

Location/Identification

MINFILE Number:	082KNE036		
Name(s):	<u>DUNBAR CREEK</u>		
	M7, M8		
Status:	Showing	Mining Division:	Golden
		Electoral District:	Columbia River-Revelstoke
Regions:	British Columbia	Resource District:	Rocky Mountain Forest District
BCGS Map:	082K089		
NTS Map:	082K16W	UTM Zone:	11 (NAD 83)
Latitude:	50 48 45 N	Northing:	5629182
Longitude:	116 20 27 W	Easting:	546439
Elevation:	1067 metres		
Location Accuracy:	Within 500M		

Mineral Occurrence

Commodities:	Magnesite		
Minerals	Significant:	Magnesite	
	Associated:	Dolomite	
	Alteration:	Dolomite, Silica, Calcite	
	Alteration Type:	Carbonate	
	Mineralization Age:	Unknown	
Deposit	Character:	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: Magnesite, Dolomite

Geological Setting

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

Inventory

No inventory data

Capsule Geology

The Dunbar Creek showings are all alteration (ie. replacement) deposits hosted by the basal member of the Upper Proterozoic Mount Nelson Formation dolomites. Magnesite occurs at six locations, all on or close to known faults. A grab sample (M7) collected close to Dunbar Creek, near a

vertical northwest striking fault, contains 41.41 per cent MgO, 2.84 per cent CaO, 47.48 per cent CO₂, 3.97 per cent SiO₂ and 2.07 per cent Fe (total). The dolomite here is altered to a coarse-grained, highly irregular magnesite zone about 30 metres northeast of the fault.

North of the first site and across Dunbar Creek a low hill of dolomite is partly altered throughout and contains several, irregular patches composed completely of magnesite. A sample (M8) of this material contains 42.28 per cent MgO, 2.67 per cent CaO, 48.28 per cent CO₂, 3.22 per cent SiO₂ and 1.03 per cent Fe (total).

Several smaller magnesite bodies occur in the immediate area to the main showings.

Bibliography

EMPR AR 1964-199

EMPR OF 1987-13

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	1986/10/09	Revised By:	Brian Grant (BG)	Field Check:	N