

R. H. SERAPHIM ENGINEERING LIMITED
GEOLOGICAL ENGINEERING

316 - 470 GRANVILLE STREET
VANCOUVER 2, B.C.

HAYWIRE NICKEL

ALICE ARM

SUMMARY AND CONCLUSIONS

This prospect has a mineralized outcrop approximately 50 ft long, which is a small north-facing-bluff twenty to thirty feet high. Precise evidence of the strike and dip of the mineralized gabbro which forms this outcrop is not readily determinable. The outcrop contains abundant iron oxide, and a little pyrrhotite and chalcopryrite, together with 'niggerheads' of fresh gabbro one to two feet in diameter. Specimens of nearly massive sulfide are reported to contain 2.12% nickel and 1.58% copper.

Two short drill holes under or near the showing intersected only ten feet of gabbro with a trace of pyrrhotite and chalcopryrite. The limited size, and the low grade of the mineralization do not invite further exploration.

INTRODUCTION

The property was optioned by the Joanne B.C. Syndicate, controlled by A. Cockshutt and T. McQuillan, from Dwight Collison of Alice Arm. The writer made a brief examination of the prospect on May 22 and 23, 1971, primarily to direct a small drill program. The core from the two drill holes was shipped to Vancouver and examined upon completion of the program.

HISTORY

The property was discovered many years ago during the construction of a telephone line to Stewart from Alice Arm. It was optioned from Dwight Collison in 1965 by Falconbridge. Falconbridge completed geophysical and geochemical surveys, and subsequently dropped the option. A small amount of hand-trenching is the only other work known on the deposit prior to the subject drill program.

LOCATION

The mineralized outcrop is only 500 feet from the beach, and ten miles from the settlement of Alice Arm. The immediate area is very brushy, but otherwise not difficult to traverse.

GEOLOGY

The area contains Cretaceous 'Hazelton' sediments near the main contact with the Coast Range granitic intrusives. A 10 to 20 foot wide feldspar porphyry dyke outcrops on the beach, and similar outcrops are found in the small creek. The gabbro outcrop which carries the pyrrhotite-chalcopryrite mineralization is the only known mineralized outcrop in the area, but other unmineralized gabbro outcrops are found further to the west.

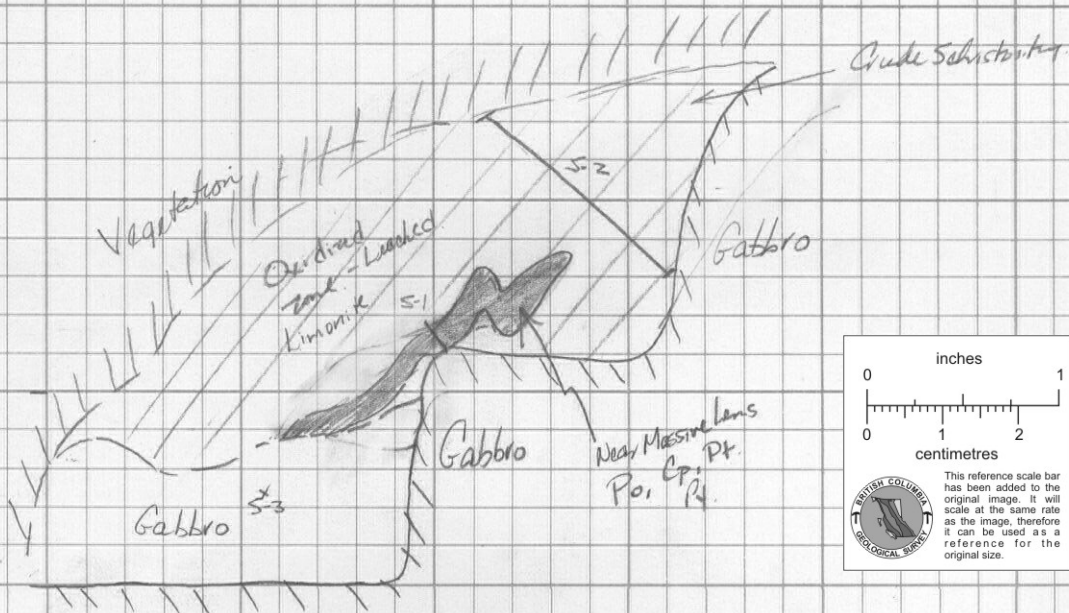
The width and grade of the nickel-copper mineralization are difficult to determine because of oxidation and lack of outcrop. However, the two drill holes were drilled approximately across the general strike and against the dip of the argillite wall rocks. The strike appears to be more westerly than expected, and the dip is to the north. The one drill hole under the showing cut only 10 feet of gabbro with no visible sulfides. The hole further to the west cut only 13 feet of gabbro, in which two segregations of pyrrhotite-chalcopryrite, each $\frac{1}{2}$ inch or less in diameter, were observed. The gabbro is distinctly orbicular.

June 21, 1971.

R.H. Seraphim
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HAYWIRE GROUP - 4 Claims - Opposite Hans Hill - Alice Ar.

Open Cut - Section Looking 130° Scale 1" = 5 ft.



Medium-grained Gabbro - dark gray - irreg. str. white kalspar - 55% white & proximate
- fairly fresh rock with "H" laminated blks of po surrounded by cp.
Massive rock #1 C-65-654

Small lens of near massive sulfides in central portion of cut
- no more than 15" wide - generally 12" - best exposed on east side of cut
Contains Po, Cp, Pt, Pyrite. #2 C-65-655

Limonite capping to soil cover - leached zone - friable with irreg.
lenses solid rock - gabbro dtd in this zone.

Massive sulfide may be filling shear zone @ 130/50 N
on edges of gabbro sill. Sharp break between MS + gabbro beneath.
Soft limonite stain zone eroded to form southern creek valley.

Samples - ① 1 ft. Channel - Massive Sulfide 2156
② Limonite zone - Chips - 6 ft. width. 2157
③ Grab Sample of Gabbro. 2158

150 ft. to south on small ridge - Banded Argillaceous Gneiss
Banding 140 190

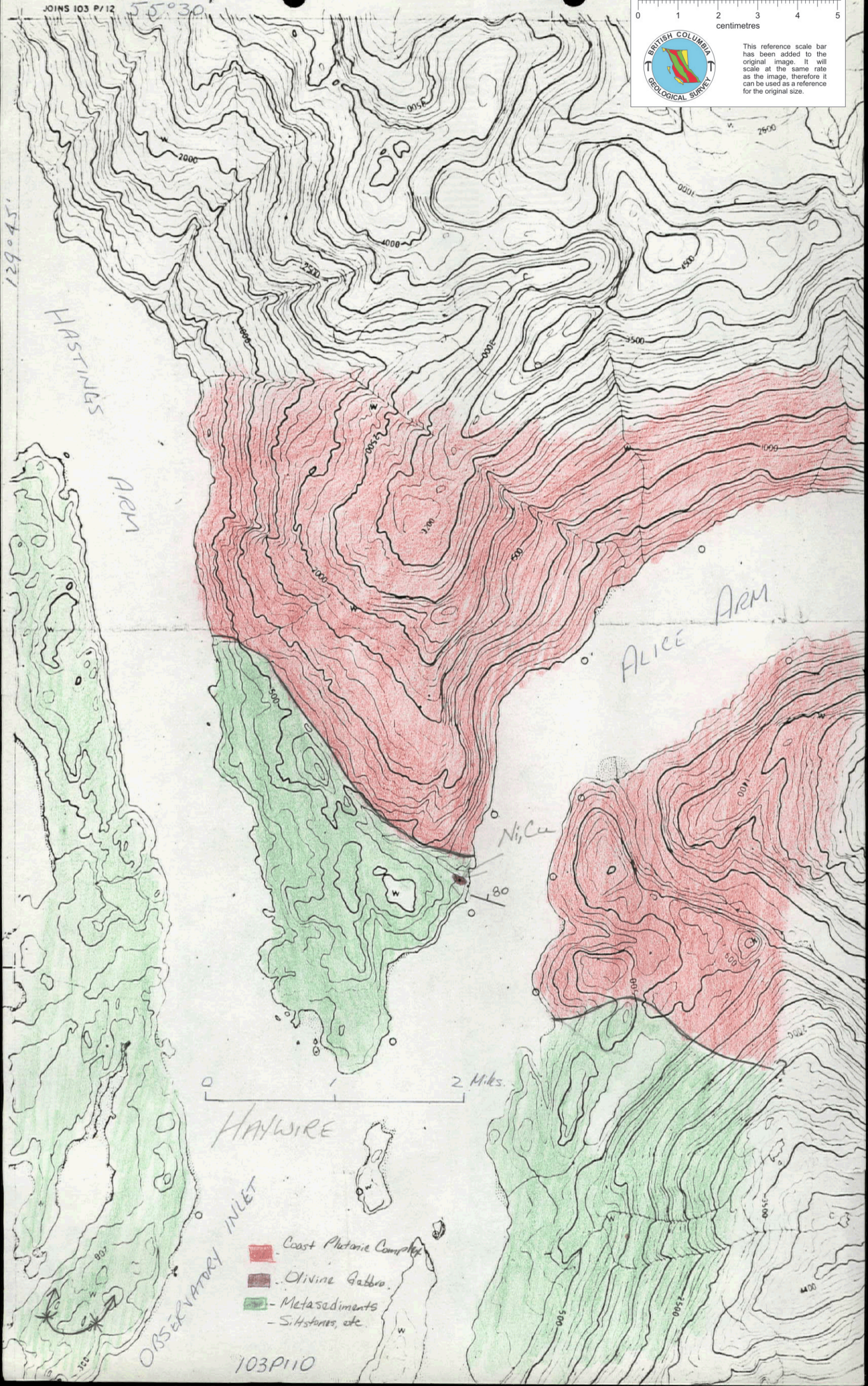
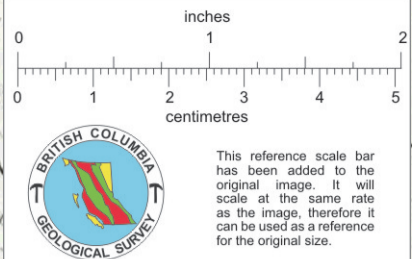
Limit or slope of gabbro unknown - not on N side of ch
Maybe sill.

150 ft. south of ch. - 47 ft ± iron stone

103P110

55°30'

129°45'



2 Miles

HAYWIRE

OBSERVATORY INLET

- Coast Plutonic Complex
- Olivine Gabbro
- Metasediments
- Siltstones, etc.

103P/10