

MINERALS AND ENERGY BRANCH

REPORT OF ACTIVITIES

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REPORT ME 2001-I
ED. D. R. MACDONALD

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NOVA SCOTIA
Natural Resources

Honourable Ernest L. Fage
Minister

D.J. Graham
Deputy Minister

Halifax, Nova Scotia
2001

Cover photo

Aerial view looking west (October 2000) of bulk sampling operations at the Black Bull Resources quartz-kaolin deposit located near Flintstone Rock, Yarmouth County. The bright white colour of the rock piles reflects the high purity of the quartz material. The area is underlain by coarse-grained leucomonzogranite of the ca. 370 Ma Davis Lake Pluton, part of the South Mountain Batholith (see p. 37-48 for details), with metasedimentary rocks of the Meguma Group to the south.

Inset shows a close-up of quartz-kaolin rock from one of the trenches excavated in the summer of 1999. The specimen shows brecciated fragments of the host leucomonzogranite, which have been replaced by kaolinite (white mineral) and subsequently cut by multiple veins of quartz. Note the residual grains of primary, magmatic quartz in fragments of altered granite, which represent the only vestige of the original granitic texture.

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