

CIM Van Apr 85
Monday PM

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15:00

Black Dome 920/8

Geology Division Business Meeting with W. Petruk, Chairman

Good attendance is requested to principally discuss a new quarterly publication for economic geology papers submitted to CIM.

15:00

Réunion d'affaires de la Division de la géologie avec W. Petruk, Président.

On vous invite à participer en grand nombre pour discuter principalement d'une nouvelle revue trimestrielle vouée à la publication d'articles portant sur la géologie économique qui sont présentés à CIM.

Paper No. 18 — 15:30

Geology of the Blackdome Gold-Silver Deposit, Clinton, B.C.

ALBERT F. REEVE, President, and DAVID RENNIE, Geologist, Blackdome Exploration, Ltd., Vancouver, B.C. *Carl Lalonde prof.*

The Blackdome deposit, located 250 air-kilometres north of Vancouver, B.C., is fairly unique among Canadian gold occurrences. It is a Tertiary epithermal gold-silver deposit of the type found throughout the western United States and Mexico, but less commonly seen in Canada. *wjr*

Gold and silver mineralization occurs along several steeply dipping, north-northeasterly striking fault zones in Eocene volcanic rocks. Ore minerals consist of fine- to medium-grained electrum, acanthite, tetrahedrite, fribergite, chalcopyrite, pyrite and silver sulphosalts. These minerals are disseminated throughout quartz stockworks and breccias along the faults. The host rocks are calc-alkalic tuffs and flows which vary in composition from andesite to rhyolite.

Two major fault zones, the No. 1 and 2 vein systems, have been the focus of the most recent exploration work on the property but many more veins are known to exist in the area. Reserves indicated by drilling, drifting and raising in these two veins stand at 184,695 tonnes grading 27.23 gm Au/tonne and 129.75 gm Ag/tonne. Production at a rate of 185 tonnes-per-day is anticipated.