Alternate names: Bootstrap Mine Dump

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


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 age dimensions, m (estimated):
Length .......... 400.
Width .......... 180.
Mineral names .......... Undetermined.

Current status .......... Active, producing.
Type of operation .......... Surface, low-grade dump leach.
Year of discovery .......... About 1940; Newmont made additional discoveries in early 1970's.
Discovery method .......... Surface sampling, drilling.
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 220,000 t, 0.86 g/t Au ore has been treated into mid-1984.
Annual production rate .......... About 200 kg Au at peak, less currently.

LOCATION-OWNERSHIP

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

GEOLOGY

Host formation .......... Vinini (upper plate of Roberts Mountains Thrust Fault).
Geologic age .......... Ordovician.
Rock relationships .......... Breciated 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

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 .......... Active.
Mill status .......... On-site.
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 .......... 10 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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Year</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>About 0.15 tr ox/ton Au (includes Carlin's Blue Star Mine 1974 unmixed reserves). 0.044 tr ox/ton Au (0.028 to 0.063 tr ox/ton; low-grade material stockpiled from previous mining operation).</td>
<td>1974</td>
<td>510</td>
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<tr>
<td>USGS quad maps .......... McDermitt, 1:250,000.</td>
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<td></td>
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<tr>
<td>Santa Renia Field, 7.5'.</td>
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<td>USBM sequence number .......... 0320070549.</td>
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<tr>
<td>Mid number .......... 2600001.</td>
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</tbody>
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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