

Magnesia (Mg. O.)	trace.
Carbonic Acid (C. O. 2)	nil.
Manganese Oxide	0.55
Moisture and combined water	1.21
	100.22

Bog-iron ore was met with in considerable quantity on the high land near Patrick's Brook. It forms a thin layer underneath the peaty coating of the marshy grounds, and is well seen in some of the side-drains along the line where the peat has been removed. This class of ore, when pretty rich in iron and free from earthy impurities, is a most valuable one. In Canada the pig-iron produced therefrom is largely used in the manufacture of locomotive car wheels, for which purpose it is admirably adapted.

Iron Pyrites.

The well known chemical uses of this ore and its adaptability to the manufacture of sulphuric acid need not be entered upon here. It is one of the most common and abundant mineral substances in this country. Though no actual deposits of an extensive character were met with the past season, this mineral was found pretty generally disseminated in all classes of rock, usually in the form of fine crystals impregnating the quartz veins, diorites, &c. Several very ferruginous slate bands containing lumps and strings of radiated pyrites were observed along the line, as at Shoal Harbor, Trinity Bay, on Random Island, near Suley's Brook, at Gander Lake, and on the Exploits River. Some of the slates on Gander Lake were so filled with this mineral that it seemed almost sufficiently abundant to make it available for mining purposes. Possibly a close search in this neighborhood would reveal even more extensive deposits of the mineral in a concentrated form, comparatively free from rock material, such as that occurring in the well known Pilley's Island pyrites mine. The same remarks may be applied to the Exploits Valley, where the black slates are frequently well charged with the ore.

Manganese.

A very impure, earthy, brown-colored manganese was seen,