

HISTORY OF PRODUCTION

REFERENCES

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1971, p. 49; 1972, p. 549 + ; 1973, p. 512.

MAP REFERENCES

Map 21-1962, Dease Lake, (Geol.), Sc. 1":4 miles.

Map 104 J/5 W, Ketchum Lake, (Topo.), Sc. 1:50,000.

REMARKS

Location from Mineral Deposit Inventory, Map No. 104 J - 25, British Columbia Dept. of Mines.

Comp./Rev. By	DMacR						
Date	4-76						

PRODUCT

COPPER

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 104 J/5

Card 2
REF. CU 1

NAME OF PROPERTY

PET (MINERAL HILL)

DESCRIPTION OF DEPOSIT (continued)

feldspar but is probably largely due to the presence of finely dispersed hematite. However, the most profound alteration is replacement and associated fracture filling by ankerite which may form 10 per cent or more of the rocks. Sheared rocks usually appear bleached due to an increase in sericite and clay minerals and an attendant destruction of biotite.

Mineralization occurs most notably in discontinuous, braided, breccia zones a few inches to a few feet in width. The strongest mineralization consists of coarse-grained specular hematite containing random sulphide grains or, less commonly, patches of sulphide grains with little or no hematite. The most widespread mineralization is scattered grains or stringers of specular hematite and/or sulphides on fracture and shear planes or occasionally with calcite or quartz veinlets.

Detailed examination reveals that in addition to the main sulphides chalcopyrite and pyrite, small amounts of bornite, chalcocite, and minor sphalerite, tennantite, and traces of an unidentified sulphosalt are present. The chalcocite has metallic lustre and appears to be primary. It occurs as grain boundary and crystallographically controlled replacements of bornite and chalcopyrite and as rare, discrete grains on fractures.