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SANTA FE-GOLD

Alternate names: None

hematite, barite, calcite.

Commodities: Au, Ag (Au-Ag ratio = 1:15)

LOCATION-OWNERSHIP

County	Santa Fe.	Meridian	
Elevation		Tract	
Domain	BLM administered.	Longitude	118°09′20″ W.

GEOLOGY

Type of ore body	Disseminated, epithermal, replacement in breccia fill.	Host formations	Guild Mine Member of Mickey Pass Tuff.
Origin	Hydrothermal.		Pamlico.
Shape of ore body	Irregular, pipelike.	Geologic ages	Oliogocene.
Ore controls	Faulting, lithology.		Triassic.
Strike and dip of mineralized zone.	N 30° to 40° W: 75° to 80° NE.	Rock relationships	Rhyodacite tuff (densely welded), above ore, encloses ore.
Age of mineralization	Miocene.		Limestone (medium-grained), encloses
Mineralized zone aver-			ore, lies along ore, below ore.
age dimensions, m:			Jasperoid breccia, is ore.
Length	530 to 1,100.	Alteration	Silicification, carbonitization,
Width	120.		sericitic.
Thickness	>300.	Size	Small.
	Gold, silver, pyrite, quartz, jasper,		

DEVELOPMENT

Current status	Active-feasibility.	Distance to water supply	Unknown.
Type of operation	Surface.	Road requirement	0.8 km.
Mining method	Open pit proposed (300 m long by	Distance to power supply	
	60 wide).	Mill location	
		Mill status	Feasibility study-1983.
Year of discovery	Claims first staked early 1960's.	Milling method	Cyanide heap leach anticipated; small scale, on-site heap leaching
Annual production rate .	590,000 t/a ore anticipated as		was planned for 1984.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference	
1Not reported in reference	4,360,000 tons 0.082	tr oz/ton Au; 1.22 tr oz/ton Ag	1981	690	
2 Do		oz/ton Au; 0.45 tr oz/ton Ag		657	
		tr oz/ton Au; 0.9 tr oz/ton Ag		657	
3 Do		tr oz/ton Au; 0.45 tr oz/ton Ag		786	
4 Do	6,900,000 tons (oxide) 0.048	tr oz/ton Au	1984	531	
	REI	FERENCES			
86, 130, 196, 463, 503, 523, 531, 598, 650, 657, 690, 786.	8, 650, 657,	USGS quad maps	Walker Lake,	, 1:250,000.	
		TIODA	Luning, 7.5'.		
		USBM sequence number			
		USGS MRDS number	WU1042U.		

Comments: Gold and silver occur within a pyritic jasperoid replacement of brecciated carbonate and volcanic rocks. By December 1982, drilling had not defined bottom of mineralized pipe. In June 1983, Westley Mines Ltd. was carrying out feasibility studies into the development of an open pit mine using heap leach for metal recovery.

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 MINESRobert C. Horton, Director