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CORDILLERAN ROUNDUP

1990 "SNAPSHOT" REVIEW

Property/Project

Name : Tulsequah Chief
NTS : 104K
Claims: 105 claim units

Authors

M. Casselman - Cominco Ltd.
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Acreage: approx. 5,000
Commodities: Cu, Pb, Zn, Au, Ag

Agreements

Cominco Ltd. - Redfern Resources Ltd. 60%-40% joint venture began in 1987. Cominco Ltd. are operator.

History

Past Exploration	By Whom	Amount	Type	Cost
1923-1932	United Eastern Mining Co., Taku Mining Co.	1500 ft. 3 adits 7 drill holes	drifting surface	?

Past Development	By Whom	Amount	Type	Cost
1946-1951	Cominco Ltd.	4 adits 9 levels 1500 foot internal shaft		?

Past Production	By Whom	Tonnage	Method	Grade
1951-1957	Cominco Ltd.	650,000 tons	Shrinkage and open stopping	1.8% Cu 1.3% Pb 6.7% Zn 0.10 Au oz/t 3.16 Ag oz/t

Geology

Regional

Area is on the west edge of the Intermontain Belt probably in the Alexander Terrane, encompassing Carboniferous-Permian volcanic and sedimentary rocks, Triassic intermediate volcanics, and Cretaceous-Tertiary felsic volcanics. Intrusives range from pre-Permian to Tertiary in age and include plugs, dikes and stocks of dioritic to rhyolitic composition.

Stikin

[Handwritten scribbles and notes at the bottom of the page, including "Stikin", "Carboniferous-Permian", "Cretaceous-Tertiary", and "dioritic to rhyolitic"]

Local

Carboniferous-Permian intermediate to felsic volcanic flows and pyroclastic rocks form a footwall assemblage capped by a 'mineral horizon' of sericitized, pyritized dacite-rhyolite pyroclastics (lapilli tuffs, cherty tuffs, muds) which host all sulphide bodies. A thick, lenticular dacite-rhyolite pyroclastic unit overlies the mineral horizon and is itself overlain by a hangingwall sequence of mainly andesite pyroclastics. Contemporaneous diorite to rhyolite plugs, dikes and sills intrude these volcanic sequences.

Alteration

Apart from the 'mineral horizon', a discordant footwall alteration pipe which terminates against the 'mineral horizon' and extends at least 1 Km into the footwall, displays a pyrite-sericite core zone, a biotite-pyrite transition zone moving to a chlorite-pyrite outer zone.

Ore Zones

Massive sulphide bodies in the 'mineral horizon' are composed of varying proportions of pyrite, sphalerite, galena, chalcopryrite, tetrahedrite, barite and gypsum. Sulphides are fine to medium grained, massive to well-banded and bedded with local fragmental textures and some contorted banding from soft sediment deformation or slumping.

Current Exploration Results

1987-1989

i) Geology

Regional, local and underground mapping carried out to develop stratigraphic control.

ii) Geochemistry

Some stream sediment and rock chip analysis for metal values and alteration patterns.

ii) Geophysics

No response from airborne geophysics, no surface or down hole geophysics has been done.

iii) Sampling

26 drill holes totalling 39,000 feet have been drilled to establish stratigraphy and test the 'mineral horizon' to a depth of 1600 feet below the lowest mine level. The deposit remains open in all directions.

Reserves

Geological reserves as calculated by Redfern Resources are 5,822,000 tons grading 1.6% Cu, 1.3% Pb, 7.02% Zn, 0.08 oz/ton Au and 2.93 oz/ton Ag.

Reserves based upon existing 800,000 tons proven/probable at mine closure plus 19 recent drill intercepts. The deposit varies from 6 to 52 foot true thickness and averages 20 feet thick and has an average specific gravity of 3.8 g/cc.

Costs

Recent exploration totals \$4,600,000.