

not examined. It was reported by the foreman to be boarded up, and all work had been suspended for the time at this point, but it was stated by the management that the drift had been run for about 40 feet, and had cut diagonally through about 18 feet of ore mixed with country rock. Similar drifts had been set off at the 200 and 300 foot levels simultaneously, that at the 200 foot level being now in about 18 feet, and that at the 300 foot not so far. In neither of these drifts, nor in the shaft, was any ore visible, the rock passed through being chiefly diorite, though, of course, these drifts had not been driven far enough to strike the ore-body, should it continue to this depth, at the surface dip. The equipment consists of one drill, Rand air compressor, and a small power hoist, both operated by steam."

Following up the Gordon river for about three-quarters of a mile, several strippings and trenches, some of them showing magnetite, were noticed on both banks. The development work done has not, so far, proved the ore to be of any extent; on the contrary, the workings show a number of small discontinuous bodies situated roughly along the contact line of the limestone and the igneous rocks.

The *Baden-Powell and Little Bobs* mineral claims are situated farther up the Gordon valley, about seven miles from salt water. An outcrop of magnetite is found on the flank of a ridge, along which it can be traced for 350 feet. In several places on the ridge a sharp contact between the ore and an igneous rock was observed. About 90 feet below this contact a tunnel 114 feet long had been run directly into the hill, showing magnetite in its full length; with the exception of a diorite dike 8 feet wide, about 30 feet from the mouth.

An average sample of the ore taken along the tunnel gave the following analysis:—¹

	Per cent.
Insoluble matter.	8.88
Iron.	53.30
Sulphur.	2.75
Phosphorus.	0.013

About 35 or 40 feet below this tunnel, another tunnel had been run in the same direction for 114 feet into the hill, going through limestone and diorite. The last few feet, however, show magnetite, dipping in towards the hill.

East of this main outcrop, and close to the trail leading down to the main trail up the Gordon valley, several strippings had exposed magnetites, but did not give sufficient information in regard to the extent of the ore-bodies.

The *Sirdar* mineral claim is situated two miles farther up the valley, and is very similar to the *Baden-Powell and Little Bobs*. The magnetite crops here along the face and brow of a ridge for about 160 feet.

About 50 feet below the top of the ridge a tunnel had been run 103 feet into

¹ All analyses given in this report have been made by Mr. H. Leverin, chemist to the Mines Branch.