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BATTLE MOUNTAIN COPPER BASIN—COPPER

Alternate names: Copper Basin Mine-Duval Corp.

Commodities: Cu, Ag, Au

LOCATION-OWNERSHIP

County Lander.
Mining district Battle Mountain.
Elevation 1,615 m.
Topography Rugged.
Domain Private.

General location About 10 km southwest of Battle Mountain.
Meridian Mount Diablo.
Tract Sec. 32, T 32 N, R 44 E.
Latitude 40°36'12" N.
Longitude 117°02'50" W.

Owner-operator Duval Corp., Tucson, AZ (subsidiary of Pennzoil Co., Houston, TX) (1984).

GEOLOGY

Type of ore body Disseminated; stockwork.
Origin Hydrothermal; oxidation.
Shape of ore body Tabular.
Ore controls Igneous; fracturing.

Mineralized zone average dimensions, m:

Length 1,000.
Width 600.
Thickness 30.
Depth 75.

Mineral names Malachite, chrysocolla, cuprite.

Host formation Igneous intrusive.
Geologic age Upper Cretaceous.
Rock relationships Quartz monzonite, ore in fractures, gangue.
Conglomerate, gangue.
Size Medium.

DEVELOPMENT

Current status Active-standby.
Type of operation Surface.
Mining method Bench (berm).

Year of discovery <1869.
Discovery method Ore in place.

Initial production 1897.
Last production Possibly 1981.

Distance to water supply ... <10 km.
Road requirement <50 km.
Distance to power supply ... On-site.
Mill status Active, standby.
Milling method Solvent extraction; electrowinning.
Process rate 5,170-t/a (18-t/d) output capacity.
Product type Cathode quality copper.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Measured	948,000 tons	1.49% Cu; 0.027 tr oz/ton Au; 0.39 tr oz/ton Ag.	1978	707
2..Not reported in reference	3,066,000 tons (mill). 22,657,000 tons (leach).	1.75% Cu (sulfide)..... 0.41% Cu (oxide).....	1968 1968	606 606

REFERENCES

144, 220, 591, 606, 641, 648, 693, 705, 707, 708, 717, 742.

USGS quad maps Winnemucca, 1:250,000
Antler Peak, 15'.
USBM sequence number 0320150003.
USGS MRDS number M030001.
Mid number 2600220.

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

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



UNITED STATES DEPARTMENT OF THE INTERIOR
Donald Paul Hodel, Secretary

BUREAU OF MINES
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