LAWSON, 1884.

741 Limestone.—Pink : crystalline. Occurs as a vein-like band one to three feet wide in hornblendic schists.

Near entrance to Ptarmigan Bay, north side, Lake of the Woods, Ont.

LAWSON, 1884.

742 Serpentine and Dolomite.—A vein cutting massive serpentine rock.

3¾ miles S. W. of Wiley's Point, Lake of the Woods, Ont.

LAWSON, 16-8-84.

743 Dolomite.—Greenish; quartzose.

Island half way between Pine Point and Heenan's Point, Lake of the Woods, Ont.

LAWSON, 1884.

LAKE WINNIPEG AND VICINITY.

744 Schist.—Dark grey.

Lac du Bonnet, Winnipeg River, Man.

TYRRELL, J. B.

745 Felspathic Quartzite.—Green; almost massive.

Bird River, Lac du Bonnet, Winnipeg River, Man.

TYRRELL, J. B., 21-9-91.

746 Felspathic Quartzite.—Dark grey; slightly micaceous.

Lac du Bonnet, Winnipeg River, Man.

TYRRELL, J. B, 21-9-91.

747 Quartz Schist.—Reddish grey; well laminated; contains biotite.

Bird River, Lac du Bonnet, Winnipeg River, Man.

TYRRELL, J. B., 21-9-91.

748 Quartz Schist.—Reddish; thinly laminated.

Upper Hole River, Man.

TYRRELL, J. B., 22-8-91.

749 Diorite.—Coarse grained; highly hornblendic.

Hole River, Man.

TYRRELL, J. B., 20-8-91.

750 Quartz Schist.—Green; thinly laminated.

Hole Lake, Hole River, Man.

TYRRELL, J. B., 23-8-91.

751 Mica Schist.—Dark grey; thinly laminated; contains principally biotite.

Island in Hole Bay, Lake Winnipeg, Man.

TYRRELL, J. B., 1-9-91.

752 Chloritic Schist.—Reddish green; corrugated.

Island in Hole Bay, Lake Winnipeg, Man.

TYRRELL, J. B., 19-8-91.

753 Felspathic Schist.—Reddish grey; fine grained; steatitic.

Red Island, Hole Bay, Lake Winnipeg, Man.

TYRRELL, J. B., 19-8-91.

754 Felspathic Sandstone.—Reddish; coarse grained; steatitic.

Rock off mouth of Hole River, Lake Winnipeg, Man.

TYRRELL, J. B., 18-8-91.

755 Conglomerate.—Occurs in chloritic schist.
Island off mouth of Hole Bay, Lake Winnipeg, Man.
TYRRELL, J. B., 18-8-91.

756 Chloritic Schist.—Green; mottled.
Island north of Black Island, Lake Winnipeg, Man.
TYRRELL, J. B., 14-8-91.

757 Quartz Schist.—Red.
Near Station 195, Hole Bay, Lake Winnipeg, Man.
TYRRELL, J. B., 19-8-91.

758 Quartzite.—Green.
Island in mouth of Hole Bay, Lake Winnipeg, Man.
TYRRELL, J. B., 18-8-91.

759 Sericite Schist—Grey.
Black Island, Lake Winnipeg, Man.
TYRRELL, J. B., 20-8-91.

760 Quartzite.—Light green; fine grained; massive.
Island north of Black Island, Lake Winnipeg, Man.
TYRRELL, J. B., 3-8-91.

761 Diorite.—Dark green; fine grained.
Island between Berry and Serpentine Island, Lake Winnipeg, Man.
TYRRELL, J. B., 28-6-91.

762 Agglomerate.—Green.
Island west of Black Island, Lake Winnipeg, Man.
TYRRELL, J. B., 4-8-91.

763 Agglomerate.—Green.
Island north of Black Island, Lake Winnipeg, Man.
TYRRELL, J. B., 4-8-91.

764 Chloritic Schist.—Mottled.
Opposite Cave Point, Lake Winnipeg, Man.
TYRRELL, J. B., 14-7-91.

765 Steatitic Rock.—Light green; coarsely crystalline.
Deer Island Channel, Lake Winnipeg, Man.
TYRRELL, J. B., 1-8-91.

766 Mica Schist.—Dark greenish grey.
First Island north-west of Serpentine Island, Lake Winnipeg, Man.
TYRRELL, J. B., 29-7-91.

767 Sericite Schist. Light green; thinly laminated.
Deer Island Channel, Lake Winnipeg, Man.
TYRRELL, J. B., 31-7-91.

768 Felspathic Schist. Reddish grey; sericitic.
Opposite Cave Point, Lake Winnipeg, Man.
TYRRELL, J. B., 16-7-91.

KEEWATIN DISTRICT.

769 Quartzite.—Thinly bedded ; felspathic.
Island Lake, Keewatin.
COCHRANE, 1879.

770 Quartzite.—Grey ; banded.
Island Lake, Keewatin.
COCHRANE, 1879.

771 Hornblende Schist.—Dark greenish grey.
Island Lake, Keewatin
COCHRANE, 1879.

772 Chloritic Schist.—Green.
Island Lake, Keewatin.
COCHRANE, 1879.

773 Chloritic Schist.—Greenish grey.
Island Lake, Keewatin.
COCHRANE, 1879.

774 Felspathic Shale.—Light greenish grey.
Island Lake, Keewatin.
COCHRANE, 1879.

775 Quartz Schist.—Grey ; micaceous.
Island Lake, Keewatin.
COCHRANE, 1879.

776 Chloritic Schist.—Greyish green.
Island Lake, Keewatin.
COCHRANE, 1879.

777 Schistose Diorite.—Dark greenish grey.
Island Lake, Keewatin.
COCHRANE, 1879.

778 Chloritic Schist.—Green.
Kettle Fall, Keewatin.
COCHRANE, 1880.

779 Quartzite.—Grey ; hornblendic.
Clear Water Lake, Keewatin.
COCHRANE, 1879.

780 Quartzite.—Greenish grey ; chloritic.
God's Lake, Keewatin.
COCHRANE, 1879.

781 Felspathic Sandstone.—Grey ; fine grained.
God's Lake, Keewatin.
COCHRANE, 1879.

782 Quartzite.—Grey ; felspathic.
God's Lake, Keewatin.
COCHRANE, 1879.

783 Hornblende Granite Gneiss.—Felspathic inclusions.
God's Lake, Keewatin.
COCHRANE, 1879.

784 Hornblende Schist.—Dark greenish grey.
God's Lake, Keewatin.
COCHRANE, 1879.

785 Hornblende Schist.—Dark greenish grey.
God's Lake, Keewatin.
COCHRANE, 1879.

786 Chloritic Slate.—Dark greenish grey.
South-east side of Oxford Lake, opposite Two Houses, Keewatin.
BELL, 1878.

787 Chloritic Schist.—Pinkish dolomitic partings.
One mile and a half E. S. E. of Oxford House, Keewatin.
BELL, 1878.

788 Quartzite.—Grey; hornblendic.
Small Birch Island three miles west of Seven-mile Point, Oxford Lake, Keewatin.
BELL, 1878.

789 Breccia.—Dark green; chloritic; contains pyrite.
Seven-Mile Point, Oxford Lake, Keewatin.
BELL, 1878.

790 Hornblende Schist.—Dark grey; evenly laminated.
Oxford Lake Narrows between The Doorway and Wa-pin-ai-pin-is, Keewatin.
BELL, 1878.

791 Mica Schist.—Evenly laminated.
Height of Land Portage, Etcha-ma-mish River, Keewatin.
BELL, 1878.

792 Quartzite.—Dark grey; micaceous; banded; felspathic.
Lower Dam, Etcha-ma-mish River, Keewatin.
BELL, 1878.

793 Quartzite. Grey; slightly micaceous.
Trout Fall between Oxford Lake and Knee Lake, Keewatin.
BELL, 1878.

794 Quartzite.—Grey; hornblendic.
Indian Camp three miles from inlet to Knee Lake, Keewatin.
BELL, 1878.

795 Magnetite Rock. Banded; quartzose.
Magnetite Islet, middle of Knee Lake, Keewatin.
BELL, 1878

796 Quartzite.—Grey; hornblendic.
Island in Cross Lake, Nelson River, one mile north of north point of Indian Reserve, Keewatin.
BELL, 1878.

797 Hornblende Schist.—Dark grey.
Otter Island, Cross Lake, Keewatin.
BELL, 1878.

798 Shale.—Grey; felspathic; quartzose.
Inlet of Split Lake, Nelson River, Keewatin.
BELL, 1879.

799 Chloritic Schist.—Dark greenish grey.
Islet in outlet of Pipestone Lake, Keewatin.
BELL, 1878.

800 Quartzite.—Grey; thinly bedded; micaceous.
Two miles below outlet of Pipestone Lake, Keewatin.
BELL, 1878.

801 Dioritic Schist.—Greyish green; mottled.
Islet two miles N. W. of Pipestone Lake inlet, Nelson River, Keewatin.
BELL, 1878.

802 Chloritic Schist.—Dark greyish green.
Inlet of Pipestone Lake, Nelson River, Keewatin.
BELL, 1878.

803 Quartzite.—Grey.
Fort Churchill, Hudson Bay, Keewatin.
BELL, 1879.

NORTH-WEST TERRITORY.

804 Sericite Schist.—Light green.
Reindeer Lake, North-west Territory.
DOWLING, 12-9-92.

805 Diorite.—Dark green.
6th Rapid, Deer River, North-west Territory.
TYRRELL, J. B., 4-7-92.

806 Quartzite.—Laminated; felspathic.
North side of Athabasca Lake, North-west Territory.
TYRRELL, J. B., 27-7-92.

807 Diabase.—Dark green; fine grained.
Athabasca Lake, North-west Territory.
TYRRELL, J. B., 27-7-92.

808 Quartz Schist.—Reddish; thinly foliated.
Black Lake, at rapids to Black River, North-west Territory.
TYRRELL, J. B., 4-7-92.

809 Diabase.—Dark green; fine grained.
Black River below Woodcock Portage, Athabasca Lake, North-west Territory.
TYRRELL, J. B., 25-7-92.

810 Diabase.—Greenish; fine grained; pyritiferous.
Athabasca Lake, North-west Territory.
TYRRELL, J. B., 27-7-92.

811 Hornblende Schist.—Dark grey.
Black River below Woodcock Portage, North-west Territory.
TYRRELL, J. B., 25-7-90.

812 Diorite.—Dark grey; fine grained.
Portage Hall, North-west Territory.
TYRRELL, J. B., 26-7-90.

813 Conglomerate.—Rather coarsely crystalline; thinly laminated.

Athabasca Lake, North-west Territory.

TYRRELL, J. B., 27-7-90.

YUKON DISTRICT.

814 Chloritic Schist.—Greenish grey.

Yukon River, North-west Territory.

McCONNELL, 14-8-88.

815 Shale.—Light greenish grey; felspathic; quartzose; rusty weathering.

Opposite 60-Mile Creek, Yukon River, North-west Territory.

McCONNELL, 18-8-88.

816 Mica Schist.—Glistening.

Opposite 60-Mile Creek, Yukon River, North-west Territory.

McCONNELL, 18-8-88.

817 Quartzite.—Evenly laminated; micaceous.

Mount Morrison two miles and a half east of boundary, near Yukon River, North-west Territory.

OGILVIE, W., 1887.

818 Chloritic Schist.—Greenish grey.

Near Grand Canon of Taton due, eight miles up river, North-west Territory.

OGILVIE, W., 1887.

ERUPTIVES.

QUEBEC, ONTARIO, NORTH-WEST TERRITORY AND BRITISH COLUMBIA.

819 Diorite.—Greenish grey; fine grained.

Château Bay, Strait of Belle Isle, Que.

SELWYN, 1889.

820 Serpentine.—Green.

East Main River, Que.

LOW, 27-7-92

821 Diorite.—Greyish green.

Lake Chibougamoo, East Main River, Que.

LOW, 25-6-92.

822 Diorite.—Grey.

East Main River, Que.

LOW, 21-7-92.

823 Diorite.—Dark green.

Lake Chibougamoo, East Main River, Que.

Low, 26-6-92.

824 Diorite.—Dark green; very coarsely crystalline.

Lot 1, 400 paces south of post between Ranges 4 and 5, Township of Snider, Algoma District, Ont.

Barlow, A. E.

825 Diorite.—Dark green; very coarse grained.

Stobie Mine, three miles north of Sudbury, Lot 5, Range 1, Blezard Township, Nipissing District, Ont.

Bell, 1889.

826 Diorite.—Dark green; very coarsely crystalline.

First Hill east of Sudbury and north of C. P. Railway, Nipissing District, Ont.

Barlow, A. E., 1890.

827 Diorite.—Greenish grey; shows weathering.

Lot 1 (north-west end), Range 4, Township of McKim, Nipissing District, Ont.

Barlow, A. E., 1890.

828 Diorite.—Blotched.

Inez Mine, Lot 3, Range 5, Drury Township, Algoma District, Ont.

Barlow, A. E.

829 Felsite. Fine grained; contains hornblende crystals.

One mile and a half west of Sudbury, on main line, C. P. Railway, Nipissing District, Ont.

Barlow, A. E., Sept. 1890.

830 Felsite.—Grey; fine grained.

One mile and a half west of Sudbury on main line of C. P. Railway, Nipissing District, Ont.

Barlow, A. E., 1892.

831 Diabase.—Contains porphyritic crystals of huronite (altered anorthite).

A quarter of a mile north of Murphy's Lake, Timber Limit 90, Algoma District, Ont.

Barlow, A. E., 1892.

832 Porphyroid Diorite.

From a belt of diorite one quarter of a mile north of Murphy's Lake, Timber Limit 90, Algoma District, Ont.

Barlow, A. E., 1890.

833 Vitrophyre Tuff.

Cutting of C. P. Railway near lower fall on Onaping River, Algoma District, Ont.

Bell, 1889.

834 Diorite.

Inez Mine, Lot 3, Range 5, Drury Township, Algoma District, Ont.

Barlow, A. E., 1892.

835 Diorite.—Holds nickeliferous pyrrhotite and chalcopyrite.

Worthington Mine, Lot 2, Range 2, Drury Township, Algoma District, Ont.

Barlow, A. E., 1890.

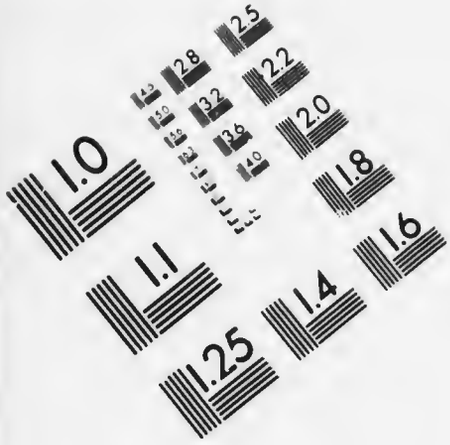
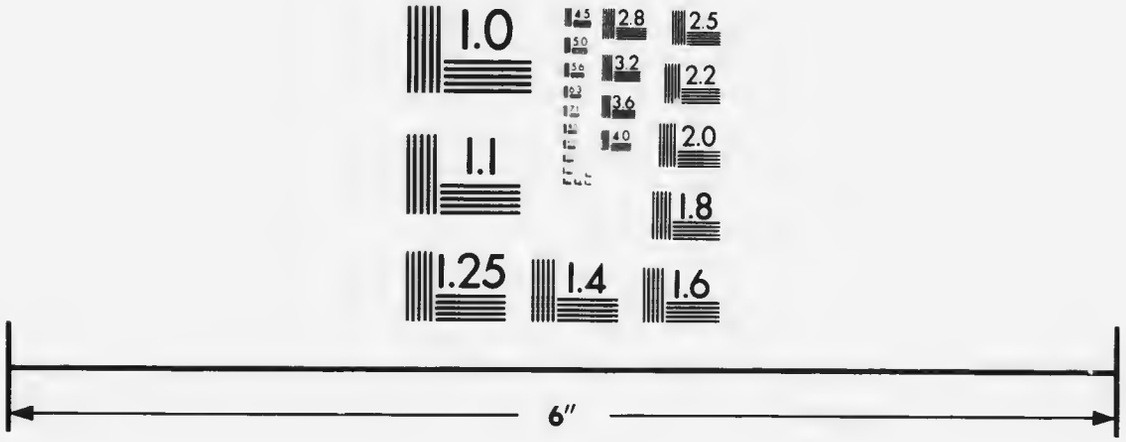
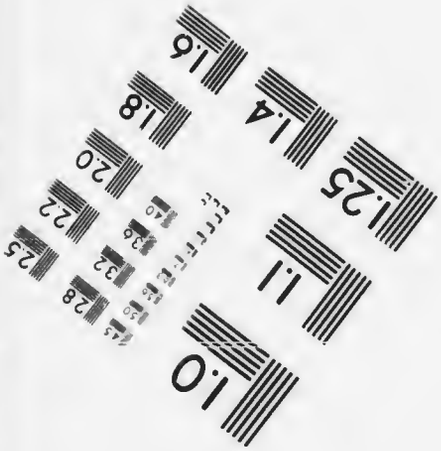
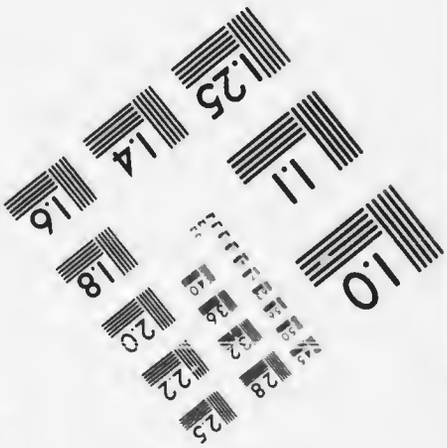


IMAGE EVALUATION TEST TARGET (MT-3)







Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

836 Diorite.—Coarse grained: holds nickeliferous pyrrhotite and chalcopyrite.

Lot 11, Range 5, Lorne Township, Algoma District, Ont.

BARLOW, A. E., 1890.

837 Diorite.—Dark greenish grey: rather fine grained.

Lot 4, Range 5, McKim Township, Nipissing District, Ont.

BELL, 1889.

838 Diorite.—Coarsely crystalline.

From area of diorite on S. W. shore.
Lac Panache, Timber Limit 81, Nipissing District, Ont.

BARLOW, A. E., 1892.

839 Biotite Granite.—Grey.

Between Serpent River and Kenabutch Stations, C. P. Railway, Algoma District, Ont.

BRUMELL, 17-7-84.

840 Diorite.—Greyish green: coarsely crystalline.

Humbug Point, Lake Huron, Ont.

WESTON, 12-8-82.

841 Diorite.—Red and green: coarsely crystalline.

Macbeth Bay, north-west of Thessalon Point, Lake Huron, Ont.

WESTON, 25-8-82.

842 Syenite.—Red.

Island at end of Bear Lake, Lake Huron, Ont.

WESTON, 11-8-82.

843 Syenite.—Dark reddish green.

Island at end of Bear Lake, Lake Huron, Ont.

WESTON, 11-8-82.

844 Diorite.—Greyish green: coarse grained.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

845 Diorite.—Greyish green: medium grained.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 6-9-91.

846 Diorite.—Greyish green: fine grained.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 9-9-91

847 Diabase.—Very coarse grained.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 9-9-91.

848 Diorite.—Coarsely crystalline.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 8-9-91.

849 Diorite.—Dark grey: fine grained.

Between Peninsula and Pic River, Thunder Bay District, Ont.

SELWYN, 1891.

850 Granite.—Porphyritic.
Pewatai Lake, Thunder Bay District, Ont.
McINNES, 29-9-91.

851 Diorite.—Dark greenish grey.
South of Shebandewan Lake, Thunder Bay District, Ont.
McINNES, 26-9-91.

852 Diorite.—Coarse grained: contains a black mica.
Small island one mile south of Bishop's Point, Lake of the Woods, Ont.
LAWSON, 7-8-84.

853 Diorite.—Finely crystalline.
Saganaga Lake, Lake of the Woods, Ont.
LAWSON, 1889.

854 Hornblende Mica Rock.—Coarsely crystalline.
South side of Monument Bay, Lake of the Woods, Ont.
LAWSON, 3-10-84

855 Hornblende Mica Rock.—Coarsely crystalline.
Bottom of Astron Bay, Lake of the Woods, Ont.
LAWSON, 23-7-84.

856 Hornblende Rock.
Three quarters of a mile west of Keewatin Inlet, and three miles and a half W.S.W. of Rat Portage, Lake of the Woods, Ont.
LAWSON, 29-7-84.

857 Diorite.—Coarsely crystalline.
Island two miles E.S.E. of Yellow Girl Point, Lake of the Woods, Ont.
LAWSON, 1884.

858 Granite.—Grey.
Cliff Island, Lake of the Woods, Ont.
LAWSON, 22-7-84.

859 Felspar Porphyry.
South-west corner of Corkscrew Island, Lake of the Woods, Ont.
LAWSON, 5-8-84.

860 Hornblende Rock.—Coarsely crystalline.
Island half way between Astron Point and Yellow Girl Bay, Lake of the Woods, Ont.
LAWSON, 22-7-84.

861 Trap Rock.—Altered: contains veins of blue quartz.
Main shore three miles and a quarter east of Yellow Girl Point, Lake of the Woods, Ont.
LAWSON, 16-7-84.

862 Trap Rock.—Altered.
Labyrinth Bay, Shoal Lake, Lake of the Woods, Ont.
LAWSON, 25-9-84.

863 Granite.—Red.
Flag Island Point, Lake of the Woods, Ont.
LAWSON, 10-6-84.

864 Diabase.—Greyish green.
Sturgeon Lake, Lake of the Woods, Ont.
LAWSON, 1889.

865 Diorite.—Grey.
Raspberry Portage, Fearing River, North-west Territory.
COCHRANE, 1881.

866 Granite.—Grey; much decomposed.
Yukon River, North-west Territory.
OGILVIE, W.

867 Magnesite.
Yukon River, east bank, near mouth of White River, North-west Territory.
OGILVIE, W., 1887.

868. Hornblende Rock.—Coarse grained.
Yukon River eight miles below Stewart River, North-west Territory.
MCCONNELL, 8-8-87.

C.—CAMBRIAN.

NOVA SCOTIA.

(Atlantic Coast Gold-Bearing Rocks).

869 Staurolite Schist.—Light grey.
Haul-over of White Head, Whitehaven Canal, Guysborough Co., N.S.
FARIBAULT, 1886.

870 Staurolite Schist.—Grey; graphitic.
Canso Road, east of Fox Island, Guysborough County, N.S.
FARIBAULT, 1886.

871 Slate.—Fibrous texture.
Lower bridge, Larry's River, Guysborough County, N.S.
FARIBAULT, 1886.

872 Andalusite Schist.—Grey.
Some distance above the bridge, Larry's River, Guysborough Co., N.S.
FARIBAULT, 1886.

873 Slate.—Argillaceous.
Lower bridge, Larry's River, Guysborough County, N.S.
FARIBAULT, 1887.

874 Staurolite Schist.—Reddish grey.
Larry's Point, one mile above the bridge, Larry's River, Guysborough County, N.S.
FARIBAULT, 1887.

875 Mica Schist.—Very light grey.
West side of Country Harbour, between Locust Beach and Mount Misery, Guysborough County, N.S.
FARIBAULT, 1886.

876 Slate.—Grey; rusty weathering.
Oldham's Mines, Halifax County, N.S.
SELWYN, 8-10-77.

877 Veinstone.
Oldham's Mines, Halifax County, N.S.
SELWYN, 8-10-77.

878 Slate.—Grey; pyritiferous. Occurs near granite.
Ammond's Plains, Halifax County, N.S.
FARIBAULT, 1892.

879 Slate.—Light grey; argillaceous; contains dolomite concretions.
Northup Mines, Central Rawdon, Hants County, N.S.
FARIBAULT, 1891.

880 Schistose Rock.—Grey; rusty weathering; occurs near granite.
Ammond's Plains, Halifax County, N.S.
FARIBAULT, 1892.

881 Quartzite ("whin rock").—Grey; quartzite.
Molega Mines, Queen's County, N.S.
BAILEY, 1890.

882 Quartzite.—Grey.
Molega Mines, Queen's County, N.S.
BAILEY, 1890.

883 Quartzose Rock.—Grey; argillaceous.
Greenfield, Queen's County, N.S.
BAILEY, 1890.

884 Andalusite Schist.—Light grey; contains chiastolite.
Broad River, Queen's County, N.S.
BAILEY, 1890.

885 Quartzite ("whin rock").—Grey.
Liverpool, Queen's County, N.S.
BAILEY, 1890.

886 Mica Schist.—Grey.
Liverpool, Queen's County, N.S.
BAILEY, 1890.

887 Quartzite.—Grey; argillaceous.
Harmony, Queen's County, N.S.
BAILEY, 1890.

888 Slate.—Pyritiferous; holds *Eophyton*.
Ovens Bluffs, Lunenburg County, N.S.
SELWYN, 24-10-70.

889 Mica Schist.—Light grey; fine grained.
Allendale, Shelburne County, N.S.
BAILEY, 1890.

890 Staurolite Schist.
Shelburne Harbour, Shelburne County, N.S.
BAILEY, 1890.

891 Mica Schist.—Light grey.

Shelburne Harbour, Shelburne County, N.S.

BAILEY, 1890.

892 Mica Schist.—Grey; argillaceous.

Cape Forchu Island, Yarmouth County, N.S.

SELWYN, 15-10-70.

893 Schistose Rock.—Dark grey; argillaceous; contains grains of titanic iron.

Cape Forchu Island, Yarmouth County, N.S.

SELWYN, 15-10-70.

Eruptives and Limestones.

894 Muscovite Biotite Granite.—Red.

North side of the mass, one mile north of Waverly, Halifax County, N.S.

FARIBAULT, 1891.

895 Muscovite Biotite Granite.—White; coarse grained.

Beaver Dam Lake, Sheet Harbour Road, Halifax County, N.S.

FARIBAULT, 2-10-91.

896 Muscovite Granite.—Fine grained.

Strawberry Point, Liverpool Harbour, Queen's County, N.S.

BAILEY, 1890

897 Diabase.—Dark coloured.

Dyke three feet three inches wide, Chebogue Point, Yarmouth, Yarmouth County, N.S.

SELWYN, 14-10-70.

898 Limestone. Grey; impure.

NOTE.—A four-foot bed in green slate at bottom of black slate group.

Silver's Farm, Preston, Halifax County, N.S.

FARIBAULT, 1891.

(Fossiliferous Rocks, above Gold-Bearing Series, Cape Breton.)

894A Limestone.—Grey.

Macintosh Brook, East Bay, Cape Breton Island, N.S.

FARIBAULT, 1876.

895A Limestone.—Grey.

Macintosh Brook, East Bay, Cape Breton Island, N.S.

FARIBAULT, 1876.

896A Limestone.—Grey; holds *Peltura scarabæoides*, Wahl.
Mira River, Cape Breton Island, N.S.
FLETCHER, W., Aug., 1879.

897A Shale.—Calcareous.
Shore below McAdams Brook, Escuminac River, Cape Breton Island, N.S.

898A Sandstone.—Calcareous.
Near McFee's Point, Bras d'Or River, Cape Breton Island, N.S.
WESTON—ROBERT, 12-8-86.

NEW BRUNSWICK.

899 Argillite.—Dark red; knotted.
Tête à Gauche Falls, Tête à Gauche River, Gloucester County, N.B.
ELLS, 23-6-79.

900 Argillite. Dark red; evenly laminated.
Four miles above Falls of Tête à Gauche, Tête à Gauche River, Gloucester County, N.B.
ELLS, 16-6-79.

901 Chloritic Slate.—Greyish green.
Tête à Gauche Falls, Tête à Gauche River, Gloucester County, N.B.
ELLS, 23-6-79.

902 Hydro-mica Schist.—Grey.
Tête à Gauche Falls, Tête à Gauche River Gloucester County, N.B.
ELLS, 23-6-79.

903 Felspathic Sandstone. Grey.
New Landing Falls, Nipisiguit River, Gloucester County, N.B.
ELLS, 21-6-79.

904 Shale. Yellowish grey; sandy.
Tête à Gauche Falls, Tête à Gauche River, Gloucester County, N.B.
ELLS, 23-6-77.

905 Sandstone.—Brownish grey.
Eight-mile post on road, Tête à Gauche River, Gloucester Co., N.B.
ELLS, 23-6-79.

906 Slate.—Grey; altered.
Hills eight miles west of head of Tête à Gauche Lake, Gloucester County, N.B.
ELLS, 15-6-79.

907 Slate.—Grey; altered.
Thirty-two miles up the Nipisiguit River, Northumberland Co., N.B.
ELLS, 4-8-79.

908 Shale.—Grey; sandy; weathers yellowish brown.
New Landing Falls, Gloucester County, N.B.
ELLS, 21-6-79.

909 Steatitic Schist.—Greyish green.
Chain of Rocks, Nipisiguit River, Gloucester County, N.B.
ELLS, 21-6-79.

910 Mica Schist. Grey.
Grand Falls Narrows, Nipisiguit River, Gloucester County, N.B.
ELLS, 21-6-79.

911 Steatitic Shale.
Serpentine River, N.B
ELLS, 29-7-79.

912 Mica Schist.—Grey; contains incipient crystals of andalusite.
Forty rods below McDonald's Brook, Big S. W. Miramichi River, Northumberland County, N.B.
ELLS, 6-8-80.

913 Shale.—Dark grey; rusty weathering; fossiliferous.
Porter's Brook, St. John County, N.B.
BAILEY, 1884.

914 Shale.—Dark grey; rusty weathering; fossiliferous.
Porter's Brook, St. John County, N.B.
BAILEY, 1884.

915 Limestone.—Dark grey; contains pyrite; fossiliferous.
Porter's Brook, St. John County, N.B.
BAILEY, 1884.

916 Shale.—Grey; banded.
South end of St. James Street, City of St. John, St. John County, N.B.
MATTHEW, 1877.

917 Limestone.—Dark grey; shaly; fossiliferous.
City of St. John, St. John County, N.B.
MATTHEW, 1877.

918 Limestone.—Dark grey; shaly; fossiliferous.
City of St. John, St. John County, N.B.
MATTHEW, 1877.

NORTH SHORE OF GULF AND RIVER ST. LAWRENCE.

919 Sandstone.—Red; coarse grained; friable; fossiliferous.
L'Anse au Loup, Labrador.
WESTON, July, 1872

920 Sandstone.—Ferruginous; holds *Scolithus linearis*, Hall.
L'Anse au Loup, Labrador.
WESTON, July, 1892.

921 Limestone.—Greenish grey; holds *Archæocyathus Atlanticus*, Bill.
L'Anse au Loup, Labrador.
RICHARDSON, 1861.

922 Limestone.—Red; holds *Archæocyathus profundus*, Bill.
Pointe Amour, Labrador.
SELWYN, 21-7-89.

923 Limestone.—Greenish grey; unevenly bedded.
Pointe Amour, Labrador.
SELWYN, 21-7-89.

924 Limestone.—Rusty weathering; coarsely crystalline; holds trilobites.
Pointe Amour, Labrador.
SELWYN, 21-7-89.

925 Shale.—Rusty; calcareous; fucoidal markings.
Pointe Amour, Laorador.
SELWYN, 21-7-89.

926 Sandstone.—Red; coarsely granular; friable.
Blanc Sablon Bay, Strait of Belle Isle, Que.
FORTIN, 1859.

927 Felspathic Sandstone.—Reddish grey; coarsely granular.
Greenly Island, Labrador.
SELWYN, 20-7-89.

928 Felspathic Sandstone.—Reddish grey; banded.
Brador Bay, Que.
FORTIN, 1859.

LAKE MISTASSINI.

929 Quartzite.—Dark grey; fine grained.
Hudson Bay Post near Lake Mistassini.
LOW, 30-6-92.

930 Dolomite.—Yellowish grey; fine grained.
Mistassini Lake Portage.
LOW, 2-7-92.

931 Dolomite.—Dark grey; fine grained; buff weathering.
Island five miles west of Temiscamie River, Lake Mistassini.
LOW, 5-7-92.

932 Dolomite.—Grey; fine grained; contains clear grains of quartz.
Lake Mistassini.
LOW, 2-7-92.

933 Limestone.—Light grey; streaked with red; fine grained; probably magnesian.
Mistassini Lake Portage.
LOW, 2-7-92.

EAST COAST OF HUDSON BAY.

934 Slate.—Brick red; siliceous.

North of entrance to Richmond Gulf, Hudson Bay.

BELL, 1877.

935 Dioritic Rock.—Dark greenish grey; from trap overflow.

Nastapoka Group of Islands, Hudson Bay.

BELL, 1877.

936 Quartzite.—Pinkish grey; rather fine grained; evenly bedded.

South side of Richmond Gulf, opposite east point of Cairn Mountain Island, Hudson Bay.

BELL, 1877.

937 Quartzite.—Dark reddish; fine grained; shows septarian markings.

Third Point north of entrance to Richmond Gulf, Hudson Bay.

BELL, 1877.

938 Quartzite.—Grey; impure.

From the (grey band) Portland Group, Hudson Bay.

BELL, 1877.

SOUTH SHORE OF ST. LAWRENCE FROM POINTE MAQUEREAU TO PORT NEUF COUNTY, WITH ISLAND OF ORLEANS AND CAP ROUGE.

939 Quartzite.—Light yellowish grey; rusty weathering.

Pointe Maquereau, Bonaventure County, Que.

LOGAN, 1843.

940 Shale.—Dark grey; wrinkled; glossy.

Pointe Maquereau, Bonaventure County, Que.

LOGAN, 1843.

941 Shale.—Black; holds *Dictyograptus flabelliformis*, Eich. and other fossils.

Near Lighthouse, Cape Rosier, Gaspé County, Que.

SELWYN—WESTON—LAMBE, 12-7-87.

942 Limestone.—Dark grey; arenaceous; evenly bedded; contains obscure fossils.

Between Little Fox River and Petit Cap, Gaspé County, Que.

WESTON, July, 1878.

943 Limestone.—Dark grey; arenaceous; rusty weathering; shows current markings.

Between Little Fox River and Petit Cap, Gaspé County, Que.

WESTON, July, 1878.

944 Sandstone.—Yellowish grey; calcareous; rather fine grained.

Magdalen River near Porcupine Bluff, Gaspé County, Que.

WESTON, 16-8-57.

945 Argillite.—Dark red.

Between Marsouin and Martin Rivers, Gaspé County, Que.

LOGAN, 1844.

946 Argillite.—Dark greenish grey; spotted.

One mile and a half above Marsouin River, Gaspé County, Que.

August, 1878.

947 Sandstone.—Brownish grey; light weathering; rather fine grained.

St. Anne des Monts, Gaspé County, Que.

WESTON, Aug., 1878.

948 Limestone Conglomerate.—Grey; rusty weathering.

Back from the coast, Ste. Anne des Monts, Que.

WESTON, 1878.

949 Felspathic Sandstone.—Dark greenish grey; rather coarse grained; calcareous. (Typical Sillery.)

Cap Chat, Gaspé County, Que.

WESTON, 1878.

950 Felspathic Sandstone.—Dark greenish grey; fine grained; somewhat calcareous.

Coast of Whale Cape, Rimouski County, Que.

RICHARDSON, Aug., 1878.

951 Dolomite.—Grey; fine grained; buff weathering; conchoidal fracture.

13th sight, Matane River, Rimouski County, Que.

MURRAY, 1845.

952 Slate.—Black; holds *Dictyograptus* sp.

Matane, Rimouski County, Que.

WESTON, Sept., 1878.

953 Argillite.—Dark red, and green; evenly laminated; contains disseminated grains of quartz and felspar.

8th sight, Matane River, Rimouski County, Que.

MURRAY, 3-8-45.

954 Felspathic Sandstone.—Calcareous.

3rd sight, Matane River, Rimouski County, Que.

MURRAY, 1854.

955 Sandstone.—Grey; hard; compact; calcareous; banded.

Sandy Bay, Little Métis, Rimouski County, Que.

RICHARDSON, 1878.

956 Quartzite.—Greenish grey; hard; fine grained.

Road three miles below Trois Pistoles Church, Temiscouta County, Que.

RICHARDSON, 1858.

957 Quartzite.—Greenish grey; hard: felspathic; fine grained.

Caconna Island, Temiscouata County, Que.

BELL, 1858.

958 Felspathic Sandstone.—Greenish grey; rather coarse grained.

Rivière du Sud, near Bresculotte River, Bellechasse County, Que.

WESTON, Sept., 1877.

959 Sandstone.—Dark greenish grey; evenly bedded; fine grained: holds obscure fossils (brachiopods).

North-east end of Island of Orleans, four miles N. E. of Quebec, Que.

WESTON, June, 1877.

960 Quartz Conglomerate.—Coarse grained.

N. E. end of Island of Orleans, four miles N. E. of Quebec, Que.

WESTON, 1877.

961 Sandstone.—Greenish grey; rather fine grained; somewhat calcareous.

Point Levis, Levis County, Que.

WESTON, June, 1877.

962 Argillite.—Dark greenish grey: fine grained; holds obscure plant-like remains.

Chaudière Falls, below G. T. Railway bridge, Levis County, Que.

WESTON, 1877.

963 Argillite.—Greenish grey; siliceous; obscure markings.

One mile above Cap Rouge, Port Neuf County, Que.

ELLS.

BEAUCE COUNTY AND EASTERN TOWNSHIPS.

964 Felspathic Rock.—Greenish grey: hard; quartzose.

Gilbert River, Beauce County, Que.

ELLS, 21-9-85.

965 Felspathic Slate.—Bluish grey; hard; holds quartz veins.

Three miles from mouth of Gilbert River, Beauce County, Que.

ELLS, 21-9-85.

966 Limestone.—Red; veined with white.

Colway River, St. François de la Beauce, Beauce County, Que.

SELWYN, 15-8-79.

967 Dolomitic Schist.—Brownish colour.

Lot 15 (N. half) Range 3, Marston Township, Compton County, Que.

SELWYN, 26-8-85.

968 Sandstone.—Grey: evenly bedded; micaceous.

Lot 12, Range 1, Marston Township, Compton County, Que.

WEBSTER, 1-10-80.

969 Slate.—Light grey; evenly bedded; micaceous and pyritiferous.

Lot 16, Range 1, Marston Township, Compton County, Que.

WEBSTER, 30-9-79.

970 Schist.—Green; smooth; slaty.

Three-quarters of a mile north of Piopolis, Marston Township, Compton County, Que.

ELLS, 26-8-85.

971 Agglomerate.—Greenish grey.

Lot 27, Range 2, Price Township, Beauce County, Que.

ELLS, 11-8-85.

972 Agglomerate (Paste of).—Pebbles all rounded in elongated oval masses, often of large size.

Lot 14, Range 4, Stoke Township, Richmond County, Que.

SELWYN, 29-7-85.

973 Slate.—Bluish grey. The bedding and cleavage are well shown in the quarry.

Lot 7, Range 4, Danville Slate Quarry, Shipton Township, Richmond County, Que.

ELLS, 9-4-85.

974 Argillite.—Dark coloured; rusty weathering; crumpled.

Lot 26, Range 4, Shipton Township, Richmond County, Que.

SELWYN, 4-9-74.

975 Felspathic Sandstone.—Greenish grey; hard.

Lot 12, Road Range 5, Shipton Township, Richmond County, Que.

SELWYN, 2-9-79.

976 Chloritic Slate.—Light grey; evenly bedded.

Lot 14, Range 8, Shipton Township, Richmond County, Que.

LOGAN, 26-9-73.

977 Slate.—Red.

Danville, Shipton Township, Richmond County, Que.

978 Chloritic Slate.—Light grey; crumpled.

Lot 11, Range 13, Cleveland Township, Richmond County, Que.

SELWYN, 20-9-79.

979 Slate.—Light grey; wrinkled; pyritiferous.

Richmond County, Que.

980 Chloritic Slate.—Dark greenish grey.

Range 8, Melbourne Township, Richmond County, Que.

SELWYN, 10-9-79.

981 Slate.—Bluish grey.

NOTE.—From the banded blue and grey slate series which extends continuously from Lake Memphremagog beyond the Chaudière River.

Lot 15, Range 2, Brompton Township, Richmond County, Que.

ELLS, 17-8-85.

982 Sandstone.—Light greenish grey: chloritic.

Lot 11, Range 3, Durham Township, Drummond County, Que.

SELWYN, 10-9-79

983 Argillite.—Light grey; crumpled.

Two hundred and thirty and one-half miles from Portland, on G. T. Railway, Durham Township, Drummond County, Que.

SELWYN, 18-9-79.

VICINITY OF SUDBURY.

984 Felspathic Sandstone.—Dark grey.

Lot 5, Range 3, Lumsden Township, Algoma District, Ont.

BARLOW, A. E., 1889.

985 Shale.—Black.

Lot 3 (S. W. cor.) Range 1, Dowling Township, Algoma District, Ont.

BELL, 1891.

986 Felspathic Sandstone (concretionary).—Holds tracks.

Lot 6, Range 3, Lumsden Township, Algoma District, Ont.

BARLOW, A. E., 1889.

987 Felspathic Sandstone.—Dark grey; slaty.

Larchwood Station, C. P. Railway, Lot 12, Range 4, Balfour Township, Algoma District, Ont.

BARLOW, A. E., 1889.

988 Felspathic Sandstone.—Dark grey; a trap ash rock.

Lot 6, Range 3, Lumsden Township, south of Vermilion River, Algoma District, Ont.

BARLOW, A. E., 1889.

LAKE SUPERIOR AND HUDSON BAY.

(Nipigon and Keewenian Formations.)

989 Conglomerate.—Very coarse.

Pancake Bay, Mamainse, Lake Superior, Algoma District, Ont.

BELL, 1876.

990 Ash Rock.—Reddish pink.

Pancake Bay, Mamainse, Lake Superior, Algoma District, Ont.

BELL, July, 1876.

991 Sandstone.—Reddish; coarse grained; holds native copper.

Michipicoten Island, Lake Superior, Thunder Bay District, Ont.

FLETCHER, H. R., 17-9-80.

992 Sandstone.—Purplish red; fine grained; spotted.

La Grange Island, Nipigon Bay, Lake Superior, Thunder Bay District, Ont.

BELL, 1881.

993 Felspathic Sandstone.—Dark red; fine grained.

La Grange Island, Nipigon Bay, Lake Superior, Thunder Bay District, Ont.

SELWYN, 27-7-83.

994 Felspathic Sandstone.—Yellowish pink; fine grained.

La Grange Island, Nipigon Bay, Lake Superior, Thunder Bay District, Ont.

BELL, 1881.

995 Felspathic Sandstone.—Greenish grey; medium grained.

Last island in Nipigon Bay, Lake Superior, Thunder Bay District, Ont.

SELWYN, 2-8-82.

996 Slate.—Dark reddish brown; calcareous.

East side of Nipigon Head, Lake Superior, Thunder Bay District, Ont.

SELWYN, 26-7-82.

997 Argillite.—Mottled green and red.

Black Bay, Lake Superior, Thunder Bay District, Ont.

998 Quartzite.—Light yellowish grey; rather fine grained; dark weathering.

Island off Simpson's Island, Lake Superior, Thunder Bay District, Ont.

MURRAY, 1846.

999* Felspathic Sandstone.—Pinkish white; fine grained.

Black Lake, near Portage, Lake Athabasca, North-west Territory.

SELWYN, 27-7-83.

1000 Amygdaloidal Trap.—Contains zeolites (Thomsonite?).

Cape Gargantua, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

1001 Amygdaloidal Trap.—Amygdules filled with celadonite (?).

Cape Gargantua, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

1002 Chert. Dark brown; calcareous; compact; marked conchoidal fracture.

Cape Gargantua, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

1003 Amygdaloidal Trap.—Dark green.

Cape Gargantua, Lake Superior, Thunder Bay District, Ont.

BELL, 1876.

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*NOTE.—Specimen 999 is inserted here for comparison.

1004 Amygdaloidal Trap.—Reddish; brecciated; holds zeolites.

Michipicoten Island, Lake Superior, Thunder Bay District, Ont.

SELWYN, 1872.

1005 Porphyritic Trap.—Dark coloured; twisted; rusty weathering.

Michipicoten Island, Lake Superior, Thunder Bay District, Ont.

SELWYN, 1882.

1006 Porphyrite.—Dark brown; contains red crystals of felspar.

South shore of St. Ignace Island, Nipigon Bay, Thunder Bay District, Lake Superior.

SELWYN, 7-8-82.

1007 Trap.—Dark coloured; fine grained.

South shore of St. Ignace Island, Nipigon Bay, Lake Superior.

SELWYN.

1008 Chert.—Dark brown; fine grained; epidotic and quartzose; contains native copper.

South-west coast of St. Ignace Island, Lake Superior, Thunder Bay District, Ont.

LOGAN, 1846.

1009 Quartz Porphyry.—Brick red; rather coarse grained

Nipigon Strait, Lake Superior, Thunder Bay District, Ont.

SELWYN, 26-7-82.

1010 Diorite.—Dark green; fine grained.

Rock cut on C. P. Railway, Nipigon Bay, Lake Superior, Thunder Bay District, Ont.

SELWYN, 27-7-83.

1011 Amygdaloidal Trap.—Dark chocolate brown; green, white, and red amygdules.

Two miles north of Little Whale River, Hudson Bay.

BELL, 1877.

1012 Amygdaloidal Trap.—Dark green; compact; green, white, and pyritiferous amygdules.

North side of Little Whale River, Hudson Bay.

BELL, 1877.

THUNDER BAY.

(Animikie Formation, underlying Nipigon and Keweenian Formations.)

1013 Argillite. Greenish grey.

Mainland near Silver Islet, Lake Superior, Thunder Bay District, Ont.

SELWYN, 21-7-83.

1014 Argillite.—Dark greyish green.

Pie Island Mine, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1015 Argillite.—Grey; rusty weathering.

South-east corner of Lybster Township, Thunder Bay District, Ont.

INGALL, 1886

1016 Argillite.—Blue black.

Lower Tunnel, Silver Mountain Mine, Lybster Township, Thunder Bay District, Ont.

INGALL, 1886.

1017 Argillite.—Blue black; rusty weathering.

Arrow River Mining Company, Location 172, Strange Township, Thunder Bay District, Ont.

INGALL, 1885.

1018 Argillite.—Greenish grey.

East coast of Thunder Bay, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1019 Argillite.—Dark grey; rusty weathering; altered.

Locations R 80 and R 81, Sunset Lake, Silver Mountain Mining District, Thunder Bay District, Ont.

INGALL, 1885.

1020 Argillite.—Brown; altered.

McKeller's Point, Crooks Township, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1021 Argillite.—Dark greenish grey; rusty weathering; altered.

Silver Bluff, Strange Township, Thunder Bay District, Ont.

INGALL, 1885.

1022 Dolomitic Concretion.—Grey. From argillite beds.

Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1885.

1023 Argillite.—Dark grey; calcareous.

West coast of Thunder Bay, seven miles south of Port Arthur, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1024 Argillite.—Grey; calcareous.

Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1885.

1025 Chert.—Reddish colour.

Location R 64, Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1885.

1026 Chert.—Dark greenish grey; rusty weathering.

Lot 2, Range 4, Whitefish River, Lybster Township, Thunder Bay District, Ont.

INGALL, 1886.

1027 Chert.—Dark coloured; rusty weathering; banded.

Kakabeka Falls, Kaministiquia River, Oliver Township, Thunder Bay, District, Ont.

LAWSON, 10-8-84.

1028 Cherty Rock.—Grey; holds hardened bitumen.

Location R 64, Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1885.

1029 Chert.—Dark grey; holds magnetite.

Location R 64, Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1885.

1030 Chert.—Dark grey; rusty weathering.

Location R 135, Silver Mountain, Lybster Township, Thunder Bay District, Ont.

INGALL, 1886.

1031 Chert.—Dark coloured; pitted.

Lot 7, Range 5, Whitefish River, Lybster Township, Thunder Bay District, Ont.

INGALL, 1886.

1032 Conglomerate.

NOTE.—This rock constitutes the basal bed of the Animikie Formation.

Headwaters of Whitefish River, Thunder Bay District, Ont.

INGALL, 6-10-86.

1033 Trap.—Light grey. From dyke traversed by calcareous veins.

Silver Islet, Lake Superior, Thunder Bay District, Ont.

SELWYN, 19-7-82.

1034 Trap.—Coarse grained.

Small island near Silver Islet, Lake Superior, Thunder Bay District, Ont.

INGALL, 1884.

1035 Trap.—Greyish green; traversed by dolomitic veins.

Thunder Bay, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1036 Trap.—Dark grey; fine grained.

Near Princes Bay, Thunder Bay, Lake Superior, Thunder Bay District, Ont.

INGALL, 1885.

1037 Trap.—Grey; rusty weathering.

Lot 1, Range 1, Lybster Township, Thunder Bay District, Ont.

INGALL, 1886.

BRITISH COLUMBIA.*

(Bow River Series and Castle Mountain Formation.)

1038 Limestone.—Light grey; yellowish; somewhat crystalline.

East end of Devil's Head Lake, near Banff, Alberta.

MCCONNELL, 1886.

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*NOTE.—A few specimens from the east side of the Rocky Mountains, in Alberta, are here included.

1039 Quartz Conglomerate.—Brecciated; associated with veins of copper.

Lake at source of branch of Baker Creek, Goat Pass, B.C.

McConnell, 1885.

1040 Schist.—Light grey; glossy; calcareous.

Mouth of little fork of North Saskatchewan River, Rocky Mountains, Alberta.

McConnell, 1885.

1041 Dolomitic Limestone.—Drab colour; light weathering; fine grained; compact.

Castle Mountain, Alberta.

McConnell, 1886.

1042 Limestone.—Light greyish yellow; irregularly banded.

Galena Mountain, Kicking Horse Pass, Rocky Mountains, B.C.

McConnell, 1886.

1043 Schist. Light grey; glossy; calcareous; holds fragments of *Olenellus*.

Two miles west of Donald, C.P. Railway, B.C.

Ami, August, 1891.

1044 Schist.—Light grey; somewhat indurated; glossy.

Two miles west of Donald, C. P. Railway, B.C.

Ami, August, 1891.

1045 Limestone.—Grey; semi-crystalline; shaly partings; contains columnar calcite, and holds brachiopods, trilobites, and other fossil remains.

Note.—Associated with the grey glossy schists Nos. 1043 and 1044.

Two miles west of Donald, C. P. Railway, B.C.

Ami, August, 1891.

1046 Limestone.—Dark grey; abundant remains of *Olenellus Howelli*, Meek.

Tunnel on C.P. Railway, Mount Stephen, Rocky Mountains, B.C.

McConnell, 1886.

(Middle Cambrian.)

1047 Argillite. Dark grey; brown weathering; holds *Oryctiopsis Klotzii*, Röminger, *Zacanthoides spinosus*, Walcott, &c.

Mount Stephen, Rocky Mountains, B.C.

Ami, 29-8-91.

SOUTHERN INTERIOR OF BRITISH COLUMBIA.

1048 Limestone.—Dark grey; graphitic.

Illecillewaet, on line of C.P. Railway, Selkirk Range, B.C.

Selwyn, 1890.

1049 Schist. Dark coloured ; glossy ; wrinkled ; pyritiferous.
One mile and a half below bridge over Illicilliwaet River, Selkirk Range, B C.
SELWYN, 1890.

1050 Argillite. Dark grey; glossy ; indurated ; calcareous ; brown weathering ; distinct cleavage.
Cherry Creek, Yale District, B.C.
DAWSON, G. M., 1890.

1051 Argillite. Dark coloured ; unevenly bedded ; compact ; white partings in joints.
Cherry Creek, Yale District, B.C.
DAWSON, G. M., 1890.

1052 Argillite. Dark coloured ; calcareous ; pyritiferous ; rusty weathering.
Head of Salmon River, Yale District, B C.
McEvoy, 4-8-91.

1053 Argillite. Dark brown ; foliated ; wrinkled ; possesses a fibrous structure along the divisional planes of stratification ; rusty weathering.
Near Salmon River, Yale District, B.C.
McEvoy, 8-8-91.

1054 Argillite. Dark grey ; rather coarse grained ; rusty weathering.
West of Chaperon Lake, Yale District, B.C.
McEvoy, 15-7-91.

1055 Argillite. Dark grey ; glossy ; wrinkled ; calcareous.
Louis Creek, Yale District, B.C.
DAWSON, G. M., 19-9-88.

1056 Argillite.—Black ; evenly bedded ; indurated ; intersected with quartz veins.
Cayoosh Creek, Yale District, B.C.
DAWSON, G. M., 13-9-89.

1057 Argillite.—Dark purple ; indurated ; rusty weathering.
North fork of Edward Creek, Yale District, B.C.
McEvoy, 24-8-92.

(Adam's Lake Series.*)

1058 Schist. Light greenish grey, and yellow ; spotted ; highly calcareous.
Cin-max Valley, B.C.
DAWSON, G. M., 19-9-88.

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*NOTE.—Possibly Cambro-Silurian in part.

1059 Chloritic Schist.—Dark green: calcareous bands.
Adam's Lake, Yale District, B.C.
DAWSON, G. M., 4-9-88.

1060 Argillite.—Dark greyish green: calcareous; indurated.
Adam's Lake, Yale District, B.C.
DAWSON, G. M., 1-9-88.

1061 Argillite.—Yellowish white: spotted: glossy; wrinkled: highly altered.
Adam's Lake, Yale District, B.C.
DAWSON, G. M., 31-9-88.

1062 Chloritic Schist.—Greenish grey: holds quartz.
Adam's Lake, Yale District, B.C.
DAWSON, G. M., 31-9-88.

D.—CAMBRO-SILURIAN.

NOVA SCOTIA.

(Lower Cambro-Silurian.)

1063 Quartz Conglomerate.—Dark red; compact; jaspery.
Marshy Hope Road, Antigonish County, N.S.
SELWYN, 9-6-77.

1064 Quartz Conglomerate.—Greenish grey: compact.
Shore between Georgeville and Livingstone Cove, Antigonish County, N.S.
FLETCHER, 1886.

1065 Quartz Conglomerate.—Dark purplish grey; jaspery.
Dennis Mountain, N.S.
ROBERT, J. A., 1885.

1066 Argillite.—Yellowish green: indurated: banded: marked cleavage.
Rory Grant's Brook, Marshy Hope, Antigonish County, N.S.
FLETCHER, 1886.

1067 Sandstone.—Dark reddish brown: rather coarse grained.
Brook above Jas. Sutherland's, Barney's River, Pictou County, N.S.
FLETCHER, 1866.

NEW BRUNSWICK.

1068 Argillite.—Dark coloured; calcareous; glossy; wrinkled.
Pohenegamook Lake, Madawaska County, N.B.
McINNES, 22-7-87.

1069 Argillite. Dark coloured ; fine grained ; compact.

Slate Island, Big S W. Miramichi River, N.B.

Ells, 5-8-80.

1070 Argillite. Wrinkled ; rusty weathering.

From Little Narrows, five miles above the falls, Tête-à-Gauche River, Gloucester County, N.B.

Ells, 16-6-79.

1071 Slate.—Grey ; banded ; indurated.

Prince William, York County, N.B.

Ells, 1879.

1072 Limestone.—Dark grey ; hard ; compact ; impure.

New Brunswick and C. R. R., two miles and a half north of Canterbury, York County, N.B.

Bailey, 1879.

EASTERN TOWNSHIPS, QUEBEC.

(Lower Cambro-Silurian.)

1073 Limestone.—Dark grey ; banded ; fine grained ; slightly arenaceous.

Lot 23, Ranges 5-6, Winslow Township, Compton County, Que.

Webster, 28-8-79.

1074 Dolomite.—Yellow weathering ; pyritiferous and ochreous.

Lot 32, Range 2, St. Camille Township, Wolfe County, Que.

Ells, 11-8-85.

1075 Slate. Black ; pyritiferous ; twisted and wrinkled ; has quartz veins developed between the cleavage planes ; rusty weathering.

Silver Mine, near Lighthouse, Lake Memphremagog, Que.

Ells, 19-8-80.

1076 Limestone. Light coloured ; yellow weathering ; used as a marble.

Magoon's Point, Lake Memphremagog, Stanstead Township, Stanstead County, Que.

Ells, 23-8-80.

1077 Limestone. Light coloured ; weathers yellowish grey ; holds crinoids ; used as a marble.

Magoon's Point Quarry, Lake Memphremagog, Stanstead Township, Stanstead County, Que.

Ells, 23-8-80.

1078 Limestone. Dark coloured : impure : semi-crystalline.
Province Island, Lake Memphremagog, Que.
ELLS, 28-8-80.

1079 Argillite. Black : glossy : compact : wrinkled : calcareous : "slickensided."
"Coal Mine," Abbottsford, Rouville County, Que.

1080 Argillite.—Dark coloured : glossy : indurated.
Cutting in brook north-east of St. Dominique, Bagot County, Que.
SELWYN, 21-7-79

1081 Dolomitic Slate.—Yellowish grey : twisted : banded : calcareous : rusty weathering.
Lot 21, Range ? Dunham Township, Missisquoi County, Que.
WEBSTER, 1876.

1082 Limestone.—Dark grey : impure : yellowish weathering : holds minute trilobites, brachiopods, &c.
Lot 26, Range 1, Farnham Township, Brome County, Que.
RICHARDSON, 1861.

QUEBEC AND ONTARIO.

(Potsdam Formation.)

1083 Sandstone.—Reddish brown : somewhat coarse grained.
West side of Knowlton Lake, Brome County, Que.

1084 Sandstone. Light yellowish brown : rusty weathering : contains pyrite.
Cascade Island, Beauharnois, Beauharnois County, Que.

1085 Sandstone. Dark brown : holds *Lingulella acuminata*, Conrad.
Beverley (Delta), Leeds County, Ont.

1086 Sandstone.—Yellowish white : fine grained.
NOTE.—Used in construction of Parliament Buildings.
Bishop's Quarry, Nepean Township, Carleton County, Ont.
AMI, 1886.

1087 Quartz Conglomerate.—Ferruginous.
Lot 6, Range 10, Portland Township, Leeds County, Ont.

QUEBEC.

(Levis Formation.)

1088 Shale.—Dark brown.

City Hall, Point Lévis, Lévis County, Que.

ELLS—AMI, 29-9-88.

1089 Limestone.—Light yellowish grey; holds fragments of trilobites, including *Bathyurus Saffordi*, Billings.

Point Lévis, Lévis County, Que.

WESTON.

1090 Shale.—Black; carbonaceous; holds *Didymograptus bifidus*, Hall.

Point Lévis, Lévis County, Quebec.

WESTON, 1883.

1091 Limestone Conglomerate.—Some of the pebbles hold Cambrian fossils, e.g., *Salterella pulchella*, Billings.

City Hall, Point Lévis, Lévis County, Que.

ELLS—AMI, 29-9-88.

1092 Limestone.—Light yellowish grey; holds *Orthoceras Missisquoi*, Billings.

Phillipsburg, Missisquoi County, Que.

RICHARDSON.

QUEBEC.

(Quebec Formation.)

1093 Shale.—Black; bituminous and calcareous; holds *Diplograptus angustifolius*, Hall, *Climacograptus scalaris*, Hall, and *C. bicornis*, Hall.

Griffin's Cove, Gaspé County, Que.

WESTON—LAMBE, 20-7-87.

1094 Calcareous Rock.—Black; bituminous; compact; holds *Diplograptus Whitfieldi*, Hall.

Citadel Hill, at rock slide, Quebec City, Que.

WESTON, 2-8-92.

1095 Limestone.—Dark grey; hard; compact; bituminous.

Côte d'Abraham, Quebec City, Que.

AMI—GIROUX, 12-10-88.

1096 Limestone.—Dark brown; fine grained; compact; bituminous; evenly bedded; holds *Diplograptus* and *Dicranograptus*.

Cove fields, Quebec City, Que.

SELWYN, 1892.

1097 Shale.—Dark brown; bitumino-calcareous; holds *Dawsonia* and fragments of *Diplograptus* and *Climacograptus*.

Near New Drill Shed, Quebec City, Que.

AMI—GIROUX, 1888.

QUEBEC AND ONTARIO.

(Calciferous Formation.)

1098 Dolomitic Limestone.—Yellowish grey; hard; compact; rusty weathering.

Mingan Islands, Gulf of St. Lawrence, Que.

RICHARDSON, 1855.

1099 Sandstone.—Greenish grey; hard; compact; shaly partings; holds fucoids.

Beauharnois, Beauharnois County, Que.

1100 Sandstone.—Magnesian; rusty weathering; holds fragments of *Palæocystites* and trilobites.

St. Armand, Missisquoi County, Que.

1101 Sandstone.—Brownish grey; calcareous; dark weathering; holds *Raphistoma* and other gasteropods.

Rideau Canal, Merrickville, Grenville County, Ont.

AMI, 1883.

1102 Sandstone.—Hard; compact; holds *Pleurotomaria Canadensis*, Billings.

Oxford Township, Grenville County, Ont.

WESTON, 1863.

QUEBEC, ONTARIO AND MANITOBA.

(Chazy Formation.)

1103 Limestone.—Dark grey; holds *Asaphus canalis*, *Amphion*, and bryozoa.

St. Geneviève Island, Mingan group, Gulf of St. Lawrence, Que.

1104 Limestone.—Dark grey; compact; semi-crystalline; light weathering.

(Rhynchonella Band.)

St. Martin's Junction, Laval County, Que.

DEEKS, 1891.

1105 Limestone.—Dark grey; semi-crystalline; impure.
(Leperditia Band.)
Grenville, Argenteuil County, Que.
BELL, 1856.

1106 Shale.—Brownish grey; holds fucoids.
Hog's Back, near Ottawa, Nepean Township, Carleton County, Ont.
AMI, 1888.

1107 Sandstone.—Yellowish red; mottled; calcareous.
Deer Island, Lake Winnipeg, Man.
TYRRELL, J. B., 27-5-89.

QUEBEC AND ONTARIO.

(Black River Formation.)

1108 Limestone.—Light grey; semi-crystalline; holds *Marchisonia*, *Rhynchonella*, &c.
Two miles south of Blue Point, Lake St. John, Que.
McOUAT, 1871.

1109 Limestone.—Dark grey; impure; bituminous; holds *Orthis testudinaria*, Dalman, *Illaenus*, *Anastrophia*, &c.
Falls at Lorette Village, River St. Charles, Quebec County, Que.
AMI, 8-10-88.

1110 Limestone. Yellowish grey; hard; compact; fine grained; holds silicified fossils well weathered out.
Paquette's Rapids, Ottawa River, Ont.
LOGAN, 1845.

1111 Limestone (Lithographic).—Light grey; hard; compact; holds occasional grains of quartz.
Lot 1, Range 5, Madoc Township, Hastings County, Ont.

1112 Sandstone.—Yellowish grey; rusty weathering.
Manitou Island, Lake Nipissing, Ont.
SELWYN, 1884

QUEBEC, ONTARIO AND MANITOBA.

(Trenton Formation.)

1113 Limestone. Dark grey; rather coarsely crystalline; bituminous; holds *Illaenus*, *Asaphus*, *Leperditia*, *Strophomena*, &c.
St. Ambroise, Que.
LOGAN, 29-9-52.

1114 Limestone.—Dark grey ; argillaceous ; shaly partings ; holds *Dendrocrinus*, &c.

St. Lawrence Main Street, north of Toll-gate, Montreal, Que.
BILLINGS, E.

1115 Limestone.—Dark grey ; impure ; white weathering ; holds *Orthis testudinaria*, Dalman, *Leptæna sericea*, Sowerby, *Strophomena alternata*, Conrad, *Avicula elliptica*, Billings, &c.

Lot 26, Range 5, Osnabruck Township, Stormont County, Ont.
WESTON, 1877.

1116 Limestone.—Grey ; impure ; yellowish weathering ; holds *Monticulipora*, crinoids, &c.

Ottawa, Carleton County, Ont.
BILLINGS, E.

1117 Limestone.—Light grey ; greenish weathering ; holds *Strophomena alternata*, Conrad, *Orthis testudinaria*, Dalman, *Leptæna sericea*, Sowerby, &c.

La Cloche Island, Lake Huron, Ont.
MURRAY.

1118 Limestone.—Weathers yellowish grey : holds obscure fossils.

Deer Island, Lake Winnipeg, Manitoba.
TYRRELL, J. B., 27-5-89.

1119 Limestone.—Light yellowish grey ; fine grained : holds orthoceratites.

Black Island, Swampy Harbour, Lake Winnipeg, Manitoba.
DOWLING—LAMBE, 13-8-90.

1120 Dolomite.—Light yellow ; fine grained.

Cat Head, Lake Winnipeg, Manitoba.
DOWLING—LAMBE, 1-8-90.

1121 Limestone.—Yellowish white ; mottled and banded ; holds *Receptaculites Oweni*, Hall.

Buchanan's Quarry, East Selkirk, Manitoba.
TYRRELL, J. B., May, 1889.

1122 Dolomitic Limestone.—Spotted yellow and white.

Lower Fort Garry, Manitoba.
WESTON, Aug , 1884.

QUEBEC AND ONTARIO.

(Utica Formation.)

1123 Limestone.—Grey ; hard ; compact ; bituminous ; brown weathering ; presumably magnesian ; holds imperfect *Climacograptus*.

Pointe aux Trembles, Hochelaga County, Que.
LOGAN, 1852.

1124 Shale.—Dark brown; rather compact; bituminous; holds *Climacograptus* and *Orthograptus quadrimucronatus*, Hall.

Between River St. Charles and Beauport, Quebec County, Que.

WESTON, July, 1891.

1125 Shale.—Dark brown; bituminous; holds *Asaphus Canadensis*, Chapman, *Primitia Ulrichi*, Jones, &c.

New Edinburgh, near Ottawa, Russell County, Ont.

AMI, 1886.

1126 Shale.—Dark brown; calcareo-bituminous; holds *Orthis testudinaria*, Dalman, *Leptæna sericea*, Sowerby, and *Asaphus Canadensis*, Chapman.

Gloucester, Carleton County, Ont.

AMI, 1882.

1127 Shale.—Dark brown; brittle; bitumino-calcareous; holds *Asaphus Canadensis*, Chapman, *Endoceras proteiforme*, Hall, *Triarthrus Beckii*, Green, &c.

Collingwood, Simcoe County, Ont.

MURRAY.

QUEBEC, ONTARIO AND MANITOBA.

(Hudson River Formation.)

1128 Limestone.—Light grey; somewhat crystalline; holds *Pterinea prolifica*, Billings, &c.

Macastey Bay, Anticosti Island.

WESTON, 1865.

1129 Shale.—Dark yellowish brown; soft.

Côte Sauvageau, Quebec City, Que.

AMI—GIROUX, 11-10-88.

1130 Shale.—Dark grey, almost black; argillaceous; indurated; holds *Zygospira Headi*, Billings, &c.

Rougemont, Rouville County, Que.

1131 Limestone. Dark grey; yellowish weathering; holds *Orthis insculpta*, Hall, and bryozoa.

Cape Smythe, Lake Huron, Ont.

BELL, 1859.

1132 Limestone.—Reddish grey; argillaceous; holds *Rhynchonella capax*, Conrad.

Stony Mountain, Manitoba.

ELLS, 1875.

BRITISH COLUMBIA AND NORTH-WEST TERRITORIES.

1133 Limestone. Rather coarse grained: impure: indurated.

Devil's Head Lake, Rocky Mountains, N.W.T.

McConnell, 1886.

1134 Shale. Black: indurated: calcareous joints: holds *Cænograptus* (large species).

Flagstone Quarries, Glenogle, Kicking Horse Pass, C.P. Railway, B.C.

Ami, 1891.

1135 Shale. Black: indurated: pyritiferous.

Slate Quarries, Glenogle, Kicking Horse Pass, C.P. Railway, B.C.

Ami, 1891.

1136 Limestone. White: homogeneous: coarsely crystalline: weathers black.

West of Lansdowne, Yale District, B.C.

McEvoy, 2-10-91.

1137 Limestone. Crystalline: fine grained: banded.

Adams Lake, Yale District, B.C.

Dawson, G. M., 31-9-88.

E.—SILURIAN.

NOVA SCOTIA AND NEW BRUNSWICK.

1138 Limestone. Greenish grey: coarsely crystalline: holds fragments of crinoids, &c.

Note.—Under Dr Honeyman's "Red Stratum."

Arisaig, Antigonish County, N.S.

Weston, 24-7-86.

1139 Limestone. Dark grey: somewhat finely crystalline: weathers rusty yellow: holds fragments of trilobites.

McAdam's Brook, Arisaig, Antigonish County, N.S.

Weston, 22-7-86.

1140 Slate. Greenish grey: twisted and wrinkled: siliceous and slightly calcareous; brown weathering: holds crinoidal columns and casts of *Atrypa*, &c.

Note.—Thirty feet above iron band, about the horizon of Niagara.

Arisaig, Antigonish County, N.S.

Weston, 5-8-86.

1141 Siliceous Iron Ore. Holds numerous fragments and casts of fossils, including *Orthis*, *Spirifera*, &c.

Arisaig, Antigonish County, N.S.

Weston, 5-8-86.

1142 Limestone. Dark red: holds *Chonetes*, *Pterinea*, *Tentaculites*, *Calymene*, *Begrichia*, &c.

Division D (Ludlow).

Stonehouse Brook, Arisaig, Antigonish County, N.S.

WESTON, 29-7-86.

1143 Slate. Reddish green and grey; siliceous; holds *Pterinotella*, *Cleidophorus*, *Chonetes*, &c.

Arisaig, Antigonish County, N.S.

WESTON, 1873.

1144 Sandstone. Black: calcareous; rusty weathering; holds *Spirifera Nictavensis*, Dawson.

NOTE.—These Nictaux iron ore beds are often referred to the Devonian.

Nictaux, Annapolis County, N.S.

WESTON, 12-6-79.

1145 Ferruginous Sandstone. Red; holds *Spirifera Nictavensis*, Dawson.

Meadow Village, Nictaux, Annapolis County, N.S.

WESTON, 1879.

1146 Clay Rock. Dark brown; hard; brittle; siliceous; holds *Spirifera*, *Orthis*, &c.

Back Bay, Charlotte County, N.B.

ROBB, C.

1147 Shale. Dark brown; calcareous; holds graptolites (Monograptus shales of Nova Scotia.)

Above Campbell's, Beccaguimic River, N.B.

BAILEY.

QUEBEC.

(Chaleur Group.)

1148 Limestone. Yellowish red; indurated; holds *Whitfieldia tumida*, Dalman, *Spirifera Niagarensis*, Conrad, &c.

Port Daniel, Bonaventure County, Que.

CURRY, T., 1874.

1149 Limestone Yellowish red; holds crinoids.

Cascapedia River, Bonaventure County, Que.

WESTON, 1880.

1150 Limestone. Hard; compact; unevenly bedded; somewhat altered; bands of calcite disseminated in the mass; holds ostracoda, &c.

The Blowhole, Percé, Bonaventure County, Que.

SELWYN.

1151 Sandstone.—Reddish brown, and grey; rather fine grained; ripple marks.

L'Anse à la Vieille, Gaspé County, Que.

LOGAN, 1843.

1152 Limestone. Reddish green, and grey; hard; compact; holds *Halysites catenularia*, L.

L'Anse à la Vieille, Gaspé County, Que.

LOGAN, 1843.

QUEBEC.

1153 Limestone. Dark grey; impure; holds *Pentamerus oblongus*, Sowerby.

The Forks, Scaumenac River, Que.

ELLS, 1883.

1154 Argillite. Dark grey, and green; calcareous; rusty weathering; non-fossiliferous.

Grand River, Gaspé County, Que.

LOGAN, 1843.

1155 Limestone. Dark grey; unevenly bedded; holds *Atrypa reticularis*, L.

Restigouche River, Que.

WESTON, 7-8-90.

QUEBEC.

1156 Dolomite.—Yellowish white; magnesian; rusty weathering; holds *Pentamerus oblongus*, Sowerby.

Lake Metapedia, Rimouski County, Que.

BAILEY, 1888.

1157 Dolomite.—Dark grey; hard; compact; buff weathering; holds corals and other fossils.

Pointe aux Trembles, Lake Temiscouata, Temiscouata County, Que.

AMI, 1887.

1158 Limestone.—Dove grey; compact; holds *Murchisonia*, &c.

Gamache Bay, Island of Anticosti, Que.

1159 Limestone.—Dark grey; yellowish spotted; holds *Favosites* and other corals.

Lot 22, Range 8, Dudswell Township, Compton County, Que.

WILLIMOTT, 1-9-85.

1160 Limestone.—Yellowish white; compact; conchoidal fracture.

Dudswell Township, Compton County, Que.

WILLIMOTT, 1-9-85.

1161 Limestone.—Yellowish grey : banded.

Marble Quarry, Lot 23, Range 7, Dudswell Township, Compton County, Que.

Ami, 1886.

1162 Limestone. Dark grey : evenly bedded : light weathering.

(Magog Limestone.)

On road, Lot 1, Range 16, Magog Township, Stanstead County, Que.

4-10-79.

QUEBEC AND ONTARIO.

(Medina Formation.)

1163 Limestone.—Greenish grey : fine grained : arenaceous.

(Base of Silurian.)

Battery Cliffs, Anticosti Island, Que.

Richardson, 4-9-86.

1164 Sandstone.—Yellowish grey : hard : compact : calcareous, probably dolomitic : holds celestite crystals (red).

Forks of the Credit River, Peel County, Ont.

Willimott, 1884.

1165 Sandstone.—Reddish brown : fine grained : yellow weathering.

Forks of the Credit River, Peel County, Ont.

Willimott, 1884.

1166 Sandstone. Dark reddish brown : compact : slightly calcareous : evenly bedded.

Dundas, Flamborough Township, West, Wentworth County, Ont.

1167 Sandstone.—Reddish grey, and green : fine grained : holds entangled stems of *Harlania*.

Near St. Catherines, Grantham Township, Lincoln County, Ont.

QUEBEC AND ONTARIO.

(Clinton Formation.)

1168 Limestone.—Greenish grey : holds *Orthis parva*, Billings (not Pander), crinoids, &c.

Junction Cliff, Island of Anticosti, Que.

Richardson, 24-7-56.

1169 Sandstone.—Greenish grey : fine grained : very slightly calcareous ; holds *Lingula*.

(Upper Clinton.)

Hamilton, Wentworth County, Ont.

GRANT, Colonel C. C.

1170 Sandstone.—Dark red, greenish grey, and brown : fine grained ; compact ; holds *Rhinopora*.

(Iron Band.)

Hamilton, Wentworth County, Ont.

GRANT, Colonel C. C

1171 Dolomite. Brownish yellow : calcareo-argillaceous, with siliceous portions : light weathering : holds bryozoa, &c.

Hamilton, Wentworth County, Ont.

GRANT, Colonel C. C.

1172 Sandstone.—Light greenish grey ; fine grained ; calcareous ; holds *Atrypa*, *Leptocælia*, &c.

Church's Falls, Caledon Township, Peel County, Ont.

TOWNSEND, J.

QUEBEC AND ONTARIO.

(Niagara Formation.)

1173 Limestone.—Dark grey ; compact ; holds fragments of trilobites, brachiopods, &c.

Charleton Point, Island of Anticosti, Que.

RICHARDSON, 11-9-56.

1174 Limestone.—Greenish grey ; hard ; compact ; dolomitic ; shaly partings ; fucoidal markings.

Hamilton, Wentworth County, Ont.

GRANT, Colonel C. C.

1175 Dolomite.—Hard ; compact ; cherty ; contains quartz geode ; holds *Dictyonema retiforme*, Hall.

Hamilton, Wentworth County, Ont.

GRANT, Colonel C. C., 1880.

1176 Limestone. Yellowish grey ; arenaceous and dolomitic ; buff weathering ; holds *Strophomena subplana*, Conrad, and *Orthis Davidsoni*, Verneuil.

Gulf Head, Manitoulin Islands, Lake Huron, Ont.

MURRAY.

1177 Limestone. Light yellowish grey : holds silicified fossils, (crinoids, &c.)

North end of Lake Témiscamingue, Que.

BELL, 1887.

ONTARIO.

(Guelph Formation.)

1178 Dolomite.—Light cream coloured ; fine grained.
Guelph, Guelph Township, Wellington County, Ont.
WILLIMOTT.

1179 Limestone.—Yellowish grey ; hard ; compact ; holds *Pycnostylus Guelphensis*, Whiteaves.
Hespeler, Waterloo Township, Waterloo County, Ont.
WESTON, 1869.

ONTARIO.

(Lower Helderberg Formation.)

1180 Dolomite.—Light yellowish grey ; compact ; holds *Eurypterus remipes*, Dekay. (Lithographic Stone Bed.)
Bertie Township, Welland County, Ont.
DECEW, J.

SASKATCHEWAN AND MANITOBA.

1181 Dolomite.—Cream coloured ; holds *Pentamerus decussatus*, Whiteaves.
Foot of Grand Rapids, Saskatchewan River, Saskatchewan.
TYRRELL, J. B., 13-8-90.

1182 Dolomite.—Cream coloured ; porous.
Grand Rapids, Saskatchewan River, Saskatchewan.
TYRRELL, J. B., 13-8-90.

1183 Dolomitic Limestone.—Yellowish grey ; hard ; compact.
Foot of Portage, Grand Rapids, Saskatchewan River, Saskatchewan.
TYRRELL, J. B., 1890.

1184 Dolomite.—Bright yellow, and cream coloured ; holds crinoidal fragments, &c.
Tramway, Grand Rapids, Saskatchewan River, Saskatchewan.
TYRRELL, J. B., 12-8-90.

1185 Dolomite.—Bright yellow ; porous ; dark weathering ; holds *Straparollus*.
Cross Lake Rapids, Saskatchewan River, Saskatchewan.
TYRRELL, J. B., 28-7-90.

1186 Dolomite.—Yellowish grey; hard; compact; cherty; marked conchoidal fracture.

Above Demicharge Rapids, Saskatchewan River, Saskatchewan.

TYRRELL, J. B., 30-7-90.

1187 Limestone.—Light yellow'sh grey; holds *Isochilina grandis*, Jones.

East side of Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 29-9-89.

ERUPTIVE ROCKS.

(Uncertain age, cutting strata from Pre-Cambrian to Devonian.)

NOVA SCOTIA.

1188 Syenite.—Light red; in places almost a pure felsite.

Intercolonial Railway between Folly Lake and Wentworth Station, N.S.

BARLOW, A. E.,—GIROUX.

1189 Hornblende Syenite.—Dark green, and red; fine grained.

Intercolonial Railway between Folly Lake and Wentworth Station, N.S.

BARLOW, A. E.,—GIROUX.

1190 Granite.—Dark brownish red; porphyritic; rich in quartz.

Davison's Brook, three miles W. of W. branch of River Phillip, N.S.

BARLOW, S., 1876.

1191 Syenite.—Dark coloured; compact; mottled red and brown.

Doctor's Brook, Arisaig, Antigonish County, N.S.

1192 Diorite.—Dark grey; rather coarse grained; brownish weathering.

Yarmouth, Yarmouth County, N.S.

WESTON, 3-7-79.

NEW BRUNSWICK.

1193 Porphyrite.—Dark reddish brown; amygdaloidal; holds large yellowish felspar crystals.

Bon Ami Point, Restigouche County, N.B.

ELLS.

1194 Porphyrite.—Light pinkish brown.
Dalhousie, Restigouche County, N.B.

1195 Granite.—Red; coarse grained.
St. George, Charlotte County, N.B.

1196 Granite.—Red; coarse grained.
Top of Bald Mountain, head of Snell Brook, Nipisiguit River, N.B.
ELLS.

1197 Hornblende Granite.—Coarse grained; contains epidote.
Pollet River, Albert County, N.B.
ELLS, 5-6-77.

EASTERN TOWNSHIPS, &c., QUEBEC.

1198 Serpentine.—Principally chrysotile.
(Half the width of a vein in hill of massive serpentine.)
Rear of Greg's mine, Lot 23, Range 3, Wolfestown Township, Wolfe County, Que.
ELLS

1199 Diorite.—Hard.
Top of Lamb Mountain, Lot 11, Range 11, Ham Township, Wolfe County, Que.
ELLS, 12-8-85.

1200 Diorite.—Greyish white; evenly grained.
Stanstead, Stanstead County, Que.

1201 "Granitoid trachyte."*—Dark yellowish brown.
Shefford Mountain, Shefford Township, Que.

1202 Diorite.—Coarse grained.
Yamaska Mountain, Yamaska County, Que.

1203 Diabase.—Coarse grained.
Rougemont, Rouville County, Que.
WESTON, 1866.

1204 Diorite.—Grey; coarse grained.
Belœil Mountain, Verchères County, Que.

1205 Diorite.—Fine grained.
Montreal Mountain, Montreal, Que.

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* See "Geology of Canada," 1863, p. 657.

1206 Alnöite.—(Described. See Adams in Am. Jour. Sci., vol. XLIII, p. 269, 1892.)
Ste. Anne de Bellevue, Jacques-Cartier County, Que.
ADAMS, F. D., 1892.

1207 Porphyrite.—Dark grey; brownish felspar crystals.
Rigaud Mountain, Rigaud Township, Vaudreuil County, Que.

BRITISH COLUMBIA.

1208 Granitic Rock.—Light yellowish brown.
Davidson Creek, Yale District, B.C.
McEvoy, 3-7-92.

1209 Porphyrite.—Brownish; very coarse grained.
Lulu Creek, Yale District, B.C.
McEvoy, 22-8-92.

1210 Granite.—Pinkish; micaceous; coarse grained; porphyritic.
Scotch Creek, Yale District, B.C.
DAWSON, G. M., 9-9-88.

1211 Hornblende Granite.—Pinkish; coarse grained.
Campbell's Creek, Yale District, B.C.
McEvoy, 8-9-91.

1212 Granite.—White; medium grained; micaceous; holds dark quartz grains.
Sugar Lake, Yale District, B.C.
McEvoy, 27-8-91.

F.—DEVONIAN.

(NOVA SCOTIA.)

(Lower Devonian.)

1213 Argillite.—Dark coloured; fine grained; siliceous; rusty weathering; holds *Psilophyton robustius*, Dawson.
McNaughton Brook, N.S.
ROBERT, J. A., 1886.

1214 Sandstone.—Greenish grey; fossiliferous.
McAra's Brook, Arisaig, Antigonish County, N.S.
WESTON, 30-7-86.

1215 Argillite.—Dark grey; siliceous; holds *Psilophyton robustius*, Dawson.

Sutherland's River, St. Mary's, Pictou County, N.S.

WESTON—FARIBAULT, 1886.

1216 Argillite.—Greenish grey; siliceous; fine grained; brownish weathering; holds tracks.

McAra's Brook, Arisaig, Antigonish County, N.S.

WESTON, 1886.

1217 Argillite.—Dark red; wrinkled; indurated.

Copper Mine, Lochaber Lake, Antigonish County, N.S.

NEW BRUNSWICK.

1218 Breccia.—Dark coloured; highly calcareous; contains light-coloured fragments holding *Coccosteus Acadicus*, Whiteaves, *Cyclora calvatiformis*, Whiteaves, and stems of *Psilophyton*.

Campbellton, Restigouche County, N.B.

FOORD, A. H., 1889.

1219 Dolomitic Limestone.—Dark grey; rusty weathering; holds *Spirifera*, *Orthis*, *Leptocælia*, *Tentaculites*, &c.

Hillsborough, Albert County, N.B.

1220 Limestone.—Reddish brown; white veined; argillaceous; compact.

Above Campbell's Mills, Beccaguimic River, N.B.

BAILEY, 1883.

1221 Shale.—Black; carbonaceous; holds *Calamites*.

Ragged Head, Lepreau Harbour, St. John County, N.B.

ELLS, 1878.

1222 Shale.—Dark greenish grey; indurated; holds plant fragments.

Fern Ledges, St. John, St. John County, N.B.

MATTHEW.

QUEBEC.

(Upper and Lower Devonian.)

1223 Sandstone.—Brownish green; calcareous; holds *Leptocælia flabellites*, Conrad, *Chonetes melonica*, Billings, *Strophodonta*, &c.

Gaspé, Que.

RICHARDSON.

1224 Shale.—Greenish grey; calcareous; holds *Phaneropleuron curtum*, Whiteaves.

Scaumenac Bay, Bonaventure County, Que.

FOORD, A. H., 1880.

1225 Shale.—Greenish grey; calcareous; light brown weathering; holds *Eusthenopteron Foordi*, Whiteaves.

Scaumenac Bay, Bonaventure County, Que.

FOORD, A. H., 1880.

1226 Argillite.—Greenish grey; siliceous and calcareous; holds *Archæopteris Gaspiensis*, Dawson.

Scaumenac Bay, Bonaventure County, Que.

Foord, A. H., 1880

1227 Limestone.—Greenish grey; siliceous and agrillaceous; buff weathering; holds *Bothriolepis Canadensis*, Whiteaves.

Scaumenac Bay, Bonaventure County, Que.

FOORD, A. H., 1880.

ONTARIO.

(Oriskany Formation.)

1228 Sandstone.—Light grey; calcareous; rusty weathering; holds *Spirifera arenosa*, Conrad, *Orthis musculosa*, Hall, *Fenestella*, &c.

Oneida, Haldimand County, Ont.

DECEW, E.

1229 Sandstone.—Light yellowish grey; highly calcareous; holds *Favosites*, *Strophodonta*, &c.

Walpole, Kent County, Ont.

ONTARIO.

(Corniferous Formation.)

1230 Limestone.—Light grey; unevenly bedded; impure; semi-crystalline; holds silicified corals.

Lot 30, Range 4, Cayuga Township, Haldimand County, Ont.

1231 Limestone. Yellowish white; brown weathering; holds *Favosites gothlandicus*, Lamarck.

Rama's Farm, Port Colborne, Humberstone Township, Welland County, Ont.

BILLINGS, 1857.

1232 Limestone.—Light grey; hard; compact; cherty; holds *Cyrtina*, *Zaphrentis*, *Strophodonta*, &c., also *Machæracanthus sulcatus*, Newberry.

Port Colborne, Humberstone Township, Welland County, Ont.

McRae, 1887.

1233 Limestone.—Light grey; compact; argillaceous; holds *Macropetalichthys Sullivanti*, Newberry.

Dick's Hill, Cayuga Township, Haldimand County, Ont.

DeCew, E.

ONTARIO.

(Hamilton Formation.)

1334 Limestone.—Dark grey; brown weathering; holds *Favosites turbinatus*, Billings.

Lot 25, Range 5, Bosanquet Township, Lambton County, Ont.

Richardson.

1235 Limestone.—Light grey; soft; argillaceous; shaly; holds *Spirifera macronata*, Conrad.

Bosanquet Township, Lambton County, Ont.

1236 Limestone.—Light grey; hard; compact; argillaceous; holds *Pterinopecten*.

Lot 5, Range 25, Bosanquet Township, Lambton County, Ont.

Richardson.

ONTARIO.

(Portage and Chemung Formation.)

1237 Shale.—Dark brown; carbonaceous; rusty weathering; holds *Protosalvinia Huronensis*, Dawson.

Kettle Point, Lake Huron, Ont.

MANITOBA AND VICINITY.

1238 Limestone.—Light purplish yellow; compact.

Lake Winnipegosis, Manitoba.

Tyrrell, J. B., 3-7-89.

1239 Dolomite.—Light yellow; hard; compact; brown weathering.

Station 817, Dawson Bay, Lake Winnipegosis, Manitoba.

Tyrrell, J. B., 6-8-89.

1240 Dolomite.—Light yellow; compact; conchoidal fracture; cavernous structure; rusty weathering.

(Stringocephalus Zone.)

Dawson Bay, Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 8-8-89.

1241 Dolomitic Limestone. Light yellowish grey; holds *Atrypa reticularis*, L., &c.

Station 776, Dawson Bay, Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 31-7-89.

1242 Dolomite.—Yellowish grey; compact; vesicular; holds fragments of brachiopods.

Devil's Point, Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 17-7-89.

1243 Sandstone.—Brownish yellow; fine grained; calcareous; dark weathering.

Station 870, Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 22-9-89.

1244 Limestone.—Yellowish grey; hard; compact; cherty; intersected by numerous calcite veins.

Pt. Wilkins, Dawson Bay, Lake Winnipegosis, Manitoba.

TYRRELL, J. B., 5-8-89.

1245 Limestone.—Yellowish grey; hard; compact; unevenly bedded; cherty; conchoidal fracture.

Rosebush Island, Swan Lake, Manitoba.

TYRRELL, J. B., 21-8-89.

1246 Dolomitic Limestone.—Yellowish pink; hard; compact; evenly bedded; brown weathering.

Manitoba Island, Lake Manitoba, Manitoba.

TYRRELL, J. B., 1888.

1247 Dolomite.—Reddish brown; hard; compact.

Manitoba Island, Lake Manitoba, Manitoba.

TYRRELL, J. B., 1888.

ABBITTIBI RIVER.

1248 Sandstone.—Yellowish brown; vesicular; evenly bedded; calcareous; weathers grey.

Left bank, opposite Red Bear's Island, Abbittibi River, Ont.

COCHRANE, 11-7-77.

1249 Shale.—Dark brown; carbonaceous; conchoidal fracture; weathers greyish.

Left bank, three-quarters of a mile above Plum Pudding Island, Abbittibi River, Ont.

COCHRANE, 10-7-77.

1250 Limestone.—Cream coloured; porous: holds *Stromatopora* and *Cyathophyllum*.

Clay Rapids, Abbittibi River, Ont.

COCHRANE, 12-7-77.

HAY RIVER, GREAT SLAVE LAKE.

1251 Limestone.—Yellowish grey: unevenly bedded: weathers to a dark colour; holds crinoidal fragments, &c.

Falls on Hay River, Athabasca.

McCONNELL, 1887.

1252 Limestone.—Yellowish grey; hard; compact; evenly bedded.

Falls on Hay River, Athabasca.

McCONNELL, 1887.

ROCKY MOUNTAINS.

1253 Limestone.—Dark grey; shaly; weathers brownish yellow; abundant lamellibranch fossils.

(The so-called "Clymenia beds.")

Banff Springs Hotel, Banff, Alberta.

AMI, 1891.

1254 Limestone. Grey; hard; brownish weathering; holds corals allied to *Favositella*.

Fairholme Mountains, Rocky Mountains.

McCONNELL, 1886.

1255 Dolomitic Limestone. Dark grey to yellowish white; cherty; brown weathering; holds various fossils.

Cascade Mountain, near Banff, Alberta.

McCONNELL, 1886.

MACKENZIE RIVER BASIN.

1256 Shale. Greenish grey: calcareous and siliceous; weathers brown.

Mouth of Liard River, Mackenzie River, North-west Territory.

McCONNELL, 10-8-87.

1257 Chert. Grey; hard; compact; rusty weathering.

Mountain four miles W. of Fort Liard, Liard River, North-west Territory.

McCONNELL, 1887.

1258 Limestone.—Greenish grey: unevenly bedded: columnar; interstratified with thin bands of rusty weathering calcareous shale.

Mouth of Liard River, Mackenzie River, North-west Territory.

McConnell, 10-8-87.

1259 Argillite.—Black: evenly bedded: indurated.

Mackenzie River, North-west Territory.

McConnell, 1888.

1260 Limestone.—Dark grey: unevenly bedded: weathers lighter in colour.

Mackenzie River, North-west Territory.

McConnell, 1888.

1261 Argillite.—Pinkish grey: jaspery: imperfect conchoidal fracture: weathers bright red.

Mackenzie River, North-west Territory.

McConnell, 1888.

1262 Dolomite.—Dark grey: hard: compact: evenly bedded.

Mackenzie River, North-west Territory.

McConnell, 1888.

G.—CARBONIFEROUS.

NOVA SCOTIA.

(Lower Carboniferous.)

1263 Limestone.—Yellowish grey; holds *Fenestella Lyelli*, Dawson, *Productus cora*, D'Orb., *Athyris subtilita*, Hall, *Nautilus Acadensis*, Dawson, &c.

Windsor, Hants County, N.S.

Foord, A. H., 1879.

1264 Limestone.—Dark grey: hard: compact: marked conchoidal fracture: weathers yellowish.

(Lithostrotian Limestone.)

McPhee's Brook, N.S.

Dawson, Sir J. W.

1265 Clay Slate Conglomerate.—Dark brown, and green: siliceous: somewhat coarse grained.

Reed's Brook, Maccan River, west of Five Islands Road, near Springhill, Cumberland County, N.S.

McOuat, W., 1874.

1266 Sandstone Conglomerate.—Dark reddish brown: calcareous.

Near Parrsborough, Cumberland County, N.S.

1267 Sandstone.—Dark red: porous: fine grained.

North side of Black River, near the mouth of Chase Lake Brook, N.S.

NEW BRUNSWICK.

(Albert Shales.)

1268 Shale.—Dark brown; carbonaceous; rusty; holds *Palæoniscus.*

Albert Mines, Albert County, N.B.

ROBERTSON, J., 1891.

1269 Shale.—Dark grey; compact; conchoidal fracture; "slickensided."

Albert Mines, Albert County, N.B.

ELLS.

1270 Conglomerate.—Dark greenish grey; calcareous; fine grained; rusty weathering.

Mechanic's Settlement, King's County, N.B.

ELLS.

1271 Shale.—Dark greyish brown; carbonaceous.

Albert Mines, Albert County, N.B.

McOUAT, W.

1272 Slate.—Dark green, and grey; glossy; contorted; calcareous.

Beliveau Mine, Westmoreland County, N.B.

LOGAN.

QUEBEC.

(Bonaventure Formation.)

1273 Sandstone.—Reddish grey; fine grained; calcareous.

Between White Head and L'Anse à Beaufils, Gaspé County, Que.

LOGAN, 1844.

1274 Quartz Conglomerate.—Reddish brown, mottled with white.

New Carlisle, Bonaventure County, Que.

LOGAN, 1844.

1275 Dolomitic Limestone.—Reddish grey; hard; compact; evenly bedded; fine grained; shaly partings.

New Carlisle, Bonaventure County, Que.

LOGAN, 1844.

1276 Sandstone Conglomerate. Reddish brown; highly calcareous; fine grained; felspathic.

Capelin River, Bonaventure County, Que.

LOGAN, 1844.

1277 Argillite.—Brick red; evenly bedded; indurated; calcareous and siliceous; contains columnar calcite.

First sight between Cascapedia and Capelin Rivers, Bonaventure County, Que.

LOGAN, 12-9-42.

NOVA SCOTIA.

(Millstone Grit Formation.)

1278 Sandstone.—Greenish grey; somewhat coarse grained; friable; holds stems of fossil plants.

Mabou Coal Mines, Inverness County, N.S.

FOORD, A. H., 1881.

1279 Conglomerate.—Greyish brown; rather coarse grained; mottled.

South-east from Grant's, Pictou County, N.S.

LOGAN.

1280 Sandstone.—Light grey; hard; compact; fine grained.

Ragged Reef, Cumberland County, N.S.

BARLOW, S., 1875.

1281 Sandstone Conglomerate.—Greenish grey; rusty weathering.

Twenty chains east of Shoulie Point, Cumberland County, N.S.

BARLOW, S., 1874.

1282 Sandstone.—Light greenish grey; calcareous.

South Joggins, near Minudie, Cumberland County, N.S.

BARLOW, S., 1875.

1283 Sandstone.—Yellowish grey; rather fine grained; holds *Sigillaria*, &c.

Cumberland Coal Field, Cumberland County, N.S.

BARLOW, S., 1875.

NEW BRUNSWICK.

(Millstone Grit Formation.)

1284 Sandstone.—Greenish grey; rather fine grained.

(Used for new Government Buildings, Ottawa.)

Newcastle, Northumberland County, N.B.

1285 Argillite.—Dark bluish grey; holds fragments of fossil ferns.

Clifton, Gloucester County, N.B.

FOORD, A. H., 1880.

1286 Argillite.—Dark bluish grey: holds *Alethopteris serrosa*, Brongniart.

Clifton, Gloucester County, N.B.

FOORD, A. H., 1880.

1287 Argillite.—Bluish grey: siliceous: weathers light grey.

Clifton, Gloucester County, N.B.

FOORD, A. H., 1880.

NOVA SCOTIA.

(Coal Measures.)

1288 Shale.—Dark brown: brittle: carbonaceous: holds *Lepidophloios*.

Stellarton, Pictou County, N.S.

POOLE, H. S., 1880.

1289 Argillite.—Light grey: indurated: rusty weathering: holds fragments of *Annularia* and other plants.

Sydney, Cape Breton County, Cape Breton Island, N.S.

1290 Bituminous Coal.—Black: glossy: holds selenite: also *Sigillaria*.

Springhill Coal Mine, Cumberland County, N.S.

MADDEN, WM., 1890.

1291 Shale.—Dark bluish grey: calcareous: holds *Sigillaria eminens*, Dawson, with bark turned to coal.

Springhill Coal Mines, Cumberland County, N.S.

MADDEN, WM., 1890.

1292 Dolomite.—Greenish grey: sandy: rusty weathering: holds *Calamodendron*.

Yankee Pits, Springhill Coal Mines, Cumberland County, N.S.

BARLOW, S., 1871.

1293 Sandstone.—Greenish grey: evenly bedded: fine grained: calcareous: shows current marks.

South Joggins, Cumberland County, N.S.

WESTON, 6-13-82.

1294 Shale.—Dark brown, and black: calcareo-bituminous: holds *Naiadites*, &c.

Mabou Coal Mines, Inverness County, Cape Breton Island, N.S.

FOORD, A. H., 1881.

1295 Shale.—Dark brown; evenly bedded; holds *Anthracomya, Primitia*, &c.

Diligent River, North of Parrsborough, Cumberland County, N.S.

BARLOW, S., 1875.

1296 Shale.—Dark grey, almost black: carbonaceous: holds *Neuropteris cordata*, var., *hirsuta*, Lesquereux.

Sydney Mines, Cape Breton County, Cape Breton Island, N.S.

1297 Shale.—Dark bluish grey; holds *Alethopteris* and *Pecopteris*.

Sydney Mines, Cape Breton County, Cape Breton Island, N.S.

NOVA SCOTIA AND PRINCE EDWARD ISLAND.

(Permo-Carboniferous.)

1298 Conglomerate.—Light yellowish grey; calcareous.

NOTE.—First rock on East River bank, over New Glasgow conglomerate.

Pictou, Pictou County, N.S.

LOGAN.

1299 Sandstone.—Pinkish yellow; hard; compact; fine grained; overlying the New Glasgow conglomerate.

East River, Pictou County, N.S.

LOGAN.

1300 Shale.—Bright red; calcareo-argillaceous; unevenly bedded; holds *Walchia gracilis*, Dawson.

Miminegash, Prince County, Prince Edward Island.

BAIN, F.

QUEBEC.†

1301 Volcanic Agglomerate. Reddish brown; spotted.

New Carlisle, Bonaventure County, Que.

LOGAN, 1843.

1302 Felsite.—Hard; compact; cherty; ferruginous.

NOTE.—From the junction of conglomerate and felsite.

Squally Point, Bonaventure County, Que.

BARLOW, S., 1878.

BRITISH COLUMBIA.*

1303 Argillite.—Greenish grey; highly cleaveable; altered; brownish weathering.

Ferry Creek, Yale District, B.C.

McEvoy, 24-8-91.

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†Associated with Bonaventure Formation rocks. See p. 112.

*In part known to be Carboniferous, but possibly including newer and older Palæozoic rocks.

1304 Diorite.—Greenish grey; medium grained; rusty weathering.

Salmon River to O'Keefe's, Yale District, B.C.

McEvoy, 8-8-91.

1305 Pyroclastic Rock.—Greenish grey; rusty weathering; calcareous.

Boleau Creek, Salmon River, Yale District, B.C.

McEvoy, 4-10-91.

1306 Limestone.—Light grey; compact; cherty; yellowish weathering.

Near South Thompson River, B.C.

Dawson, G. M., 20th July.

1307 Diorite.—Greenish grey; fine grained; altered; rusty weathering.

Two miles east of Poison Hill, Yale District, B.C.

Dawson, G. M., 25-8-90.

1308 Chert.—Hard; compact; banded.

Blue Earth Creek, a branch of Hat Creek, Yale District, B.C.

Dawson, G. M., 1877.

1309 Volcanic Agglomerate.—Bluish grey; hard; compact; vesicular.

West of Chaperon Lake, Yale District, B.C.

McEvoy, 19-7-91.

1310 Limestone.—Greyish white; hard; compact; banded.

Karmutzen Lake, Vancouver Island, B.C.

Dawson, G. M., 4-8-85.

1311 Limestone.—Dark grey; weathers light grey; holds *Fusulina*.

Karmutzen Lake, Vancouver Island, B.C.

Dawson, G. M., 5-8-85.

1312 Limestone.—Greyish white, and yellow; spotted; hard; compact; translucent.

Karmutzen Lake, Vancouver Island, B.C.

Dawson, G. M., 4-8-85.

H.—TRIASSIC.

NOVA SCOTIA.

1313 Sandstone.—Brick red, and grey; mottled; fine grained; calcareous; shaly.

Half a mile west of Blue Sack Creek, Cumberland County, N.S.

Barlow, S., 1878.

1314 Sandstone.—Greenish grey: coarse grained: rusty weathering.

Partridge Island, Cumberland County, N.S.

WILLIMOTT, 1892.

1315 Sandstone.—Light greenish grey: fine grained: highly calcareous.

North Mountain, Woodworth Bay, King's County, N.S.

WILLIMOTT, 1883.

1316 Sandstone.—Light greenish grey: fine grained: calcareous.

Cape Blomidon, King's County, N.S.

WILLIMOTT, 1883.

1317 Sandstone.—Light greenish grey: rather coarse grained: calcareous: weathered.

Cape Blomidon, King's County, N.S.

WILLIMOTT, 1883.

1318 Sandstone.—Dark terra cotta red: fine grained: friable.

Opposite Two Islands, Cumberland County, N.S.

BARLOW, S., 1878.

1319 Sandstone.—Greenish grey: fine grained: calcareous: rusty weathering: holds gypsum nodules.

Cape Blomidon, King's County, N.S.

WILLIMOTT, 1883.

1320 Trap.—Dark green: holds zeolites (natrolite, &c.).

Cape Split, King's County, N.S.

WILLIMOTT, 1883.

1321 Amygdaloidal Trap.—Dark green: holds zeolites (heulandite, &c.).

The Race, King's County, N.S.

WILLIMOTT, 1883.

1322 Amygdaloidal Trap.—Dark greenish grey, with bright terra cotta red spots: holds various zeolites.

The Race, King's County, N.S.

WILLIMOTT, 1883.

1323 Amygdaloidal Trap.—Dark greenish grey: contains analcite, lining a large cavity.

The Race, King's County, N.S.

WILLIMOTT, 1883.

1324 Amygdaloidal Trap.—Brownish grey: holds heulandite &c.

East of Stronach Brook, Annapolis County, N.S.

WILLIMOTT, 1883.

1325 Amygdaloidal Trap.—Yellowish brown: coarse grained.

East of Stronach Brook, Annapolis County, N.S.

WILLIMOTT, 1883.

1326 Jasper.—Purplish; rusty weathering.

Cape Blomidon, King's County, N.S.

WILLIMOTT, 1883.

1327 Amygdaloidal Trap.—Brown; coarse grained; contains large bluish green amygdules.

Port George, Annapolis County, N.S.

WILLIMOTT, 1883.

1328 Trap.—Dark brown; highly vesicular; holds laumontite.

Black Rock, King's County, N.S.

WILLIMOTT.

1329 Trap.—Yellowish brown; highly vesicular; cavities only partially filled by zeolites.

Two Islands, Cumberland County, N.S.

WILLIMOTT.

1330 Amygdaloidal Trap.—Reddish brown; holds various zeolites.

Two Islands, Cumberland County, N.S.

WILLIMOTT.

1331 Diabase.—Dark olive green.

Partridge Island, Cumberland County, N.S.

WILLIMOTT.

1332 Trap.—Greenish grey; highly vesicular; weathers brown.

Two Islands, Cumberland County, N.S.

WILLIMOTT.

QUEEN CHARLOTTE AND VANCOUVER ISLANDS.

1333 Limestone.—Black; compact; indurated; holds numerous examples of *Monotis subcircularis*, Gabb.

Houston Stewart Channel, Queen Charlotte Islands, B.C.

DAWSON, G. M., 1878.

1334 Limestone.—Very dark grey to black; impure, indurated; shaly; weathers to a lighter colour; holds *Monotis subcircularis*, Gabb.

North end of Vancouver Island, B.C.

1335 Limestone.—Dark grey; unevenly bedded; much jointed; impure; holds *Halobia Lommeli*, Wissmann.

Section Cove, Burnaby Island, Queen Charlotte Islands, B.C.

DAWSON, G. M., 1878.

1336 Dolerite.—Greenish grey; vesicular; calcareous; porphyritic; rusty weathering.

NOTE.—This rock belongs to the "Logan Inlet Series."

Ramsay Island, Queen Charlotte Islands, B.C.

DAWSON, G. M., 1878.

1337 Felspathic Agglomerate.—Greenish grey; light weathering.

South side of Richardson Inlet, Queen Charlotte Islands, B C.

DAWSON, G. M., 1878.

K.—CRETACEOUS.

MANITOBA AND VICINITY.

(Dakota Formation.)

1338 Sandstone.—Yellowish brown; friable; porous; grey weathering.

Red Deer River, Saskatchewan.

TYRRELL, J. B., 18-9-89.

1339 Sandstone.—Light grey; compact; lignite bearing.

Manitoba.

TYRRELL, J. B.

1340 Sandstone.—Dark greenish grey; calcareous; rusty weathering.

Red Deer River, Saskatchewan.

TYRRELL, J. B., 17-9-89.

1341 Sandstone.—Dark brown; shaly; lignite-bearing.

Rolling River, Township 35, Range 26, W., Manitoba.

TYRRELL, J. B., 14-10-87.

1342 Sandstone.—Yellowish white; fine grained (typical Dakota.)

Red Deer River, Saskatchewan.

TYRRELL, J. B., Sept. 1889.

(Benton Formation.)

1343 Shale.—Dark bluish grey, or black; argillaceous; fissile; brittle; holds selenite crystals.

North Pine River, Manitoba.

TYRRELL, J. B., 12-10-89.

1344 Shale.—Dark grey; almost black; carbonaceous; calcareous.

Bell River, Manitoba.

DOWLING, 29-8-89.

1345 Shale.—Bluish grey; soft; brittle.

Armitt River, Saskatchewan.

TYRRELL, J. B., 13-9-89.

1346 Shale.—Dark grey: irregularly laminated: soft: brittle: fissile.

Bell River, Manitoba.

DOWLING, 29-8-89.

1347 Glauconite (foraminiferal casts.)

From a depth of 1,820 feet, Deloraine Well, Manitoba.

(Niobrara Formation.)

1348 Shale.—Dark grey: calcareous: phosphatic: holds fragments of fossil fish.

Section 18, Township 85, Range 20 W., Wilson River, Manitoba.

TYRRELL, J. B., 7-8-87.

1349 Shale.—Dark brown: soft: fissile: holds foraminifera.

North Pine River, Manitoba.

TYRRELL, J. B., 12-10-89.

1350 Dolomitic Limestone.—Light yellowish grey: hard: compact.

Township 25, Range 20 W., Vermilion River, Manitoba.

TYRRELL, J. B., 3-8-87.

1351 Limestone.—Light grey: weathers somewhat rusty: holds *Inoceramus problematicus*, Schlotheim.

Township 25, Range 20 W., Vermilion River, Manitoba.

TYRRELL, J. B., 3-8-87.

1352 Limestone.—Dark yellow: fine grained: composed largely of comminuted fragments of *Inoceramus*.

Section 36, Township 8, Range 11, Assiniboine River, Manitoba.

TYRRELL, J. B., 12-7-90.

1353 Dolomitic Limestone.—Yellowish grey: buff weathering: holds *Ostrea* and *Inoceramus*.

Township 24, Range 20 W., Vermilion River, Manitoba.

TYRRELL, J. B., 1887.

1354 Shale.—Light bluish grey: fissile: holds *Inoceramus problematicus*, Schlotheim.

Township 25, Range 20 W., Vermilion River, Manitoba.

TYRRELL, J. B., 3-8-87.

(Pierre Formation.)

Millwood Series.

1355 Shale.—Greyish brown: soft: friable: earthy.

Section 34, Township 20, Range 29, Assiniboine River, Manitoba.

TYRRELL, J. B., 29-6-90.

1356 Limestone.—Greyish brown: rusty weathering: holds *Lunatia concinna*, Hall and Meek, *Scaphites nodosus*, Owen, &c.

Assiniboine River, above Qu'Appelle River, Manitoba.

TYRRELL, J. B., 26-6-90.

1357 Shale.—Slate grey: argillaceous: soft: friable: fissile: holds radiolaria.

North Pine River, Duck Mountain, Manitoba.

TYRRELL, J. B., 14-8-89.

1358 Shale.—Dark grey to black: argillaceous: somewhat indurated: impure.

Township 23, Range 20 W., Vermilion River, Manitoba.

TYRRELL, J. B., 23-7-87.

1359 Shale.—Light grey: soft: brittle: holds radiolaria.

Bell River, Porcupine Mountain, Manitoba

DOWLING, 31-8-89.

Odanah Series.

1360 Shale.—Light grey: fissile: brittle: rusty weathering.

Shoal Lake, Manitoba.

TYRRELL, J. B., 27-8-87.

1361 Shale.—Light bluish grey: finely laminated: soft: brittle.

Tank Well, Deloraine, Manitoba.

TYRRELL, J. B., Oct., 1889.

1362 Clay. Light grey: hard: compact: spotted: conchoidal fracture: rusty weathering.

Section 35, Township 9, Range 24, Assiniboine River, Manitoba.

TYRRELL, J. B.

BRITISH COLUMBIA.

(Lower Cretaceous.)

1363 Sandstone. Dark green: brown weathering: calcareous. (Aucella Sandstone).

Winter Harbour, Quatsino Sound, Vancouver Island, B.C.

DAWSON, G. M., 24-8-85.

1364 Limestone.—Dark grey: carbonaceous. A nodule holding *Desmoceras Beudanti*, Brongniart.

Cumshewa Inlet, Queen Charlotte Islands, B.C.

DAWSON, G. M., 1878.

ATHABASCA DISTRICT.

(Cretaceous.)

1365 Sandstone.—Light greenish grey; soft; friable.

Peace River, Athabasca.

McConnell, 1890.

1366 Limestone.—Dark grey; hard; compact; impure; fossiliferous; rusty weathering.

Peace River, below Cadotte's River, Athabasca.

McConnell, 1889.

1367 Quartz Conglomerate.—Dark brown; petroleum-bearing.

Above camp of July 9-10, Athabasca River.

McConnell, 10-7-90.

1368 Sandstone.—Yellowish; rather coarse grained; friable; rusty weathering.

Camp of May 21-22, Athabasca River.

McConnell, 21-5-90.

1369 Sandstone.—Yellowish grey; rather fine grained; slightly carbonaceous; hard; compact; rusty weathering.

Athabasca River, 25 miles above the Landing, Alberta.

McConnell, 1889.

1370 Sandstone.—Dark brown; rather fine grained; tar-soaked.

Forks of the Athabasca River, Alberta.

McConnell, 1890.

1371 Lignitic Coal.—Black; somewhat glossy; brittle.

Moose River, Athabasca River, Athabasca.

McConnell, 1890.

1372 Limestone.—Dark greenish grey; evenly bedded; fossiliferous.

North side of Lesser Slave Lake, Athabasca.

McConnell, 1889.

NORTH-WEST TERRITORY.

(Upper Cretaceous.)

1373 Felspathic Sandstone Conglomerate.—Hard; coarse grained.

Porcupine River, North-west Territory.

McConnell, 1888.

ROCKY MOUNTAINS.

(Upper Cretaceous.)

1374 Argillite.—Light grey : fine grained ; calcareous.

Red Deer River, Rocky Mountains.

McConnell, 1885.

1375 Dolomitic Limestone.—Light greyish yellow ; hard ; compact ; flinty.

Summit of Pass, Clearwater to Red Deer River, Rocky Mountains.

McConnell, 1885.

MACKENZIE RIVER.

(Upper Cretaceous.)

1376 Shale.—Dark grey ; brown weathering ; fossiliferous.

Mackenzie River, North-west Territory.

McConnell, 1888.

SASKATCHEWAN.

(Upper Cretaceous.)

1377 Limestone.—Dark grey ; semi-crystalline ; impure ; holds fragments of *Inoceramus problematicus*, Schlotheim.

Green Lake, Saskatchewan.

Tyrrell, J. B., 29-9-92.

ALBERTA.

(Belly River Formation.)

1378 Limestone Marl.—Dark brown ; holds *Corbula perundata*, Meek and Hayden, *Campeloma producta*, White, *Corbula subtrigonalis*, Meek and Hayden, and *Unio*.

Milk River, Alberta.

Dawson, G. M., 1881.

1379 Limestone.—Yellowish grey: rusty weathering: holds fossil plants and shells.

Fossil Coulée, Milk River Ridge, Alberta.

WESTON, 1888.

1380 Marl.—Whitish grey: holds *Corbula subtrigonalis*, Meek and Hayden.

Belly River, Alberta.

DAWSON, G. M., 19-6-81.

ASSINIBOIA.

(Pierre—Fox Hills Formation.)

1381 Limestone.—Yellowish grey: holds *Corbicula occidentalis*, Meek and Hayden.

Opposite Swift Current, South Saskatchewan River, Assiniboia.

McCONNELL, 1889.

1382 Limestone.—Pinkish grey: hard: compact: holds *Liopistha undata*, Meek and Hayden, and *Protocardia subquadrata*, Evans and Shumard.

Four miles north of Irvine Station, C. P. Railway, Assiniboia.

WESTON, August, 1888.

1383 Limestone.—Dark grey: brown weathering: holds *Pteria Nebrascana*, Evans and Shumard.

Opposite mouth of Swift Current, South Saskatchewan River, Assiniboia.

WESTON, 1889.

PYROCLASTICS AND ERUPTIVES.*

BRITISH COLUMBIA.

1384 Diabase Tuff.—Dark green: hard: fine grained: calcareous: rusty weathering.

Bonaparte River, Yale District, B.C.

DAWSON, G. M., 3-8-90.

1385 Diabase Tuff.—Dark green: rusty weathering: hard: fine grained: calcareous.

Bonaparte River, Yale District, B.C.

DAWSON, G. M., 3-8-90.

1386 Diabase.†—Dark green: fine grained: porphyritic.

Dillon Point, Hardy Bay, Vancouver Island, B.C.

DAWSON, G. M., 11-8-85.

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*Age uncertain.

†Probably Triassic. Mapped provisionally as such. G. M. D.

L.—TERTIARY.

ALBERTA AND ASSINIBOIA.

(Laramie Formation.*)

1387 Sandstone.—Light greenish grey; fine grained; calcareous; holds fragments of fossil plants (*Platanus*, &c.)

Section 19, Township 36, Range 28, W. of 4th Meridian, Red Deer River, Alberta.

TYRRELL, J. B., 10-9-85

1388 Sandstone.—Bluish grey; calcareous; shaly partings; rusty weathering; holds fragments of fossil plants.

Pincher Creek, Alberta.

WESTON, 1883.

1389 Shale.—Yellowish white; hard; compact; calcareous; holds *Sequoia Langsdorfii*, Heer, and other plants.

Section 33, Township 39, Range 7, W. of the 5th Meridian, near Rocky Mountain House, North Saskatchewan River, Alberta.

TYRRELL, J. B., 19-9-86.

1390 Lignitic Coal.—Dark brown, and black.

Saskatchewan River, near Edmonton, Alberta.

TYRRELL, J. B., 1886.

1391 Limestone.—Light brown; shaly; compact; rusty weathering; holds *Platanus nobilis*, Heer.

Souris River, Short Creek, Roche Percé, Assiniboia.

SELWYN, July, 1888.

1392 Limestone.—Dark grey; compact; flinty; holds *Physa Copei*, var. *Canadensis*, Whiteaves.

Pincher Creek, Alberta.

WESTON, 1883.

ASSINIBOIA.

(Miocene.)

1393 Sandstone.—Yellowish red; evenly bedded; hard; compact; calcareous.

Near White Mud River, Assiniboia.

WESTON, 15-6-84.

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*The lower portion of the Laramie formation, however, is almost certainly Cretaceous. J. F. W.

MACKENZIE RIVER.

(Miocene.)

1394 Fossil Wood (Siliceous Argillite.)—Light grey : light yellow weathering.

Twenty miles above Bear River, Mackenzie River, North-west Territory.

McConnell, 1888.

YUKON RIVER.

(Laramie.)

1395 Argillite.—Greyish white ; hard ; compact ; flinty ; holds *Taxites Olriki*, Heer, &c.

Lewes River, Yukon River, North-west Territory.

Dawson, G. M., 1887.

BRITISH COLUMBIA.

(Miocene.)

1396 Argillite.—Yellowish grey ; soft ; fissile ; unevenly bedded.

Hastings, Burrard Inlet, B.C.

Macoun, J. 1891.

1397 Sandstone Conglomerate.*—Greenish grey ; coarse grained ; rusty weathering.

Malcolm Island, B.C.

Dawson, G. M., 5-8-85.

1398 Sandstone.—Greenish white ; fine grained ; calcareous ; holds *Tapes staminea*, Conrad.

Note.—The exact age of these beds is uncertain. They may be Pliocene.

Skon-un Point, Queen Charlotte Islands.

Dawson, G. M., 1878.

ERUPTIVES.

BRITISH COLUMBIA.

1399 Porphyritic Trachyte.- Light brown ; fine grained ; spotted white.

Pimainus Creek, Thompson River, B.C.

Dawson, G. M., 14-8-89.

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*This specimen is of Cretaceous age.

1400 Diabase Porphyrite.—Black : holds yellowish felspar crystals.

Bighorn Mountain, Okanagan Lake, B.C.

McEvoy, 26-7-91.

1401 Porphyrite.—Light grey : micaceous : spotted with white.

Upper Boulean River, O'Kanagan Lake, B.C.

McEvoy, 23-7-91.

M.—POST-TERTIARY.

BRITISH COLUMBIA.

(Glacial.)

1402 Clay.—Light bluish grey. (White Silts.)

Alert Bay, Cormorant Island, B.C.

Dawson, G. M., 3-8-85.

ONTARIO.

(Glacial.)

1403 Till or Boulder Clay.—Light grey ("Moraine profonde.")

Ottawa, Carleton County, Ont.

Ami, May, 1886.

1404 Limestone.—Glaciated boulder from "Boulder Clay."

Central Experimental Farm, Ottawa, Carleton County, Ont.

Ami, May, 1888.

1405 Shale.—Glaciated : from base of Utica (surface striæ N. 17 W.)

Sparks Street, Ottawa, Carleton County, Ont.

Ami, 1890.

ONTARIO.

(Leda Clay.)

1406 Clay.—Bluish grey : holds *Tithea Logani*, Dawson, *Yoldia arctica*, Gray, and foraminifera.

Odell's Brickyard, Ottawa, Carleton County, Ont.

Ami, Dec., 1890.

1407 Clay (nodule.)—Bluish grey: hard: compact: calcareous: sandy: holds *Saxicava rugosa*, Lamarck.

Green's Creek, Gloucester Township, Carleton County, Ont.

AMI, 1888.

ONTARIO.

(Saxicava Sand.)

1408 Conglomerate.—Greyish brown: calcareous: rusty weathering: holds *Saxicava rugosa*, Lamarck, and *Macoma fragilis*, O. Fabricius.

Moose Creek, Stormont County, Ont.

AMI, 1890.

1409 Sand.—Yellowish brown: soft: friable: holds *Macoma calcarea*, Chemnitz, *Macoma fragilis*, O. Fabricius, and *Saxicava rugosa*, Lamarck.

Moose Creek, Stormont County, Ont.

AMI, 1890.

QUEBEC AND ONTARIO.

(Recent.)

1410 Sandstone.—Dark brown: ferruginous: porous: rusty weathering: holds plant remains.

Memphremagog Iron Mine, Bolton Township, Brome County, Que.

WILLIMOTT, 1892.

1411 Shell Marl.—Greyish white: holds *Planorbis parvus*, Say, *Ampicola porata*, Say, &c.

Hemlock Lake, Beechwood, near Ottawa, Carleton County, Ont.

AMI, 1885.

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