

675869

Specogna-
Cons Cinola
103 F/9E

CIM
Dist 6
Vect.
02/30/81
?

Paper No. 7-3 —

Specogna: A Carlin Type Gold Deposit, Queen Charlotte Islands, British Columbia.

G.G. RICHARDS, J.S. CHRISTIE and M.R. WOLFHARD, Quintana Minerals Corporation, Vancouver, B.C.

This deposit contains an indicated reserve of more than 50 million tons of 0.06 oz/t gold and 0.1 oz/t silver. Other metallic elements present in anomalous amounts include Hg, As, Sb and Te. Possible major controls of mineralization include proximity to an unconformity, proximity to a major fault, and permeability of the host Skonun Formation of Miocene to Pliocene age. Quartz-feldspar porphyry dykes, although volumetrically insignificant, may be important in the mineralizing process.

Alteration effects include strong silica metasomatism, pervasive pyritization and intense clay alteration of feldspar in sandstones and in dykes.

Although the gold mineralization is central to a much larger zone of silica, clay and pyrite, zoning of alteration is obscure. Hg in rocks forms a halo about the better-grade gold. Other metallic elements form very weak patterns with peripheral or central tendencies.

The deposit is classified as Carlin type based on metallic mineral assemblage, alteration mineralogy, permeability control of mineralization, mode of occurrence of gold and proximity to a major structure.

Paper No. 7-4 —

Geological Setting of Stratabound Copper-Zinc