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ITEM 53

## STERLING—GOLD

Alternate names: Diamond Queen, Gold Ranch, North Panama, Panama,  
Abrose Open Pit

Commodities: Au, Ag, Hg,  
Sb (Au-Ag ratio  $\approx$  100:1)

## LOCATION-OWNERSHIP

County .....	Nye.	General location .....	About 10 km east of Beatty.
Mining district .....	Bare Mountain.	Meridian .....	Mount Diablo.
Elevation .....	1,220 m.	Tract .....	Sec. 5, T 13 S, R 48 E (unsurveyed).
Topography .....	Rugged, mountainous.	Latitude .....	36°49'50" N.
Domain .....	BLM administered.	Longitude .....	116°38'25" W.
Owner-operator .....	Saga Exploration Co., Winnemucca, NV (1984).		
Owner .....	Geomex Development, Inc., Calgary, AB, Canada, 46.5% (1984).		

## GEOLOGY

Type of ore body .....	Disseminated, fault zone, fissure-filling.	Host formations .....	Wood Canyon.
Origin .....	Hydrothermal.		Bonanza King.
Shape of ore body .....	Tabular.	Geologic ages .....	Possible Precambrian.
Ore control .....	Fault (thrust).		Cambrian.
Strike and dip of mineralized zone.	North: unknown.	Rock relationships .....	Siltstone (breccia), contains ore (upper plate, Bonanza King).
Age of mineralization ...	13.9 million yr.		Shale, contains ore (upper plate, Bonanza King).
Mineralized zone average dimensions, m:			Breccia, common in ore zone.
Length .....	Undetermined.		Jasperoid (breccia), near ore, may be ore.
Width .....	Up to 25.		Dolomite (breccia), near ore, lies beneath ore.
Thickness .....	Up to 20.	Alteration .....	Oxidation, silicification (below ore), kaolinization.
Mineral names .....	Free gold, kaolinite, halloysite, alunite, limonite, jarosite, calcite, fluorite, stibnite, cerrusite, galena, possible cinnabar and pyrite.	Size .....	Small.

## DEVELOPMENT

Current status .....	Active-producer.	Distance to water supply ...	Unknown.
Type of operation .....	Underground, surface.	Road requirement .....	Unknown.
Year of discovery .....	1980 by Cordex exploration.	Distance to power supply ...	On-site diesel electric generation.
Discovery method .....	Unavailable.	Mill location .....	Estimated 1 km east of mine.
Initial production .....	1980.	Mill status .....	Active.
Past production .....	289 kg Au (9,303 tr oz) (1983) (533).	Milling method .....	Cyanide heap leach, carbon column recovery.
Annual production rate .	280 to 370 kg Au.	Process rate .....	270 t/d (300 ton/d) projected in 1980 for crusher; crusher rated capacity is 82 t/h (90 ton/h) (see comments).

## PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference <sup>1</sup> .....	250,000 tons .....	0.5 tr oz/ton Au .....	1980	61
2..Proven, probable, possible <sup>2</sup> .....	200,000 tons .....	0.20 oz/ton Au .....	1983	533

## REFERENCES

61, 97, 98, 209, 210, 533.	USGS quad maps .....	Death Valley, 1:250,000.
		Bare mountain, 15'.
	USBM sequence number .....	0320230486.
	Mid number .....	2601503.

Comments: Garside and Tingley (210) report disseminated gold mineralization occurs along thrust fault between upper plate siltstone and lower plate dolomite. The ore occurs mainly in the siltstone of the upper plate. Ore contains up to 0.5% Hg. In 1980, a test heap was planned in May and full-scale leaching was anticipated to commence as early as June or July 1980.

<sup>1</sup>Garside and Tingley (210) report ore below 0.1 tr oz/ton Au not mined. Ore grades are generally 0.5 to 1 tr oz/ton Au, but can be up to 4 tr oz/ton Au.

<sup>2</sup>Additional 7,500 tr oz recoverable gold reported in open pit. Total recoverable gold reserves is an estimated 41,000 tr oz.



**Information Circular 9035**

# **Principal Deposits of Strategic and Critical Minerals in Nevada**

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



**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**Donald Paul Hodel, Secretary**

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