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GIBELLINI—MANGANESE

Alternate names: Nigans Manganese-Nickel, Black Iron

Commodities: Mn, Ni, Zn

LOCATION-OWNERSHIP

County	Eureka.	General location	About 27 km south of Eureka.
Mining district	Fish Creek.	Meridian	Mount Diablo.
Elevation	2,103 m.	Tract	Sec. 35, T 16 N, R 52 E.
Topography	Hilly.	Latitude	39°12'30" N.
Domain	BLM administered.	Longitude	116°06'23" W.
Owner	Louis Gibellini (1976).		

GEOLOGY

Type of ore body	Shear zone, replacement.	Host formation	Vinini.
Origin	Hydrothermal, replacement.	Geologic age	Lower Devonian.
Shape of ore body	Pipelike, massive.	Rock relationships	Limestone, ore in fractures.
Ore controls	Fracturing, faulting.		Sandstone, lies along ore, lies over ore.
Strike and dip of mineralized zone	N 70° E; 30° W.		Shale, near ore, lies along ore.
Mineralized zone average dimensions, m:			Chert, near ore, lies along ore.
Length	50.		Quartzite, near ore, lies along ore.
Width	30.	Size	Small.
Thickness	20.		
Depth	10.		
Mineral names	Psilomelane, pyrolusite.		

DEVELOPMENT

Current status	Inactive-explored.	Distance to water supply	<3 km.
Type of operation	Surface, underground.	Road requirement	None.
Year of discovery	1942.	Distance to power supply	<100 km.
Discovery method	Ore mineral in place.	Mill location	No mill.
Past production	No production; 2 car lots shipped in 1953 for testing, averaged 31.7% Mn (721).		

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

51, 593, 721.	USGS quad maps	Millett, 1:250,000.
		Cockalorum Wash, 15'.
	USBM sequence number	0320110006.
	USGS MRDS number	W000698.

Comments: The manganese-rich material contains equal amounts of pyrolusite and psilomelane; it also contains appreciable amounts of zinc, nickel, and minor amounts of cobalt, copper, vanadium, and molybdenum. An analysis of a metallurgical sample revealed the following in percent (51):

Mn	Fe	Ni	Co	Zn	Cu	Mo	V ₂ O ₅	Ba	CaO	S	Insol	Al ₂ O ₃
18.5	3.0	1.7	0.3	3.2	0.12	0.11	0.88	3.7	2.3	0.2	41.6	6.0

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
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