Location/Identification

MINFILE Number: 082KNE015
Name(s): **TOPAZ LAKE**
WHITEHORSE

Status: Showing
Regions: British Columbia
BCGS Map: 082K088
NTS Map: 082K16W
Latitude: 50 49 38 N
Longitude: 116 24 05 W
Elevation: 1127 metres
Location Accuracy: Within 500M

Mining Division: Golden
Electoral District: Columbia River-Revelstoke
Resource District: Rocky Mountain Forest District

UTM Zone: 11 (NAD 83)
Northing: 5630782
Easting: 542160

Mineral Occurrence

Commodities: Magnesite

Minerals
Significant: Magnesite
Associated: Dolomite
Alteration: Talc, Silica
Alteration Type: Carbonate
Mineralization Age: Unknown

Deposit
Character: Vein, Stratabound
Classification: Replacement, Hydrothermal, Industrial Min.
Type: E09: Sparry magnesite

Host Rock

Dominant Host Rock: Sedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Middle Proterozoic	Purcell	Mount Nelson	------

Isotopic Age	Dating Method	Material Dated
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Lithology: Dolomite, Magnesite, Chert

Geological Setting

Tectonic Belt: Omineca
Terrane: Ancestral North America
Physiographic Area: Purcell Mountains

Inventory

No inventory data

Capsule Geology

The Whitehorse claims, staked in 1960-61, covered the original magnesite discovery at the south end of Topaz Lake. The occurrence is a triangular shaped mass about 425 metres by 180 metres at the widest point. Drilling indicates 15 to 30 metres thickness of coarse- grained magnesite with 2 to 12 millimetre crystals underlain by a fine-grained cherty dolomite. The magnesite occurs in the trough of a northwest plunging syncline within the Mount Nelson dolomites and consists of a light to pearly grey rock with a rough rusty brown weathered surface. Visible impurities include quartz in scattered veinlets and grains as well as talc in minute shears.

A smaller magnesite body about 60 by 60 metres forms an apparent dip slope surface layer across the end of a low hillock about 150 metres northwest of Topaz Lake. Thickness is unknown but it is underlain by a fine-grained dolomite which hosts abundant sil- iceous chips. In addition, there are a number of other small magne- site bodies in the vicinity of the main occurrence.

Bibliography

EMPR AR 1962-157; 1964-198
EMPR OF 1987-13
GSC MAP 12-1957
WWW http://www.infomine.com/index/properties/TOPAZ_1-12_MAGNESITE.html

EMPR PFD 901412, 700095

Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	2008/04/21	**Revised By:**	Mandy N. Desautels (MND)	**Field Check:**	N