

## AURORA-GOLD



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Titrania de la Constitución de l

Miseral nasces and a line with

Commodities: Au, Ag

Patented claim names: Silver Lining Consolidated, Humboldt, Humboldt W., Astor, Alice C. Dennis Alternate names: Humboldt East Claims, Humboldt West Claims

#### LOCATION-OWNERSHIP

County Mining district Elevation Topography Domain	Aurora. 2,290 m. Hilly.		General location Meridian Tract Latitude Longitude	Sec. 17, T 5 N, R 28 E. 38°12'23" N.
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#### **GEOLOGY**

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Type of ore body	Fissure vein.	Host formation	
Origin	Hydrothermal.	Geologic age	
Shape of ore body	Tabular.	Rock relationships	Andesite, altered, encloses ore.
Ore controls	Faulting.		Quartz, vein encloses ore, vein is
Strike and dip of	N 40° E: 60 to 70° W.		ore.
mineralized zone.			Potassic, argillic, propylitic.
Age of mineralization	10 million yr.	Size	Small.
Pit zone average			Corrects and
dimensions (1983			dramal and
plan), m:			The William Control of
T	400		

Depth ...... 12 to 35. Mineral names . . . . Native gold, quartz, sulfides (sparse) (typical mineralogy of ore veins has been quartz, adularia, argentiferous tetrahedrite, pyrite, chalcopyrite, and soft blue-gray material containing gold, and native gold).

60 to 120.

#### DEVELOPMENT

Current status Type of operation	Active-producer; developing. Surface.	Distance to water supply	900 m, from abandoned underground workings.
Mining method	Open pit.	Road requirement  Distance to power supply	No new access road required. On-site diesel electric generation.
Year of discovery	District discovery in 1860.	Mill location	On-site.
Discovery method	Unknown.	Mill status	Active-testing.  Test cyanide heap leach, adsorption-
Initial production	June 1983 (planned).		description columns, electrolysis,
Past production	The first dore was planned to be poured in July 1983. Planned production for 1983 was 77,000 t	Process rate	90-t jaw and cone crusher, estimate about 1,600 t/d and 196,000 t/a.
	containing about 300 kg gold. Anticipated recovery was 70%. Total waste production planned was	Product type	Gold dore.
	200,000 t (309).		

### PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1Probable and inferred       1,500,000 tons         2Not reported in reference       1,200,000 tons		0.129 tr oz/ton Au		309 444
		REFERENCES		
7, 90, 228, 309, 356, 444, 598.		USGS quad maps	Walker Lake, Aurora, 15'.	1:250,000.
		USBM sequence number		

Comments: Ore body reflected in published reserves is reported to be open at depth and along strike.

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UNITED STATES DEPARTMENT OF THE INTERIOR

Donald Paul Hodel, Secretary

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