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ITEM 59

PINSON—GOLD

Alternate names: Ogee-Pinson

Commodities: Au, Ag, Hg (recovered byproduct)

LOCATION-OWNERSHIP

County	Humboldt.	General location	About 64 km northeast of Winnemucca.
Mining district	Potosi.	Meridian	Mount Diablo.
Elevation	1,500 m.	Tract	Sec. 32, T 38 N, R 42 E.
Topography	Hilly.	Latitude	41°07′45″ N.
Domain	Private.	Longitude	117°17′30″ W.

Owner: J. S. Livermore, P. E. Galli, D. M. Duncan (21%); Lacana Mining, Inc. (26.25%); Rayrock Mines, Inc. (26.5%); United Siscoe Mines, Inc. (26.25%); all of Toronto, ON, Canada (1985).

Operator: Pinson Mining Co., Winnemucca, NV (1985).

GEOLOGY

Type of ore body	Disseminated, breccia fill, replacement	Host formation	Comus.
Origin	Hydrothermal.	Geologic age	Ordovician.
Shape of ore body	Tabular.	Rock relationships	Thin-bedded siltstone and limestone, contains lower grade ore. Massive limestone, replaced by ore, lies above ore. Jasperoid breccia, replaces limestone above, is ore (major host). Andesite dikes, near ore (altered to clay). Phyllitic shale, lies beneath ore and is fault footwall (Cambrian Preble Formation).
Ore controls	Faulting, fractures, lithology.		
Strike and dip of mineralized zone.	Northeast: 40° to 50° E.		
Age of mineralization	Late Cretaceous (90 million yr).		
Mineralized zone average dimensions, m:			
Length	370.		
Width	130 (downdip).		
Thickness	65.		
Depth	About 5.		
Mineral names	Gold, quartz, chalcedony, pyrite, marcasite, sericite, kaolinite, calcite, jasper, cinnabar.	Alteration	Silicification (ore zone), seritization (wallrock), oxidation.
		Size	Small.

DEVELOPMENT

Current status	Active-producer, exploration.	Distance to water supply	<10 km.
Type of operation	Surface.	Road requirement	<1 km.
Mining method	Open pit; about 1,200 t/d ore and 17,000 t/d waste mined.	Distance to power supply	<1 km (road and powerline to Getchell Mine runs very near Pinson).
Year of discovery	1945; again in 1971.	Mill location	On-site.
Discovery method	1945—outcrop; 1971—geological inference and drilling.	Mill status	Active.
		Milling method	Cyanide heap leach. Cyanide pretreatment, carbon column-agitated leach, CIP, electrolysis, smelting.
Initial production	January 1981 (milling); late 1982 (heap leaching). Expected mine life is 10 yr.	Process rate	1,360 t/d (1,500 ton/d) (1983).
		Product type	Dore bullion bars; 34 to 41 kg each, 950 to 975 fine (mercury recovery is 0.9 kg per cathode, 12 to 14 cathodes are refined per shift).
Past production	About 91,000 t ore, shipped to Getchell Mine (1949–50) (*318*). 110,440 t ore mined (1980) (*16*). 340,937 t ore milled; 1,753.3 kg Au recovered (1981) (*372*). 450,663 t ore milled; 2,200 kg Au recovered (1982) (*372*). 1,700 kg Au recovered (1983) (*523*); 1,900 kg Au forecast (1984) (*523*).		
Annual production rate	About 1,741 kg Au (56,000 tr oz).		

PUBLISHED RESERVES-RESOURCES

Class	*Quantity*	*Grade*	*Year*	*Reference*
1..Indicated	3,245,000 tons	0.105 tr oz/ton Au (diluted mill grade)	1980	640
2.. Do	5,000,000 tons	0.025 tr oz/ton Au (leach grade)	1980	554
3..Proven	3,000,000 tons	0.093 tr oz/ton Au (mill grade)	1983	667
Do	2,400,000 tons	0.026 tr oz/ton Au (leach grade)	1983	667

REFERENCES

16, 47, 79, 83, 90, 173, 204, 269, 285, 290, 292, 318, 372, 378, 412, 435, 439, 443, 482, 523, 525, 554, 555, 560, 561, 566, 578, 640, 662, 667, 713, 770, 773, 801.

USGS quad maps	McDermitt, 1:250,000. Osgood Mountains, 15′.
USBM sequence number	0320130220.
Mid number	2601597.

Comments: Two pits are planned for development. Huttl (*292*) reports 3,760 t ore assaying 6.38 g/t Au was produced at the Ogee-Pinson. Original rated mill capacity in 1980 was 907 t/d (1,000 ton/d). In 1983, exploration drilling resulted in additional indicated resource along the mineral zone extension. The new discovery is fairly deep and narrow.

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

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