

PRODUCT
PRODUIT
RARE EARTHS

PROVINCE OR
TERRITORY

PROVINCE OU
TERRITOIRE

British Columbia

N.T.S. AREA 82 M/7
RÉGION DU S.N.R.C.

REF. Réf 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

MOUNT GRACE CARBONATITE

OBJECT LOCATED
OBJET LOCALISÉ Outcrop, southwest slope of Mount Grace

UNCERTAINTY 1000 m Lat. 51°26' Long. 118°49'

Mining Division Kamloops District

Division minière County Township or Parish
Comté Canton ou paroisse

Lot Concession or Range
Lot Concession ou rang

Sec Tp. R.
Sect. Ct. R.

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

The "Mount Grace Carbonatite" is known to occur in the vicinity of the head of Perry Creek and in the Mount Grace and Kirby Creek areas some 50 to 75 km northwest of Revelstoke. Detailed mapping in the vicinity has lead to the discovery of a number of occurrences of a single carbonatite layer.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

A thin carbonatite marble unit has been traced discontinuously for approximately 25 km along the north western margin of Frenchman Cap dome, near the eastern margin of the Shuswap Metamorphic Complex. The carbonatite is interpreted to be extrusive in origin. It forms essentially one conformable layer that averaged 3 m in thickness. It contains abundant apatite, phlogopite, and sodic amphibole and contains high concentrations of manganese, strontium, barium, columbium, and the light rare earth elements, lanthanum, cerium, and neodymium. Although the analyzed samples are generally low grade, with total columbium, lanthanum, cerium, and neodymium ranging from approximately 0.04 to 0.8 percent, the large lateral extent makes it a tremendous potential source for these elements.

Associated minerals or products
Minéraux ou produits associés

Columbium, strontium

121855

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

REFERENCES/BIBLIOGRAPHIE

+Hoy, Trygne and Kwong, Y.T. John; The Mount Grace Carbonatite; Economic Geology, Vol. 81, 1986, pp. 1374-1386.

Ministry of Energy, Mines and Petroleum Resources, B.C.; Geological Fieldwork, 1985, pp. 69-81.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Frenchmans Cap Dome, Sc. 1": 0.75 mile, Fig. 3, Paper 71-29, Geol. Surv. of Canada, 1972.

Cottonbelt-Mt Grace Area, Sc. 1: 20 000, EMPR, BC, Bulletin 80 (1979).

Regional geological map, Frenchman Cap dome, Fig. 8-1, Geological Fieldwork, 1985-p. 70.

#Location and structural setting of the Mount Grace carbonatite, Fig. 8-2, Geological Fieldwork, 1985, p. 71.

*Map 82 M/7, Ratchford Creek, (Topo.), Sc. 1: 50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp. /rév. par	DMacR						
Date Date	04-89						