

1540 0016  
PROPERTY NAME: Victoria

OTHER NAMES:

MINERAL COMMODITY(IES): Cu, Bi, Au, Ag

TYPE OF DEPOSIT: Breccia filled

ACCESSIBILITY:

OWNERSHIP: Anaconda Mining Co., Day Mines Inc. - operations

PRODUCTION: +100,000

HISTORY: Discovered in 1872, first ores smelted at Dolly Varden Spring, Production 1870's, 1908-45, 1956, 1973-76. Day Mines Mining and Milling 1980.

County: Elko

Mining District: Dolly Varden

AMS Sheet: Elko

Quad Sheet: Currie 1 SE  
Orthophoto Quad.

Sec. 5, T. 28N, R. 66E

Coordinate (UTM):

North 4141616191519 m

East 0171018101211 m

Zone +11

DEVELOPMENT: Underground mined decline sub-level covering mining method.

ACTIVITY AT TIME OF EXAMINATION: Active operation

GEOLOGY: Breccia zone and orebody occurs in Pequop Formation and is directly related to Melrose quartz monzonite stock. At the mine, the Pequop dips 20°E the breccia is described as a collapse feature related to an apophysis of the stock. The contact of breccia and Pequop is sharp and the breccia is composed of host rock fragments cemented by silicates and sulfides. Alteration within the breccia consists of primary silicification followed by brecciation then chlorite and clay alteration. Several periods of silicification and brecciation have been recognized, with earlier breccia being headed by later silicification, followed by more breccia formation and silicification.

The most common silicate is diopside, with later stage garnet also present. A clay saponite(?) forms by alteration of diopside and occurs around breccia fragments. Sulfides present are pyrite, chalcopyrite, chalcopyrite and bismuthinite. Specular hematite is also present. It is not clear why the breccia occurs. It is possibly along a fold axis. An intrusive ridge is described as being present beneath the Victoria breccia. The breccia is described as a collapse feature, rock fragments appear to have fallen into a void. Alteration is described as being most intense outward in zone from the melrose stock contact - beds grade from garnet skarn to diopside to marble. The same zonation takes place around the breccia, but on a much smaller scale. Dates on milas from ore zone date orebody at 153-135 my.

Information from W.W. Atkinson, Consulting Geol. from Day Mine.

REMARKS:

REFERENCES: Hill 1916, Granger, 1957, Swith 1976, Snow 19, Atkinson, 1980 (mine tour)

EXAMINER: J.V. Tingley

DATE VISITED: 8/18/80