1780 0065

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
Robert C. Horton, Director

RUBY HILL—ZINC

Alternate names: Fad Shaft, Eureka Corporation Mine, Look Out Mine, Locan Shaft

Commodities: Zn, Au, Ag, Pb

LOCATION-OWNERSHIP

County	Eureka. 2,100 m.	General location	Mount Diablo. Sec. 22, T 19 N, R 53 E. 39°30'21" N.
--------	---------------------	------------------	---

Owner	Richmond-Eureka Corp., Miami Beach, FL, 75%; Silver Eureka Corp., Toronto, ON, Canada, 25% (1985).	
O Wales	(Sharon Steel Corp., Miami Beach, FL, owns 82% of Richmond-Eureka Corp.)	

GEOLOGY

Type of ore body Replacement, breccia fill. Origin Hydrothermal. Shape of ore body Irregular, pipelike. Ore controls Faulting, fracturing, lithology. Strike and dip of N 40° W: 60° NE (Ruby Hill Fault); mineralized zone. N 90° E: 01° W (trend of deep sulfides).	Host formation Geologic age Rock relationships Alteration	Mid-Cambrian. Limestone, encloses ore, replaced by ore. Dolomite, lies under ore. Intense pyritic alteration.	
Mineralized zone average dimensions, m:			All the state of the
Length			

cerrusite, arsenopyrite, arsenopyrite; silver is co	argentite, gold. (Gold is present in pyrite and ontained in solid solution with galena.)
Mineral names	Pyrite, sphalerite, galena, smithsonite,
Depth	730.
Thickness	<245.
width	310.

DEVELOPMENT

Current status Type of operation Mining method	Distance to water supply Road requirement Distance to power supply Mill location	On-site. Existing paved road. <5 km to on-site substation On-site (building and infra-	
Year of discovery Discovery method	Mill status	structure). Equipment removed.	
Initial production Last production	a stancis Jugos		

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade Grade	Year	Reference
1Indicated	3,132,000 tons	0.16 tr oz/ton Au; 5.65 tr oz/ton Ag; 3.7% Pb; 8.3% Zn.	1982	168
		REFERENCES		
50, 84, 105, 152, 168, 238, 255, 256,	257, 261, 326,		y, 1:250,000. ireka, 15'.	
389, 450, 451, 518, 519, 520, 521, 593, 697, 722, 741.	593, 697,	USBM sequence number 03	20110093.	
		COGO MANDO MANDOS TOTOTOS	030021.	

Comments: There has been no commercial production from the deep sulfide ore body. In 1975, a 245-t sample was taken for metallurgical testing.

Excessive water and metallurgical problems have long hampered development of the deposit.