1899 Annual Report Mines of BC

GEOLOGICAL SURVEY OF CANADA

REPORTS AND MAPS

OF

INVESTIGATIONS AND SURVEYS

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NICKEL AND COBALT.

Estimation of, in certain ores from the undermentioned localities in the provinces of Quebec, Ontario, and British Columbia and the district of Ungava. Continued from page 41R of the Annual Report of this Survey (vol. XI.), for 1898.

1.—From a small island off the west point of Kogaluk river, east coast of Hudson bay, Ungava district.

A massive pyrrhotite, through which was distributed a large amount of white cryptocrystalline quartz. Weight of sample, two pounds eleven ounces. A fair average of this was found, by Mr. R. A. A. Johnston, to contain:

Nickel, with some cobalt.....	0·08 per cent.

The gangue constituted 48·00 per cent, by weight, of the whole. The metalliferous portion of the ore contained, therefore, 0·15 per cent of nickel, with some cobalt.

2.—From the fourteenth lot of the fifth range of the township of Masham, Ottawa county, province of Quebec.

A massive pyrite, through which was distributed a few particles of copper-pyrites, in association with a somewhat large proportion of gangue—consisting of a fine-grained granite. The pyrite, freed from all gangue, was found by Mr. F. G. Wait to contain:

Cobalt, with a little nickel.	0·28 per cent.

3.—From the township of Matawatchan, Renfrew county, province of Ontario.

A compact, massive pyrrhotite, with which was associated a small quantity of gangue—composed of white translucent quartz and hornblendic-gneiss. The pyrrhotite, freed from all gangue, was found by Mr. Wait to contain:

Nickel.....	0·29 per cent.
Cobalt.....	trace.

4.—From the north-east quarter section of block 1, on the west side of Texada island, province of British Columbia. Examined for Mr. Alfred Raper.

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A very fine-granular, massive pyrrhotite. It was found by Mr. Johnston to contain :

Nickel..... ..... faint traces.

5.—From near Kyuquot, west coast of Vancouver island, province of British Columbia. Examined for Mr. G. H. Franklin.

A granular, massive pyrrhotite, with which was associated a very little copper-pyrites and a small quantity of quartzose gangue. Mr. Wait found it to contain :

Nickel .... trace.

GOLD AND SILVER ASSAYS.

These were all conducted by Mr. R. A. A. Johnston.

As explanatory of the numerous instances in which no trace of either gold or silver was found, it may be mentioned that in nearly all these cases the assay was carried out by special request.

Province of New Brunswick.

1.—From one of several large quartz veins found on Biggar ridge, in the parish of Aberdeen, Carleton county.

An association of a dark greenish-gray felspathic rock with a white to reddish coloured quartz, carrying small quantities of copper-pyrites and a little galena and pyrrhotite. The sample consisting of five fragments, weighed nine pounds seven ounces. It was found to contain :

Gold.....none.
Silver.....0·583 of an ounce to the ton of 2,000 lbs.

2.—From Beaufort, Carleton county. Examined for Mr. George Bailey.

An association of white crystalline quartz with some greenish-gray chloritic mineral matter, in parts coated with green carbonate of copper, carrying small quantities of iron pyrites, copper-pyrites and galena. The sample, consisting of eight fragments, weighed twelve ounces. Assays gave :

Gold.....trace.
Silver... .....0·583 of an ounce to the ton of 2,000 lbs.

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The districts contributing most largely to the output in 1899 were, Trail creek, or Rossland, with nearly 74 per cent of the whole, and Nelson with about 18 per cent both in West Kootenay, the balance coming chiefly from the coast districts. COPPER.

In the Trail Creek mining division, in which it must be remembered the ores are mined more especially for their gold than their copper values, there was mined during the year 172,665 tons of ore, the copper contents of which amounted to 5,693,889 lbs., or an average of 1·65 per cent. About 94 per cent of the shipments of this division came from the Le Roi, War Eagle, and Centre Star mines alone.

In the Nelson division there was mined 58,302 tons of ore of which the copper contents amounted to 1,370,513 lbs., or an average percentage of 1·17.

The output of copper from the coast districts is yet small and is chiefly the product of mines in Texada island, on Mt. Sicker on the east coast, and near Alberni on the west coast of Vancouver Island.

GRAPHITE.

GRAPHITE.

According to the returns received from various operators the production of graphite in 1899 was 1,310 tons valued at $24,179.

This is the largest production reported in any one year and greater than the value of the output of 1898 by $10,481.

The greater part of the product was crude graphite shipped from the Black Donald mine, Renfrew county, Ontario, by the Ontario Graphite Company of Ottawa. At Buckingham no mining was reported but the North American Graphite Company shipped some prepared graphite from stock in hand.

Some new work was undertaken by the Keystone Graphite Company of Scranton, Pennsylvania, on lot 10 A, range V. of Grenville township, Argenteuil county. According to Mr. H. P. Brumell, late manager, some shipments of fine lump ore were made to New Jersey and Chicago.

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