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ITEM

Ore body names: Long Lac deposit, Bazza (past open pits: Goldstrike No. 6, Goldstrike No. 9, Pan Cana No. 1, E. P. No. 1, E. P. No. 2)

Commodities: Au, Ag
(Au-Ag ratio = 20:1)

GOLDSTRIKE—GOLD

LOCATION-OWNERSHIP

County Eureka.
Mining district Lynn.
Elevation 1,700 m.
Topography Hilly.
Domain BLM administered.

General location About 38 km northwest of Carlin
Meridian Mount Diablo.
Tract Sec. 30, T 36 N, R 50 E.
Sec. 24, T 36 N, R 49 E.
Latitude 40°58'12" N.
Longitude 116°21'55" W.

Operator Western States Minerals Corp., Wheat Ridge, CO (in a joint venture partnership with Pan Cana Industries) (1984).

GEOLOGY

Type of ore body Disseminated.
Origin Hydrothermal.
Shape of ore body Tabular to elongated lensoid.
Ore controls Faulting, fracturing-brecciation, lithology.
Strike of mineralized zone N 55° W.
Age of mineralization Cretaceous (78 million yr).
Mineralized area average dimensions (estimated), m:
Length 2,100.
Width 1,400.
Thickness 75 to 170..
Depth 10.
Principal minerals Pyrite (auriferous), marcasite (auriferous), quartz, sericite, kaolinite, montmorillonite, goethite.
Other Chalcopyrite, scheelite, hematite, garnet, diopside, tremolite, calcite, barite, jarosite, variscite, chalcedony, alunite, stibnite, aragonite, realgar, orpiment, arsenopyrite, sphalerite.

Host formation Vinini Formation (most favorable); skarn, latite, dike, granodiorite.
Geologic age Ordovician (Vinini).
Rock relationships Argillites (carbonaceous), fractures contain ore.
Shales (sometimes carbonaceous), fractures contain ore.
Siltstone, fractures contain ore.
Quartzite (minor), near ore, gangue.
Chert (minor), near ore, gangue.
Limestone (rare), gangue.
Granodiorite-to-diorite stock, contains ore (Early Cretaceous).
Quartz latite and latite dikes, contains ore.
Skarn (zenoliths in diorite stock), contains ore.
Jasperoid, above ore, near ore.
Silicification, argillic, sericite.
Size Small.

DEVELOPMENT

Current status Active-producer.
Type of operation Surface.
Mining method Open pit.

Initial production 1976-77 (by Pan Cana Industries).
Past production About 230 kg Au (1979) (132).

Road requirement None, existing to the site.
Mill location On-site.
Mill status Active.
Milling method Cyanide heap leach.
Process rate Unknown.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

132, 182, 183, 460, 593, 690.

USGS quad maps Elko, 1:250,000.
Rodeo Creek NE, 7.5'.
USBM sequence number 0320110168.
Mid number 2801089.

Comments: Best mineralization occurs at intersection of high-angle structures and following low-angle structures. About 4 to 5 areas or zones of gold mineralization occur in the mine area. Northwest-trending high-angle faults (pre-mineral) have dominant control over mineralization. Individual mineral zones are 60 to 300 m in length with northwest elongation and 15 to 60 m in width. Both oxide and unoxidized ore exists. Oxide ore is known to exist up to 90 m in depth. Unoxidized sulfide ore has been as shallow as 20 m.

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
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