BUILLION MONARCH—GOLD

Alternate names: Polar Resources Pit

Commodities: Au, Ag

LOCATION-OWNERSHIP

County: Bureka.
Mining district: Lyon.
Elevation: 1,770 m.
Topography: Hilly.
Domain: BLM administered.

General location: About 30 km northwest of Carlin.
Maridian: Mount Diablo.
Tract: Sec. 10, T 35 N, R 60 E.
Latitude: 40°33'09" N.
Longitude: 116°30'07" W.

GEOLOGY

Type of ore body: Vein (fault zone); disseminated.
Origin: Hydrothermal.
Shape of ore body: Podlike (along fault zone).
Ore controls: Faulting; fracturing.
Strike and dip of mineralised zone: N 60° W; steeply northeast.
Age of mineralisation: Miocene.
Mineralised zone average dimensions, m: Length 270.
Width Unknown.
Pit depth: 6 (estimated 1982).
Mineral names: Quartz, iron oxides, clays.

Host rocks: Roberts Mountains and Volcanics.
Geologic age: Devonian (Roberts Mountains), Tertiary (Volcanics).
Rock relationships: Fault gouge, contains ore, is cut.
Alteration: Limestone, lies under ore (footwall).
Volcanics, lies above ore (hanging wall).
Jasperoid, near ore.

 alteration: Silicification (gold zone), argillite (carbonate wall rock).
Size: Small.

DEVELOPMENT

Current status: Active-producer.
Type of operation: Surface.
Mining method: Conventional open pit.
Past production: More than 90,000 t ore produced by 1981 (72G).

Distance to water supply: On-site, developed.
Road requirement: Developed to site.
Mill location: On-site.
Mill status: Active.
Process rate: 180 t/d (peak load 360 t/d).

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information; however, published grade is 0.3 t oz/ton Au (see comments) (69G).

REFERENCES

182, 183, 598, 690, 72G.

USGS quad maps: Winnemucca, 1:250,000.
USGS sequence number: 032011214.
Mid number: 2601243.

Comments: Average grade ranges from 7.5 to 55.6 g/t Au; highest grade reaching 240 to 270 g/t Au.
Principal Deposits of Strategic and Critical Minerals in Nevada

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