

Company, of the same State. The claims were later Crown-granted as lots numbered 450, 457, 458, 459, 474, 392, 605, and 606, and at present are assessed to the following owners:—

Lot No. 450, *Crown Prince* claim, to the estate of the late Homer Swaney.

Lot No. 457, *Victoria* claim, to the estate of the late W. H. Flett.

Lot No. 458, *Oh! Ireland* claim, to the estate of the late W. H. Flett.

Lot No. 459, *Bald Eagle* claim, to the Tacoma Steel Company.

Lot No. 474, *Iron Chief* claim, to the Tacoma Steel Company.

Lot No. 392, *Standard No. 6* claim, to the Tacoma Steel Company.

Lot No. 605, *Lord of the Isles No. 4* claim, to the Tacoma Steel Company.

Lot No. 606, *Emily R.* claim, to the Tacoma Steel Company.

The most important deposits of magnetite occur on the *Crown Prince*, *Lord of the Isles*, and *Bald Eagle* mineral claims, where the most development-work has been done. These occurrences belong to the contact-metamorphic type, in which the ore lies between crystalline limestone and hornblende igneous rock coloured in varying tints of green.

This mineral claim is on the east slope of the Broughton range of mountains, overlooking Edlingham Inlet, at an elevation of about 1,500 feet and about two miles and a half by trail from the beach of Sechart channel at Anderson's camp, but from deep water in Canoe pass the distance is considerably less. The most extensive outcroppings of magnetite occur in a prominent ridge where wide bands of magnetite are exposed alternating with bodies of green igneous rock, much sheared, altered, and quite schistose near the magnetite. The strike of the bands of magnetite is south-eastward, the dip being 45 degrees southward.

The face of the ridge is stripped about 200 feet long by 70 feet high up the slope about 45 degrees, exposing magnetite mixed with country-rock in the banded structure for 70 feet along the ridge, then country-rock for 100 feet, then magnetite for 31 feet.

Near the base of the ridge an open-cut approach to an adit has been made through one outcrop of magnetite for about 31 feet, but the portal of the adit is in the green altered igneous rock; this was driven through about 50 feet, where a narrow seam of calcite occurs followed by a body about 10 feet wide of arsenical pyrite mixed with iron pyrite and magnetite, which changes to a mixture of magnetite and green country-rock, then to solid magnetite, through which the adit is driven nearly 20 feet to the face, and was still in ore.

An average sample across the face assayed:—

	Per Cent.
Iron	56.6
Sulphur	0.72
Phosphorus	Nil.
Silica	19.0

A branch from the adit starting about 50 feet from the portal, was driven to the left for 72 feet; this exposes magnetite for 28 feet adjoining the calcite 5 feet from the junction, then continues through dark-green hornblende country-rock to the face. The last 34 feet of the branch adit is apparently under the magnetite exposed in the main adit, as the dip of that body is 45 degrees to the southward, or to the right of the opening.

From the condition of the workings, as seen by the writer, only a very rough guess can be made as to the tonnage of ore available. Of *actual* ore the tonnage may be estimated at 75,000 tons, while the tonnage of *possible* ore may be placed at an additional 200,000 tons.