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ITEM 11

## ATLANTA—GOLD

Alternate names: Atlanta Home, Atlanta Strip, Hillside, Sparrow Hawk, Pactolion Fraction, Belle

Commodities: Au, Ag, minor U

## LOCATION-OWNERSHIP

County .....	Lincoln.	General location .....	About 80 km northeast of Pioche.
Mining district .....	Atlanta.	Meridian .....	Mount Diablo.
Elevation .....	2,073 m.	Tract .....	Sec. 24, T 7 N, R 68 E.
Topography .....	Hilly.	Latitude .....	38°27'57" N.
		Longitude .....	114°19'18" W.
Owner-operator .....	Standard Slag Co., Reno, NV (1984).		
Owner .....	Bobcat Properties, Inc., Fort Lauderdale, FL (1984).		

## GEOLOGY

Type of ore body .....	Disseminated gold in shear-breccia zone.	Host formation .....	Ely Springs Dolomite (see comments).
Origin .....	Hydrothermal; open space filling of breccia zone.	Geologic age .....	Ordovician.
Shape of ore body .....	Tabular (planet).	Rock relationships .....	Dolomite, massive dolomite below ore zone.
Ore controls .....	Faulting, silicification, brecciation.		Jasperoid breccia, portions are ore.
Strike and dip of mineralized zone.	N 5° E: 45° W.		Quartz porphyry, near ore, in places contains low-grade gold.
Age of mineralization .....	Tertiary.	Alteration .....	Silicification, intense; kaolinitic argillization; alunitization.
Mineralized zone average dimensions (breccia zone), m:		Size .....	Small.
Length .....	200.		
Width .....	250.		
Mineral names .....	Gold (microscopic), silver (microscopic), limonite, quartz, manganese oxides, jasperoid, hematite, barite, clay.		

## DEVELOPMENT

Current status .....	Active-producer.	Distance to water supply ...	14 km.
Type of operation .....	Surface.	Road requirement .....	Existing to site.
Mining method .....	Open pit; multiple bench.	Distance to power supply. ..	On-site, 26-km line.
		Mill location .....	On-site.
Year of discovery .....	About 1906; reactivated in 1974.	Mill status .....	Active, producing.
		Milling method .....	Cyanide leach, countercurrent decantation, Merrill-Crowe zinc precipitation, smelting.
Initial production .....	1975 (Standard Slag).	Process rate .....	520 t/d (570 ton/d).
Last production .....	Ongoing 1984.	Product type .....	Bullion.
Past production .....	May 1, 1975, to May 31, 1982: 2,500 kg (80,000 tr oz) Au, 12,000 kg (400,000 tr oz) Ag. Estimated total ore milled is 860,000 t (680).		
Annual production rate..	Estimated 400 kg (13,000 tr oz) Au and 2,000 kg (65,000 tr oz) Ag (132).		

## PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference .....	1,100,000 tons .....	0.08 tr oz/ton Au; 1.6 tr oz/ton Ag .....	1980	61

## REFERENCES

61, 102, 132, 207, 265, 288, 289, 393, 412, 617, 678, 680, 723, 724.	USGS quad maps .....	Lund, 1:250,000. Atlanta, 7.5'.
	USBM sequence number .....	0320170169.
	USGS MRDS number .....	M032067.
	Mid number .....	2601143.

Comments: The Atlanta ore body carries disseminated submicroscopic gold and uranium within a breccia zone consisting of brecciated fragments of limestone (Ordovician-Ely Springs Dolomite), quartz porphyry, quartzite (Ordovician-Eureka Quartzite), volcanic rocks (possibly Tertiary-ignimbrites), jasperoid. Breccia is cemented chiefly by quartz. The ore zone has been intruded by quartz-porphyry and is bounded by 2 high-angle, west-dipping normal faults. Tertiary volcanic ignimbrites form the hanging wall; the Ely Springs Dolomite forms the footwall.



# Principal Deposits of Strategic and Critical Minerals in Nevada

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