

MINFILE Detail Report BC Geological Survey Ministry of Energy, Mines and Petroleum Resources

Location/Identification

092G7 Cu1 MINFILE Number: 092GSE009 **National Mineral Inventory Number:**

Name(s): **VIKING (L.3177)**

GOLDEN EARS, PITT LAKE, CROMWELL, GREEDY

Mining Division: New Westminster Past Producer Status: Maple Ridge-Mission Underground Mining Method **Electoral District:** Chilliwack Forest District Regions: British Columbia **Resource District:**

092G038 **BCGS Map:** 092G07E NTS Map:

UTM Zone: 10 (NAD 83) 49 21 37 N Latitude: 5467598 Northing: Longitude: 122 33 57 W **Easting:** 531526 240 metres

Elevation: Within 500M **Location Accuracy:**

Shaft on the Viking claim (Lot 3177) (Property File - Claim Sheet Map). **Comments:**

Mineral Occurrence

Copper, Silver, Gold, Zinc **Commodities:**

Pyrrhotite, Pyrite, Chalcopyrite, Covellite, Sphalerite Minerals Significant:

> Associated: Quartz, Calcite **Mineralization Age:** Unknown

Character: Vein, Disseminated **Deposit**

> Hydrothermal, Epigenetic Classification: I01: Au-quartz veins Type:

270/75S 46x30x0 metres **Dimension:** Strike/Dip:

North vein. **Comments:**

Host Rock

Dominant Host Rock: Metamorphic

Stratigraphic Age **Formation** Igneous/Metamorphic/Other Group

Paleozoic-Mesozoic Twin Island **Undefined Formation**

Upper Jurassic Coast Plutonic Complex

Dating Method Material Dated Isotopic Age

Lithology: Amphibolite, Quartzite, Diorite

The Twin Island Group is pre-Jurassic in age and the Coast Plutonic Complex is Jurassic to Tertiary in age. **Comments:**

Geological Setting

Tectonic Belt: Coast Crystalline Fiord Ranges (Southern) Physiographic Area:

Undivided Metamorphic Assembl., I Terrane:

Metamorphic Type: Regional Grade: Amphibolite

Comments: Hosted in a roof pendant in the southern Coast Plutonic Complex.

Inventory

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 Ore Zone:
 VEIN
 Year:
 1927

 Category:
 Assay/analysis
 Report On:
 N

 NI 43-101:
 N

Sample Type: Grab

Commodity Grade

Silver 146.0000 grams per tonne
Gold 1.9900 grams per tonne
Copper 3.9000 per cent

Comments: Average of 900 samples from underground workings.

Reference: Minister of Mines Annual Report 1927, page 366.

Summary Production				
		Metric	Imperial	
	Mined:	182 tonnes	200 tons	
	Milled:	0 tonnes	0 tons	
Recovery	Silver	7,216 grams	232 ounces	
	Gold	249 grams	8 ounces	
	Copper	5,151 kilograms	11,356 pounds	
Capsule Geology				

The Viking mine is located at the south end of Pitt Lake on the east shore.

Two mineralized veins are hosted in a roof pendant of pre- Jurassic Twin Island Group amphibolite and quartzite. The pendant occurs within Late Jurassic diorite of the Jurassic to Tertiary Coast Plutonic Complex.

The North vein (#1 vein) is developed in a shear zone striking west and dipping 60 to 90 degrees south. The vein is usually between 0.60 and 1.8 metres in width, but 30 metre widths are reported at shallow depths. The South vein (#2 vein) strikes northeast, dips steeply southeast, and ranges from 0.90 to 1.1 metres in width.

The veins are mineralized with pyrrhotite, pyrite and chalco-pyrite, with minor covellite and a trace of sphalerite in a gangue of white quartz with minor calcite and fragments of wall rock. An adit in the North vein exposes mineralization over a length of 46 metres. The average assay of 900 samples, taken throughout the underground workings on the North vein, was 1.99 grams per tonne gold, 146 grams per tonne silver and 3.9 per cent copper (Minister of Mines Annual Report 1927, page 366).

The Viking Mining Company Ltd., produced 179 tonnes in 1916, with an average grade of 40.3 grams per tonne silver and 2.88 per cent copper. The Pitt Mining Company Ltd. attempted, unsuccessfully, to place the mine back into production between 1927 and 1929.

Bibliography

EMPR AR 1897-579; 1898-1150,1151; 1899-810; *1900-937,938; 1901-1121; 1915-301,302; 1916-519; *1923-260; 1924-257; 1925-293;

1926-324; *1927-366,367; 1928-389,390,522; 1929-398; 1930-313

EMPR ASS RPT 4862, 7881, *18897

EMPR FIELDWORK 1980, pp. 165-184

EMPR PF (2 claim sheet maps, 1926; Carmichael, H. (1926): Summary of Viking Group; Assays of raw ore and concentrates, 1926)

EMP MP CORPFILE ("Pitt Mining Company Ltd.") GSC MAP 8-1956; 1069A; 1151A; 1153A; 1386A

GSC MEM 335, pp. 14-16, 20, 21, 190

GSC P 90-1F, pp. 95-107

CANMET IR 670, 1925, pp. 48-50

Armstrong, J.E. (1990): Vancouver Geology, Geological Association of Canada (Cordilleran Section)

Ditson, G.M. (1978): Metallogeny of the Vancouver-Hope Area, British Columbia, M.Sc. Thesis, University of British Columbia

EMPR PFD 8225, 8226, 8227, 8228, 8229, 8230, 8231, 826134, 826135, 826136, 826137

Date Coded:1985/07/24Coded By:BC Geological Survey (BCGS)Field Check:NDate Revised:1990/05/29Revised By:Peter S. Fischl (PSF)Field Check:N

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