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Massive Sulfide Deposits of the Bathurst Mining Camp, New Brunswick, and Northern Maine

WAYNE D. GOODFELLOW, STEVEN R. McCUTCHEON AND JAN M. PETER, EDITORS

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Photograph of the Nepisiguit deposit, now referred to as the Austin Brook deposit, which was the first massive sulfide deposit discovered in the Bathurst Mining Camp and the first deposit brought into production. The deposit was discovered in 1909 by a local prospector, William Hussey, and began production as the Drummond mine by Canada Iron Corporation of Montreal in 1911 (Belland, 1992). Although the main target was magnetite iron formation that overlies most deposits of the Brunswick horizon, the Austin Brook deposit also contains massive sulfides of pyrite, sphalerite, and galena below the magnetite iron formation, which was first described by Young (1911). The Nepisiguit deposit comprised three separate zones and one was later found to be associated with the Brunswick 6 massive sulfide deposit (Lindeman, 1913). However, no assays for base metals were done and no further work was conducted in this zone until the 1950s. The property was optioned by M. J. Bolyen in the spring of 1952, an electromagnetic survey was undertaken by McPhar Geophysics in September, and subsequent follow-up drilling in October intersected 370 ft of massive sulfides of what was to become the Brunswick 6 deposit. The release of this news to the general public set off a staking rush that would turn the Bathurst Mining Camp into one of the most important mining camps in the world.

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1. Color geologic map of the Bathurst Mining Camp (1:100,000-scale) (van Staal et al., 2003, Fig. 1) (40" × 48")
2. Stratigraphic cross section of the Bald Mountain subbasin (Busby et al., 2003, Fig. 2) (26" × 36"; black and white)
3. Stratigraphic cross section of the Bull Hill subbasin (Busby et al., 2003, Fig. 3) (26" × 36"; black and white)
4. CD-ROM containing a GIS multiparameter, attributed and coregistered database (topography and drainage, satellite imagery, bedrock and Quaternary geology, geochronology, mineral deposits, airborne geophysics, surficial and rock geochemistry, geochronology, derivative maps of mineral potential) of the Bathurst Mining Camp, and tables and appendices of data from papers in the volume.