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ITEM

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BOOTSTRAP—GOLD

Alternate names: Bootstrap Mine Dump

Commodities: Au

LOCATION-OWNERSHIP

County Elko.
Mining district Bootstrap.
Elevation 1,750 m.
Topography Rolling hills.
Domain Private.

General location About 56 km northwest of Carlin.
Meridian Mount Diablo.
Tract Sec. 10, T 36 N, R 49 E.
Latitude 41°01'08" N.
Longitude 116°24'58" W.

Owner-operator Carlin Gold Mining Co., Carlin, NV (subsidiary of Newmont Mining Corp., New York, NY) (1984).

GEOLOGY

Type of ore body Disseminated.
Origin Hydrothermal.
Shape of ore body Tabular.
Ore controls Faulting, fracturing, lithology.
Strike of mineralized zone N 70° E.
Mineralized zone average dimensions, m (estimated):
Length 400.
Width 180.
Mineral names Undetermined.

Host formation Vinini (upper plate of Roberts Mountains Thrust Fault).
Geologic age Ordovician.
Rock relationships Brecciated limestone, contains ore in fractures.
Siltstone, contains ore in fractures.
Porphyry dikes, contains ore in fractures.
Jasperoid, jasperoid breccia, near ore.
Alteration Argillic, silicification.
Size Small.

DEVELOPMENT

Current status Active, producing.
Type of operation Surface, low-grade dump leach.
Mining method Open pit (inactive-ore body depleted). Mining began by Carlin Mining Co. in 1973.
Year of discovery About 1940; Newmont made additional discoveries in early 1970's.
Discovery method Surface sampling, drilling.
Initial production Late 1950's or early 1960's; Carlin in 1975. Present dump leach began in 1979.
Last production From open pit in 1978. Leach dump to produce until end of 1985 or 1986.
Past production 104.5 kg Au (1983) (511). About 820,000 t, 0.88 g/t Au ore has been treated into mid-1984.
Annual production rate About 200 kg Au at peak, less currently.

Distance to water supply ... On-site wells.
Road requirement Existing, 19-km access road built to Carlin Mine.
Distance to power supply ... On-site diesel electric generation.
Mill location On-site.
Mill status Active.
Milling method Dump cyanide heap leach, carbon adsorption.
Process rate 200,000 t/a ore, at 54% Au recovery.
Product type Gold-loaded carbon in drums.
Distance shipped 19 km.
Destination Carlin mill at Carlin Mine for further processing by caustic-cyanide solution, strip solution, electro-winning on steel wool and smelted to dore products.

PUBLISHED RESERVES-RESOURCES

| Class | Quantity | Grade | Year | Reference |
|------------------------------|-----------------|--|------|-----------|
| 1..Not reported in reference | 2,100,000 tons | About 0.15 tr oz/ton Au (includes Carlin's Blue Star Mine 1974 unmined reserves). | 1974 | 510 |
| 2..Proven | <1,000,000 tons | 0.044 tr oz/ton Au (0.028 to 0.063 tr oz/ton; low-grade material stockpiled from previous mining operation). | 1979 | 378 |

REFERENCES

83, 186, 226, 319, 378, 398, 412, 505, 506, 510, 511, 589, 616, 669.

USGS quad maps McDermitt, 1:250,000.
USBM sequence number Santa Renia Field, 7.5'.
Mid number 0320070349.
2600501.

Comments: About 800,000 t of low-grade material containing 0.96 g/t was stockpiled for leaching from previous mining. Heap leaching of this material continues after construction of dump leach facility in 1978.

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