

GEOLOGICAL SURVEY, CANADA

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# INDEX

TO

SEPARATE REPORTS 1906-1910

AND

SUMMARY REPORTS 1905-1916

COMPILED BY  
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OTTAWA  
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## INTRODUCTION

This Index is the third issued by the Geological Survey. The first covered the reports from 1863 to 1884, and the second, published in 1908, covered Volumes I-XVI, which contained most of the reports from 1884 to 1904. The present work contains references to the "separate" reports, 1906-1911; to the Summary Reports, 1905-1916, and to the accompanying maps, but does not contain references to any Memoirs or Bulletins.

A list of the reports indexed is given on page 5; and on page 304 a list of maps that do not accompany any special report.

The plan of this work is substantially the same as that of the 1908 Index with the following exceptions:

- (a) References to existing flora and fauna are omitted.
- (b) Whenever a place in Ontario or Quebec can be located in a township, the name of the township is given, but not the name of the county or district. The location of the township can be ascertained by referring to the list of townships on page 299.
- (c) Places in British Columbia are located in mining divisions as represented on the map of British Columbia, which is taken from the map issued by the Department of Mines, British Columbia, 1914.
- (d) Places in the Central and Maritime Provinces are located in electoral divisions as shown on maps in pocket. These divisions are taken from the Electoral Atlas published by the Department of the Interior, 1915.

The compiler is glad to have the opportunity of acknowledging that without the help of the officers of the Geological Survey this work could never have attained accuracy. But he owes special acknowledgments to Dr. G. A. Young, to whom he has applied for information and advice on many hundreds of occasions, and without whose aid this work would have lost much of its usefulness. The compiler regrets that Dr. Young will not permit his name to appear on the title page.

## ABBREVIATIONS

<b>R</b>	preceding a number stands for "Separate Report." Example, <b>R 1085</b> means "Separate Report, Geological Survey, Pub. No. 1085."
<b>S</b>	preceding a number stands for "Summary Report." Example, <b>S 1912</b> means "Summary Report for the year 1912."
<b>Alta.</b>	Province of Alberta.
<b>B.C.</b>	Province of British Columbia.
<b>C.B.</b>	Cape Breton.
<b>C.P. ry.</b>	Canadian Pacific railway.
<b>Frank.</b>	Provisional district of Franklin. <sup>1</sup>
<b>G.T. ry.</b>	Grand Trunk railway.
<b>Kee.</b>	Divisional district of Keewatin. <sup>1</sup>
<b>Ken.</b>	District of Kenora.
<b>Lab.</b>	Labrador. <sup>1</sup>
<b>m.</b>	Mine.
<b>Mack.</b>	Provisional district of Mackenzie. <sup>1</sup>
<b>Man.</b>	Province of Manitoba.
<b>N.B.</b>	Province of New Brunswick.
<b>N.S.</b>	Province of Nova Scotia.
<b>N.T. ry.</b>	National Transcontinental railway.
<b>Ont.</b>	Province of Ontario.
<b>P.E.I.</b>	Province of Prince Edward Island.
<b>Que.</b>	Province of Quebec.
<b>R.M.</b>	Rocky mountains.
<b>Sask.</b>	Province of Saskatchewan.
<b>V.I.</b>	Vancouver island.
<b>Ykn.</b>	Territory of Yukon.

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<sup>1</sup> Since January, 1920, the districts of Keewatin, Mackenzie, and Franklin have had a legal existence as Provisional Districts included in the general term Northwest Territories. Labrador includes only the strip, bordering New Quebec along the Atlantic coast, that is under the judicial jurisdiction of Newfoundland.

## LIST OF REPORTS INDEXED

### *Geological Survey Publications*

923. Geological Report on the Chibougamau Mining Region in the Northern Part of the Province of Quebec. By A. P. Low.
928. Section of Mines. Annual Report for 1904. By E. D. Ingall.
939. Preliminary Report on the Rossland, B.C., Mining District. By R. W. Brock.
949. Report on the Cascade Coal Basin, Alberta. By D. B. Dowling.
958. Report of the Section of Chemistry and Mineralogy, 1905. By G. C. Hoffmann.
961. Reprint of a Report on the Origin, Geological Relations, and Composition of the Nickel and Copper Deposits of the Sudbury Mining District, Ontario, Canada. By A. E. Barlow.
962. Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map-sheets, Comprising Portions of the District of Nipissing, Ontario, and of the County of Pontiac, Quebec. By A. E. Barlow.
968. Moose Mountain District of Southern Alberta. By D. D. Cairnes.
970. The Falls of Niagara. By J. W. W. Spencer.
971. Section of Mines. Annual Report on the Mineral Industries of Canada for 1905. By E. D. Ingall.
974. Report on the Copper Deposits of the Eastern Townships of Quebec, with a Review of the Igneous Rocks of the District. By J. A. Dresser.
977. Report on the Geology and Natural Resources of the Area Included in the Northwest Quarter-sheet, Number 122, of the Ontario and Quebec Series, Comprising Portions of the Counties of Pontiac, Carleton, and Renfrew. By R. W. Ells.
979. Report on Gold Values in the Klondike High Level Gravels. By R. G. McConnell.
980. Geological Reconnaissance of a Portion of Algoma and Thunder Bay Districts, Ontario. By W. J. Wilson.
982. Report on a Portion of Conrad and Whitehorse Mining Districts, Yukon. By D. D. Cairnes.
983. The Geology and Mineral Resources of New Brunswick. By R. W. Ells.
986. Preliminary Report on a Part of the Similkameen District, British Columbia. By C. Camsell.
988. The Telkwa River and Vicinity, B.C. By W. W. Leach.
992. Report on a Portion of Northwestern Ontario Traversed by the National Transcontinental Railway between Lake Nipigon and Sturgeon Lake. By W. H. Collins.
- 996.<sup>2</sup> Preliminary Report on a Portion of the Main Coast of British Columbia and Adjacent Islands Included in New Westminster and Nanaimo Districts. By O. E. LeRoy.
1006. Report on a Traverse Through the Southern Part of the North West Territories from Lac Seul to Cat Lake in 1902. By A. W. G. Wilson.
1021. Summary Report on Explorations in Nova Scotia, 1907. By H. Fletcher.
1028. Report on a Recent Discovery of Gold near Lake Megantic, Quebec. By J. A. Dresser.
1030. Report on the Landslide at Notre-Dame de la Salette, Lièvre River, Quebec. By R. W. Ells.
1035. The Coal Fields of Manitoba, Saskatchewan, Alberta, and Eastern British Columbia. By D. B. Dowling.
1050. The Whitehorse Copper Belt, Yukon Territory. By R. G. McConnell.
1059. A Geological Reconnaissance of the Region Traversed by the National Transcontinental Railway between Lake Nipigon and Clay Lake, Ontario. By W. H. Collins.
1064. Geology of an Area Adjoining the East Side of Lake Timiskaming, Quebec. By M. E. Wilson.
1075. Preliminary Report on Gowganda Mining Division, District of Nipissing,<sup>3</sup> Ontario. By W. H. Collins.
1080. Report on a Part of the North West Territories of Canada Drained by the Winisk and Upper Attawapiskat Rivers. By W. McInnes.
1081. Report on the Region Lying North of Lake Superior Between the Pic and Nipigon Rivers, Ontario. By W. H. Collins.
1085. A Descriptive Sketch of the Geology and Economic Minerals of Canada. Introduction by R. W. Brock. By G. A. Young.
1097. A Reconnaissance Across the Mackenzie Mountains on the Pelly, Ross, and Gravel Rivers, Yukon and North West Territories. By J. Keele.
1107. Part II. Geological Position and Character of the Oil-shale Deposits of Canada. By R. W. Ells.

and

Geological Survey Summary Reports for the Years 1905 to 1916 inclusive.

### *Mines Branch Publication*

55. Part I. Report on Tests Made in Scotland of Oil-shale Sent from New Brunswick in the Spring of 1908, With a View to Ascertaining Its Economic Value. Especially as Regards the Yield of Crude Oil and Sulphate of Ammonia. By R. W. Ells.

<sup>1</sup> The pagination of the reprint is from one to two pages different from that of the first issue.

<sup>2</sup> The area reported on in Quebec is now part of Timiskaming county.

<sup>3</sup> Now in the district of Timiskaming.



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Union-Riversdale formation..... 390 S 1912

Work by, 1906..... 176, 177 S 1906

**AMIELLA**

Kicking Horse valley, B.C..... 190 S 1911

**Amisk l., Sturgeon-weir r., Sask.**

Magnesian limestone..... 87, 88 S 1908

Sum. repts. on area, by Bruce..... 67-69 S 1914

126-128 S 1915

**Amiskwi pass, Van Horne range, B.C.**

Fossils..... 191 S 1911

**Amiskwi r., Kicking Horse r., B.C.**

Cinnabar near..... 187 S 1911

**AMISKWIA**

Kicking Horse valley, B.C..... 190 S 1911

**AMMONTES**

Banff area, Alta..... 174 S 1912

98 S 1915

## AMMONITES (Continued)

Red Deer r., Alta.	24	R 1035
Rocky Mountains park, Alta.	105	S 1907
Thompson valley, B.C.	135	S 1912
Whitehorse dist., Ykn.	32, 33	R 982
	270	S 1909

## Ammonium sulphate

Albert and Westmorland cos., N.B.	11, 17	R 55
	109	R 983
	43	R 1107
	202-213	S 1909
	312	S 1911
Albert shales.	57	R 1085
	141	S 1908
Canadian Appalachian reg., in shale	41	R 1085
Manufacture; price; uses. 22, 23, 34,	35, 43-48, 56	R 55
Ratio of to oil, in oil-shales.	22, 44, 51, 52	R 1107
Scotland; England.	19-21	R 55
	111	R 983
	42, 50, 52	R 1107
Utica shale as a source of.	64	R 1107

## AMNICOLA

Patricia dist., Ont.	53	R 1080
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## Amphibole

Egan tp., Que.	259, 260	S 1910
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## Amphibolite

Atlin mg. div., B.C.	32	S 1910
Bell R. reg., Que.	327	S 1912
Gooderham, Ont.	12	S 1906
Gunflint L. area, Ont.	185	S 1910
Minnitaki L. area, Ont.	29	R 1059
Nipigon L. reg., Ont., petrography.	25, 26	R 1059
Patricia dist., Ont.	15	R 1006
Pembroke map-sheet, Ont. and Que.	6, 8	R 977
Quinze r., Que., petrography. 104, 201,	203	R 962
Sudbury nickel reg., Ont., petro-		
graphy.	58, 60	R 961
Timiskaming L. reg., Ont. and Que.,		
petrography.	75, 184	R 962
	276	S 1911
Vancouver is., B.C.	94	S 1909

## Amphibolite schist. SEE Schist, amphibolite

## AMPHICOELIA

Wiaront, Ont.	280	S 1912
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## AMPLEXOPORA

Nipissing l., Ont.	119, 294	R 962
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## AMPLEXUS

Winnipegosis l., Man., near.	307	S 1913
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## AMPYX

Quebec city, Que.	356	S 1911
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Amsterdam limestone.	190	S 1910
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Amultrie, N. Easthope tp., Ont.	165, 166	S 1909
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Amundsen, Capt. Roald.	197, 200, 201	S 1908
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Amundsen gulf, S. of Banks is., Frank.		
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Birds and mammals.	379-383	S 1916
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## Amygdaloids

Alaska.	24-26	S 1909
Eastern Tps., Que.	33	R 974
Gowganda mg. div., Ont.	199	S 1910
L. Superior, N. shore.	14	R 1081
Larder L. area, Ont.	175	S 1909
Nelson mg. div., B.C.	143	S 1911
New Brunswick.	36, 43	70 R 983
	232, 235	S 1913
Queen Charlotte islds., B.C.	79	S 1909
Telkwa mg. div., B.C.	11	R 988
Texada is., B.C.	70	S 1909
White R. headwaters, Ykn.	23, 25	S 1905
Windy Arm dist., Ykn.	28	S 1905

## AMYZON

Similkameen r., B.C.	137	S 1905
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Anaconda copper claim, Quadra is.,		
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B.C.	74	S 1913
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Anaconda copper claim, Roche r., B.C.	33	R 986
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	50	S 1906
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## Anaconda copper m., N. of Porter ck.,

McIntyre ck., Lewes r., Ykn.		
Description and geology.	50, 51	R 1050
Discovery; operations.	1, 2	R 1050
Ores.	10, 23, 27, 28, 32	R 1050

Anagance, Kings co., N.B.	128	R 983
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## Analcite-trachyte tuff

Castle R. coal area, Alta.	239	S 1912
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## Analyses

Albertite and Albert shales		
Albert co., N.B.	202, 203	S 1909
	109, 110	R 983

Alkali-syenite		
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Monteregian hills, Que.	35	R 974
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## Alunite rocks

Kyuquot sd., B.C.	118	S 1913
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## Ankerite

Londonderry iron mines, N.S.	263-268	S 1916
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## Antimony

York co., N.B.	93	R 983
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## Argillites

Observatory inlet, B.C.	56	S 1913
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## Awaruite

Pelly r., Ykn.	258	S 1910
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## Axinite

Osoyoos mg. div., B.C.	259	S 1910
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## Breccia

Sudbury nickel reg., Ont.	73	R 961
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## Brine. SEE BELOW Salt

## Chromite

Bridge R. area, B.C.	83	S 1915
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## Clay

Taber area, Alta.	226	S 1911
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## brick

Moose Jaw, S.W. of, Sask.	64	R 958
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## iron-stone

Lethbridge area, Alta.	43	R 958
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Pas mt., Sask.	45	S 1907
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Tulameen area, B.C.	44	R 958
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## Coal

Australasia.	82	R 1035
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Gt. Britain.	82	R 1035
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	33	R 1107
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## United States

general.	83-100	R 1035
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Kentucky.	58	R 1107
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Pennsylvania.	106	R 983
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## Alberta

Athabaska r.	46	R 1035
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Belly R. area.	46, 47, 60-62	R 1035
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Bighorn area.	59	R 1035
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	72, 73	S 1906
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	76	S 1908
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Bow r.	46	R 1035
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Brazeau area.	47, 48	R 1035
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	76	S 1908
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	95, 96, 106	S 1916
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Castle r.	242	S 1912
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Castor.	222	S 1911
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Costigan basin.	59	R 1035
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	39, 40	S 1907
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Crownsnest field.	48	R 1035
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	114	S 1916
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Dirt hills.	83	S 1908
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Edmonton.	46	R 1035
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formation.	62-64	R 1035
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Highwood r.	46	R 1035
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Jasper park.	159-165	S 1910
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	211, 213, 216	S 1911
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Laramie formation.	65, 66	R 1035
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Lethbridge-Medicine Hat area.	46, 61	R 1035
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Livingstone area.	47, 56	R 1035
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Mainville area.	223	S 1911
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Milk r.	46	R 1035
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Moose Mt. reg.	9-11, 13-16,	R 968
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	57	R 1035
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North Saskatchewan R. reg.	46-48	R 1035
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	151, 152	S 1913
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## Analyses (Continued)

## Coal (Continued)

## Alberta (Continued)

Oldman r.....	23	R	938
Mill ck.....	47	R	1035
Peace r.....	61, 62	R	1035
Pembina field.....	169	S	1906
	106	S	1916
Pincher ck.....	47	R	1035
Red Deer dist.....	20, 24	R	958
river.....	36	R	949
	46	R	1035
Rocky mts.			
Banff area.....	19, 24, 26, 30	R	949
	30, 35	R	958
Blairmore-Frank area.....	56	R	1035
Cascade area.....	48, 57, 58	R	1035
	77, 79	S	1908
foothills.....	34, 35	R	949
	58, 60, 62, 64	R	1035
	37, 38	S	1907
	144-150	S	1909
Rocky Mountains park.....	106	S	1916
St. Mary r.....	46	R	1035
Smoky R. area.....	92, 93	S	1916
Taber.....	105	R	971
Tofield.....	221	S	1911
Towkinow r.....	20	R	958

## British Columbia

Elk r.....	47, 55, 56	R	1035
Kootenay formation.....	55-60	R	1035
Morrissey.....	48	R	1035
Nicola mg. div.....	23-27	R	958
	74, 75	R	1035

## Omineca mg. div.

Bulkley valley.....	42, 43	S	1908
	99, 100	S	1910
Groundhog basin.....	88, 89	S	1911
	94-100	S	1912
Kispiox area.....	90	S	1911
	101	S	1912
Sustat r.....	100, 101	S	1912
Takla l.....	74	S	1915
Telkwa area.....	37	R	958
	15, 18, 19	R	988
	38, 39	S	1906
	22	S	1907

Peace R. mg. div.....	27-30	R	958
	61, 62	R	1035
Princeton basin.....	31	R	986
	49	S	1906

Queen Charlotte islds.....	73, 74	R	1035
	31, 32, 36-39	S	1912
	49-52	S	1913

Skeena mg. div.....	90	S	1911
Tulameen area.....	116	S	1909
Vancouver is.....	47, 72, 73	R	1035

Yale mg. div.....	75	R	1035
	81	R	1035
New Brunswick.....	106, 107	R	983
	81	R	1035
	269	S	1916

## Nova Scotia

Antigonish co.....	12	R	1021
Cape Breton.....	79-81	R	1035
Hants co.....	150	S	1906
Pictou co.....	30, 38	R	1107
	77-79	R	1035
	137	S	1908

## Saskatchewan

Lac la Ronge area.....	156, 157	S	1909
Souris area.....	19	R	958
Willowbunch reg.....	158	S	1913
Wood Mt. reg.....	66	S	1914

Yukon.....	20, 25	R	958
	76, 77	R	1035
	29	S	1908
	32, 33	S	1914

## Analyses (Continued)

## Copper and copper ores

Allenby mt., B.C.....	36	R	986
Eastern Tps., Que.....	47	R	1085
Nordenskiöld r., Ykn.....	30, 31	S	1908
Rosslund dist., B.C.....	18	R	939
Sudbury nickel reg., Ont.....	25	R	961
Whitehorse dist., Ykn.....	23, 37, 49	R	1050

## Copper matte

Trail, B.C.....	31	R	939
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## Cornish stone. SEE BELOW Granite

## Dacite tuff

Kyququot sd., B.C.....	118	S	1913
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## Danaite

Sudbury nickel reg., Ont.....	103	R	961
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## Diorite

Eastern Tps., Que.....	27	R	974
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## Dolomite

Algoma dist., Ont.....	9	R	980
Paraday tp., Ont.....	42	R	958
Thunder B. dist., Ont.....	9	R	980
	16	R	1081

## Feldspar

Addington co., Ont.....	232	S	1911
Templeton tp., Que.....	165	S	1915

## Flue dust

Sudbury nickel reg., Ont.....	203	R	961
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## Fluorite

Nelson mg. div., B.C.....	157	S	1911
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## Gas (natural)

Athabaska and Peace rivers.....	145, 151	S	1916
Calgary, Alta.....	51	S	1914
Margaretville, N.S. (near).....	272	S	1916
Plantagenet tp., Ont.....	312	S	1916

## Gas (retort)

Albert shales, N.B.....	16	R	55
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## Glass sand

Lac la Ronge area, Sask.....	157	S	1909
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## Gneiss

Timiskaming dist., Ont. and Que.....	53	R	962
Wekusko l., Man.....	167	S	1916

## Gold and silver. SEE ALSO Assays

Windy arm, Ykn.....	16	R	982
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## Granite (Cornish stone)

Amherst tp., Que.....	217	S	1916
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## Granodiorite

Butte co., California.....	27	R	974
Coast Range batholith.....	61	S	1912

## Graphite

St. John, N.B.....	114	R	983
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## Gypsum

New Brunswick.....	119, 120	R	983
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## Hexahydrate

Lillooet, B.C.....	256, 257	S	1910
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## Hydromagnesite

Atlin, B.C.....	53-55, 60	S	1915
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## Iron ores

Bathurst dist., N.B.....	222	S	1909
Nipisiguit r.....	86	R	983
Blairmore area, Alta.....	45	R	958
	200	S	1911

## Bristol tp., Que.....

Carleton and Charlotte cos., N.B.....	46	R	958
	83	R	983
	45	R	958
	46	R	958
	50	R	1097
	45	R	958
	51	S	1907
	185	S	1916
	46	R	958
	263-265	S	1916
	312	S	1912
	277	S	1916
	47	R	958
	46	R	958
	60	R	1059
	68	S	1915
	42, 44, 45	R	996

## Dunham tp., Que.....

Gatineau r., Que.....	46	R	958
Gravel r., Mack.....	50	R	1097
Halifax and Kings cos., N.S.....	45	R	958
Kenora dist., Ont.....	51	S	1907
L. Huron, N. shore.....	185	S	1916
Lanark co., Ont.....	46	R	958
Londonderry, N.S.....	263-265	S	1916
Moose Mt. range, Ont.....	312	S	1912
Pictou co., N.S.....	277	S	1916
Pincher Ck. area, Alta.....	47	R	958
Quinze r., Que.....	46	R	958
Savant l., Ont.....	60	R	1059
Telkwa valley, B.C.....	68	S	1915
Texada is., B.C.....	42, 44, 45	R	996



## Analyses (Continued)

Iron ores (Continued)	
Timagami l., Ont.....	47 R 958
Torbrook area, N.S.....	46 R 958
	274 S 1916
Vancouver is., B.C.....	95 S 1909
Vernon mg. div., B.C.....	47 R 958
Kaolin	
Amherst tp., Que.....	230 S 1911
	216, 217 S 1916
Lead ores—Galena	
Bulkley valley, B.C.....	44, 45 S 1908
St. John co., N.B.....	93 R 983
Watson and Wheaton rivers, Ykn..	19 R 982
Windy arm, Ykn.....	17 R 982
Limestone	
Coleman tp., Ont.....	40 R 1064
	192 S 1916
Missisquoi and Terrebonne cos., Que.....	40, 41 R 958
Orangedale, N.S.....	278 S 1916
Pittsburgh tp., Ont.....	41 R 958
St. John co., N.B.....	117, 118 R 983
	241 S 1913
Texada is., B.C.....	42 R 958
	55, 57 R 996
Vancouver is., B.C.....	53 S 1912
Victoria co., N.S.....	38 R 958
Zymoetz r., B.C.....	45 S 1908
Linarite	
Slocan mg. div., B.C.....	260 S 1910
Magnesite	
Argenteuil co., Que.....	159 R 928
Atlin mg. div., B.C.....	158 R 928
Bridge R. area, B.C.....	84 S 1915
	49 S 1916
Orangedale, N.S.....	278 S 1916
Manganese ores	
New Brunswick.....	96-98 R 983
	182 S 1915
Prince Edward is.....	70 R 958
Marl	
Emerald l., Ont.....	154 R 962
Mayo, Ykn.....	19 S 1916
Molybdenite	
Gnawed mt., B.C.....	70 R 958
Monzonite	
Nelson mg. div., B.C.....	144 S 1911
Nickel and nickel ores.....	THROUGHOUT R 961
Oil	
Calgary, Alta.....	51 S 1914
Gt. Slave l., Mack.....	75 S 1916
Peace r., Alta.....	144 S 1916
Sheep R. reg., Alta.....	115 S 1916
Viking well (Cardston dist.), Alta.	118 S 1916
Oil-shale	
Albert Mines, N.B.....	16-18 R 55
	224 S 1913
	203-206 S 1909
general.....	THROUGHOUT R 1107
Nova Scotia.....	21, 23, 28-31, 39 R 1107
	135, 137 S 1908
	210, 211 S 1909
Olivine-diabase	
Sudbury nickel reg., Que.....	90 R 961
Perthite	
Timagami dist., Ont.....	151 R 962
Petroleum. SEE ABOVE Oil	
Platinum	
Tulameen area, B.C.....	112 S 1909
Platinum-sperrylite	
Sudbury nickel reg., Ont.....	11, 99 R 961
Pyrophyllite rocks	
Kyuquot sd., B.C.....	118 S 1913
Pyroxene	
Texada is., B.C.....	55 R 996
Quartz	
Francy bk., C.B.....	281 S 1913

## Analyses (Continued)

Quartz-porphry	
Eastern Tps., Que.....	23 R 974
Salt	
Kwinitsa r., B.C.....	57 S 1912
Salt R. reg., Alta.....	141, 142 S 1916
Sussex, N.B.....	129 R 983
Sandstone, resinous	
Gaspe, Que.....	60, 61 R 1107
Saponite	
Gatineau r., Que.....	260 S 1910
Schist, chloritic	
Granby bay, B.C.....	56 S 1913
Sea water, average.....	82 S 1913
Serpentine	
Eastern Tps., Que.....	29 R 974
Shale, carbonaceous	
Tagish l., Ykn.....	70 R 958
Shale, ferruginous	
Carleton co., N.B.....	70 R 958
Shale, graphitic	
Inverness co., N.S.....	70 R 958
Shale, oil	
SEE ABOVE Oil-shale	
Shale, Utica	
Ont. and Que.....	63, 64 R 1107
Silica	
Charlotte co., N.B.....	127 R 983
Silt	
Desbarats, Ont.....	70 R 958
Silver ores	
SEE ALSO Assays	
Cobalt area, Ont.....	155 R 961
Fabre tp., Que.....	38 R 1064
Watson and Wheaton rivers, Ykn.	19 R 982
Windy arm, Ykn.....	15-17 R 982
Sinter	
Twomile ck., Skeena r., B.C.....	107 S 1912
Slags	
Sudbury nickel reg., Ont	
	197, 202-204, 211, 212 R 961
Trail, B.C.....	31 R 939
Smaltite	
Cobalt area, Ont.....	154 R 961
Sodalite	
Golden mg. div., B.C.....	143 S 1910
Souesite (iron-nickel alloy)	
Fraser r., B.C.....	10, 11 R 928
Stellarite	
Pictou co., N.S.....	26, 30, 38, 39, 57 R 1107
Stromeyerite	
Nelson mg. div., B.C.....	146 S 1911
Tonalite	
Alaska.....	61 S 1912
Torbanite	
Scotland.....	33, 55-57 R 1107
Tufts	
Sudbury nickel reg., Ont.....	125 R 961
Volcanic ash	
B.C. and Germany.....	53 S 1916
Water and mineral springs	
Atlin mg. div., B.C.....	158, 159 R 928
	57 S 1915
Brook, Inverness co., N.S.....	49, 50 R 958
Courtright, Ont. (from bore-hole)	55 R 958
Fitzroy tp., Ont.....	60, 61 R 958
Foremost, Alta.....	106 S 1915
Frank coal m., Alta.....	61 R 958
Granville Centre, N.S.....	59, 60 R 958
Great Slave l., Alta.....	143 S 1916
Ingram, Sask.....	56, 57 R 958
Pasquia hills, Sask.....	41, 42 S 1907
Peace r., B.C.....	143, 145 S 1916
Rear bk., N.S.....	59 R 958
Rotorua geysers, N.Z.....	82 S 1913
St. Athanase par., Que.....	51-53 R 958
St. Johns par., Que. (bore-hole)...	53 R 958
Salt r., Alta.....	142 S 1916
Snake Mountain springs, Alta.....	142 S 1916

**Analyses (Continued)**

<b>Water and Mineral Springs (Continued)</b>			
Souris area, Sask. (coal mine).....	62, 63	R	958
Sulphur ck., Alta.....	166-168	S	1910
	204	S	1911
Vancouver, B.C.....	64	R	958
	80-83	S	1913
Whitewood, Sask.....	57-59	R	958
<b>Zinc ores</b>			
SEE ALSO Assays			
Slocan mg. div., B.C.....	71	R	971
<b>Anarchist series</b> .....	212	S	1912
<b>Ancaster, Ancaster tp., Ont.</b> .....	411	R	970
	186-188	S	1913
<b>ANCHICERATOPS</b>			
Red Deer r., Alta.....	293	S	1916
<b>Anchor cove, Graham is., B.C.</b> .....	45	S	1913
<b>Ancient river channels. SEE River channels, ancient</b>			
<b>ANCYLUS</b>			
Baltic sea.....	231	S	1910
Covichan l., V.I.....	174	S	1906
Patricia dist., Ont.....	54	R	1080
<b>ANCYROCRINUS</b>			
Interlake peninsula, Ont.....	284, 285	S	1912
<b>Andalusite</b>			
Halifax, N.S., N. of.....	150	S	1906
Sudbury nickel reg., Ont.....	63	R	961
<b>Anderdon beds</b>			
Amherstburg, Ont.....	293	S	1912
	85	S	1914
Beachville, Ont., for lime.....	86	S	1914
Michigan, U.S.....	291	S	1912
Welland co., Ont.....	270	S	1911
<b>Anderson tp., Essex co., Ont.</b>			
Indians.....	383, 385	S	1911
Rocks.....	293	S	1912
<b>Anderson, Prof. E.</b> .....	32, 33, 56	R	1107
<b>Anderson, R. M.</b>			
Appointment.....	1, 347	S	1913
Pneumonia.....	285	S	1910
Promotion.....	2	S	1915
Sum. rept., on Can. Arctic Exp.....	153, 163	S	1914
	7, 220, 263	S	1915
	7, 314, 374	S	1916
Work, 1908.....	190	S	1908
1913.....	9, 347	S	1913
<b>Anderson, P. and Co.</b> .....	5	S	1906
<b>Anderson, Pa., U.S.</b> .....	91	R	1035
<b>Anderson bay, Texada is., B.C.</b>			
Mineralized quartz.....	72	S	1909
<b>Anderson ck., Kootenay l., B.C.</b>			
Rocks; vein, structure.....	142, 152, 153	S	1911
<b>Anderson l., Bridge r., Lillooet mg. div., B.C.</b> .....	112	S	1911
<b>Anderson mt., S. of Wheaton r., Ykn.</b>	53	S	1909
	43-46	S	1915
<b>Anderson r., Fraser r., B.C.</b> .....	109, 110	S	1911
<b>Anderson r., Mack</b> .....	196, 198	S	1908
<b>Anderson Bay formation</b>			
Texada is., B.C.....	70, 72	S	1909
<b>Anderson Lake Mining Co.</b>			
Gold mg., Bridge R. dist., B.C.....	204, 205	S	1912
<b>Andesite</b>			
Ashcroft mg. div., B.C.....	130, 142, 153	S	1912
Atlin mg. div., B.C.....	34	S	1910
Bell R. area, Que.....	324, 325	S	1912
Clinton mg. div., B.C.....	183	S	1912
Coast ranges, B.C.....	36	S	1906
Conrad and Whitehorse dists., Ykn.			
	23, 26, 29,	R	982
	51	S	1909
Eastern Tps., Que.....	23, 24	R	974
	46	R	1085
Franklin camp, B.C.....	63	S	1906
Harricanaw r., Que., quartz and cal- cite veins in.....	98	S	1914
Klotassin dist., Ykn.....	27, 28	S	1916
Nanaimo mg. div., B.C.....	95	S	1911

**Andesite (Continued)**

New Westminster mg. div., B.C.....	11, 26	R	996			
Omineca mg. div., B.C.....	94	S	1910			
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<b>Broughton</b> , Beauce co., Que. Asbestos.....	79 R 928	<b>Bruce mt.</b> , Saltspring is., B.C.....	98 S 1909 87, 103 S 1913
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<b>Brown</b> , Chester P.....	47 S 1907	<b>Brûlé rapids</b> , Gatineau r., Que.....	226 S 1916
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<b>Brownsville</b> , Dereham tp., Ont.....	167 S 1909	<b>Bryson (Moose) is.</b> , Timiskaming l., Que. Glacial striae.....	133 R 962
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Buckingham tp.....	200-203	S	1913
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Apatite. SEE Emerald apatite m.			
Geology, Sum. rept. by Wilson.....	196-207	S	1913
Mica and graphite.....	83	R	1085
	111, 112	S	1905
	283	S	1911
Road metal, tests.....	154-155	S	1915
<b>Buckley pt., St. John co., N.B.</b>			
Fossils.....	275	S	1909
<b>Budreau Grindstone quarry, near Rockland, N.B.</b>	124	R	983
<b>Buena Vista galena claim, Salmon r., Portland canal, B.C.</b>	88	S	1910
<b>Buffalo</b>			
Salt R. reg., Alta., notes by Camsell	161	S	1914
	135	S	1916
<b>Buffalo, New York state, U.S.</b>			
Buried channels near.....	413	R	970
Rocks.....	270	S	1911
	85	S	1914
Terminal moraines.....	108	S	1908
	262	S	1911
<b>Buffalo copper claim, near Franklin ck., Granby r., B.C.</b>			
Date of staking; description.....	133, 137	S	1911
<b>Buffalo ck., L. Erie, U.S.</b>			
Ancient valley.....	396, 397, 427	R	970
<b>Buffalo l., Battle r., Alta.</b>			
Coal.....	40	R	1035
<b>Buffalo pt., L. of the Woods, Ont.</b>	174	S	1913
<b>Buffalo r., Great Slave l., Mack.</b>	135	S	1916
<b>Buffalo rock, Timiskaming l., Ont.</b>	185	R	962
<b>Buffalo Hump gold claim, Stevens mt., Wheaton R. area, Ykn.</b>	52	S	1909
	44	S	1915
<b>Bugaboo ck., Gordon r., V.I.</b>			
Magnetite.....	85, 94, 95	S	1909
<b>Burrstones. SEE Burrstones</b>			
<b>Building stone. SEE ALSO Granite, Limestone, Sandstone, etc.</b>			
British Columbia			
Bella Coola mg. div.....	40	S	1908
Golden mg. div.....	143	S	1910
Nanaimo mg. div.....	18	S	1907
	104	S	1910
New Westminster mg. div.....	55	R	996
Vancouver is.....	85, 96	S	1909
	109	S	1910
	92, 106	S	1911
Manitoba			
Burntwood R. reg.....	89	S	1906
central.....	169	S	1913
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Grand Falls.....	129	S	1906
Millstone Grit formation.....	134	S	1906
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Ontario			
Interlake pen.....	195	S	1910
	180	S	1913
	85	S	1914
Nipissing l.....	151	R	962
Ontario co.....	162	S	1909
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	12, 13	R	1085
	6	S	1905
<b>Bulkeley canyon, Bulkeley r., B.C.</b>	93	S	1910
<b>Bulkeley eruptives</b>			
Omineca mg. div., B.C.....	81, 92	S	1911
	85, 86, 91	S	1912
	62, 63	S	1915
Skeena mg. div., B.C.....	63	S	1909
<b>Bulkeley r., Skeena r., B.C.</b>			
Boulder clay; character.....	56, 62	S	1912
Coal.....	15, ADDENDA 4	R	988
	128	R	1085
	101	S	1912
anal.....	68	S	1909
	99	S	1910
Fossils.....	106	S	1907
	63	S	1915
Geology and mineral resources of valley.....	35	S	1906
	19-23	S	1907
	41-45	S	1908
Physical features of valley.....	92	S	1910
Rocks.....	11	R	988
	95	S	1910
	77, 91	S	1912
Terraces.....	7, 8	R	988
	63	S	1909
	93	S	1916
<b>Bull ck., St. John r., N.B.</b>			
Copper.....	90	R	983
<b>Bull felsite. SEE Garnet</b>			
<b>Bulla Delah, N.S.W., Australia</b>			
Alunite.....	122	S	1913
<b>Bulldog gold m., Hedley, B.C.</b>	115	S	1910
<b>Bullets</b>			
Nickel-copper alloy.....	224	R	961
<b>Bullion ck., Slims r., Kluane l., Ykn.</b>	24, 25	S	1906
	15-20	S	1914
<b>Bullion Hydraulic Co.</b>			
	24	S	1906
	20	S	1914
<b>Bullock is., N.S.W., Australia</b>	82	R	1035
<b>Bullocksville, Red Deer dist., Alta.</b>			
Coal.....	80	S	1916
<b>Bullpond ck., Red Deer r., Alta.</b>			
Coal.....	37	R	1035
	222	S	1911
	80	S	1916
<b>Bulls Head ck., S. Saskatchewan r., Alta.</b>			
Clay and shale beds.....	226, 236	S	1911
<b>Bulls Head plateau, N. of Pakowki, Alta.</b>	10	S	1905
<b>Bulwell Coal and Iron Mines Co. SEE Diamond Coal Co.</b>			
<b>Bulyea, G. H. V.</b>	121	S	1915
<b>BUMASTUS</b>			
Lorette, Que.....	343	S	1912
Simcoe area, Ont.....	255-260	S	1911
<b>Bum Eoy gulch, Dublin ck., Haggart ck., Ykn.</b>	18	S	1916
<b>Bunbury nickel location, lac des Bois, Kamloops mg. div., B.C.</b>	161	R	961
<b>Bunker, N.</b>	336	S	1913
<b>Bunker hill, E. of Grand forks, Bonanza ck., Klondike dist., Ykn.</b>			
Auriferous gravels.....	17-20	R	979
<b>Buntzen l., E. of North arm, Burrard inlet, B.C.</b>	58	R	996
<b>Burbridge, Geo. H.</b>	103	S	1909
<b>Burdett, S.W. of Bow Island, Alta.</b>	188	S	1910
Gas field N. of.....	123, 130-134	S	1916
<b>Burdiehouse limestone (Scotland)</b>	51, 52	R	1107
<b>Burgess pass, between Burgess and Field mts., B.C.</b>			
Fossils.....	188	S	1911
<b>Burgess shale</b>			
Golden mg. div., B.C.....	179, 188, 190	S	1911

<b>Burgess tps., Lanark and Leeds cos., Ont.</b>			
Dolerite.....	194	S	1916
Nickeliferous pyrite, anal.....	149	R	961
<b>BURGESSIA</b>			
Kicking Horse valley, B.C.....	189, 190	S	1911
<b>Burgess Mines, Carlow tp., Ont.</b>			
Corundum plant.....	79	R	971
Uranium oxide.....	93	S	1914
<b>Burgoyne bay, Saltspring is., B.C.</b>	100, 101	S	1909
<b>Burial customs</b>			
Mackenzie Eskimos.....	202	S	1908
<b>Buried channels and valleys. SEE</b>			
River channels, ancient			
<b>Burke formation</b>			
Idaho; correlation.....	222, 223	S	1912
<b>Burke mica m., Hull tp., Que.</b>	166	S	1915
<b>Burleigh Falls, Burleigh tp., Ont.</b>			
Ordovician.....	58	S	1907
Lithographic stone near.....	93	S	1905
<b>Burling, L. D.</b>			
Appointment.....	1	S	1913
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Stratigraphy of Rocky mts....	3, 5, 97-100	S	1915
Work by, 1913.....	4, 300, 314-321	S	1913
1914.....	6, 123	S	1914
1916.....	6, 10, 58	S	1916
<b>Burlington beach, Hamilton, Ont.</b>	285	R	970
<b>Burlington heights, Hamilton, Ont.</b>	280	R	970
<b>Burma, Arkansas, U.S.</b>	86	R	1035
<b>Burnis, Macleod dist., Alta.</b>			
Coal.....	244	S	1912
Fault; iron.....	192, 199, 200	S	1911
<b>Burnaby is., Queen Charlotte islds., B.C.</b>	78	S	1909
<b>Burnie l., S. of Elliott ck., Telkwa r., B.C.</b>	8, 20	R	988
<b>Burns, P. and Co. SEE Burns coal m.</b>			
<b>Burns coal m., Sheep ck., Highwood r., Alta.</b>			
Coal.....	12	R	968
50, 56	R	1035	
Geology.....	49, 53	R	968
<b>Burnt is., Minnitaki l., Ont.</b>	31	R	1059
<b>Burnt is., Timiskaming l., Que. SEE Mann is.</b>			
<b>Burnt pt., Rabbit l., Ont.</b>	136	R	962
<b>Burnthill bk., S.W. Miramichi r., N.B.</b>			
Cassiterite; topaz.....	13, 14, 360	S	1911
Tungsten.....	110	S	1914
210	S	1915	
252-254	S	1916	
<b>Burnt Portage rapid, Timagami r., Ont.</b>	278	R	962
<b>Burnt River quarries, Somerville tp., Ont.</b>	125	S	1906
<b>Burntwood r., Nelson r., Man.</b>	89, 91	S	1908
Sum. rept. on valley.....	87-97	S	1906
<b>Burrard inlet, New Westminster mg. div., B.C.</b>			
Clay; rocks.....	24, 27, 57	R	996
79	S	1906	
Physical features of country near....	8	R	996
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Quarries.....	157	R	971
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Terraces.....	80	S	1906
47	S	1905	
<b>Burroughs bay, Behm canal, Alaska</b>			
<b>Burrows, A. G.</b>	155	R	961
4, 168, 171	S	1909	
199	S	1910	
<b>Burrstones</b>			
Imports.....	12, 77	R	928
13, 83	R	971	
<b>Burton, Sunbury co., N.B.</b>			
Bog iron ore.....	85	R	983
<b>Burton ck., Elk r., B.C.</b>	131	S	1913
<b>Burton formation</b>	130, 131	S	1913
62-63	S	1916	
<b>Burton gold-copper m., N.W. of Elko, B.C.</b>			
Notes and cross-section.....	136, 137	S	1913
<b>Burwash, E. M.</b>	8	R	962
244, 273	S	1911	
<b>Burwash ck., Kluane r., Ykn.</b>			
Arquerite; copper.....	11, 13	R	958
30, 31	S	1914	
24, 26	S	1906	
Gold; silver; rocks.....	15, 22, 23, 32	S	1914
<b>Burwash l., Macdonald ck., Mata-bitichuan r., Ont.</b>			
Altitude; rocks; level.....	243, 244, 280	R	962
Iron formation.....	311	S	1912
Notes.....	245	S	1911
<b>Bush, Illinois, U.S.</b>	86	R	1035
<b>Bush ck., near Ladysmith, V.I.</b>	99	S	1911
<b>Bush l., Ottetail ck., L. Timiskaming, Ont.</b>			
Altitude; striae; notes.....	134, 252, 278	R	962
<b>Bush mt., N. of Wheaton r., Ykn.</b>			
Coal near; fossils; rocks.....	16, 55	S	1909
41, 49, 207	S	1915	
<b>Buster silver m., Wallace mt., Beaverdell area, B.C.</b>	118	S	1909
<b>Bute inlet, strait of Georgia, B.C.</b>	16	S	1907
<b>Butler ck., Taku arm, Tagish l., B.C.</b>			
Auriferous quartz.....	42, 43	S	1910
<b>Button bay, Hudson bay, Man.</b>	282	S	1910
<b>Buxiere-la-Grue, Allier dept., France</b>			
Oil-shales.....	42	R	1107
<b>Byers coal m., Clover Bar, Alta.</b>	81	S	1908
<b>Bylot is., Baffin bay, Franklin</b>			
Glacier, photo.....	FACING 104	R	1085
Lignite.....	106	R	1085
<b>Byng, Dunn tp., Ont.</b>			
Road metal.....	188	S	1916
<b>Byron, Westminster tp., Ont.</b>	143	S	1915
<b>Byron ck., Castle r., Alta.</b>			
Coal.....	243	S	1912
<b>BYSSONYCHIA</b>			
Winnipeg, Man.....	72	S	1914
<b>BYTHOTREPHIS</b>			
Timiskaming l., Ont.....	126, 288	R	962
<b>Bytownite</b>			
Wawigama l., Ont., in diabase....	103	R	962

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<b>C. silver claim, Ferguson is., Timagami l., Ont.</b>	141, 142	R	962
<b>Cabin bluff, near Anyox, B.C.</b>	44	S	1911
<b>Cabin ck., Flathead r., B.C.</b>	140	S	1913
<b>Cabin ck., Goat ck., Telkwa r., B.C.</b>	14, 20	R	988
40	S	1906	
69	S	1915	
<b>Cabin vein. SEE Stewart-Catto</b>			
<b>Cabot head, Georgian bay, Ont.</b>			
Rocks.....	65	R	1085
<b>Cabot Head formation</b>			
Manitoulin is., Ont., for bricks.....	140	S	1915
Niagara pen., Ont.....	180-183	S	1913
St. Joseph is., Ont.....	277-279	S	1912
<b>Cache pt., Victoria is., Frank.</b>	379	S	1916
<b>Cache Bay, Springer tp., Ont.</b>	29, 275	R	962
<b>Cache Creek, N. of Ashcroft, B.C.</b>	117	S	1912
<b>Cache Creek series</b>			
Age.....	28	R	982
Alaska-Yukon boundary.....	31	S	1911
Ashcroft mg. div., B.C.....	120, 130-135	S	1912
87	S	1915	
Clinton mg. div., B.C.....	179, 183	S	1912
Lewes r., Ykn.....	11, 13	S	1907



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Lillooet mg. div., B.C.	112	S 1911
	188, 191	S 1912
	79	S 1915
Nordenskiöld r., Ykn.	27	S 1908
Similkameen mg. div., B.C.	25	R 986
	47	S 1906
	26	S 1907
Whitehorse dist., Ykn.	23, 25-29	R 982
Yale mg. div., B.C.	111, 126	S 1911
Yukon-Alaska boundary	31	S 1911
southern	132	S 1912

**Cacouna, Temiscouata co., Que.**

Glaciation	224, 229, 230, 232	S 1910
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**Cadboro bay, Victoria mg. div., V.I.**

	106	S 1910
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**Cadden bay, Queens co., N.S.**

	252, 253	S 1913
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**Cadwallader ck., Bridge r., Lillooet mg. div., B.C.**

Clay	193	S 1912
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Gold; rocks	112-115	S 1911
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	188, 209	S 1912
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	81, 82	S 1915
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	47, 48	S 1916
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report and map	195-205	S 1912
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**Cadwallader mts., Lillooet mg. div., B.C.**

	76	S 1915
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**Cadwallader series**

	79-83	S 1915
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	46, 47	S 1916
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**Cadzow collieries, Hamilton, Scotland**

Treatment of mine timber	187	S 1908
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**Cafferey, Frank and James**

	52	S 1908
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	84	S 1909
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**Caillif is. See Frye is.****Caillot, A.**

	160	S 1913
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**Cain, H. W.**

	154	S 1908
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	253	S 1910
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**Cain r., Miramichi r., N.B.**

	11, 12	R 983
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**Cairn mt., Ashcroft mg. div., B.C.**

	137	S 1912
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**Cairnes, C. E.**

	188	S 1912
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	34	S 1913
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	34	S 1914
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	133	S 1915
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	21	S 1916
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**Cairnes, D. D.**

Appointment	3	S 1905
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Coal discovery by	5	S 1909
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**Reports by**

Conrad and Whitehorse dists., Ykn.	R 982
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Moose Mt. area, Alta.	R 968
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**Sum. repts. by**

1905, Rocky mts., part of foothills	15, 62	S 1905
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1906, Yukon, southern	17, 22	S 1906
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1907, Whitehorse-Tantalus area,		
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Ykn.	5, 10	S 1907
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1908, Whitehorse, Ykn., N. of	3, 26	S 1908
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1910, Atlin mg. div., B.C.	3, 27	S 1910
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1911, Klondike dist., Ykn.	33	S 1911
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Yukon-Alaska boundary	4, 17	S 1911
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1912, Yukon-Alaska boundary	2, 9	S 1912
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1913, Upper White R. dist., Ykn.	4, 12	S 1913
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Quadra is., lime belt, B.C.	58	S 1913
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1914, Exploration in S.W. Yukon.	2, 10	S 1914
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1915, Mayo area, Ykn.	2, 10	S 1915
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1916, Investigations and mapping	2, 3, 12	S 1916
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in Yukon		
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Investigations in New Brun-		
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wick and Nova Scotia	251	S 1916
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Views on gas at Calgary, Alta.	8	S 1905
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Work by, 1909	2	S 1909
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<b>Caistor Centre, Caistor tp., Ont.</b>	109	S 1908
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<b>Calabogie l., Bagot tp., Ont.</b>	28, 34	R 977
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<b>CALAMAGROSTES.</b>	94	S 1906
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Bay of Fundy, N.B.	185	S 1908
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	184, 275, 276	S 1909
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	322	S 1913
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	130	S 1914
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Joggins area, N.S.	329, 332	S 1911
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Kettle pt., Ont.	288	S 1912
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Merigomish harbour, N.S.	132	S 1914
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Parrsboro inlet, N.S.	131	S 1914
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Gravel r., Mack.	37	R 1097
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Pembroke map-area, Ont. and Que.	37, 60, 64, 67, 70	R 977
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Simcoe area, Ont.	256	S 1911
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Yukon-Alaska boundary	28	S 1911
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**Calcarenite (shell-sand)**

Nanaimo mg. div., B.C.	95, 97, 105	S 1911
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**Calcareous drift**

Rainy R. dist., Ont., Sum. rept. by		
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W. A. Johnston	170-177	S 1913
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**Calcareous formation. See Beek-****mantown formation****Calcareous Sandstone series (Scot-**

land)	45, 46	R 1107
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**Calcite**

Petrographical determination of, in		
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aplite, Montreal E. area, Ont.	35	R 1075
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granite, Timiskaming co., Que.	24	R 1064
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greenstone, Sudbury nickel reg.,		
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**British Columbia**

Atlin mg. div.	40	S 1910
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Greenwood mg. div.	63, 64	S 1906
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Groundhog coal basin	87, 88	S 1911
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Lardeau mg. div.	12	R 958
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New Westminster mg. div.	57	R 996
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Portland Canal mg. div.	71	S 1910
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Queen Charlotte islds.	78, 80, 82	S 1909
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Rossland area	17-19, 22	R 939
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Similkameen mg. div.	26, 34, 35, 38	R 986
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	135	R 1085
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	51-54	S 1906
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	29	S 1907
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	36, 41	S 1906
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	47	S 1908
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New Brunswick, St. John valley	128	S 1906
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Nova Scotia, Londonderry iron m.,		
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**Ontario**

Amherstburg, crystals	11	R 958
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Cobalt area	91	R 1035
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with silver	96, 98	S 1905
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	110, 111	S 1906
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Gowganda mg. div.	22, 41	R 1075
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	118	S 1908
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	171	S 1909
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	201	S 1910
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Larder L. area	179	S 1909
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Nipigon L. area	19	R 992
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Nipissing dist.	75, 82, 139	R 962
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Sturgeon L. reg., Th. B. dist.	107	S 1906
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Sudbury nickel reg.	94, 106, 128	R 961
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Winisk r.	15	R 1080
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**Quebec**

Chibougamau reg.	40	R 923
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Eastern Tps.	8, 33	R 974
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Fabre tp.	38	R 1064
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Ottawa valley	282, 285	S 1911
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Saskatchewan, Athabaska l.	124	S 1915
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**Yukon**

Conrad dist.	21-24, 27, 30, 43, 56, 57	R 1050
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White R. dist.	27	S 1913
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**Calcite Lake Mining Co.**

	200	S 1910
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**Calcium carbide**

Statistics	10, 12	R 1085
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<b>Calcium sulphate.</b> SEE Gypsum			
<b>Calcium tungstate.</b> SEE Scheelite			
<b>Calc-spar.</b> SEE Calcite			
<b>Caldwell, Grattan tp., Ont.</b>			
Beach.....	299	R	970
Kames.....	39	R	977
<b>Caldwell tp., Nipissing dist., Ont.</b>	135	R	962
<b>Caldwell Grove, Anderdon tp., Ont.</b>			
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<b>Caledon, Caledon tp., Ont.</b>	108	S	1908
<b>Caledon tp., Peel co., Ont.</b>			
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<b>Caledonia, Queens co., N.S.</b>			
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<b>Caledonia, Seneca tp., Ont.</b>			
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<b>Caledonia colliery, Sydney, N.S.</b>	5, 6	R	1021
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<b>Caledonia mts., Albert co., N.B.</b>			
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.....	134, 139	S	1908
.....	311, 312	S	1911
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<b>Calf mt., near Darlingford, Man.</b>			
<b>Calgary, Calgary dist., Alta.</b>			
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<b>Calgary Petroleum Product Co.</b>	145	S	1914
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<b>Calgary W. dist., Alta. SEE ALSO</b>			
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<b>Calhoun, M.</b>			
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<b>California, U.S.</b>			
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<b>California gold m., Giveout ck., Kootenay r., B.C.</b>	90	S	1907
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<b>Callahan copper claim, Torres channel, Atlin mg. div., B.C.</b>	56	S	1910
<b>Callander, Ferris tp., Ont.</b>	276	R	962
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\*According to the ruling of the Geographic Board of Canada, this range is now known as the Coast range.



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southern	74	S	1907
Nova Scotia			
Annapolis and Kings cos.	271, 272	S	1916
Cumberland and Colchester cos.	51	R	1085
	144	S	1906
	300-395	S	1912
	262	S	1916
cutting Gold-bearing series	34	R	1085
Halifax co.	149	S	1906
Lunenburg co.	385-387	S	1912
mistaken for Carboniferous	119	S	1905
	390	S	1912
notes by Ries	241	S	1909
Ontario			
Interlake pen.	65	R	1085
	193-195	S	1910
	269-272	S	1911
	293	S	1912
	143	S	1913
Quebec			
Chaleur bay	105	S	1907
Eastern Tps.	17, 19, 30, 38	R	974
	211	S	1910
Brome co.	289, 290	S	1911
Monteregian hills	64	R	1085
Rouville co.	295	S	1911
Gaspe pen.	59	R	1107
southeastern	213-215	S	1913
Saskatchewan			
Churchill r.; notes	22, 23	R	1035
Lac la Ronge area	153	S	1909
Saskatchewan r.	172	S	1910
Yukon, southern	23	R	982
	40, 41	S	1915

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SEE ALSO Anderson Bay formation			
Britannia formation			
Marble Bay formation			
Texada group			
Atlin mg. div., B.C.	31, 32	S	1910
Blairmore dist., Alta.	193	S	1911
Brazeau hills, Alta.	150	S	1913
Crownsnest coal field, Alta.	108, 109	S	1916
Flathead valley, B.C.	139, 140	S	1913
Hay R. dist., Alta.	86, 88	S	1916
Jasper park, Alta.	201, 202	S	1911
Nanaimo and New Westminster mg. divs., B.C.	11-17	R	996
Purcell range, B.C.	228	S	1912
Turtle mt., Alta.	235-237	S	1912
<b>Dewar hill, Pugwash harbour, Cumberland co., N.S.</b>			
Limestone, anal.	38, 39	R	958
<b>Dewdney ck., Coquihalla r., Fraser r., B.C.</b>	118	S	1910
<b>Dewdney formation</b>	62-63	S	1916
<b>Dewdney trail, southern B.C.</b>			
Completion	11	R	939
Ref. to surveys on	116	S	1911
<b>DeWitt Clinton pt., Amundsen gulf, Mack.</b>	240	S	1915
<b>DeWitte, Conrad dist., Ykn.</b>			
Fossils near	26	R	982
	106	S	1907
<b>Dezadeash r., Alsek r., Ykn.</b>			
Saline concretions	32, 33	S	1916

**Diabase**

Laboratory reproduction	129	R	961
	60	R	962
Road material, value	338	S	1911
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British Columbia. SEE BELOW			
Mackenzie dist., Gravel r.	37, 42	R	1097
New Brunswick	45, 47, 52-60, 79	R	983
	128, 132, 133, 137	S	1906
for roads	281-283	S	1916
Nova Scotia			
Bay of Fundy	38	R	1085
Kings co.	153	S	1908
Queens co.	253	S	1913
Ontario and Quebec. SEE BELOW			
Saskatchewan, Athabaska l., prospecting advisable	122, 123	S	1915
Yukon, Whitehorse dist.	23, 26, 29	R	982
Windy arm	27	R	982
	39	S	1905
British Columbia			
Nanaimo mg. div.	13, 23	R	996
Texada is.	40	R	996
New Westminster mg. div.	31	S	1906
Queen Charlotte islds.	74, 79	S	1909
Similkameen mg. div.	34, 37	R	986
	51	S	1906
Ontario			
Algoma dist., Bruce Mines	89	R	1085
Patricia dist., Winisk R. area	40	R	1080
Rideau Canal route, for roads	194, 206	S	1916
Sudbury dist., McKim tp.	49	R	961
Onaping L. reg.	244	S	1911
Thunder Bay dist.			
Albany basin	9, 24	R	980
Caribou L. reg.	14, 37	R	1059
L. Superior, N. shore	16-19	R	1081
	81	S	1905
Nipigon L. reg.	13, 46-48	R	1059
	104	S	1906
Sturgeon L. reg.	13, 15	R	992
	33	R	1059
Timiskaming dist.			
Cobalt silver reg.	265, 266	R	962
	97	S	1905
for brickmaking	191	S	1916
effect on topography	21	R	962
Gowganda mg. div.	8, 13, 18-24	R	1075
	116-118	S	1908
	169	S	1909
economically important	41-44	R	1085
	171	S	1909
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Matabitchuan r.	225, 227, 232, 241	R	962
Macdonald ck.	248	R	962
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Timagami L. reg.	102-109, 139, 141, 254-272	R	962
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copper and nickel in	147	R	962
uralitic	105, 185	R	962
Timiskaming L. reg.	102-109, 147	R	962
uralitic	184, 185	R	962
Quebec			
Abitibi dist.	121-123	S	1906
Argenteuil co., for roads	155	S	1915
Bellechasse, Montmagny, and L'Islet cos.	126	S	1908
Chibougamau reg.	THROUGHOUT	R	923
Eastern Tps.	8, 13, 17-38	R	974
Bagot co.	13	R	974
Beauce and Brome cos.	182, 188	S	1909
	290, 304	S	1911
Compton co.	7	R	1028
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Quebec (Continued)		
Hull co., for roads.....	148-149, 154, 155	S 1915
Serpentine belt.....	215	S 1913
Timiskaming co.....	27, 28, 102-109	R 962
	23	R 977
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Opasatika L. reg.....	122	S 1908
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**Diabase, olivine**

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Gowganda area, Ont.....	38	R 1075
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Nipigon L. reg., Ont.....	47	R 1059
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**Diabase, quartz**

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**Diabase l., Van Hise tp., Ont.**

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**Diallage**

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**Diamond drilling**

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**Diamond l. SEE Nonwakaming l.**

<b>Diamond Coal Co.</b> .....	68	R 1035
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	168	S 1906

**Diamond Vale Coal Co.**

Therold, Ont.....	187	S 1913
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**DIAPHOROSTOMA**

Thorold, Ont.....	187	S 1913
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**Diarsenide of cobalt. SEE Smaltite****Darsenide of iron. SEE Löllingite,****cobaltiferous****Diatomaceous earth. SEE Infusorial earth****DICELLOCEPHALUS**

Alaska-Yukon boundary.....	320	S 1913
Donald, B.C., near.....	164	S 1912

**DICELLOMUS**

Alaska-Yukon boundary.....	319	S 1913
Jasper park, Alta.....	208	S 1911

**DICHOGRAPTUS**

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**Dickie mt., E. of Bear r., Portland**

canal, B.C.....	59-61	S 1910
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**Dickie mt., near Norton, Kings co.,**

N.B.....	50, 94	R 983
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**Dickinson, N. Dakota, U.S.**

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**Dickson, A.**

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Work by.....	14	S 1905
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Dickson l., Pays-plat r., Ont.....	10, 15	R 1081
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**Dickson, Charles W.**

Description by, of Wallace m.....	146	R 961
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**Dickson bk., Cumberland co., N.S.**

Barite and copper.....	145	S 1908
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**DICKSONIA**

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Dirt hills, Sask.....	359	S 1911
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**DICRANOGRAPTUS**

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**DICTYONEMA**

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**Didsbury, W. Calgary dist., Alta.**

Shale deposits.....	291	S 1913
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**DDYMOGRAPTUS**

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**DIELASMA**

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**Dikes. SEE Dykes**

<b>Dilke tp., Rainy R. dist., Ont.</b> .....	175	S 1913
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<b>Dillenburg, Nassau, Germany</b> .....	109	R 961
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<b>Diller, Joseph S.</b> .....	143	R 961
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<b>Dillsboro, North Carolina, U.S.</b> .....	174	R 961
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**Dilsworth mt., Big Missouri ridge,**

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<b>Dingman ck., Thames r., Ont.</b> .....	143	S 1915
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<b>Dingman oil well, Sheep r., Alta.</b> .....	77, 78	S 1916
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<b>Dinorwic, Rainy R. dist., Ont.</b> .....	50	R 1059
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<b>Doddridge, Hants co., N.S.</b> .....	119	S	1905
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<b>Dolmage, V.</b> .....	41	S	1912
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Churchill r., Sask.....	87, 88	S	1908
Eastern Tps., Que.....	12, 25	R	974
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Faraday tp., Ont., anal.....	42	R	958
Gravel R. area, Mack.....	36	R	1097
Gurney, Ont.....	15	R	1081
Harricanaav r., Que., auriferous....	169, 170	S	1915
Hull co., Que., for roads.....	154	S	1915
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Lac la Ronge area, Sask.....	154	S	1909
Larder L. area, Ont.....	175	S	1909
Lavant tp., Ont.....	12	S	1908
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\* Compiled by R. W. Ells.

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<b>Frederick is., Queen Charlotte islds., B.C.</b> .....	35	S	1914
<b>Frederick I., Lunenburg co., N.S.</b> .....	250	S	1910
<b>Fredericton, Sunbury co., N.B.</b> Clay industry.....	127	R	983
	244	S	1909
Coal near.....	99, 100, 102, 105	R	983
Geology; rocks; limonite.....	17, 67, 84	R	983
<b>Freeland, E. E.</b> Appointment.....	2	S	1914
Work by.....	68	S	1908
	129	S	1910
	523	S	1912
	7, 335	S	1913
	7, 147	S	1914
	6, 243	S	1915
	2, 335	S	1916
<b>Freeman, C. H.</b> .....	253	S	1911
	294	S	1912
	338	S	1913
	147	S	1914
	6, 243	S	1915
	2, 8, 79, 335	S	1916
<b>Freeman r., Athabaska r., Alta.</b> Oil.....	145	S	1913
<b>Freeman tp., Muskoka dist., Ont.</b> .....	86	S	1905
<b>Freeport, Armstrong co., Pa., U.S.</b> .....	92, 95	R	1035
<b>Frestone. SEE Building stone</b>			
<b>Freibergite</b> Slocan mg. div., B.C. ....	133	S	1909
Windy Arm dist., Ykn.....	29	S	1905
<b>Frelick cove, Liverpool bay, N.S.</b> .....	374	S	1912
<b>Freighsburg, Missisquoi co., Que.</b> .....	221	S	1910
<b>Fremont co., Col., U.S.</b> Nickel-cobalt-silver ores.....	177	R	961
<b>Fremont co., Wyoming, U.S.</b> Oil in Dakota formation.....	148	S	1913
<b>French copper claim, Hoboe ck., Atlin l., B.C.</b> .....	56	S	1910
<b>French ck., Perry ck., St. Mary r., B.C.</b> .....	133	S	1910
<b>French hill, Klondike dist., Ykn.</b> Auriferous gravels.....	19, 20	R	979
<b>French r., Georgian bay, Ont.</b> Early surveys; rocks.....	11, 14, 16, 58, 67	R	962
<b>French Fort freestone quarry, near Newcastle, N.B.</b> .....	125	R	983
<b>Frenchman barn, Antigonish co., N.S.</b> .....	245	S	1910
<b>Frenchman ck., Lancaster par., St. John co., N.B.</b> Galena; limestone.....	93, 118	R	983
<b>Frenchman ck., Ottetail r., B.C.</b> Copper claims.....	184, 185	S	1911
<b>Frenchman (Whitemud) r., Sask. and U.S.</b> Clay, economic, notes.....	236	S	1911
	200	S	1913

<b>Frenchvale</b> , Cape Breton co., N.S....	65	R	958	<b>Fuson series</b>			
<b>French Village</b> , St. Margaret bay, N.S.....	149	S	1906	Rocks and fossils.....	21	R	1035
<b>Frèreault, P.</b> .....	141	S	1905				
	181, 182	S	1906				
<b>Friday ck.</b> , Similkameen r., B.C.				<b>G</b>			
Copper; gold.....	13, 16	R	986	<b>Gabbro</b>			
	63	S	1908	Crystallization of, order.....	123	R	961
<b>Friday I.</b> , N.E. corner of Nipissing dist., Ont.				Norway.....	164, 165	R	961
Altitude; striae.....	135, 279	R	962	Ophitic structure.....	34	R	1075
Description.....	21, 241, 242	R	962	Pegmatitic equivalents.....	60	R	962
<b>Frisco copper claim</b> , Allenby mt., Similkameen mg. div., B.C.....	52	S	1906	Porphyritic phase.....	63	R	962
<b>Frog rapid</b> , Pelican I., Ont.							
Iron near; rocks.....	29, 60	R	1059	<b>British Columbia</b>			
<b>Frontenac co.</b> , Ont.				Allenby mt.....	33	R	986
Feldspar; gold.....	83, 84, 102	R	1085	Coast Range batholith.....	18, 19	R	996
Graphite; zinc-lead.....	81, 92, 100	R	1085	Franklin camp.....	63	S	1906
Ordovician.....	57	S	1907	Nanaimo and New Westminster mg. divs.....	17, 22, 23	R	996
	98	S	1908		31	S	1906
dolomite.....	28	R	977	Rosland dist.....	59	S	1906
Road material.....	193, 194	S	1916	<b>Manitoba</b>			
<b>Frood nickel m.</b> , McKim tp., Ont.				Burntwood R. area.....	89	S	1906
Operations; production.....	26, 229	R	961	<b>New Brunswick</b>			
Ore deposit.....	93, 110, 119, 134	R	961	Charlotte co.....	79, 91	R	983
Pyrrhotite, anal.....	117	R	961	St. Stephen.....	151, 152	R	961
Rocks.....	59, 64, 68, 88	R	961	Restigouche co.....	62	R	983
<b>Frost</b>				St. John co.....	133	S	1906
SEE ALSO Climate				southern.....	47	R	983
Effect of, on drainage				<b>Nova Scotia, Annapolis and Kings cos.</b> .....	271	S	1916
Yukon-Alaska boundary.....	20	S	1911	<b>Ontario</b>			
Effect of, on mining				Gowganda mg. div.....	34	R	1075
Klondike dist., Ykn.....	9	R	979	Muskoka dist.....	85	S	1905
Sudbury nickel reg., Ont.....	185	R	961	Nipigon L. reg.....	12, 14, 19	R	992
Effect of, on rocks				Peterborough co.....	85	R	1085
Bighorn range, Alta.....	71	S	1908	Sturgeon L. reg., Th. B. dist.....	33	R	1059
<b>Frye (Callif) is.</b> , Charlotte co., N.B.				Sudbury nickel reg. 15, 16, 66, 75, 80, 124	961		
Galena; rocks.....	45, 47, 51, 93,	R	983	Timiskaming-Nipissing dist.....	43, 254, 268-272	R	962
Vesuvianite, specimen.....	18	R	958	Winisk R. area.....	14, 40	R	1080
<b>Fuchsite</b>				<b>Quebec</b>			
Larder L. area, Ont.....	175	S	1909	Chibougamau reg.....	THROUGHOUT	R	923
<b>Fuels</b>				Eastern Tps.....	182, 188	S	1909
SEE ALSO the varieties					290	S	1911
Comparative value.....	43	R	1035	Coleraine dist.....	238, 239	S	1916
	34	R	1107	Hull co.....	281	S	1911
Consumption of, in Canadian iron industry, 1887-1904.....	40	R	928	for roads.....	154-155	S	1915
In ore roasting.....	191-193	R	961	Timiskaming co.....	102-109, 207	R	962
Low grade, utilization of.....	11	S	1905		32-34	R	1064
Materials used for, by Eskimos.....	196	S	1908	<b>Yukon, Whitehorse dist.</b> .....	23, 29	R	982
<b>Fulford harbour</b> , Saltspring is., B.C.					8	R	1050
Fault near, notes.....	101	S	1909	<b>Gabbro-diorite</b>			
<b>Fuller's earth</b>				Eastern Tps., Que.....	17, 19, 26, 27	R	974
Imports, 1904.....	13	R	928	Nanaimo mg. div., B.C.....	96	S	1911
1905.....	13	R	971	Sudbury nickel reg., Ont.....	54, 83	R	961
<b>Fullerton cape</b> , Hudson bay, Kee.				Timagami area, Ont.....	43	R	962
Contorted gneiss, photo..... Pl. XXXVIII	R	1085		White R. headwaters, Ykn.....	23	S	1905
<b>Fullerton I.</b> , Cumberland co., N.S.				Whitehorse dist., Ykn.....	14	R	1050
Boring for coal.....	122	S	1905	<b>Gabbro-gneiss</b>			
	147	S	1908	Chibougamau reg., Que.....	41	R	923
<b>Fundamental gneiss.</b> SEE Gneiss, fundamental				<b>Gabbro porphyry</b>			
<b>Fundy Coal Co.</b>				Whitehorse dist., Ykn.....	15, 51	R	1050
Production, 1904.....	92	R	928	<b>Gabriel ck.</b> , Morice r., B.C.			
<b>Furnaces, reverberatory.</b> SEE Re- verberatory furnaces				Coal-bearing shales near.....	41	S	1908
<b>Furry ck.</b> , Howe sd., B.C.				<b>Gabrielle gold claim</b> , Rice I., Man..	266, 267	S	1912
Copper. SEE Britannia copper m.				<b>Gabriola formation</b>			
<b>FUSILLINAE</b>				Gabriola is., B.C., sandstone.....	95, 100, 104	S	1911
Yukon, southern.....	25, 26	R	982		99	S	1913
	33	S	1910	<b>Gabriola is.</b> , strait of Georgia, B.C.			
<b>FUSISPIRA</b>				Brick-clay.....	233	S	1912
Distribution.....	348	S	1912	Rocks; sandstone quarry. SEE Gab- riola formation			
Minnesota, U.S.....	189	S	1910	<b>Gagnier, O. T.</b> .....	243	S	1915
Nipissing I., Ont.....	295	R	962	<b>Gainer ck.</b> , South fork of Lardeau ck., B.C.			
Pictou area, Ont.....	345	S	1912	Calcite, notes.....	12	R	958

<b>Gainsford, W. Edmonton dist., Alta.</b>			
Coal mg. ....	220	S	1911
<b>Galbraith, W. J.</b> .....	135	S	1909
<b>Galbraith coal m., Cowley, Alta.</b> .....	70	R	1035
<b>Galena</b>			
SEE ALSO Lead; Silver			
Arctic coast. ....	332, 334	S	1916
British Columbia. SEE BELOW			
Canadian, used in Germany. ....	10	S	1905
Ontario, Que., and Ykn. SEE BELOW			
<b>British Columbia</b>			
Ainsworth mg. div. ....	38-45	S	1914
	94	S	1915
Atlin mg. div. ....	44, 51, 52	S	1910
	27	R	971
<b>Fort Steele mg. div.</b>			
assays. ....	131	S	1910
Kimberley area. ....	163, 164	S	1911
Kitchener quartzites. ....	137, 138	S	1909
Moyie area. ....	137	R	1085
	14	S	1906
	158-163	S	1911
production (1907) .....	137	R	1085
<b>Golden mg. div.</b>			
Field area. ....	143	S	1910
	182-186	S	1911
Stephen Mt. area. ....	142	S	1910
<b>Grand Forks mg. div.</b>			
McKinley mt. ....	137	S	1911
<b>Greenwood mg. div.</b>			
Beaverdell area. ....	132	S	1911
modes of occurrence. ....	128	R	1085
<b>Nanaimo mg. div.</b>			
Mars is. ....	18	S	1907
Texada is. ....	39, 55	R	996
	33	S	1906
Nelson mg. div. ....	137, 138	S	1913
New Westminster mg. div. ....	31, 33, 37	R	996
Omineca mg. div. ....	23	R	988
	42	S	1906
Bulkley valley. ....	44	S	1908
	96-98	S	1910
	102-107	S	1912
Skeena valley. ....	61, 64-67	S	1909
Osoyoos mg. div., Hedley. ....	30	S	1909
Portland Canal mg. div. ....	65-89	S	1910
	49, 54-56, 61-67	S	1911
Similkameen mg. div. ....	54, 55	S	1906
Summit camp. ....	113	S	1910
Tulameen area. ....	38	R	986
	111, 114	S	1909
Whipsaw Ck. area. ....	123	S	1911
<b>Skeena mg. div.</b>			
Unuk R. dist. ....	51, 52	S	1905
<b>Slocan mg. div.</b>			
mg. development. ....	133	S	1909
	93	S	1915
Sandon area. ....	138	R	1085
Slocan slates. ....	125	S	1910
values. ....	66	R	928
<b>Trail Ck. mg. div.</b>			
Rosslund area. ....	17, 22	R	939
	58	S	1906
	23	S	1908
Yale mg. div. ....	121-123, 127	S	1911
<b>Maekenzie, Great Slave l.</b> .....	67, 76	S	1916
<b>Manitoba, northern.</b> .....	20	S	1910
<b>New Brunswick.</b> .....	79-94, 130	R	983
Gloucester co. ....	40, 48	R	1085
	130	S	1908
Northumberland co. ....	129	S	1906
York co. ....	254	S	1916
<b>Nova Scotia</b>			
Colchester co. ....	40, 48	R	1085
Victoria co. ....	282	S	1913

**Galena (Continued)**

<b>Ontario</b>			
Hastings co. SEE Hollandia m.			
Hodgetts tp. ....	252	S	1911
Nipissing dist. ....	138-141	R	962
Skead tp. ....	179	S	1909
<b>Quebec</b>			
Calumet is. ....	16, 41	R	977
Chibougamau reg. ....	57	R	923
Eastern Tps. ....	48	R	1085
Marston tp. ....	8	R	1028
Gaspe pen. ....	48	R	1085
Kamouraska co., Woodbridge tp. ....	126	S	1908
<b>Timiskaming co.</b>			
Duhamel tp. SEE Wright silver m.			
Fabre tp. ....	38	R	1064
	117	S	1906
	63	S	1907
La Reine tp. ....	169	S	1915
<b>Yukon</b>			
Conrad and Whitehorse dists. ....	18, 19	R	982
	52	S	1909
	49	S	1915
Windy arm. ....	15-18	R	982
	139	R	1085
	29-32	S	1905
	25-28	S	1906
	27-29	S	1915
Mayo area, Galena ck. ....	38	R	1064
<b>Galena ck., McQuesten r., Ykn.</b>			
Silver-lead veins; notes and values. .	27-29	S	1915
<b>Galena ck., Skagit r., B.C.</b>			
Granodiorite; galena. ....	119	S	1911
<b>Galena pt., Bathurst inlet, Mack.</b>			
Birds; galena. ....	332, 334, 379	S	1916
<b>Galena Farm mines (Currie group),</b>			
Silverton, B.C. ....	93	S	1915
<b>Galena-Trenton formation</b>			
ANTHOZOA. ....	35	R	980
Hudson bay. ....	104	R	1085
<b>Gallano is., strait of Georgia, B.C.</b>			
Rocks. ....	99	S	1913
<b>Gallaher, O. G.</b> .....	69	S	1908
<b>Gallas pt., Queens co., P.E.I.</b>			
Boring for coal, oil, and gas. ....	24, 148	S	1908
	30, 31	S	1909
<b>Gallinotes* chute, Coulonge r., Que.</b>	9	R	977
<b>Gallitzin coal bed, Wurttemberg, Law-</b>			
<b>rence co., Pa., U.S.</b> .....	92, 96	R	1035
<b>Galloway, Chas. C.</b> .....	69	S	1908
	134	S	1909
	120	S	1910
	280	S	1911
<b>Galloway, J. D.</b> .....	69	S	1908
	103	S	1909
	111	S	1910
<b>Gallup, McKinley co., New Mexico, U.S.</b>	90	R	1035
<b>Galop rapids, St. Lawrence r., Ont.</b>			
Barrier; bed; limestone. ....	241, 284, 395	R	970
Drowned channel; uplift. ....	283, 319	R	970
Fluctuations at. ....	231, 232, 332-334, 339	R	970
<b>Galt, Gerald.</b> .....	7	R	939
	59	S	1907
<b>Galt, N. Dumfries tp., Ont.</b>			
Moraine. ....	265	S	1911
Rocks; road metal. ....	188	S	1913
	83, 85	S	1914
<b>Galt l., Ottentail r., Que.</b>			
Valley, origin. ....	9, 10	R	1064
<b>Galton formation</b>			
Correlation. ....	62-63	S	1916
Purecell range, B.C. ....	130	S	1913
<b>Galway tp., Peterborough co., Ont.</b>			
Pyrrhotite, anal. ....	157	R	961
Rocks. ....	93	S	1905

\* Misprinted Gelinis.

- Gambier is.**, Thornbrough channel,  
strait of Georgia, B.C.  
Boulder clay; slate..... 15, 26 R 996  
32 S 1906
- Gamble**, Walker co., Alabama, U.S.. 85 R 1035
- Gamble tp.**, Timiskaming dist., Ont.  
Rocks..... 171 S 1909  
199 S 1910
- Gananoque**, Leeds tp., Ont.  
Granite quarries near..... 157 R 971
- Ganges harbour**, Saltspring is., B.C.  
Rocks near; syncline..... 100 S 1909
- Gansby coal claim**, Fish ck., Elbow  
r., Alta..... 16 R 968
- Gap nickel m.**, Lancaster Gap, Pa.,  
U.S..... 15, 144, 172, 173, 216 R 961  
172 R 961
- Gap Mining Co.**..... 172 R 961
- Garden Island I.**, headwaters Bell r.,  
Pontiac co., Que..... 322, 323 S 1912
- Garden of Eden**, Horton tp., Ont.... 38 R 977
- Garden Plain**, E. of Sullivan I., Alta. 222 S 1911
- Gardiner**, F. E..... 94 S 1914
- Gardiner colliery**, Sydney coal field,  
N.S..... 81 R 1035
- Gardiner mt.**, Bowen is., B.C.  
Copper mining..... 37 R 996
- Gardner ck.**, bay of Fundy, N.B.  
Fossils..... 275 S 1909
- Garibaldi mts.**, N.E. of Kokshittle  
arm, V.I..... 111 S 1913
- Garneau coal seam**, Groundhog coal  
basin, B.C..... 86 S 1911  
98 S 1912
- Garnet**  
SEE ALSO Garnet (gem)  
Alaska, White R. reg..... 25 S 1909  
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Limonite formed from..... 30, 31 R 1050  
Petrographical determination of, in  
amphibolite, Patricia dist., Ont... 14 R 1006  
Sudbury nickel reg., Ont..... 60 R 961  
biotite gneiss, Albany basin, Ont. 4, 5 R 980  
gneiss, Patricia dist., Ont..... 71 R 1006  
granite, Sudbury nickel reg., Ont. 71 R 961  
schist, Nipigon L. reg., Ont..... 27 R 1059
- British Columbia  
Fort Steele mg. div..... 162-164 S 1911  
Nelson mg. div..... 154 S 1911  
Portland Canal mg. div..... 69, 71, 86 S 1910  
Queen Charlotte islds... 75, 77, 78, 80, 82 S 1909  
Rossland dist..... 17, 22 R 939  
Similkameen mg. div..... 27, 29 S 1907  
Tulameen area..... 114 S 1909  
Telkwa area..... ADDENDA 2 R 988  
Texada is..... 41-46, 50, 54 R 996  
Vancouver is..... 58 S 1908  
91-94 S 1909
- Manitoba, Wuskwatim l..... 93 S 1906  
New Brunswick, Bathurst area.... 131 S 1908  
Nova Scotia, Hants co..... 150 S 1906
- Ontario  
Albany r..... 14 R 1080  
Kenora dist..... 43 R 1059  
Muskoka dist..... 86 S 1905  
O'Sullivan l..... 23 R 980  
Petawawa r..... 25 R 977  
Timagami L. reg..... 141 R 962  
Timiskaming dist.....  
25, 75, 83, 158, 159, 169, 176 R 962
- Quebec  
Kewagama r..... 207 S 1910  
Megantic co..... 328 S 1913  
Timiskaming co..... 55, 75-83 R 962  
Yukon, Whitehorse dist... THROUGHOUT R 1050
- Garnet (gem)**  
Charlevoix co., Que..... 84 R 1085
- Garnet-augite**  
Whitehorse dist., Ykn..... 22, 40, 47, 58 R 1050
- Garnet mt.**, W. of Ice r., B.C..... 139 S 1910
- Garnetite**  
Similkameen mg. div., B.C..... 27, 29 S 1907  
Texada is., B.C..... 32, 33 S 1906  
Vancouver is., B.C..... 92 S 1909
- Garnier, Jules**..... 180, 182 R 961
- Garnierite**  
New Caledonia..... 174, 178-181 R 961
- Garrett mineral claim**, Athabaska l.,  
Sask..... 125 S 1915
- Garry is.**, Mackenzie delta, Mack.... 238 S 1915
- Garson I.**, Garson tp., Ont..... 49 R 961
- Garson tp.**, Sudbury dist., Ont.  
Altitudes; nickel..... 37, 47, 49 R 961  
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Streams; soil; trees..... 48, 50 R 961
- Garson Quarry**, Springfield dist., Man.  
Rocks; building stone..... 177, 178 S 1916
- Garthby**, Garthby tp., Que.  
Copper; rocks..... 182, 188 S 1909
- Garthby (Lac Coulombe) copper m.**,  
Garthby tp., Que..... 15 R 974
- Garthby tp.**, Wolfe co., Que.  
Asbestos; chromite..... 181, 194, 197 S 1909  
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188, 199 S 1909
- Gas (from coal and shales, etc.)**  
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Canmore, Alta., in coal mine..... 23 R 940  
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- Gas colliery**, Winifrede, W. Virginia,  
U.S..... 98 R 1035
- Gasline**, Humberstone tp., Ont..... 262 S 1911
- Gasoline**  
From Albert wells, price..... 116 S 1916
- Gaspé**, Gaspé co., Que.  
Fossils..... 270 S 1909  
Limestone, fossiliferous..... 65 R 983  
Oil, boring for..... 54 R 1107  
origin..... 55 R 1107  
Shore-lines..... 298 S 1911
- Gaspé pen.**, Que.  
Appalachian mts..... 16, 26 R 974  
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Chromite; coal; galena..... 48, 54 R 1085  
Geology; rocks..... 91 R 971  
34, 36, 61, 65, 66, 72 R 983  
33 R 1085  
74 R 983  
Glaciation..... 232 S 1910  
Oil..... 13, 52 R 1107  
24 S 1908  
boring for..... 113, 114 R 983  
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notes by Ells..... 212-216 S 1909  
Shore-lines..... 69 S 1907  
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- Gaspé series**..... 55, 65 R 983  
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**Gaspereau**, Queens co., N.B..... 85 R 983  
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<b>Gaspereau r., Kings co., N.S.</b>			
Anticlines and synclines.....	141	S	1906
Rocks.....	148, 150, 153, 237, 336	S	1908, 1909, 1911
<b>Gasport formation</b>			
Niagara pen., Ont.....	180, 187	S	1913
<b>Gass, L. H.</b> .....	150, 201	S	1910, 1911
<b>GASTEROPODA</b>			
FOLLOWING LOCALITIES SPECIALLY MENTIONED			
Bridge R. area, B.C.....	193	S	1912
Brome co., Que.....	289	S	1911
Crownest r., Alta.....	62	S	1914
Graham is., B.C.....	42, 46	S	1913
Jasper park, Alta.....	206	S	1911
Mattawa, Ont.....	292	R	962
Moose Jaw, Sask.....	125	S	1914
Nipissing l., Ont.....	294, 295	R	962
Pembroke map-sheet, Ont. and Que.	56, 63-68	R	977
	352	S	1911
Timiskaming l., Ont.....	289	R	962
Victoria mg. div., B.C.....	54	S	1908
<b>Gates silver m., Miller l., Nicol tp., Ont.</b> .....	172	S	1909
<b>Gateway formation</b>			
Correlation.....	62-63	S	1916
Description; thickness.....	221, 225	S	1912
Purcell range, B.C.....	131	S	1913
<b>Gatineau r., Ottawa r., Que.</b>			
Amphibole.....	259, 260	S	1910
Asbestos; mica.....	41-44	R	977
Champlain deposits.....	157	S	1915
Dykes; fossils.....	281, 282, 378	S	1911
Magnetite.....	46	R	953
Minerals. SEE BELOW Sum. rept.			
Rocks.....	57	R	977
Sum. rept. on dist. drained by.....	161-168, 219-227	S	1915, 1916
<b>Gatzville, New York state, U.S.</b> .....	413	R	970
<b>Gauley mt., Austed, W. Virginia, U.S.</b> .....	97	R	1035
<b>Gauthier, H.</b>			
Sum. rept. by, on road materials, Que.....	193, 198-201	S	1916
Work by, 1915.....	148	S	1915
<b>Gavin-Hamilton silver m., near Elk l., James tp., Ont.</b> .....	172	S	1909
<b>Gay gulch, Eldorado ck., Klondike r., Ykn.</b> .....	21	S	1909
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Ont.		
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B.C.		
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	67	S	1911
<b>Hartney, Souris dist., Man.</b>			
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<b>Hartshorne, Pittsburg co., Oklahoma, U.S.</b>			
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	129	S	1915
<b>Hastings, Cumberland co., N.S.</b>			
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<b>Hastings, Inverness co., N.S. SEE Port Hastings</b>			
<b>Hastings arm, Observatory inlet, B.C.</b>			
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<b>Hattie gulch, Hunker ck., Klondike dist., Ykn.</b>			
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<b>Haultain, Alexander G.</b>			
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\*Namely, that part of Ontario bordered by the Great Lakes, west of L. Simcoe.



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†i.e. the strip of coast land bordering eastern New Quebec and under the jurisdiction of Newfoundland.

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\*Laurie mine on section, but Lanark, evidently, is meant.

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\*Note by W. H. Collins: This lake was originally named Margueratt, after W. H. Margueratt, who discovered silver there; but, owing to a misunderstanding, the name was mapped as Marguerite.

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  - Collingwood
  - Farnham
  - Frankfort
  - Galena-Trenton
  - Goodsir
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  - Leray
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\* The upper part of this river is mapped as Otter-tail.

† Spelled Ouiatchouaniche on Dresser's map.

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\* Afterwards Can. Coal and Coke Co., and, later, North American Collieries, Ltd.

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 Structural section of valley..... 60-61 S 1916

**Precambrian**

SEE ALSO the following groups, formations, etc.

Corral Creek		
Cougar		
Goldenville		
Grenville		
Hector		
Illecillewaet		
Keewatin		
Keweenawan		
Lac la Ronge		
Laurentian		
Moose		
Mount Stevens		
Nakimu		
Priest River		
Purcell		
Ross		
Shuswap		
Tazin		
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Kamloops, Revelstoke, and Yale mg. divs.	166-171	S 1911
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southeastern	170-172	S 1916
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Cape Breton is.	37, 55	R 1085
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	103, 106	S 1906
L. Superior, N. shore	12	R 1081
	81	S 1905
Patricia dist.	10	R 1080
Winisk R. reg.	79	S 1905
Rainy R. dist.	240, 243	S 1911
Simcoe area	160	S 1909
Sudbury dist., Coleman and Miller's successions	307-309	S 1912
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Ontario (Continued)

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	11	R 1064
Quebec		
Argenteuil co.	209-211	S 1916
Eastern Tps.	17-25, 32, 37	R 974
	33, 46	R 1085
	210	S 1910
	288	S 1911
Marston tp.	7	R 1028
Gatineau valley	222, 224	S 1916
Hull co.	281	S 1911
Kewagama L. reg.	274	S 1911
L. St. John dist., contact with Ordovician	178	S 1915
Opasatika L. reg.	121-123	S 1908
southeastern	212, 213	S 1913
Timiskaming co.	11	R 1064
	114-117	S 1906

**Precambrian shield.** SEE Laurentian plateau**Precious stones**

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Laurentian plateau, notes by Young	83-84	R 1085
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**Preglacial river channels**

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**Prehnite**

Telkwa area, B.C. 11 R 988

**Preldo hill, Hunker ck., Klondike dist., Ykn.**

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Timiskaming reg., Ont. and Que. 10 R 1064

**Prescott, Augusta tp., Ont.**

Rocks for road metal. 148-149 S 1915

**Presqu'île l., Chibougamau r., Que.**

Description; rocks. 29-35, 51, 52 R 923

**Presqu'île pt., Great Slave l., Mack.**

Rocks, petrolierous. 68, 72 S 1916

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**Preston, Waterloo tp., Ont.**

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**Pretoria copper claim, Highland valley, B.C.**

89 S 1915

**Prévost canyon, Ross r., Ykn.**

Rocks. 34, 49 R 1097

**Prévost mt., N.W. of Duncan, V.I.**

Rocks. 97, 100 S 1913

**Prévost r., Pelly r., Ykn.**

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**Priestly mica m., Cawood tp., Que.** 43 R 977**Priest River series**

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Rossland area	22	R	939
Similkameen mg. div.	29	S	1907
Texada is.	46, 49, 52-55	R	996
Ontario, eastern, with mica	99	R	1085
Quebec			
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Chibougamau reg.	60	R	923
Coleraine dist.	212-239, 242	S	1916
Hull co.	11, 21-23, 42, 43	R	977
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Whitehorse dist.	31, 33, 39	R	1050

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Eastern Tps., Que.	54	R	1085
	182, 188	S	1909
	212	S	1910
	290	S	1911
Gatineau valley, Que., mica and apatite in			
	203, 206	S	1913
	159, 161, 166, 167	S	1915
Platinum from	112	S	1909
Pontiac co., Que.	44	R	977
Tulameen r., B.C.	37, 38	R	986
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	113	S	1910
Wheaton R. dist., Ykn.	41	S	1915

**Pyrrhotite**

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New Brunswick	62	R	928
	150, 151	R	961
	89, 91	R	983
	129, 137	S	1906
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Nova Scotia	43	R	1085
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Saskatchewan			
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British Columbia			
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	163, 164	S	1911
Golden mg. div.	141-143	S	1910
Lardeau mg. div.	86, 87	S	1907

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Nanaimo mg. div.	17	S	1907
Nelson mg. div.	146	S	1911
New Westminster mg. div.	29, 35	R	996
Omineca mg. div.	2	R	988
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Osoyoos mg. div.			
Hedley area	30	S	1907
Independence mt.	217	S	1912
Portland Canal mg. div.	65, 69, 70, 82	S	1910
	60	S	1911
Queen Charlotte islds.	75, 76, 81	S	1909
Rossland area	17, 18, 20, 22, 37	R	939
	133, 134	R	1085
	58, 62	S	1906
	90	S	1907
	22	S	1908
Similkameen mg. div.	34, 38, 39, 40	R	986
	54, 55	S	1906
	29	S	1907
	113, 114	S	1909
Skeena mg. div.	45	S	1911
Unuk valley	51	S	1905
Vancouver is.	58	S	1908
	91, 94	S	1909
Yale mg. div., Skagit area	122	S	1911
Ontario			
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L. Superior, N. shore	20	R	1081
	81	S	1905
Larder L. reg.	179	S	1909
Nipigon L. reg.	96	S	1908
Nipissing dist.	138, 143, 147, 274	R	962
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Sudbury nickel reg.	THROUGHOUT	R	961
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Quebec			
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Eastern Tps.	8, 14, 15, 38	R	974
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Lièvre r.	108-110	S	1905
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## Man.....

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**Sapir, Edward**

## Appointed as anthropologist.....

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\* Indian name, Musibimega



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Rock temperatures.....	61	S	1906
<b>Simpson, A. C.</b>			
	203	S	1910
<b>Simpson, B. N.</b>			
	419	S	1912
<b>Simpson bay, Victoria is., Frank.....</b>			
	383	S	1916
<b>Simpson bk., Cumberland co., N.S.</b>			
Rocks.....	145, 146	S	1908
<b>Simpson colliery, Lafayette, Colorado, U.S.</b>			
	86	R	1035
<b>Simpson is., Charlotte co., N.B.</b>			
Copper.....	88	R	983
<b>Simpson I., Marten ck., Marten I., Ont.</b>			
Altitudes; striae.....	134, 278	R	962
<b>Simpson pass, Rocky mts., headwaters of Kootenay r., Alta. and B.C.</b>			
	101	S	1915
<b>Simpson silver-gold claim, W. of Bear R. ridge, Portland Canal mg. div., B.C.</b>			
	54	S	1911
<b>Sinclair mt., Montrose tp., Ont.....</b>			
	47	R	1075
<b>Sinclair pt., Niagara r., Ont.</b>			
	144, 145, 152-156,	352	R
	267	S	1911
<b>Singhampton, Osprey tp., Ont.....</b>			
	267	S	1911
<b>Sink-holes</b>			
Lunenburg co., N.S.....	239	S	1909
Chester basin.....	155	S	1908
<b>Sinnot ck. SEE Ware ck.</b>			
<b>Sinter</b>			
Twomile ck., near Hazelton, B.C., anal.....	107	S	1912
<b>SINUITES</b>			
Château Richer and Lorette, Que.....	342	S	1912
Simcoe area, Ont.....	257, 261	S	1911
	297	S	1912
<b>Sioux Lookout, Pelican I., Drayton tp., Ont.</b>			
Hornblende schist.....	29	R	1059
Iron ore.....	60	R	1059
	51	S	1907
<b>Sipanok channel, between Carrot and Saskatchewan r's., Sask.....</b>			
	41, 46	S	1907
<b>Sir Donald formation</b>			
Correlation.....	162, 164	S	1912
	62-63	S	1916
	156	S	1912
Golden mg. div., B.C.....			
<b>Sissiboo r., Digby co., N.S.</b>			
Terraces.....	249	S	1913
<b>Sister islds., Niagara r., U.S.</b>			
Affected by power development.....	267	R	970
<b>Siwash ck., Fraser r., B.C.</b>			
Geology; ore deposits.....	109, 125-129	S	1911
<b>Siwash gold claim, Big Missouri ridge, Portland Canal mg. div., B.C.</b>			
	55	S	1911
<b>Siwash rock, Burrard inlet, B.C.</b>			
	25, 26	R	996
<b>Siwash series.....</b>			
	109, 126	S	1911
<b>Sixmile mt., E. of Hazelton, B.C.</b>			
Rocks; galena.....	62-64	S	1909
	95	S	1910
<b>Sixth I., Queens co., N.S.</b>			
Anticline; gold reported.....	188, 189	S	1915
<b>Sixtymile r., Yukon r., Ykn.....</b>			
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<b>Siye formation</b>			
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Purcell range, B.C.....	131	S	1913
Slocan mg. div., B.C.....	60	S	1916
<b>Sjostedt, Ernest A.</b>			
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<b>Skagit r., B.C. and U.S.</b>			
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<b>Skagit volcanics.</b>			
<b>Skead tp., Timiskaming dist., Ont.</b>			
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<b>Skeena mg. div., Cassiar dist., B.C.</b>			
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<b>Skeena r., Cassiar and Coast dists., B.C.</b>			
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	93	S	1910
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Coal.....	140	R	1085
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- Cretaceous fossils; navigation. . . . . 9, 12 R 988
- Economic minerals. . . . . 126 R 1085
- Faults. . . . . 89 S 1912
- Geology and coal resources of upper. . . . . 72-90 S 1911
- Glaciation. . . . . 62 S 1912
- Notes by McConnell. . . . . 55, 56 S 1912
- Rocks. . . . . 11 R 988
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- 78, 81, 83 S 1911
- 61, 63, 77, 84, 85, 89, 91 S 1912
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- Valley, character. . . . . 71 S 1912
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- Description. . . . . 74, 83 S 1911
- Omineca mg. div., B.C. . . . . 93, 94 S 1910
- Telkwa valley. . . . . 62, 63 S 1915
- Skeena mg. div., B.C. . . . . 63, 64 S 1909
- 58 S 1912
- 78, 79 S 1911
- Groundhog coal basin. . . . . 78, 79 S 1911
- Skeleton, human**
- Savona, B.C., in silt bed. . . . . 91, 92, 281-283 S 1915
- Skidgate channel**, Skidgate inlet, B.C.
- Coal. . . . . 36 S 1912
- Skidgate formation**
- Graham is., B.C. . . . . 18-22 S 1912
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- Skidgate inlet**, between Moresby and Graham islds., B.C.
- Coal; fossils. . . . . 23, 73 R 1035
- Rocks. . . . . 19, 21-25 S 1912
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- Skil l.**, Denison tp., Ont.
- Norite. . . . . 7 R 961
- Skincuttle inlet**, Moresby is., B.C.
- Copper. SEE Copper is.
- Skiri mt.**, Sooke dist., V.I.
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- Lignite; Tertiary sediments 16, 27, 28, 38, 39 S 1912
- Skookum gulch**, Bonanza ck., Klondike r., Ykn.
- Meteorite. . . . . 253 S 1909
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- 9 R 996
- Skowkona ck.**, Honna r., Graham is., B.C.
- 38 S 1913
- Skye mt.**, Inverness co., N.S.
- 17 R 958
- Slack bk.**, Colchester co., N.S.
- Iron mg. . . . . 267 S 1916
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- New Caledonia, from nickel smelters, anal. . . . . 182 R 961
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- Sulphides held in. . . . . 127, 128 R 961
- Trail, B.C., anal. . . . . 31 R 939
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- slag bricks. . . . . 171 R 961
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- Deserted bay, B.C. . . . . 54 R 996
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- Temiscouata co., Que. . . . . 126 S 1908
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- Slate, graphitic**
- St. John co., N.B. . . . . 79 R 983
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- Slate ck.**, Clyburn bk., Victoria co., C.B. . . . . 272, 277, 282 S 1913
- Slate ck.**, Mansen ck., Omineca r., B.C.
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- Copper; gold; platinum. . . . . 111-114 S 1909
- Rocks; stream deposits. . . . . 106-112 S 1909
- Slate is.**, Athabaska l., Alta.
- Rocks. . . . . 61 S 1914
- Slate l.**, Wenasagan r., Ont.
- Altitude; striae; trees. . . . . 13, 18, 20 R 1006
- Iron; rocks. . . . . 14-17, 20 R 1006
- Slate mt.**, Addington par., Restigouche co., N.B.
- Altitude. . . . . 9 R 983
- Slate mt.**, Portland Canal mg. div., B.C. . . . . 51, 53 S 1911
- Slate rapids**, Pelly r., Ykn. . . . . 30, 33, 41 R 1097
- Slatechuck ck.**, Kagan bay, Graham is., B.C.
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- Copper and iron near. . . . . 181, 182 S 1916
- Slaughenwhite is.**, Lunenburg co., N.S.
- Fault. . . . . 251 S 1910
- Slave pt.**, Great Slave l., Mack.
- Rocks; fossils. . . . . 68, 73 S 1916
- Slave r.**, Great Slave l., Mack.
- Biological investigations. . . . . 159-163 S 1914
- Country between and Peace r., Sum. rept. by Camsell. . . . . 134-145 S 1916
- Delta deposits from. . . . . 68 S 1916
- Gypsum. . . . . 140 S 1916
- Tar springs. . . . . 143 S 1913
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- Sleds**. SEE Dog sleds
- Sleeman**, Worthington tp., Ont.
- Beach near, altitude. . . . . 175 S 1913
- Sleepy r.**, Obaska l., Que.
- Rocks. . . . . 322 S 1912
- Slims r.**, Kluane l., Ykn.
- Silts, origin. . . . . 19 R 1050
- Slinglands pt.**, Niagara r., U.S. . . . . 139 R 970
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- Sum. rept. by, on oil and gas, Alta.
- 1914, Sheep R. area. . . . . 3, 43, 53, 54 S 1914
- Calgary. . . . . 139, 143-145 S 1914
- 1915, Boring operations. . . . . 3, 116-120 S 1915
- 1916, General operations. . . . . 4, 78, 114-134 S 1916
- Work by, 1910. . . . . 91 S 1910
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- Sloan ck.**, headwaters Zymoetz r., B.C. . . . . 44 S 1908

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Structure section from, to Kootenay I.....	60-61	S 1916	Port Arthur, Ont.....	14	S 1906
<b>Slocan mg. div., Kootenay dist., B.C.</b>			Sudbury dist., Ont. (nickel).....	26-33, 37-41, 194-221	R 961
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	23, 27, 70	R 971	<b>Smelter I., S. of Ashnola, B.C.</b>		
Mining development, 1915.....	93	S 1915	Ancient river channel.....	21	R 986
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Sum. rept. ....	67, 68	S 1908	Nickel refining.....	40, 170	R 961
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	123-128	S 1910	<b>Smith, George R.</b> .....	82	R 928
	56, 57	S 1916		215	S 1910
Topographical work in.....	134	S 1909	<b>Smith, Harlan I.</b>		
	129	S 1910	Appointment.....	2	S 1911
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Zinc.....	66, 67	R 928	1911.....	391-392	S 1911
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<b>Slocan mts., Selkirk mts., B.C.</b>			1913.....	3, 380-384	S 1913
Character.....	140	S 1911	1915.....	274-278	S 1915
<b>Slocan series</b>			1916.....	9, 10, 395-398	S 1916
Age, Beltian.....	41	S 1914	Work by, 1914.....	8, 178	S 1914
Correlation.....	61-63	S 1916	<b>Smith, K. H.</b> .....	110	S 1910
Slocan mg. div., B.C.....	131, 132	S 1909	<b>Smith, Marcus</b> .....	18	R 962
	124	S 1910	<b>Smith, Warren P.</b> .....	220	S 1910
	56, 57	S 1916	<b>Smith bay, Kipawa I., Que.</b>		
<b>Slocan Roy galena m., N. of Sandon, B.C.</b>			Rocks.....	207, 208	R 962
	127	S 1910	<b>Smith cape, Manitoulin is., Ont.</b>		
<b>Slocan Sovereign galena m., E. of Sandon, B.C.</b>			Bituminous shales, anal.....	63, 64	R 1107
	68	S 1908	<b>Smith colliery, Maecan, N.S.</b> .....	142, 143	S 1906
<b>Slocan Star galena m., S. of Sandon, B.C.</b>			<b>Smith is., Skeena r., B.C.</b>		
	138	R 1085	Rocks.....	63	S 1912
	68	S 1908	limestone for lime.....	9	S 1909
	133	S 1909	<b>Smith r., Lunenburg co., N.S.</b>		
	126	S 1910	Rocks.....	154	S 1908
<b>Sloko mt. and I., Atlin mg. div., B.C.</b>			<b>Smith and Steffos coal m., Clover Bar, Alta.</b>		
Coal.....	28, 56-58	S 1910	Seam, thickness; output.....	81	S 1908
<b>Sloko r., Taku r., B.C.</b>			<b>Smiths Falls, N. Elmsley tp., Ont.</b>		
Coal: rocks.....	57, 58	S 1910	Geology in vicinity.....	352	S 1911
<b>Smaltite</b>			<b>Smoky cape, Victoria co., N.S.</b>		
Cobalt area, Ont.....	154-156	R 961	Rocks.....	276	S 1913
	26	R 971	<b>Smoky falls, Sturgeon r., L. Nipissing, Ont.</b>		
	81, 82, 91	R 1085	Altitude; gneiss; soil near.....	29, 218, 277	R 962
	97-103	S 1905	<b>Smoky falls, Wmisk r., Ont.</b>		
	110, 111	S 1906	SEE Boskineig fall		
Gowganda mg. div., Ont.....	42, 43	R 1075	<b>Smoky mt., Victoria co., N.S.</b>		
	171	S 1909	Rocks.....	276	S 1913
Montreal R. area, Ont.....	118, 119	S 1908	<b>Smoky r., Peace r., Alta.</b>		
	200	S 1910	Coal.....	38, 62	R 1035
Sudbury nickel reg., Ont.....	103, 104	R 961		45, 150	S 1909
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<b>Smeaton fall and ravine, Niagara r., Ont.</b>				86, 91	S 1916
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<b>Smelt bk., Pictou coal field, N.S.</b>			Fossils.....	302	S 1916
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Granby (Grand Forks).....	15	S 1908	Rocks.....	199	S 1910
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	47	S 1911	Joggins area, N.S.....	332	S 1911
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<b>Sourisford</b> , Souris dist., Man.....	159	S 1916	<b>South Orillia tp.</b> SEE Orillia tps.
<b>South bay</b> , Graham is., B.C.			<b>South Oromocto l.</b> , Charlotte co., N.B.....
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<b>South bay</b> , Nipissing l., Ont.			<b>South Roxton</b> , Roxton tp., Que.
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<b>South bay</b> , St. John co., N.B.....	45	R 983	357, 358
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<b>South is.</b> , Skidegate inlet, B.C.....	22	S 1912	Coal.....
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<b>South mt.</b> , Lunenburg co., N.S.			<b>South Stukely</b> , Stukely tp., Que.
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<b>South Alton</b> , Kings co., N.S.....	147	S 1908	Glaciation.....
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<b>Southampton is.</b> , Hudson bay, Kee.			Anticline; rocks.....
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<b>South Baymouth</b> , Manitoulin is., Ont.			<b>South Valdes is.</b> , B.C. SEE Quadra is.
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<b>South East British Columbia Land and Oil Co.</b>			.....
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<b>Southern Alberta Oil Co.</b>			Anticline; rocks.....
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\* This term, used before the enlargement of the province of Ontario, to include all those counties W. of L. Simcoe, is now geographically incorrect.

- Spawning bay**, Timagami l., Ont.  
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- Spawning l.**, E. of Timagami l., Ont.  
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\*The report refers to this creek as Hot Springs ck.

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\*This place is now Battersea village



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Anderson.....	Algoma	Charlton.....	Nipissing
Anglesea.....	Lennox and Addington	Chown.....	Timiskaming
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Arthur.....	Wellington	Clarence.....	Russell
Askin.....	Nipissing	Clarendon.....	Frontenac
Asquith.....	Sudbury	Colchester.....	Essex
Augusta.....	Grenville	Cole.....	Timiskaming
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Bonfield.....	Nipissing	Douro.....	Peterborough
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Brantford.....	Brant	Drury.....	Sudbury
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Fenelon.....	Victoria	Johnson.....	Algoma
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Fitzroy.....	Carleton	Kenogaming.....	Sudbury
Flamborough.....	Wentworth	Kerns.....	Timiskaming
Flos.....	Simcoe	Kincardine.....	Bruce
Poster.....	Sudbury	King.....	York
Foy.....	Sudbury	Kingston.....	Frontenac
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Fraser.....	Renfrew	Knight.....	Timiskaming
Frater.....	Sudbury	Lampman.....	Sudbury
Freeman.....	Muskoka	Lavant.....	Lanark
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Gloucester.....	Carleton	Logan.....	Perth
Goderich.....	Huron	London.....	Middlesex
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Gosfield.....	Essex	Lorne.....	Sudbury
Graham.....	Sudbury	Lorrain.....	Timiskaming
Grant.....	Nipissing	Loughborough.....	Frontenac
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Mersea	Essex	Riddell	Nipissing
Methuen	Peterborough	Robb	Timiskaming (now Cochrane)
Mickle	Timiskaming	Rolette	Montmagny
Middleton	Norfolk	Ross	Renfrew
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Moulton	Haldimand	Sebastopol	Renfrew
Mulmur	Dufferin	Selkirk	Sudbury
Muskego	Sudbury	Seneca	Haldimand
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Nassagaweya	Halton	Sheffield	Addington
Neelon	Sudbury	Shefford	Shefford
Nelson	Halton	Shillington	Timiskaming
Nepean	Carleton	Sidney	Hastings
Niagara	Lincoln	Skead	Timiskaming
Nichol	Wellington	Smith	Peterborough
Nicol	Timiskaming	Snider	Sudbury
Nipigon	Thunder Bay	Snowdon	Haliburton
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Noble	Sudbury	South Lorrain	Timiskaming
Normanby	Grey	Southwold	Elgin
Norwich	Oxford	Springer	Nipissing
Notman	Nipissing	Sproule	Nipissing
Ogilvie	Sudbury	Stafford	Renfrew
Olden	Frontenac	Stamford	Welland
Obrig	Nipissing	Stanley	Huron
Oneida	Haldimand	Storrington	Frontenac
Onondaga	Brant	Strathcona	Nipissing
Orillia	Simcoe	Strathy	Nipissing
Osgoode	Carleton	Street	Sudbury
Oso	Frontenac	Sydenham	Grey
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Peel	Wellington	Tisdale	Timiskaming (now Cochrane)
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Pembroke	Renfrew	Torbolton	Carleton
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Township	County or District	Township	County or District
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Vespra.....	Simcoe	Williams, North.....	Timiskaming
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Walls.....	Algoma	Willoughby.....	Welland
Walpole.....	Haldimand	Wilmot.....	Waterloo
Walsingham.....	Norfolk	Wisner.....	Sudbury
Waterloo.....	Waterloo	Woodhouse.....	Norfolk
Waters.....	Sudbury	Worthington.....	Rainy River
Westmeath.....	Renfrew	Yarmouth.....	Elgin
Westminster.....	Middlesex	Yarrow.....	Timiskaming
Whigham.....	Sudbury	Yates.....	Nipissing
Whitby.....	Ontario	York.....	York
Whitchurch.....	York	Zealand.....	Kenora
Whitney.....	Timiskaming (now Cochrane)	Zone.....	Kent

\*Quebec

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Alley.....	Pontiac	Dufay.....	Timiskaming
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Ascot.....	Sherbrooke	Dunham.....	Missisquoi
Ashuapmouchouan.....	Lake St. John dist.	Durham.....	Drummond
Aumond.....	Hull	Eardley.....	Hull
Aylwin.....	Hull	Egan.....	Hull
Baby.....	Timiskaming	Elgin.....	Huntingdon
Barnston.....	Stanstead	Ely.....	Shefford
Bois.....	Portneuf	Emberton.....	Compton
Boischatel.....	Timiskaming	Evanturel.....	Champlain
Bolton.....	Brome	Fabre.....	Timiskaming
Bousquet.....	Timiskaming	Farnham.....	Brome and Missisquoi
Bowman.....	Hull	Frampton.....	Dorchester
Briant.....	Hull	Garthby.....	Wolfe
Bristol.....	Pontiac	Gayhurst.....	Frontenac
Brome.....	Brome	Gendreau.....	Timiskaming
Brompton.....	Richmond	Granet.....	Timiskaming
Broughton.....	Beauce	Grantham.....	Drummond
Bryson.....	Pontiac	Grenville.....	Argenteuil
Buckingham.....	Hull	Guigues.....	Timiskaming
Calumet.....	Pontiac	Ham.....	Wolfe
Campeau.....	Timiskaming	Hampden.....	Compton
Cawood.....	Pontiac	Harrington.....	Argenteuil
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Ditton.....	Compton		

\*In this Index the townships included in what has lately been made the electoral district of Papineau, are entered as in Hull county. The following townships are in Papineau electoral district;

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Low.....	Hull	Shipton.....	Richmond
Lytton.....	Hull	Sicotte.....	Hull
Magog.....	Stanstead	Spalding.....	Beauce
Malartic.....	Timiskaming	Stanstead.....	Stanstead
Maniwaki.....	Hull	Stoke.....	Richmond
Manneville.....	Timiskaming	Stratford.....	Wolfe
Mansfield.....	Pontiac	Stukely.....	Shefford
Marlow.....	Frontenac	Sutton.....	Brome
Marston.....	Frontenac	Tabaret.....	Timiskaming
Masham.....	Hull	Tadoussac.....	Saguenay
Matane.....	Matane	Talon.....	Montmagny
Melbourne.....	Richmond	Templeton.....	Hull
Mercier.....	Timiskaming	Thetford, S.....	Megantic
Métabetchouan.....	Lake St. John	Thorne.....	Pontiac
Montbeillard.....	Timiskaming	Tingwick.....	Arthabaska
Nedellec.....	Timiskaming	Tourelle.....	Gaspe
Newton.....	Vaudreuil	Trecesson.....	Timiskaming
Northfield.....	Hull	Tring.....	Beauce
Onslow.....	Pontiac	Upton.....	Bagot
Orford.....	Sherbrooke	Wakefield.....	Hull
Pascalis.....	Timiskaming	Waltham.....	Pontiac
Portland.....	Hull	Warwick.....	Arthabaska
Potton.....	Brome	Weedon.....	Wolfe
Roberval.....	Lake St. John	Wendover.....	Drummond
Rolette.....	Montmagny	Whitton.....	Frontenac
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- 1593 Blairmore, Alberta. (Topography.)  
 1599 Roebuck site, Grenville co., Ont.  
 1600 Burials in, and near refuse heap No. 1, Roebuck site, Ont.  
 1641 Sandon (Slocan and Ainsworth mining divisions), Kootenay dist., B.C.  
 1680 Portions of Grenville, Harrington, Chatham, and Wentworth tps., Argenteuil co., Que.  
 1690 Whiteburn gold district, Queens co., N.S.  
 1691 Buckingham, Hull and Labelle cos., Que.  
 1697 Explored routes in a belt traversed by the Canadian Northern Ontario railway, between Gogama and Missonga, Sudbury district (Sheet 1), Ont.  
 1698 Explored routes in a belt traversed by the Canadian Northern Ontario railway, between Oatland and Penhurst, Algoma district (Sheet 2), Ont.  
 1702 Klotassin, Y.T.  
 1705 Thetford, Megantic, Wolfe, and Frontenac cos., Que.  
 1706 Anyox, Cassiar dist., B.C.  
 1707 New Glasgow, Pictou co., N.S.  
 1711 Route traversed by the Great Pacific Eastern railway, between Squamish and Lillooet, B.C.  
 1751 Wainwright, tps. 38 to 46, ranges 5 to 10, west of 4th meridian, Alberta.  
 1752 Monitor, tps. 30 to 40, ranges 1 to 5, west of 3rd meridian, and tps. 30 to 40, ranges 27 to 29, west of 4th meridian, Alberta.  
 1754 Upper Elk and Upper Highwood rivers, B.C. and Alberta.  
 1826 Oil and gas fields in parts of Kent and Essex cos., Ont.  
 1827 Dutton oil field, Elgin co., Ont.  
 1830 Vermilion, tps. 47 to 55, ranges 5 to 10, west of 4th meridian, Alberta.  
 1831 Vegreville, tps. 47 to 55, ranges 11 to 16, west of 4th meridian.  
 1836 Explored routes in a belt traversed by the Canadian National railways (between Longlac and Nipigon), Thunder Bay district, Ont.  
 1875 Beverley peat bog, Beverley and Flamboro W. tps., Wentworth co., Ont.  
 1876 Halton peat bog, Nassagaweya tp., Halton co., Ont.  
 1877 Aberfoyle peat bog, Fuslinch tp., Wellington co., Ont.  
 1878 Pelee Point peat bog, Mersea tp., Essex co., Ont.  
 1879 Harrowsmith peat bog, Portland tp., Frontenac co., Ont.  
 1880 St. Luc peat bog, Champlain co., Que.  
 1884 Thedford peat bog, Bosanquet tp., Lambton co., Ont.  
 1885 Maybrooke peat bog, Harley and Kerns tps., Timiskaming dist., Ont.  
 1886 Nellie Lake peat bog, Newmarket, Aurora, McCart, and Calvert tps., Timiskaming dist., Ont.  
 1887 Drinkwater peat bog, Matheson tp., Timiskaming dist., Ont.  
 1888 Cudmore, Hicks, "B," Canaan, Gades, and "A" peat bogs, Moncton par., Westmorland co., N.B.  
 1889 St. John peat bog, St. John tp., Timiskaming dist., Ont.  
 1890 Brower peat bog, Brower and St. John tps., Timiskaming dist., Ont.  
 1891 Cochrane peat bog, Lamarche tp., Timiskaming dist., Ont.  
 1892 Clair peat bog, Dorchester and Bellechasse cos., Que.  
 1893 St. Joseph peat bog, Lauzon seigniory, Dorchester co., Que.  
 1894 "A" and "B" peat bogs, Isle-Verte seigniory, Temiscouata co., Que.  
 1895 St. Arsène peat bog, Leparc and Lachenaie seigniories, Temiscouata co., Que.  
 1896 St. Anaclet peat bog, Lessard and Lepage-Thibierge seigniories, Rimouski co., Que.  
 1905 Fraser river, Sand Heads sheet, B.C.  
 1906 Fraser river, Steveston sheet, B.C.  
 1907 Fraser river, Ladner sheet, B.C.  
 1908 Fraser river, Deas Island sheet, B.C.  
 1909 Fraser river, Tilbury sheet, B.C.  
 1910 Fraser river, Annacis sheet, B.C.  
 1911 Fraser river, New Westminster sheet, B.C.  
 1912 Fraser river, Port Mann sheet, B.C.  
 1913 North arm of Fraser river, Poplar Island sheet, B.C.  
 1914 North arm of Fraser river, Boundary Road sheet, B.C.  
 1915 North arm of Fraser river, Marpole sheet, B.C.  
 1916 North arm of Fraser river, Tone Islands sheet, B.C.  
 1917 North arm of Fraser river, Point Grey sheet, B.C.  
 1918 Burrard inlet, Vancouver sheet, B.C.  
 1919 Burrard inlet, Second Narrows sheet, B.C.  
 1920 Burrard inlet, Dollarton sheet, B.C.  
 1921 Burrard inlet, Barnet sheet, B.C.  
 1922 Burrard inlet, Port Moody sheet, B.C.  
 1923 Fraser river, B.C., triangulation control.  
 1924 North arm of Fraser river, B.C., triangulation control.  
 1925 Burrard inlet, B.C., triangulation control.

