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TONOPAH HASBROUCK—GOLD

ITEM 20

Alternate names: None

Commodities: Au, Ag

LOCATION-OWNERSHIP

County	Esmeralda.	General location	About 8 km southwest of Tonopah.
Mining district	Divide.	Meridian	Mount Diablo.
Elevation	1,735 m.	Tract	Sec. 33, T 2 N, R 42 E.
Topography	Hilly, mountainous.	Latitude	37°59'29" N.
Domain	BLM administered, private.	Longitude	117°16'09" W.
Owner	Cordex Exploration Co., Reno, NV (1984).		

GEOLOGY

Type of ore body	Fissure veins, disseminated.	Host formation	Siebert (Volcanic).
Origin	Hydrothermal.	Geologic age	Miocene.
Shape of ore body	Tabular.	Rock relationships	Rhyolite tuff, contains disseminated Au.
Ore controls	Faulting, fracturing, lithology.		Dacite and rhyolite breccia, contains ore.
Age of mineralization	Mid-Miocene (15.5 to 16.5 million yr).		Volcaniclastics, cut by ore veins, below disseminated Au.
Mineralized zone average dimensions, m:		Alteration	Argillic, silicification, oxidation; potassic, phyllic, propylitic zones around fractures and faults.
Length	>1,500 (workings).	Size	Small.
Depth	>90.		
Mineral names	Free gold, electrum, argentite, silver halides, pyrite, quartz, sericite.		

DEVELOPMENT

Current status Active-exploration, past producer.
 Type of operation Explored by Cordex for low-grade precious metal open pit.
 Year of discovery 1902, Ag discovered in district; 1974, exploration commenced by Cordex Exploration Co.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference	5,000,000 tons	0.06 tr oz/ton Au, 1.5 tr oz/ton Ag	1982	611

REFERENCES

7, 8, 62, 63, 64, 65, 209, 211, 224, 361, 377, 381, 611, 629.	USGS quad maps	Goldfield, 1:250,000. Klondike 7.5'.
	USBM sequence number	0320090339.

Comments: Sixteen samples taken from silicified sedimentary rocks on Hasbrouck Mountain by the Nevada Bureau of Mines and Geology in the 1970's averaged 2 g/t (0.06 tr oz/ton) Au and 43.2 g/t (1.26 tr oz/ton) Ag (211).

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

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UNITED STATES DEPARTMENT OF THE INTERIOR
Donald Paul Hodel, Secretary

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