EMERSON—TUNGSTEN

Alternate names: Tempiute, Tem Plute, Lincoln, Wah Chang Tungsten Mine
North Tempiute, South Thumb

LOCATION-OWNERSHIP

General location: About 99 km west of Caliente.
Meridian: Mount Diablo.
Tract: Sec. 36, T 3 S, R 56 E.
Latitude: 37°38'52" N.
Longitude: 118°37'40" W.

Commodities: W, Mo, Zn, CaF₂, U

COUNTY: Lincoln.
MINING DISTRICT: Tempiute.
ELEVATION: 2,015 m.
TOPOGRAPHY: Rugged.
DOMAIN: Mixed; private and BLM administered.


GEOLOGY

HOST FORMATION: Guilmette.
GEOLeGIC AGE: Mississippian.
ROCK RELATIONSHIPS: Limestone, replaced by ore, lies along ore.
Hornfels, near ore.
Quartzite, near ore.
Marble, lies along ore.
Skarn (tactite), is ore, gangue.

TYPE OF ORE BODY: Replacement, disseminated, shear zone.
ORIGIN: Contact metamorphic, hydrothermal.
SHAPE OF ORE BODY: Irregular.
ORE CONTROLS: Contact zone, lithology.
STRIKE AND DIP OF MINERALIZED ZONE: N 40° E: 60° W.
MINERALIZED ZONE AVERAGE DIMENSIONS, M: Length 2,000, Width 500, Thickness 15.
MINERAL NAMES: Scapolite, tremolite, muscovite, magnetite, bismuth, scheelite, sphalerite, fluorite, molybdenite, garnet, pyrite, pyrrhotite.

DEVELOPMENT

CURRENT STATUS: Active-standby.
TYPE OF OPERATION: Surface-underground.
MINING METHOD: Shrinkage stoping, open pit.
YEAR OF DISCOVERY: 1916.
DISCOVERY METHOD: Ore mineral in place.
INITIAL PRODUCTION: 1937.
LAST PRODUCTION: 1981.
PAST PRODUCTION: Several million kilograms of tungsten metal recovered.

DISTANCE TO WATER SUPPLY: On-site.
ROAD REQUIREMENT: None.
DISTANCE TO POWER SUPPLY: On-site.
MILL LOCATION: Inactive.
MILL STATUS: Scheelite flotation.
MILLING METHOD: WO₃ concentrate.
PRODUCT TYPE: WO₃ concentrate.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quad maps: Caliente, 1:250,000.
Tempiute Mountain, 15'.
USBM Sequence number: 0522170012.
USGS MRDS number: M000947.
Min number: 2600340.
Principal Deposits of Strategic and Critical Minerals in Nevada

By N. T. Lowe, Russell G. Raney, and John R. Norberg