

GEOLOGY SESSION II

9:00 a.m. - NEWCOMBE AUDITORIUM - PROVINCIAL MUSEUM

Session Chairmen: Mr. Dani Alldrick and Mr. Gerry Ray, Ministry of Energy, Mines and Petroleum Resources.

Sulphurets
104B/8 675296

Paper No. 25 -- 9:00 a.m.

"GOLD IN THE SULPHURETS"

N.L. Tribe and F. Hewitt, Newhawk Gold Mines Limited and Lacana Mining Corporation

The Sulphurets property is located 56 km (35 miles) northwest of Stewart, B.C. The property covers about one-half of a large zone of alteration and mineralization previously worked by Granduc Mines Ltd. and Esso Minerals Canada Ltd. To date 18 mineralized zones have been discovered and 8 of these have at least one drill hole in them. In all, 134 diamond drill holes have been completed on the property.

Geology of the zones varies from Porphyry-copper-molybdenum-gold to molybdenum stock-work, disseminated gold, complex vein systems and simple vein systems. The host rocks are Unuk River Formation andesite flow breccias and lapilli tuffs, with syenite intrusives. The rocks are propylitized sericitized and pyritized over a broad area.

The mineralized zones around Brucejack Lake are usually silicified and mineralized with pyrite, tetrahedrite, sphalerite, galena, molybdenite, argentite, chalcoprite, pyrargarite and electrum. The veins are structurally controlled by deep regional faulting. Mineral reserves calculated on the West Zone indicate 496,452 tonnes of 0.237 oz./tonne gold and 22.87 oz./tonne silver. Shore Zone mineralization is estimated at 490,000 tonnes of .289 oz./tonne gold and 29.98 oz./tonne silver.

The Snowfield Zone is disseminated gold with a slight increase in propylitization, very little silicification and less than 10% pyrite. Mineral reserves on the Snowfield Zone are presently at 7,000,000 tonnes of 0.083 oz./tonne gold with no silver and the zone only partially drilled.

Other zones on the property have considerable potential but have not been explored enough to develop reserves.

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