

3680 0057

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PREBLE—GOLD

Alternate names: None

Commodities: Au

LOCATION-OWNERSHIP

County	Humboldt.	General location	About 27 km due east of Winnemucca.
Mining district	Potosi.	Meridian	Mount Diablo.
Elevation	1,430 m.	Tract	Sec. 18, T 36 N, R 41 E.
Topography	Hilly.	Latitude	40°58'23" N.
Domain	Private.	Longitude	117°24'00" W.
Owner	D. M. Duncan, P. E. Galli, J. S. Livemore, 21%; Lacana Mining, Inc., 26.25%; United Siscoe Mines, Inc., 26.25%; Rayrock Mines, Inc., 26.5%; all of Toronto, ON, Canada (1985).		
Operator	Pinson Mining Co., Winnemucca, NV (1985).		

GEOLOGY

Type of ore body	Disseminated, replacement.	Host formation	Preble.
Origin	Hydrothermal, shear zone.	Geologic age	Cambrian.
Shape of ore body	Tabular.	Rock relationships	Massive limestone, replaced by ore, gangue.
Ore controls	Faulting, lithology.		Carbonaceous calcareous shale, replaced by ore, gangue (principal host).
Strike and dip of mineralized zone.	Northeast: 30° SE.		Dolomite, in area, but not associated with gold.
Age of mineralization	Late Cretaceous.		Andesite sills (altered to clay), lies beneath ore, lies between ore horizons.
Mineralized zone average dimensions (main ore body), m:		Alteration	Granodiorite, near ore.
Length	300.	Size	Small.
Thickness	96.		
Excavation depth	360 (planned).		
Mineral names	Gold, pyrite, clay, limonite, goethite, lepidocrocite, quartz, chalcopyrite.		

DEVELOPMENT

Current status	Active-producer.	Mill location	Pinson Mine and on-site heap leach.
Type of operation	Surface.	Mill status	Pinson mill active.
Mining method	Open pit.	Milling method	Pinson is carbon column, agitated leach, CIP.
Year of discovery	1972.	Process rate	See Pinson abstract.
Discovery method	Float and outcrop chip sampling; geochemical.	Product type	Ore.
		Distance shipped	About 24 km by truck.
		Destination	Pinson mill.
Initial production	Fourth quarter 1984.		
Annual production rate	330,000 t ore anticipated.		

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Indicated	1,340,000 tons	0.08 tr oz/ton Au (leach grade)	1980	554
2..Not reported in reference	1,242,000 tons	0.073 tr oz/ton Au	1983	372
3.. Do	1,800,000 tons	0.062 tr oz/ton Au	1984	770

REFERENCES

175, 176, 177, 178, 179, 180, 198, 204, 372, 435, 439, 443, 482, 554, 560, 561, 578, 611, 640, 770, 801.	USGS quad maps	Winnemucca, 1:250,000. Golconda, 7.5'.
	USBM sequence number	0320130443.

Comments: The mineralized zone can be traced for at least 1,200 m along strike.

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

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