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ITEM 13



# TAYLOR—SILVER

Associated pit names: Northwest, Northeast, Bishop, Argus

Commodities: Ag, Au

## LOCATION-OWNERSHIP

| | | | |
|---|---|---|---|
| County | White Pine. | General location | About 24 km southeast of Ely. |
| Mining district | Taylor. | Meridian | Mount Diablo. |
| Elevation | 2,290 m. | Tract | Sec. 16, T 14 N, R 65 E. |
| Topography | Hilly, rugged. | Latitude | 39°04′40″ N. |
| Domain | Mixed; private and National forest. | Longitude | 114°40′50″ W. |

Owner-operator ..... Silver King Mines, Inc., Salt Lake City, UT, 50% (1984).
Owner ..... NERCO Minerals Co., Fairbanks, AK, 50% (A subsidiary of Pacific Power and Light Co., Portland, OR) (1984).

## GEOLOGY

| | | | |
|---|---|---|---|
| Type of ore body | Disseminated, breccia fill, replacement. | Host formation | Guilmette (possibly Joana). |
| Origin | Hydrothermal. | Geologic age | Devonian. |
| Shape of ore body | Tabular, blanketlike. | Rock relationships | Limestone breccia, encloses ore. Jasperoid limestone, is ore, gangue. Rhyolitic dikes and sills, intrudes ore, contains ore zenoliths. |
| Ore controls | Fractures, folding, bedding. | | |
| Strike and dip of mineralized zone. | N 18° W: 40° E. | | |
| Age of mineralization | Cretaceous or Tertiary. | Alteration | Silicification (jasperoid). |
| Mineralized zone average dimensions (of central higher deposit), m: | | Size | Medium. |
| Length | 900. | | |
| Width | 150. | | |
| Thickness | 15. | | |
| Depth | 9. | | |

Mineral names ..... Argentite, native silver, possible cerargyrite, rare galena, chalcopyrite, tetrahedrite, sphalerite, stibnite, calcite, clay, limonite, rare fluorite.

## DEVELOPMENT

| | | | |
|---|---|---|---|
| Current status | Active-producer.[1] | Distance to water supply | 1.8 km to deep wells. |
| Type of operation | Surface. | Road requirement | 6 km was improved. |
| Mining method | Open pit, benched; ore production about 1,500 t/d; stripping ratio = 1.7:1 (waste:ore). | Distance to power supply | 5-km 69-kV line installed. |
| | | Mill location | On-site. |
| | | Mill status | Producing. |
| | | Milling method | Agitated cyanide leach, CCD, zinc dust precipitation. |
| Year of discovery | 1868 (district); early 1960's (present deposit). | Process rate | 1,090 t/d (1,200 ton/d). |
| Discovery method | Percussion drilling. | Product type | Silver precipitate. |
| | | Distance shipped | 885 km. |
| Initial production | 1965 (by Silver King, underground); May 1981 (open pit). | Destination | Handy & Harmon, El Monte, CA. |
| Past production | District—about 54,000 t ore, 690 g/t Ag (prior to 1885). District—about 91,000 t ore, 340 g/t Ag (1920–60). Taylor underground—3,600 t ore, 1,030 g/t Ag (1964). Taylor Pit—>87,000 kg Ag (1982 to early 1984) (*676*). | | |
| Annual production rate | 2,600 to 3,300 kg (85,000 to 105,000 tr oz/month). | | |

## PUBLISHED RESERVES-RESOURCES

| *Class* | *Quantity* | *Grade* | *Year* | *Reference* |
|---|---|---|---|---|
| 1..Proven and indicated | 10,000,000 tons | 3.2 tr oz/ton Ag | 1980 | 636 |
| 2..Measured and indicated | 7,000,000 tons | 3.2 tr oz/ton Ag (cutoff 2 tr oz/ton Ag) | 1983 | 637 |

## REFERENCES

12, 90, 120, 121, 153, 157, 165, 167, 251, 252, 284, 390, 414, 428, 429, 441, 442, 445, 446, 582, 636, 637, 644, 647, 652, 654, 676, 760, 777, 789, 790.

USGS quad maps ..... Ely, 1:250,000. Conners Pass, 7.5′.
USBM sequence number ..... 0320330465.
Mid number ..... 2601564.

Comments: Mineralized zone—asymmetrical-plunging anticline; orientation of dimensions are gross estimates.

[1]The Taylor Mine closed after December 31, 1984, because of depressed silver prices.

Information Circular 9035

# Principal Deposits of Strategic and Critical Minerals in Nevada

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