

PRODUCT
PRODUIT STRONTIUM

PROVINCE OR
TERRITORY PROVINCE OU
TERRITOIRE British Columbia

N.T.S. AREA 83 D/7
RÉGION DU S.N.R.C.

REF. SR1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

HOWARD CREEK

OBJECT LOCATED
OBJET LOCALISÉ Showing

UNCERTAINTY -300 m
FACTEUR D'INCERTITUDE

Lat. 52°23'10" Long. 118°53'30"

Mining Division Cariboo
Division minière

District Cariboo
District

County
Comté

Township or Parish
Canton ou paroisse

Lot
Lot

Concession or Range
Concession ou rang

Sec
Sect.

Tp.
Ct.

R.
R.

HISTORY OF EXPLORATION AND DEVELOPMENT
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

This occurrence is located at about 7 300' elevation at the head of Howard Creek, an easterly flowing tributary to McNaughton Lake, some 150 km north-northwest of Revelstoke.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

Carbonatites are hosted in a series of shists of amphibolite to kyanite metamorphic grade, which are part of the Shuswap Terrane. At least two separate carbonatite bodies varying in thickness from 10 cm to 20 cm have been identified. Minerals identified in the carbonatites include calcite, dolomite, apatite, biotite, phlogophite, zircon, pyrochlore, ilmenite and magnetite. A nepheline syenite body about 5 by 20 m in outcrop appears concordant with the schist/carbonite complex. Eighteen semi-quantitative analyses from the carbonatites and associated rocks yielded 0.25 to 0.5 per cent strontium with an average content of 0.35 per cent. Some elements from the carbonatites and their quantities as determined by spectrographic methods and expressed in per cent are: phosphorus, >2.0, strontium 0.2, barium 0.05, zirconium 0.04, chromium 0.01, lanthanum 0.03, cerium 0.03, neodymium 0.03; there are also trace amounts of gallium, tin, yttrium, ytterbium, and niobium (columbium).

Associated minerals or products
Minéraux ou produits associés

-Zirconium, rare earths, nepheline
syenite, phosphate

Geological Fieldwork, B.C. Dept. of Mines: 1984, pp. 92, 97.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 15-1967, Canoe River, (Geol.), Sc. 1": 4 miles,
Geol. Surv. of Canada

#Geological map of the HowardCreek carbonatite occurrence,
Sc. 1.2 cm: 100 m, Fig. 23, Geological Fieldwork 1984,
p. 88; see also Fig. 26, p. 98.

Map 83 D/7, Howard Creek, (Topo.), Sc. 1: 50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	10-87						