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*CIM Dist 6 Kamloops Tour Sept 6/90*

Separate tours of the mine and concentrator are being developed to satisfy more specific areas of interest.

Tickets: \$30.00 per person. Limit 90 persons.

Departure: 7:30 a.m.

*CIM Bull*

*v. 83*

*July/90*

**Tour No. 3 — Afton/Ajax Geology and Mining Operations**

Tour of Afton plant site and concentrator and Ajax open pits.

The Afton plant site and concentrator are located 13 km west of Kamloops. Mill-feed is hauled from the Ajax open pits situated 10 km southeast of the mill.

The Cu-Au ore deposits are hosted by intrusive rocks of the Iron Mask pluton, an alkaline porphyry intrusive complex of Triassic age. Chalcopyrite-pyrite mineralization associated with brecciation and intense sodium metasomatism of the host sugarloaf diorite and hybrid diorite units are dominant features of these deposits.

Mining and milling operations are carried out on a continuous basis with a workforce of 200 people. Current schedules call for the mining of 25 000 tons of rock daily. Copper concentrates are shipped to Japan.

Tickets: \$25.00 per person. Limit 45 persons.

Departure: 8:30 a.m.

**Paper No. 22 — 9:30 a.m.**

*Geology and Development of the Ajax Cu-Au Deposits.*

L. BOND, Afton Operating Corporation, Kamloops, British Columbia

The Afton plant site and concentrator are located 13 km west of Kamloops. Current production is from the Ajax deposits where 27 000 000 tons at an average grade of 0.46% Cu and 0.010 Au have been defined in two zones.

The Cu-Au deposits are hosted by intrusive rocks of the Iron Mask Batholith, an alkaline porphyry intrusive complex of Triassic age located within the Cordilleran Intermontane Belt. Rock compositions are generally diorite to monzonite and four main intrusive units have been defined. Wallrock alteration consists mainly of propylitic assemblages with lesser potassic alteration.

Within the Ajax deposits, chalcopyrite-pyrite mineralization is associated with brecciation and intense sodium metasomatism of the host Sugarloaf diorite and Hybrid diorite units.

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