Stratigraphic and metallogenic relationships along the unconformity between Archean granite basement and the early Proterozoic Moran Lake Group, central Labrador[1]

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Abstract

A well exposed unconformity marks the contact between the Warren Creek Formation of the early Proterozoic Moran Lake Group and the underlying basement granitoids of the Archean Kanairiktok Intrusive Suite. The contact zone is the locus for a number of epigenetic quartz (±carbonate) galena-sphalerite chalcopyrite vein systems. A series of transects was completed across the contact zone in order to further define the zone and examine the potential for additional lead-zinc mineralization. Galena-bearing quartz veins were found at only one new locality; the unconformity itself was encountered at four localities.

Résumé

Une discordance bien exposée délimite le contact entre la formation de Warren Creek du groupe de Moran Lake datant du Protérozoïque inférieur et les granitoïdes de socle sous-jacents de la série de roches intrusives de Kanairiktok d'âge archéen. Dans la zone de contact se trouvent un nombre de systèmes filoniens épigénétiques de galène, sphalérite et chalcopyrite à quartz (+carbonate). Une série de transects a été tracée à travers la zone de contact afin de mieux définir la zone et d'analyser le potentiel de minéralisations supplémentaires de plomb et de zinc. On n'a trouvé des filons de quartz renfermant de la galène qu'à un seul endroit nouveau: la discordance elle-même a été observée à quatre endroits.

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