# ANN MASON—COPPER

(188)

ITEM 4

Alternate names: None

Commodities: Cu, Me

Year

Reference

## LOCATION-OWNERSHIP

County	Lyon.		General location	About 58 km southeast of Carson Chr.
Elevation			Meridian	Mount Diablo.
Domain	BLM administered.		Tract	Sec. 13, T 13 N, R 24 E
			Latitude	38°59'03" N.
		The state of the state of	Longitude	

Owner	The Anaconda Minerals Co., Denver, CO (a wholly owned subsidiary of Atlantic Richfield Co., Denver, CO)(198				
	GE	OLOGY			
Type of ore body	Irregular.	Host formation	Quartz monzonite, encloses ore, gangue Porphyrtic quartz monzo- nite, encloses ore, gangue.		
mineralized zone. Age of mineralization Mineralized zone average dimensions, m:	168 million yr.		Granodiorite, encloses ore, gangue. Quartz monzonite porphyry dikes; highest ore grades occur near dikes.		
Length			Tertiary volcanics; above ore on the north.		
Depth		Alteration	Sodic-calcic, potassic, propylitic, sodic, sericitic.		
molybdenite, goethite, li K-feldspar, plagioclase,	imonite, chrysocolla, hematite, quartz, hornblende, biotite, magnetite, sphene, , augite, chlorite, sericite.	Size	Large.		

#### DEVELOPMENT

Current status Type of operation	Inactive-explored prospect. Prospect.	.e.do.
Year of discovery Discovery method		, May

Quantity

Initial production . . . . No production.

Class

### PUBLISHED RESERVES-RESOURCES

Grade

1Not reported in reference	495,000,000 tons	0.40% Cu	1976 85	29
		REFERENCES		
126, 128, 453, 567, 695, 822, 829.			Walker Lake, 1:250,00	00.
		USBM sequence number	Yerington, 15'. 0320190169.	.ake, 1:250,000. n, 15'.

Comments: Copper mineralization is contemporaneous with and spatially related to a swarm of quartz monzonite porphyry dikes that intrude into grandiorite and quartz monzonite. Mineralized zone dimensions are for >0.2% Cu.

# Principal Deposits of Strategic and Critical Minerals in Nevada

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

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(Information circulat / Souther States, Department of the Artelian - Bareau of Mines : 4025)

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UNITED STATES DEPARTMENT OF THE INTERIOR

Donald Paul Hodel, Secretary

**BUREAU OF MINES** Robert C. Horton, Director