

Location/Identification

MINFILE Number: 092C 119

Name(s): NI
N.I., LITTLE NITINAT, CAMP, COPPER, SUMMIT, A.B.C, NIT, NAT, LX, NITINAT, AL, FLORA, SKARN

Status: Prospect

Regions: British Columbia, Vancouver Island

BCGS Map: 092C087

NTS Map: 092C15E

Latitude: 48 53 02 N

Longitude: 124 41 13 W

Elevation: 100 metres

Location Accuracy: Within 500M

Comments: Camp zone along a main road paralleling Little Nitinat River, 7 kilometres north of Nitinat Lake, 40 kilometres east-northeast of Bamfield (Assessment Report 7731).

Mining Division: Alberni

Electoral District: Alberni-Qualicum

Resource District: South Island Forest District

UTM Zone: 10 (NAD 83)

Northing: 5415920

Easting: 376328

Mineral Occurrence

Commodities: Gold, Silver, Copper, Zinc, Lead

Minerals

Significant: Pyrite, Pyrrhotite, Chalcopyrite, Galena, Sphalerite, Marcasite

Associated: Quartz

Alteration: Silica, Clay

Alteration Type: Silicific'n, Argillic

Mineralization Age: Unknown

Deposit

Character: Vein, Massive, Shear

Classification: Epigenetic, Hydrothermal, Volcanogenic

Type: I06: Cu+/-Ag quartz veins

Shape: Irregular **Modifier:** Sheared, Faulted

Dimension: 10x1x0 metres

Comments: Copper zone is a 1.5 metre wide block, traced for at least 10 metres. Shear zones strike southwest.

Host Rock

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	-----

Isotopic Age	Dating Method	Material Dated
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Lithology: Basalt, Porphyritic Basalt

Geological Setting

Tectonic Belt: Insular

Terrane: Wrangell

Metamorphic Type: Regional

Grade: Greenschist

Physiographic Area: Vancouver Island Ranges

Inventory

Ore Zone: COPPER
Category: Assay/analysis

Year: 1980
Report On: N
NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	209.7900 grams per tonne
Gold	1.7000 grams per tonne
Copper	5.0000 per cent
Lead	0.1600 per cent
Zinc	0.5700 per cent

Comments: Sample across 1.5 metres.
Reference: Assessment Report 7731.

Ore Zone: CAMP
Category: Assay/analysis

Year: 1980
Report On: N
NI 43-101: N

Sample Type: Drill Core

Commodity	Grade
Silver	44.6100 grams per tonne
Gold	1.3000 grams per tonne
Copper	0.1700 per cent
Lead	6.8700 per cent
Zinc	6.6100 per cent

Comments: Sample across 1.3 metres.
Reference: Assesment Report 7731.

Capsule Geology

The Ni showings are located along the Little Nitinat River near its confluence with the Nitinat River, 40 kilometres south of Port Alberni. An adit, 3.3 metres long, reported in 1916 on the Flora claim is located 300 metres north of the Camp zone.

The area is underlain by Upper Triassic Karmutsen Formation (Vancouver Group) basalts. Upper Triassic Quatsino Formation (Vancouver Group) limestone occurs to the south, and Early to Middle Jurassic Island Plutonic Suite granodiorite to the north. The property appears to be located at the junction of two shear zones. Faults trending north occur along the Little Nitinat River and the rocks have undergone greenschist facies metamorphism.

Mineralization occurs as massive sulphides and fault controlled. Argillic alteration is best developed in felsic volcanic rocks with silicification along some of the larger faults. Mineralization comprises massive sulphide lenses of pyrite, pyrrhotite, chalcopyrite, galena and sphalerite and shear/fracture zones with pyrite, sphalerite and galena. Marcasite was noted in the work done in 1916.

At the Camp and Copper zones, sheared basalt is the dominant rock type. As exposed in the Camp zone area, a shear strikes 145 degrees with dips generally to the southwest. Drilling at the Camp zone intersected basalt, at times porphyritic, and a grey siliceous unit containing variable amounts of disseminated pyrite and pyrrhotite. One hole also intersected a section of quartz vein material mineralized with galena, sphalerite and minor chalcopyrite. A core sample across a 1.3 metre section assayed 0.17 per cent copper, 6.87 per cent lead, 6.61 per cent zinc, 94.61 grams per tonne silver and 1.3 grams per tonne gold (Assessment Report 7731). In 2001, a 3.0 metre chip sample of the Camp Zone returned 2.26 per cent lead, 4.75 per cent zinc, 104 grams per tonne silver, and 1.35 grams per tonne gold (Assessment Report 26736).

A surface grab sample from the Copper zone, 350 metres south of the Camp zone, assayed 0.16 per cent lead, 0.57 per cent zinc, 5.01 per cent copper, 209.79 grams per tonne silver and 1.7 grams per tonne gold across 1.5 metres (Assessment Report 7731). The Copper zone is a 1.5 metre wide block of massive sulphides and has been traced for at least 10 metres.

Soil sampling in 1988 on the west side of the Little Nitinat River yielded a number of anomalous zones which strike toward the Camp zone 1.3

kilometres away (Assessment Report 17406).

The area has been explored as the Jumbo and Tuzex claims in conjunction with Lloyd (092C 132) occurrence since the early 1970's.

Bibliography

EMPR AR 1916-314; 1968-105

EMPR ASS RPT 2019, 2195, 4279, *7731, 13706, *17406, 19849, 24159, 24799, 25252, 25691, 25998, *26736, 27069

EMPR FIELDWORK 1989, pp. 503-510

EMPR OF 1988-24; RGS 24, 1990

EMPR PF (In 092C General File - Aeromagnetic Contour Map, Nitinat Lake Area, Noranda Mines Ltd., date unknown; Osborne, W. (1972):

Supplement and Maps to the 1972 Geological Report on the Little Nitinat Property, Noranda Exploration; Forfeited claim documents from Noranda Exploration, 1974; Property description from Prospectus, 1990; claims map, 1995)

GSC MAP 1386A

GSC MEM 13

GSC OF 463; 821; 1272

GSC P 72-44; 76-1A; 79-30

Carson, D.J.T. (1968): Metallogenic study of Vancouver Island with emphasis on the relationships of mineral deposits to plutonic rocks, Ph.D. Thesis, Carleton University

Falconbridge File

EMPR PFD 650135, 6175, 6176, 6177, 6178, 6179, 6180, 6181, 6182, 6183, 6184, 902968, 903184, 827271, 672894

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	2012/12/05	Revised By:	Karl A. Flower (KAF)	Field Check:	N