

3600 0032

(E OF 205)  
119

ITEM 33

**GUNMETAL-TUNGSTEN**

Alternate names: Desert Scheelite; Garnet; Lindsay; Summerfield

Commodities: W, Mo, Au

**LOCATION-OWNERSHIP**

County .....	Mineral.
Mining district .....	Shoshone.
Elevation .....	2,255 m.
Topography .....	Rugged.
Domain.....	Private.
Owner.....	Union Carbide Corp., Danbury, CT (1981).

General location .....	About 70 km northwest of Tonopah.
Meridian .....	Mount Diablo.
Tract .....	Sec. 18, T 6 N, R 37 E.
Latitude .....	38°23'10" N.
Longitude.....	117°53'40" W.

**GEOLOGY**

Type of ore body .....	Replacement.
Origin.....	Contact metasomatic.
Ore controls .....	Lithology, faulting.
Mineralized zone average dimensions, m:	
Length .....	214.
Thickness .....	15.
Mineral names .....	Scheelite, garnet, galena, tetrahedrite, molybdenite, sphalerite, quartz, calcite, epidote.

Host formation .....	Luning.
Geologic age.....	Triassic.
Rock relationships.....	Limestone, replaced by ore.
Size .....	Marble, gangue, encloses ore.
	Skarn (tactite), gangue, encloses ore.
	Large.

**DEVELOPMENT**

Current status.....	Inactive-past producer.
Type of operation .....	Surface-underground.
Year of discovery .....	1916.
Discovery method .....	Unknown.
Past production .....	Confidential proprietary data.

Distance to water supply ...	On-site.
Road requirement .....	None.
Distance to power supply ...	<50 km.

**PUBLISHED RESERVES-RESOURCES**

No published reserve-resource information.

**REFERENCES**

223, 343, 444, 598, 608, 733, 740, 774.

USGS quad maps .....	Tonopah, 1:250,000.
USBM sequence number .....	0320210054.
USGS MRDS number .....	M030116.

**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**

Carson City, Nevada  
September 27, 1943.

MARVEL TUNGSTEN PLACER CLAIM (HIGH-T COMPANY)  
Pilot Mountains, Mineral County, Nevada

by  
Max P. Erickson

J. S. Frey and O. H. Gulack, Operating as the High-T Company, plan to remill the tailings from the Gunmetal mine in the Pilot Mountains, Mineral County, Nevada. The tailings are on the unpatented Marvel placer claim at the site of the old Gunmetal mill about one-half mile from the Gunmetal mine. Frey and Gulack leased the claim about August 1, 1943, from the locators, B. F. Baker and P. E. Hussar, both of Mina, Nevada.

Some equipment for a mill is already at the property. A building and some pipe were obtained from Simon, Nevada; and three second-hand tables were bought from the Economy Company in Los Angeles. According to Frey and Gulack, equipment yet needed includes elevators, two pumps, screens and a classifier.

A small spring, estimated by Frey to flow at the rate of 7 gallons per minute, is available for milling operations. Return systems are planned to conserve the supply.

In a test run at the old Desert Scheelite mill, 13 pounds of 4.05% concentrate were recovered from 500 pounds of the tailings, a recovery of slightly over 2 pounds of  $WO_3$  per ton. This product, when cleaned by the magnetic separator at the Smith and Jackson mill near Bishop, yielded a 57% concentrate.

I visited the property September 21 and 22 and took 3 samples from different parts of the tailings. The samples, assayed by the Bishop Assaying and Engineering Company, contained 0.124%, 0.140%, and 0.144%  $WO_3$ . The average was 0.136%  $WO_3$ . My calculations, based on surface measurements and estimated depths of the tailings dump, indicate about 12,000 tons, assuming 20 cubic feet to the ton. Stop measurements in the Gunmetal mine, according to Bateman and Erickson (report of June 27 on the Tungsten Deposits of the Pilot Mountains), show about 9,500 tons of tactite were mined.

The dump appears to comprise at least 9,500 tons that contain approximately 1,290 units of  $WO_3$ . If the yield is 0.1%, as indicated by the test run, remilling will result in a total production of 950 units of  $WO_3$ .

U. S. GEOL. SURVEY  
**CONFIDENTIAL**  
FOR USE OF  
U. S. GOVERNMENT  
ONLY

205  
Carson City, Nevada  
September 27, 1943

Dear Sir

MARVEL TUNGSTEN PLACER CLAIM (HIGH-T COMPANY)  
Pilot Mountains, Mineral County, Nevada

by  
Max P. Erickson

J. S. Freu and O. H. Gulack, Operating as the High-T Company, plan to remill the tailings from the Gunmetal mine in the Pilot Mountains, Mineral County, Nevada. The tailings are on the unpatented Marvel placer claim at the site of the old Gunmetal mill about one-half mile from the Gunmetal mine. Freu and Gulack leased the claim about August 1, 1943, from the locators, B. F. Baker and P. E. Hussar, both of Mina, Nevada.

Some equipment for a mill is already at the property. A building and some pipe were obtained from Simon, Nevada; and three second-hand tables were bought from the Economy Company in Los Angeles. According to Freu and Gulack, equipment yet needed includes elevators, two pumps, screens and a classifier.

A small spring, estimated by Freu to flow at the rate of 7 gallons per minute, is available for milling operations. Return systems are planned to conserve the supply.

In a test run at the old Desert Scheelite mill, 13 pounds of 4.05% concentrate were recovered from 500 pounds of the tailings, a recovery of slightly over 2 pounds of  $\text{WO}_3$  per ton. This product, when cleaned by the magnetic separator at the Smith and Jackson mill near Bishop, yielded a 57% concentrate.

I visited the property September 21 and 22 and took 3 samples from different parts of the tailings. The samples, assayed by the Bishop Assaying and Engineering Company, contained 0.124%, 0.140%, and 0.144%

WO<sub>3</sub>. The average was 0.136% WO<sub>3</sub>. My calculations, based on surface measurements and estimated depths of the tailings dump, indicate about 12,000 tons, assuming 20 cubic feet to the ton. Stop measurements in the Gunmetal mine, according to Bateman and Erickson (report of June 27 on the Tungsten Deposits of the Pilot Mountains), show about 9,500 tons of tactite were mined.

The dump appears to comprise at least 9,500 tons that contain approximately 1,290 units of WO<sub>3</sub>. If the yield is 0.1%, as indicated by the test run, remilling will result in a total production of 950 units of WO<sub>3</sub>.

Pilot Mts

205

Statistics on tungsten production. Source: Bureau of Mines and Geological Survey Mineral Resources, from Nolan cards.  
No record of Pilot Mts production prior to 1925.

1925	3200	2,560	American Tungsten Co. Re-org 1926 as Nevada Tungsten Co.
1929	67	795	Gummatal Group (W.L. Esson)
1933	84	840	(Mina Mercantile Co.)
1940	1,412	29,300	
1941	1,485	36,121	
1942	377	8,933	
	<hr/>	<hr/>	
	3,745	\$78,549	

Garnet, Desert Schelite  
and Gummatal Group  
Reported by Desert Schelite  
min. Co. in 1942

Tonnage - Balinum Estimate

Gummatal	9,500	(3000 ±)
Garnet	1,050	129
Desert Sch	1,000	150
	<hr/>	
	11,550	

Comet

1916	2,967 # conc	65 units	\$1,726	Tungsten Comet Min. Co. E.D. Smiley, Pres. conc. sold
------	--------------	----------	---------	---

16 00	0.4
8 -	0.5
40 00	0.5
4 000	0.5

R

(-700) 002.0  
T-1 - 020.1  
021 001.1  
022.1