EXPLANATORY NOTES

PURPOSE AND SCOPE OF MAP

The purpose of this map is to show the distribution of silver in Canada. Types of occurrences containing silver are denoted by various symbols on an uncoloured geological map of Canada in order that comparisons with geological features can be made.

The map has been designed to emphasize the more important occurrences by using black symbols for these and blue symbols for those of less importance. Black symbols indicate significant occurrences usually with good silver values, large deposits containing 1 ounce silver per ton or more, and mines that produced a sizeable amount of ore at or above this cut-off assay. The symbols represent a range of values indicating the relative amount of silver in each occurrence. Low values generally indicate approximately 1 to 5 ounces silver per ton, medium values 5 to 15 ounces silver per ton, and high values greater than 15 ounces silver per ton. A symbol with a low value in many cases indicates that silver is a by-product metal, e.g. the Pb-Zn-Ag ores of the Sullivan mine (87◇), whereas a symbol with a high value generally indicates that silver is a first rank metal, e.g. the Ag-Pb-Zn ores of the Keno Hill area (5◆).

CLASSIFICATION

On the map the following classification of silver deposits has been adopted:
SHALE DEPOSITS: The silver minerals occur as disseminations in layers or beds of shale. Most deposits of this type are mined for copper, and silver is won as a by-product in some places. Typical examples are the Kupferschiefer of Germany and the White Pine deposits in Michigan. No good examples of this type are known in Canada.
SANDSTONE TYPE: The silver minerals occur as disseminations in terrestrial sandstones, arkose, and conglomerates. In other deposits the silver minerals occur in veins or lenses cutting these rocks. These types of deposits are frequently referred to as 'red bed' deposits. Most of the economic deposits are found outside of Canada. They contain copper as the principal economic metal, but some are mined for their lead or uranium. Silver is generally won as a by-product. A few deposits contain silver as the only economic element.
SKARN TYPE: The silver minerals are mainly argentiferous galena, tetrahedrite, gold-silver, or argentite. These occur in a matrix of calc-silicate minerals, quartz, etc., usually in irregular lenses near granitic contacts or in high-grade metamorphic terranes.
POLYMETALLIC TYPE: These deposits occur in all varieties of rocks. Four sub-types can be recognized.

1. Gold-silver veins, lodes, and stockworks containing essentially gold with more or less of galena, sphalerite, tetrahedrite, etc. The gangue is generally quartz.
2. Lead-zinc-copper-silver veins, lodes, and lenses containing essentially galena, sphalerite, tetrahedrite, chalcopyrite, argentite, etc. The gangue is either quartz or carbonate minerals.
3. Massive sulphide deposits containing either pyrite, pyrrhotite, pentlandite, and chalcopyrite (Sudbury type) or assemblages of pyrite, pyrrhotite, galena, sphalerite, and chalcopyrite (Flin Flon type). Silver is generally won as a by-product metal.
4. Ni-Co arsenide (Cobalt) type. The principal silver mineral is native silver. Associated elements in some deposits are bismuth and uranium. The gangue is usually calcite, dolomite, or siderite.

On the map sub-types 1, 2, and 3 are grouped together for simplicity.

DISTRIBUTION AND SOURCES OF SILVER

Mexico leads the world in silver production with an output of 43.0 million ounces in 1963. Peru and the United States are the next largest producers followed by Canada. Most of the 30.7 million ounces of silver produced in Canada in 1963 came from Ontario, British Columbia, Yukon, and Quebec. The record level of silver production in Canada was in 1960 when 34.0 million ounces were produced from the following sources: 2 per cent from gold ores, 77 per cent from base-metal ores, and 21 per cent from silver ores.

In the Cordilleran region most of the silver has come from the lead-zinc-silver ores of the Sullivan mine (87), the silver-rich lead-zinc ores of the Keno Hill area (5), the Slocan (84) and Ainsworth areas (85), and the Premier gold mine (31). Deposits in the Cordillera, mined primarily for silver, include those in the Beaverdell area (93), the Torbrit and Dolly Varden deposits (32) and the Silver Standard (35) and Henderson deposits (40). The Rocher Déboulé copper deposit (35) near Hazelton, British Columbia is the only known silver-bearing deposit in the Cordilleran region containing the complex cobalt-nickel arsenide minerals and uraninite.

Massive sulphide deposits containing principally copper, copper-nickel, and copper-lead-zinc ores yield large amounts of silver as a by-product and are one of the most important sources of the metal in the Canadian Shield. These deposits are mined in the Flin Flon (110), Manitouwadge (123), Matagami Lake (136), Noranda (142), and numerous other areas. The huge Texas Gulf Kidd Creek deposit (133) near Timmins, Ontario will eventually be the world's largest single source of silver with an annual output of approximately 10 million ounces. The Ni-Co arsenide-native silver type of deposit is of frequent occurrence in a number of places in the Shield. The Cobalt (145) and subsidiary districts rank with the most important silver-bearing districts of the world and after 60 years of production still supply about 17 per cent of Canada's silver output. The Silver Islet mine (119) produced much silver before the turn of the century, and the metal was recovered, until recently, from the Eldorado (104) pitchblende deposits.

Most of the silver in the Appalachian region is won as a by-product from massive sulphide deposits containing essentially lead, zinc, and copper. These include deposits such as the Brunswick (161), Heath Steele (162), and Buchans (170). The Walton deposit (167) in Nova Scotia is primarily a barite deposit with an associated lead-zinc-copper-silver sulphide lens.

Many base-metal deposits, including the Gaspé copper deposits, those in the Sudbury nickel belt, most of those in the Noranda area, various other deposits in the Canadian Shield, and others in the Cordilleran region have produced large amounts of silver, but their ore averages less than one ounce silver per ton, and hence they are not plotted on the map. The same applies to numerous gold mines in the Appalachians, the Shield, and the Cordilleran region.

SOURCES OF INFORMATION

The map is based largely on information obtained from publications of the Geological Survey of Canada and the various provincial departments of mines to mid 1964. The files of the Geological Survey of Canada and the Mineral Resources Division, Department of Energy, Mines and Resources were an additional source of information.

LOCALITIES AND REFERENCES

One symbol on the map may represent either a single occurrence or a number of occurrences in a compact group. The locality number on the map is plotted adjacent to the symbol it designates, but where it represents a number of symbols the locality number is plotted in the general area of that group of symbols. Locality numbers refer to black symbols although blue symbols are sometimes included as part of the area designated. To indicate the importance of many of these localities the number of occurrences known to have yielded 1 ounce silver per ton or more, and/or the names of the more important mines that produced at this rate are enclosed in brackets in the locality list at the side of map. Reference numbers in the locality list relate to the list of selected references. Only the principal reports describing occurrences of silver have been cited, especially for areas containing many occurrences. The Geological Survey of Canada cannot supply publications other than its own, nor can it supply unpublished information.

LOCALITIES

Locality numbers underlined indicate areas (but not individual mines) where silver was produced at a rate of 1 ounce silver per ton or more in 1964.

1. Fifteen Mile River. Refs. 7;20, pp. 23-25.
2. Spotted Fawn Gulch, Little Twelve Mile River. Refs. 7;12, pp. 15-17.
3. Upper Beaver River. Refs. 6, pp. 9-17; 7.
   McQuesten region (63 occurrences). Refs. 3, pp. 232-239; 7;8;9, pp. 4-6; 10;11;20, pp. 16-20.
4. Peso Silver Mines Ltd., Haggart and Secret Creeks area. Refs. 4, pp. 15, 16; 20, pp. 20-22
5. Keno Hill — Galena Hill area (50 occurrences). Refs. 2, pp. 51-77; 4, pp. 7-15; 20. pp. 7-16 (United Keno Hill Mines Ltd.)
6. Trombley Creek and Casino Creek, Dip Creek area. Refs. 3, p. 233; 4, pp. 22-24; 13, pp. 11-13; 14; 20, pp. 34, 35.
7. Tom group, MacMillan Pass. Refs. 3, p. 234; 20, pp. 47, 48; 27, p. 65.
8. Redstone River area. Refs. 5, pp. 35-40; 18; 21, pp. 34-37.
9. Vangorda area. Refs. 3, p. 234; 4, pp. 31, 32; 17; 20, pp. 36, 37.
10. Little Salmon Lake. Refs. 3, p. 234; 15, p. 9; 16; 20, pp. 38-40.
11. Nansen Creek. Refs. 4, pp. 26-28; 20, pp. 32-34.
12. Ketza River and McConnell River, Pelly Mountains. Refs. 3, p. 234; 4, pp. 40-42; 24, pp. 39, 40; 20, pp. 42, 43.
13. Boswell River. Ref. 25, pp. 23, 24.
14. Tintina Silver Mines Ltd., Ings River, Pelly Mountains. Refs. 3, p. 234; 21, pp. 26-29.
15. Norquest Joint Venture, Tyers River. Ref. 20, pp. 45, 46.
16. Prairie Chicken Creek. Refs. 18, p. 12; 19, p. 26.
17. McMillan property, near Quartz Lake. Ref. 27, p. 66.
18. Frances River Syndicate, near Tom Lake. Refs. 4, p. 44; 21, p. 33.
19. Wolf Lake — Rancheria River area. Refs. 3, pp. 233, 234; 4, pp. 47, 48; 21, p. 32; 22; 23, pp. 17, 18; 33, 1949 pp. 69-71; Can. Mining J. Dec./65, p. 12.
20. Wheaton district (6 occurrences). Refs. 3, p. 232; 26, pp. 123, 124, 126, 127, 135, 136.
21. Rainy Hollow and Three Guardsmen areas (6 occurrences). Ref. 28, pp. 40-60.
22. Windy Arm district (6 occurrences). Refs. 26, pp. 127-131; 33, 1929, p. 120.
23. Atlin-Ruffner, Fourth of July Creek, Atlin area. Ref. 186, pp. 71, 72.
24. Whitemoose Mountain and Hoboe Creek, Atlin area. Refs. 33, 1933, pp. 81-82; 182, pp. 92-96, 105, 106.
25. Taku River area (7 occurrences). Refs. 1, pp. 112-121; 2, pp. 7-16; 29, pp. 58-63, 70-72; 185, pp. 180-187, Northern Miner, Aug. 13/64 p. 2 (Tulsequah Chief, Big Bull).
26. McDame area. Ref. 30, pp. 109, 114-116, 119-122.
27. Johnson River, Iskut River area. Ref. 54, pp. 77, 78.
28. Cumberland group, Sulphurets Creek. Ref. 33, 1935B, pp. 11, 12.
29. Swannell River, Ingenika River area. (2 occurrences). Ref. 46, pp. 204-211.
30. Jupiter group, Lay Creek. Ref. 46, pp. 218-221.
31. Portland Canal district (66 occurrences). Refs. 1, pp. 121-124; 31, pp. 104-170. (Premier ◆) Indian ◇, Premier Border ◇, Dunwell ◆, Portland Canal Mining Co. (Lucky Seven)◇, Prosperity ◆, Porter-Idaho ◆.).
32. Kitsault River — Alice Arm — Illiance River region (25 occurrences). Refs. 31, pp. 52-87; 33, 1947, pp. 92-94 (Torbrit (Toric), Dolly Varden, North Star, Esperanza).
33. Kay group, Pinchi Fault zone. Ref. 47, p. 172.
34. Manson River — Germansen River area (5 occurrences). Ref. 47, pp. 173, 178-181.
35. Hazelton area (26 occurrences). Refs. 2, pp. 20-27; 33, 1950, pp. 82-100; 41, pp. 24-89; 45. (Silver Standard ◆, Silver Cup ◆, Rocher Déboulé ◇).
36. Whisky Creek, Cedarvale area. Ref. 39, p. 52.
37. Granby Peninsula, near Anyox. Refs. 31, p. 93; 32, p. 198; 33, 1933, pp. 45, 46 and 1938 B, pp. 4-7. (Granby Point).
38. Kitsumgallum Lake area (6 occurrences). Refs. 38; 39; 40.
39. Terrace area (25 occurrences). Refs. 38; 39; 40.
40. Hudson Bay Mountains, Smithers area (23 occurrences). Refs. 41, pp. 90-131; 42. (Henderson (Duthie)).
41. Driftwood area (11 occurrences). Refs. 36, pp. 107-110; 43, pp. 19-37; 44 (Cronin Babine).
42. Topley area. Refs. 36, pp. 149-155; 44.
43. Grouse Mountain and Mineral Hill. Refs. 33, 1951, pp. 113-117; 36, pp. 115-117; 44.
44. Hunter Mountain and Howson Basin. Refs. 36, pp. 118-120; 42.
45. Bob Creek — Buck River — Morice Mountain area. Refs. 36, pp. 121-125; 44.
46. Babine Lake, south (2 occurrences). Ref. 47, pp. 174-176.
47. Averil Creek, Fraser River. Refs. 33, 1935C, pp. 31, 32; 48, p. 106; 50.
48. Mount Sweeney and Swing Peak (2 occurrences). Ref. 35, pp. 84-89. (Emerald Glacier).
49. Whitesail Lake area (7 occurrences). Refs. 33, 1926, p. 150; 35, pp. 89-95, 98.
50. Lily mine, Ikeda Point. Refs. 32, p. 200; 33, 1913, p. 100; 34, pp. 76, 77.
51. Scarn group, Copper Creek. Ref. 33, 1960, pp. 17-19.
52. Spanish Lake area. Ref. 33, 1947, pp. 123-128.
53. Tatlayoko Lake. Refs. 33, 1935F, pp. 29-35; 49, pp. 70-72.
54. H.P.H. property, Nahwitti Lake. Ref. 33, 1936F, pp. 47-52.
55. Quatsino area. Refs. 32, p. 219; 33, 1953, p. 167 and 1955, p. 76; 52, pp. 122-125 (Yreka).
56. Doratha Morton mine, Phillips Arm. Refs. 32, p. 194; 51, pp. 11-14.
57. Muchalat Arm, Nootka Sound (3 occurrences). Refs. 33, 1946, pp. 179-182; 184, pp. 18-20.
58. Domineer, Mount Washington. Refs. 33, 1963, pp. 103-105; Can. Mining J. Dec/64, p. 9.
59. Western Mines Ltd., Buttle Lake. Refs. 33, 1963, pp. 105-109; 53, pp. 66-71.
60. Twin "J" mine, Mount Sicker. Ref. 1, pp. 88-93.
61. Texada Island. Refs. 32, pp. 193, 203, 205; 33, 1944, pp. 162-174; 51, p. 15 (Marble Bay, Cornell, Little Billie).
62. Tenquille Creek, Birkenhead River area. Refs. 33, 1937F, pp. 15-18; 55, pp. 76-99.
63. Duffey Lake. Ref. 33, 1935F, pp. 9-12.
64. Bridge River — Cadwallader Creek area (8 occurrences). Refs. 33, 1954, pp. 104-106; 56, pp. 67, 68; 57, pp. 18, 19, 22, 25, 28.
65. Diamond S group, Criss Creek. Ref. 62, pp. 79, 80.
66. Queen Bess, Blackpool, North Thompson River. Refs. 32, p. 209; 33, 1951, pp. 125-128; 58, pp. 140-143.
67. North Barrière River area. Refs. 33, 1927C, pp. 187-191 and 1936D, pp. 36-38 and 1950 pp. 111, 112.
68. Adams Lake area. (7 occurrences). Refs. 32, p. 200; 33, 1936D, pp. 32-36, 39-43 and 1949, pp. 132-137 and 1953, pp. 102, 103; 59, pp. 103, 104; 60; Western Miner, Dec/64, p. 20. (Homestake (Skwaam Bay)).
69. Revelstoke area (12 occurrences). Refs. 33, 1935E, pp. 19-21 and 1918, p. 157 and 1922, pp. 215-217; 90, pp. 120-130; 91, pp. 165-191; 92; 188.
70. Monarch and Kicking Horse mine, Field area. Refs. 1, pp. 231-237; 2, pp. 143-152; 37, pp. 215-222, 225-229.
71. Vermont and McMurdo Creeks, Spillimacheen River area. Refs. 33, 1936E, pp. 31-42; 88.
72. Lardeau area. Refs. 33, 1918, pp. 162-166 and 1935E, pp. 21-24 and 1956 pp. 99-105; 86; 89. (True Fissure, Nettie L., Silver Cup, Spider).
73. Frances Creek (4 occurrences). Refs. 33, 1915, pp. 98-100 and 1922, pp. 183, 184; 88.
74. Toby Creek — Invermere area (29 occurrences). Refs. 33, 1949, pp. 196-199 and 1959, pp. 74-89; 87; 88. (Paradise, Mineral King).
75. Silver Key group, Doctor Creek. Refs. 33, 1935E, p. 11; 82.
76. Duncan Lake area (7 occurrences). Refs. 33, 1918, p. 162 and 1925, pp. 235, 236; 86, pp. 50, 51, 103-105; 187.
77. Cariboo Creek — Canyon Creek area, Lower Arrow Lake (5 occurrences). Refs. 33, 1923, pp. 234, 235, 1920, p. 135, 1929, pp. 342, 343, 1930, p. 262 and 1935E, pp. 24, 25.
78. Vernon area (10 occurrences). Ref. 61.
79. Consolidated Nicola Goldfields, Stump Lake. Refs. 1, pp. 183-186; 62, pp. 45-58.
80. Swakum Mountain (3 occurrences). Ref. 62, pp. 59-65.
81. Silver Queen group, Stein River. Refs. 33, 1957, p. 23; Northern Miner, Nov. 29/62, p. 99.
82. Renfrew group, Siwash Creek. Ref. 63, pp. 108, 109.
83. Lightning Peak (7 occurrences). Refs. 71, pp. 79-115; 72.
84. Slocan region. Refs. 1, pp. 200-205; 2, pp. 88-95; 75; 85. (A large number of the more than 200 properties that shipped ore from the region produced important amounts of silver).
85. Ainsworth-Riondel area. Refs. 1, pp. 216-218; 2, pp. 95-104; 33, 1951, pp. 144-161 and 1952, pp. 156-169; 76, pp. 55, 56, 77-82; 83; 84. (Bluebell ◇, Florence ◇, Spokane-Trinket ◆, Maestro ◇, Banker ◇, Yale Lead and Zinc (Highlander, etc.) ◇, Highland ◇, No. 1 ◆, Krao ◆, Silver Hoard ◆).
86. Rose Pass — Crawford Creek area (2 occurrences). Refs. 32, p. 213; 76, pp. 73-75. (Silver Hill).
87. Kimberley. Refs. 1, pp. 219-230; 76, pp. 55, 61; 81; 185, pp. 142-174. (Sullivan, Stemwinder, North Star).
88. Wild Horse River — Bull River area (14 occurrences). Refs. 2, pp. 153-158; 33, 1925, p. 229 and 1951, pp. 185-190; 79; 80, (Estella, Kootenay King).
89. Sanca Creek — La France Creek area. Refs. 32, p. 202; 33, 1926, pp. 283-286 and 1956, p. 87; 76, pp. 66, 67, 75, 76.
90. Nelson-Salmo River region. Refs. 2, pp. 104-110, 124-132; 33, 1937E, pp. 8-27; 75; 76, pp. 62-66; 77. (Eureka ◇, Silver King ◆, California ◇, Perrier ◇, Protection (Goodenough) ◇, Ymir ◇, Willcock (Ymir Wilcox) ◇, Blackcock ◇, Dundee ◇, Yankee Girl ◇, Wesko (Ymir Centre Star) ◇, Hunter V-Double Standard ◇, Howard (Durango) ◇, Clubline-Comstock ◇, Keystone ◇, Arlington ◇, HB ◇, Nugget ◇, Bayonne ◇, Spokane ◇).
91. Union mine, Franklin camp. Refs. 72; 73, pp. 10, 11.
92. Carmi mine, Carmi camp. Refs. 65, pp. 32-34; 67; 70.
93. Wallace Mountain, Beaverdell area (16 occurrences). Refs. 2, pp. 136-141; 65, pp. 29-34; 67; 68; 69; 70. (Highland-Bell, Sally and Robb Roy, Wellington).
94. Iota, Islay B., Stemwinder Mountain. Refs. 32, p. 201; 33, 1947, pp. 146, 147.
95. Summit camp (9 occurrences). 33, 1952, pp. 119-134; 180, pp. 100-107.
96. Eureka-Victoria mines, Silver Peak. Ref. 179, pp. 152-160.
97. Skagit River area (10 occurrences). Refs. 33, 1938F, pp. 3-29; 51, pp. 23-25; 64, pp. 73, 74.
98. Horn Silver mine, Richter Mountain. Refs. 33, 1960, pp. 58-60; 65, p. 26; 67; 70.
99. Fairview camp (7 occurrences). Refs. 65, pp. 15-21; 66; 67; 70; 73, pp. 17, 18. (Morning Star (Fairview)).
100. Greenwood-Phoenix-Grand Forks region. Refs. 2, pp. 132-136; 72; 73, pp. 11-14; 74, pp. 684-694. (B.C. ◇, Providence ◆, Skylark ◆, King Solomon ◇, Jewel ◇, Amandy ◇, No. 7 ◇, City of Paris ◇, Golden Eagle ◇, Hummingbird ◇).
101. Paulson area (5 occurrences). Refs. 33, 1953, pp. 111-112; 72; 73, pp. 9, 10. (Berlin and Inland Empire).
102. Rossland camp. Refs. 1, pp. 189-196; 75. (Iron Mask, War Eagle, IXL, Cliff and Cons. St. Elmo).
103. Moyie (6 occurrences). Refs. 32, pp. 188, 205, 211, 214; 78. (St. Eugene, Aurora, Society Girl).
104. Port Radium area, Great Bear Lake (6 occurrences). Refs. 1, pp. 259-268; 2, pp. 177-189; 93, pp. 60, 86, 87, 140-148, 179-184, 279; 94, pp. 55-92; 95, pp. 190, 196-198; 96, pp. 35-38; 97. (Eldorado, Contact Lake, Echo Bay).
105. Camsell River Silver Mines Ltd. Refs. 93, pp. 91-93; 97.
106. Indian Mountain Lake. Ref. Northern Miner, May 14/64, p. 24.
107. François River niccolite deposit. Ref. 98, pp. 60, 61.
108. Goldfields area (4 occurrences). Refs. 95, pp. 170-173; 99, pp. 30, 31; 100; 101, pp. 92-94, 123.
109. Hanson Lake. Ref. 101, p. 121.
110. Flin Flon area (4 occurrences). Refs. 1, pp. 295-301; 2, pp. 258-262; 101, pp. 102, 103; 102; 103, pp. 64-78. (Flin Flon, Mandy, Schist Lake).
111. Dominion claims, Gurney Gold mine, Copper Lake. Ref. 181, pp. 49, 50; 183, pp. 5-7, 25.
112. Snow Lake area. Ref. 103. pp. 85-89. (Chisel Lake).
113. Echimamish River. Refs. 104, pp. 15, 16, 27, 28, 32-34; 105.
114. Favourable Lake. Refs. 1, pp. 365-368; 106, pp. 68-78, 83; 107, pp. 79-92. Northern Miner, Jan. 21/65, p. 1, and Feb. 4/65, p. 20, (Berens River).
115. Huronian mine, Moss township. Ref. 112, pp. 109-127.
    Thunder Bay Silver region (36 occurrences). Ref. 113.
116. Silver Mountain mine.
117. Rabbit Mountain area (Porcupine, Badger, Beaver, Rabbit Mountain).
118. Port Arthur area (Shuniah, Thunder Bay, Silver Harbour, 3A, Beck).
119. Silver Islet mine.
120. Pays Plat River. Ref. 114, p. 267.
121. Onaman Lake area (3 occurrences). Refs. 109, pp. 90-92, 98, 99; 110, pp. 82, 84, 85; 111, p. 24.
122. Township 80 (3 occurrences). Refs. 111, pp. 43, 44, 57, 61; 115, p. 5.
123. Manitouwadge area (4 occurrences). Refs. 111, pp. 49, 50, 55, 56, 59, 65; 116. (Geco, Willroy).
124. Kozak Lake, Twp. 28, R. 26. Refs. 118, pp. 25, 26; 122.
125. Michipicoten Island. Ref. 117, pp. 506, 507, 703, 704, 737.
126. Jarvis and Duncan townships. Ref. 111, p. 78. (Jardun).
127. Kerr claim, Otter township. Ref. 120, p. 196.
128. Porter Township. Ref. 189.
129. Errington and Vermilion mines, Sudbury Basin. Ref. 111, pp. 85, 86.
130. Turner township. Ref. 111, p. 86.
131. White Reserve mine, Maple Mountain area. Refs. 127, p. 17; 135, p. 106.
132. Gowganda — Shiningtree area (numerous occurrences). Refs. 2, pp. 388-392; 108; 120, pp. 165-194; 127, pp. 15-17; 133; 135; 136; 137, pp. 1-78; 138, pp. 87-99; 139, p. 49; 140. (Siscoe Metals of Ontario Ltd. (Miller Lake — O'Brien), McIntyre Porcupine Mines Ltd. (Castle-Trethewey), Morrison, Walsh, Mann, Reeve-Dobbie).
133. Texas Gulf Sulphur Co., Kidd township. Ref. 141.
134. Area Mines Ltd., Roquemaure township, Abitibi Lake. Ref. Northern Miner, Sept. 21/61, pp. 1, 2.
135. Normetal mine. Refs. 1, pp. 683-692; 146.
136. Matagami Lake area. Refs. 147, pp. 740-757; 148, pp. 389-396; 192. (Mattagami Lake Mines Ltd., Orchan Mines Ltd.).
137. Richmond Gulf and Little Whale River. Ref. 119, p. 131.
138. Prud'homme #1 and La Pointe #3 deposits, New Quebec. Ref. 191.
139. Lesueur township. Refs. 149, pp. 17-21; 150. (Coniagas).
140. New Formaque Mines Ltd., Dalquier township. Ref. 145, pp. 27, 28.
141. Barraute and Fiedmont townships (5 occurrences). Refs. 142, pp. 3, 4, 17; 193, p. 10; 194, pp. 10, 11; 195, p. 3.
142. Lake Dufault mine and Vauze mine, Noranda area. Refs. 142, pp. 14, 15; 143; 144, pp. 409-412.
143. St. Pierre property, Morrisette township. Ref. 111, p. 32.
144. Auld and Cane townships, and the Elk Lake area (numerous occurrences). Refs. 108; 120, pp. 155-163; 127, p. 16; 133, pp. 47-51; 134; 135, pp. 107-109; Northern Miner, Dec. 19/63, p. 6.
145. Cobalt area. Refs. 2, pp. 377-388; 120; 126; 127; 128, pp. 101-103; 129; 130; 131; 132; 136. (More than 50 mines produced silver in the area).
146. Casey Cobalt mine, Casey and Harris townships. Refs. 120, pp. 145-148; 127, p. 16.
147. Bourlamaque township (2 occurrences). Ref. 142, p. 7. (Golden Manitou mine).
148. Fabre township. Refs. 124, pp. 41a-43; 125, p. 154.
149. South Lorrain township (numerous occurrences). Refs. 120, pp. 134-144; 126, pp. 189-238; 127, pp. 13-15. (Keeley, Frontier, Nipissing, Wettlaufer).
150. Strathy township. Ref. 121, pp. 26, 27, 35, 36, 41.
151. Rabbit Lake and McDonald Lake. Refs. 120, pp. 129, 130; 123, pp. 31-34.
152. Katherine mine, Lake township. Ref. 119, pp. 157, 158.
153. Barrie township. Ref. 152, p. 67.
154. New Calumet Mines Ltd., Calumet Island. Refs. 142, p. 18; 151.
155. Tétreault mine, Montauban township. Ref. 142, p. 25.
156. Ascot township (5 occurrences). Refs. 1, pp. 902-909; 2, pp. 466-469; 142, p. 2; 153, pp. 206, 207, 225-234, 265, 266; 154, pp. 123, 124, 127, 130. (Moulton Hill, Suffield).
157. Risborough and Marlow townships. (2 occurrences). Refs. 155, pp. 81, 82; 156, pp. 15, 16.
158. Marsoui River area (6 occurrences). Refs. 142, p. 6; 155, pp. 11-13, 32. (Candego).
159. Restigouche Mining Corp., Third Portage Lake. Ref. Northern Miner, Nov. 18/65, p. 13.
160. Tetagouche — Millstream — Nigadoo area (6 occurrences). Refs. 157, pp. 16-20; 158; 159; pp. 38, 39; 160, pp. 9, 10; 177, pp. 78-83; 178, pp. 84-89; 196, p. 101; Northern Miner, Aug. 8/63, p. 19, March 9/64, p. 18, and Sept. 10/64, p. 12.
161. Bathurst area. Refs. 2, pp. 485-492; 157; 158; 160; 161; 162, pp. 88-98; 177, pp. 78-83; 178, pp. 84-89; Can. Mining J., Nov/65, p. 10. (Brunswick No. 6, Brunswick No. 12).
162. Heath Steele Mines Ltd. Refs. 158; 160, pp. 13, 14; 162, pp. 88-98; 163, pp. 539-556.
163. Musquash Harbour (2 occurrences). Refs. 119, pp. 65, 66; 164, pp. 93, 94.
164. New Horton area. Ref. 165. (generally less than 1 oz. Ag per ton).
165. Dorchester copper deposit. Refs. 166; 167. (generally less than 1 oz. Ag per ton).
166. Tatamagouche area. Refs. 168: 169, pp. 309-324. (generally less than 1 oz. Ag per ton).
167. Magnet Cove Barium Corp'n., Walton. Ref. 170.
168. Mindamar mine, Stirling. Refs. 2, pp. 495-502; 171, pp. 81-87.
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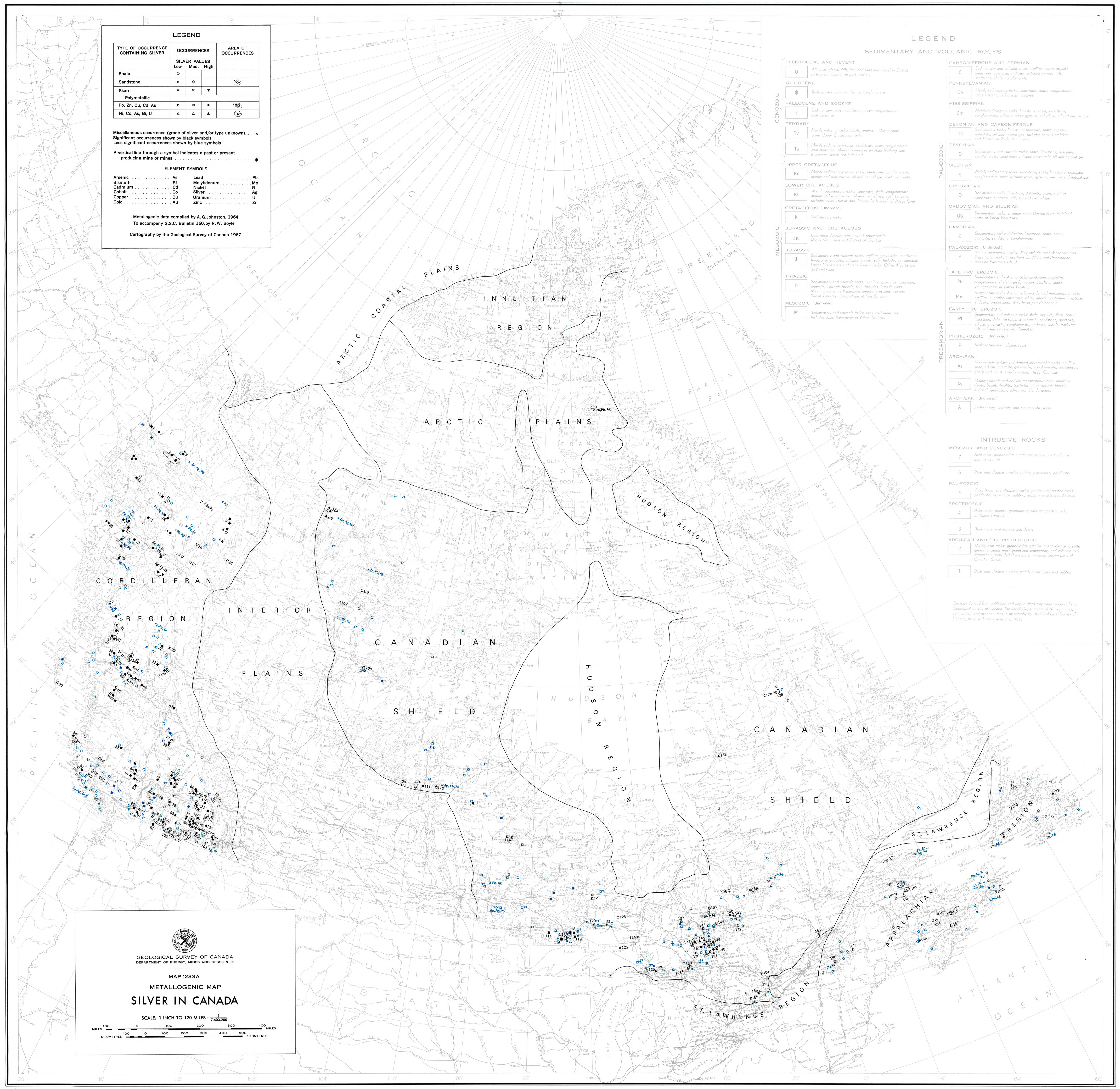

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