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ITEM 18

GARNET-TENNESSEE MOUNTAIN—TUNGSTEN

Alternate names: Knowles Bros. Tungsten Claims, Tennessee Mountain Mine,
Tennessee Mountain, Garnet Tungsten, Garnet

Commodities: W, Mo

LOCATION-OWNERSHIP

County Elko.
Mining district Alder.
Elevation 2,438 m.
Topography Rugged.
Domain National forest.

General location About 24 km east of Mountain City.
Meridian Mount Diablo.
Tract Sec. 17, T 45 N, R 56 E.
Latitude 41°47'41" N.
Longitude 115°40'25" W.

Owner Knowles Bros., 50%; P. D. Montrose, 50% (1981).
Operator PAB Oil and Mining (1981).

GEOLOGY

Type of ore body Replacement.
Origin Contact metasomatic, metamorphism.
Shape of ore body Tabular.
Ore controls Contact zone, igneous.
Strike and dip of mineralized zone. N 50° W: 55° S.

Mineralized zone average dimensions, m:

Length 335.
Width 53.
Thickness 8.
Depth 53.

Mineral names Scheelite, powellite, molybdenite, pyrite,
chalcopyrite, magnetite, garnet, uraninite, chlorite, epidote.

Host formation Tennessee Mountain.
Geologic age Ordovician.
Rock relationship Limestone, encloses ore, replaced
by ore.
Shale, encloses ore, replaced by ore.
Skarn (tactite), replaced by ore.
Hornfels, replaced by ore.
Size Medium.

DEVELOPMENT

Current status Inactive-past producer.
Type of operation Underground.
Mining method Sublevel.

Distance to water supply ... On-site.
Road requirement None.
Distance to power supply ... >100 km.

Year of discovery 1949.
Discovery method Ore mineral in place.

Initial production 1970.
Last production 1977.
Past production Confidential proprietary data.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference	396,000 tons	0.42% WO ₃	1977	526, 527

REFERENCES

70, 91, 139, 154, 226, 278, 526, 527, 669, 733.

USGS quad maps Wells, 1:250,000.
Rowland, 15'.
USBM sequence number 0320070011.
USGS MRDS number D001177.

Information Circular 9035

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