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ITEM 17

VICTORIA—COPPER

Alternate names: Anaconda-Victoria

Commodities: Cu, Ag, Bi

LOCATION-OWNERSHIP

County Elko.
 Mining district Dolly Varden.
 Elevation 2,316 m.
 Topography Rugged.
 Domain Private.

General location About 126 km northeast of Ely.
 Meridian Mount Diablo.
 Tract Sec. 5, T 28 N, R 66 E.
 Latitude 40°19'45" N.
 Longitude 114°33'05" W.

Owner-operator Hecla Mining Co., Wallace, ID (1985).

GEOLOGY

Type of ore body Skarn-breccia pipe.
 Origin Solution collapse, contact metamorphism.
 Shape of ore body Arcuate in plan.
 Ore controls Fracturing, contact zone.
 Dip of mineralized zone 45°
 Age of mineralization... Possibly Cretaceous.
 Mineralized zone average dimensions, m:
 Length 100.
 Width 175.
 Thickness 180.
 Mineral names Chalcopyrite, pyrite, chalcocite, bornite, bismuthinite, quartz, calcite, wittichenite, covellite, chrysocolla, malachite, azurite, native copper (minor), cuprite, Fe-oxides, diopside, calcite.

Host formation Pequop.
 Geologic age Permian.
 Rock relationships Limestone, encloses ore, breccia contains ore.
 Dolomite, encloses ore, breccia contains ore.
 Calcareous sandstone-quartzite, encloses ore, breccia contains ore.
 Quartz latite porphyry dike, near ore.
 Porphyritic quartz monzonite, beneath ore.
 Silicification, argillitic, oxidation.
 Size Medium.

DEVELOPMENT

Current status Inactive-past producer, standby.
 Type of operation Underground.
 Mining method Sublevel block caving.
 Year of discovery 1872.
 Discovery method Ore mineral in place.
 Initial production 1973-74 (Anaconda).
 Last production 1977 (Anaconda); 1981 (Day Mines, Inc.-Hecla Mining Co.).
 Past production Confidential proprietary data.

Distance to water supply On-site.
 Road requirement None.
 Distance to power supply On-site.
 Mill location On-site.
 Mill status Inactive, standby.
 Milling method Flotation.
 Process rate 907 t/d.
 Product type Cu-Ag concentrate.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1. Proven	1,491,200 tons	2.34% Cu	1977	837
2. Probable	148,383 tons	2.51% Cu	1977	837

REFERENCES

25, 226, 337, 476, 669, 788, 823, 824, 836.

USGS quad maps Elko, 1:250,000.
 USBM sequence number 0320070001.
 USGS MRDS number W002693.
 Mid number 2600558.

Comments: See reference 836 for additional reserve-resource data. Anaconda Minerals Co. explored the ore body in the early 1940's. Day Mines, Inc., purchased the property from Anaconda in 1979. Day Mines was purchased by Hecla in 1981. The Victoria ore body is a breccia-fill deposit in the Pequop Limestone Formation near the contact of the Melrose porphyritic quartz monzonite stock of Cretaceous-Jurassic age. Bedded limestone, dolomite, and sandstone sediments of the Pequop surrounding the Victoria ore body have strikes trending from N 34° E to almost due east. Dips range from 0° to 34° S to SW, with an average dip of approximately 20° SW (337).

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

By N. T. Lowe, Russell G. Raney, and John R. Norberg



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