

Smithfield.

Poole's
analyses.

Silver.—Argentiferous galena is found in small quantity in many auriferous quartz-veins, especially when these are in close proximity to granite masses, as at Goldenville, Crow's Nest and Salmon River; and the gold usually contains a small percentage of silver. But the only place where galena was found in large quantity is at Smithfield, on the south bank of the West River of St. Mary's, two miles west of Glenelg, where it occurs in small veins cutting the narrow belt of quartzite left between the granite of the south-side of the river and the overlying Carboniferous conglomerate. Mr. Henry S. Poole* gives the following results of two analyses of this ore:—

	No. 1	No. 2
Lead	86.12	86.02
†Silver	.044	.049
Iron	.07	.02
Copper	.03	.03
Zinc	absent.	absent.
Arsenic	mere traces.	mere traces.
Antimony	mere traces.	mere traces.
Sulphur	13.32	13.30
Lime	trace.	trace.
Magnesia	trace.	.18
Silica (sand)	.426	.402
Moisture	trace.	trace.
†Equal to per ton	100.00	100.00
	15.75 oz.	17.75 oz.

Mr. Howard Clark prospected this locality some years ago, and took out several tons of the ore; but nothing has been done since 1884. In various places along the northern boundary of the Lower Cambrian rocks between Melrose and Smithfield, the crushed slate already referred to has also been mined, but only minute traces of galena have so far been discovered.

Canso.

Copper Ore.—Copper pyrites is generally found associated with arsenical pyrites and other minerals in the auriferous lodes as, for example, on the south side of the Canso road, half a mile east of its junction with the Whitehaven road, on the farm of Mr. John Reynolds. Here it occurs in a vein composed of quartz and granite and already mentioned in the description of the first granite area. Both the quartz and granite, which are intimately mixed, contain yellow and horse-flesh copper ore, iron-pyrites, mispickel and green clay. It was opened in 1881 and 1892 by means of cross trenches, but abandoned.

* Report of the Department of Mines of Nova Scotia for 1875, p. 63.