

Revised: Feb. 28/85

IDENTITY: 104B(27)

Common Name: JOHNNY MOUNTAIN      Other Names: Reg, Cat  
Mining Div: Liard      NTS: 104B/11E      Metals: Ag,Au,Cu (Pb,Zn)  
Latitude: 56°39'      Longitude: 131°05'      Status: Prospect  
MINEFILE ID: 104B 077, 107      Terrane: Stikinia(S)  
Deposit Type: Fissure Vein, Disseminated, Volcanic Exhalative

History:

Year	Property Data	Owner/Operator	Work
1929	48 CL	Cominco L	ST
1954		Hudsson Bay Mg & S CL	ST,DD,PR
1964			
1973			
1980			
1981			
1982			
1983			
1984			

Description:

The base of Johnny Mountain is underlain by intercalated phyllitic grits, sandstone and an andesite to rhyolite volcanic sequence of the Upper Triassic Struhini Group. The volcanic package locally shows persistent autometamorphic textures. A sequence of Lower or Middle Jurassic sedimentary rocks overlies the Upper Triassic sequence but are devoid of significant mineralization.

The volcanic suite is mainly composed of pyroclastics ranging in composition from andesite to rhyolite. Breccias and tuff breccias are the most abundant rock type, while silicified, fine-grained, thin-bedded tuffs occur locally. Andesitic rocks are usually propylitically altered, typically as an assemblage of pyrite-chlorite-epidote-calcite. Medium dark-gray feldspar porphyries or pale gray, rusty weathering felsites are spatially associated with mineralization and are thought to represent volcanic centres.

Mineralization consists of chalcopyrite, galena, sphalerite and pyrite in massive lenses and veins with varying amounts of gold and silver. Best examples of copper-gold-silver mineralization are associated with quartz-sericite-carbonate alteration zones in pyroclastic rocks of the basal part of the volcanic sequence. High concentrations of disseminated pyrite with lesser disseminated chalcopyrite occur in altered felsite bodies, generally in close association with massive sulphide mineralization.

Gold mineralization occurs in two parallel, northeast-trending, elongate, tabular zones called the Pick Axe Zone and the Cloutier Zone and in a nearby third zone (McFadden Zone) that consists of numerous, well mineralized float boulders located along the margins of a glacier.

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Description (cont'd):

The Pick Axe Zone is a 50 m wide belt of intense alteration that has been traced by drilling, trenching and geophysical means for a 700 m strike length. The most important showing on the Pick Axe Zone is a 15 m thick band of layered, pyritic, massive sulphides. A sample taken across 3.3 m by Texasgulf assayed 5.1 g/t Au, 144 g/t Ag and 7.5% Cu.

The Cloutier (Stonehouse) Zone has received most of the recent exploration emphasis. It is a 150 m wide belt of silicified, pyritized and altered volcanoclastics that has been traced for a length of about 670 m. At least six major gold-bearing en echelon lenses occur within the structure. The central part of the zone contains the best precious metal values. A representative sample (DDH 82-10) assayed 5.8 g/t Au, 25.4 g/t Ag and 2.0% Cu over 10.4 m. This intersection includes a 60 cm interval with 98.7 g/t Au.

The Bonanza Zone lies 3 km north of the Pick Axe-Cloutier Zones and was discovered by Anaconda in 1984. A grab sample of copper-rich mineralization assayed 14.1% Cu, 98.7 g/t Au and 13,897 g/t Ag.

Prospecting in the vicinity of a strong Dighem airborne EM anomaly discovered a number of small high-grade, base metal and silver showings on the old Skyline Crown Grants, just west of the Bonanza Zone. This stratabound massive sulphide mineralization returned assays up to 20% Pb, 22% Zn and 1200 g/t Ag over a strike length of 800 m.

Reserves:

An estimated 505,000 tonnes grading 21.0 g/t Au has been delineated by exploration to 1984 on the Cloutier and Pick Axe Zones.

References:

- MMAR 1968, p.41
- ECMM Info Circ 1984-1; 1985-1
- GSC Mem 246, p.72
- GSC Map 311A, 9-1957
- AR 1657, 9090, 10510, 11327
- GCNL, May 14/82; June 1/83; Jan.19, Mar.2, Aug.14, Oct.31/84; Jan.11/85
- TML Aug.14/84; Jan.14/85
- NP Winter/84, p.8
- NR/Skyline EL; Aug.13, Oct.25/84
- NAGMIN, Mar.1/85
- Schroeter (1983b)