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From: Grant, Brian EM:EX [Brian.Grant@gems8.gov.bc.ca]
Sent: Monday, November 06, 2000 9:38 AM
To: Grant, Brian EM:EX
Subject: Bedrock Mapping results for Mount McCusker - Robb Lake Area

British Columbia Ministry of Energy & Mines
Geological Survey Branch
Release Notification 2000-18
Nov 6, 2000

NEW - Bedrock Mapping results for Mount McCusker - Robb Lake Area

Geoscience Map 2000-9
Geology of the Mount McCusker-Robb Lake area, Northeastern British Columbia
NTS 094G/4W 1 Sheet at 1:50 000 scale
by A. Legun, J. Nelson and M. Cecile
Price \$10

The Mount McCusker-Robb Lake map area lies in the Northern Rocky Mountains within the eastern Muskwa Ranges, about 80 km west of the small settlement of Pink Mountain on the Alaska highway. Along the main ridges, up to 2500 metres elevation, an Early Ordovician to mid-Devonian succession is preserved in a complex geometry of overturned and upright folds, single thrusts, a thrust duplex, and a folded thrust. East of this the structural style changes to more open folds floored by buried thrusts (e.g. Mt. Bertha anticline). These latter areas have been assessed for gas potential.

Siluro-Devonian platformal dolostones host showings of Mississippi Valley type (MVT) lead-zinc mineralization. The mineralization is in breccia zones within the Muncho-McConnell, Stone, and Dunedin Formations. Most notable of these, and by far the largest is the Robb Lake deposit which has geological resources in the order of 6.5 million tonnes at 7% combined lead-zinc. Carbonate breccias are regional in extent and offer potential for further discoveries.

Map patterns in the southwest portion of the map area reflect the older (late Ordovician to early Silurian) Ospika embayment. Basin slope lithologies of the embayment are represented by the Beaverfoot Formation and the basal Silurian unit. These units, and equivalent basin shales correlated with the Road River Group, have modest sedex potential.

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