



Location/Identification

MINFILE Number: 104N 004 **National Mineral Inventory Number:** 104N12 Pb1

Name(s): PETTY
DUNDEE, TAGISH LAKE

Status: Showing **Mining Division:** Atlin

Regions: British Columbia **Electoral District:** Stikine

BCGS Map: 104N061 **Resource District:** Skeena Stikine Natural Resource District

NTS Map: 104N12W **UTM Zone:** 08 (NAD 83)

Latitude: 59 37 53 N **Northing:** 6610843

Longitude: 133 56 06 W **Easting:** 560061

Elevation: 1090 metres

Location Accuracy: Within 500M

Comments: Rock sample 8R297803, collected from adit (Assessment report 33355).

Mineral Occurrence

Commodities: Lead, Copper

Minerals

Significant: Galena, Chalcopyrite

Significant Comments: Sulphide mineralization is irregular.

Associated: Quartz, Calcite, Pyrite, Linarite

Associated Comments: Minor linarite lining small cavities.

Alteration: Malachite, Azurite

Alteration Type: Oxidation

Mineralization Age: Unknown

Deposit

Character: Vein

Classification: Hydrothermal, Epigenetic

Type: I05: Polymetallic veins Ag-Pb-Zn+/-Au

Strike/Dip: 030/40N

Comments: Vein is truncated to the northeast. Vein strikes 30 degrees and dips 40 degrees northwest.

Host Rock

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Triassic-Jurassic	Cache Creek Complex	-----	-----
Miocene	-----	-----	Klusha Intrusions

Isotopic Age	Dating Method	Material Dated
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Lithology: Quartz Diorite Dike, Andesite, Andesitic Tuff, Diorite Dike

Geological Setting

Tectonic Belt: Intermontane **Physiographic Area:** Teslin Plateau

Terrane: Plutonic Rocks, Cache Creek

Comments: Occurrence lies just south of the Fourth of July Creek batholith.

Inventory

No inventory data

Capsule Geology

The Petty occurrence is located on the southern flank of Table Mountain, on the north shore of Graham Inlet between Tagish and Atlin lakes, approximately 15 kilometres northwest of the community of Atlin.

The country rock on the property consists of andesitic flows and tuffs of the Middle Triassic to Lower Jurassic Cache Creek Complex. However, they could be part of the Carmacks Group as indicated by Wheeler et al. (Geological Survey of Canada Open File 1565). This volcanic package is intruded by a narrow, dioritic to quartz dioritic dike of the Late Tertiary Klusha Intrusions. These dikes may be the hypabyssal equivalent of the Fourth of July Creek batholith (Middle Jurassic Three Sisters Plutonic Suite).

The showing consists of a quartz-calcite vein hosted within the dioritic dikes. It may be the extension of the Dundee vein (104N 003) located 170 metres to the north, but fault displacement makes the correlation difficult. The vein strikes 030 degrees and dips about 40 degrees to the northwest. Inconsistent mineralization in the vein comprises galena, chalcopyrite and lesser pyrite, azurite, and malachite. One small cavity was lined with the rare mineral linarite (a base sulphate of lead and copper). Smaller veins occur within 0.6 metres of the main vein and the wallrock in between is often mineralized with galena and chalcopyrite. Unlike the Dundee occurrence, the wallrock surrounding the Petty veins is not mineralized. The veins are also of a much more consistent thickness on the Petty property.

The Dundee showing (104N 003) adjoins to the north and work was done on both of the properties in the early 1900s.

In 2011-12, Blind Creek Resources Ltd. carried out soil, rock, and panning sampling on their Tagish Lake property after staking the area in 2010. In 2011, 168 soil samples and 4 rock samples were collected in the Graham Creek watershed and slopes of Table Mountain. During 2012, two small historic adits were located. In 2013, Blind Creek Resources Ltd. continued work on their Tagish Lake property and collected 40 talus soil samples and 12 talus rock samples for analytical testing from the southeast slopes of Table Mountain.

Bibliography

EMPR AR 1904-92; 1907-52

EMPR ASS RPT 32747, 33355, *34396

EMPR BULL 105

EMPR FIELDWORK 1989, pp. 311-322, 365-374; 1990, pp. 145-152

EMPR GEOS MAP 1997-1; 2004-4

EMPR MAP 52 (with notes)

EMPR OF 1989-15A, 24; 1990-22; 1992-8; 1996-11

EMPR PFD 810865, 812600

GSC MEM *37, p. 106; 307

GSC OF 864; 1565

GSC SUM RPT *1910, p. 50

GCNL Feb.13, 1979

W MINER April 1979

Date Coded: 1985/07/24

Coded By: BC Geological Survey (BCGS)

Field Check: N

Date Revised: 2021/10/14

Revised By: George Owsiacki (GO)

Field Check: N