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282

ITEM 63

SPRINGER—TUNGSTEN

Alternate names: Nevada-Massachusetts, Sutton, Stank Mine, Humboldt Mine, Uncle Sam, Summit Mine, Mill City, Humboldt-Springer, Tungsten

Commodities: W, Mo

LOCATION-OWNERSHIP

County	Pershing.	General location	About 13 km north of Imlay.
Mining district	Mill City.	Meridian	Mount Diablo.
Elevation	1,493 m.	Tract	Sec. 35, T 34 N, R 34 E.
Topography	Hilly.	Latitude	40°46′53″ N.
Domain	Mixed; private and BLM administered.	Longitude	118°07′56″ W.

Owner: General Electric Corp., Fairfield, CT, 80%; Broken Hills Proprietary, Ltd., Melbourne, Australia, 20% (1983).
Operator: Utah International, Inc., San Francisco, CA (a wholly owned subsidiary of Broken Hills Proprietary, Ltd.) (1983).

GEOLOGY

Type of ore body	Replacement, fissure vein.	Host formation	Raspberry.
Origin	Contact metasomatic, hydrothermal.	Geologic age	Upper Triassic.
Shape of ore body	Tabular.	Rock relationshps	Limestone, replaced by ore, gangue.
Ore controls	Lithology, bedding.		Hornfels, lies over ore, lies under ore.
Strike and dip of mineralized zone.	N 20° E: 70° W.		Slate, lies over ore, lies under ore.
Mineralized zone average dimensions, m:			Quartzite, lies over ore, lies under ore.
Length	1,524.		
Width	400.	Size	Large.
Thickness	9.6.		

Mineral names: Scheelite, molybdenite, chalcopyrite, turquoise, arsenopyrite, stilbite, pyrrhotite, garnet, pyrite.

DEVELOPMENT

Current status	Inactive-developed (standby).	Distance to water supply	<3 km.
Type of operation	Underground.	Road requirement	None.
Mining method	Shrinkage stope (65%), cut and fill (35%).	Distance to power supply	On-site.
		Mill location	On-site.
		Mill status	On standby.
Year of discovery	1914.	Milling method	Flotation and chemical (APT).
Discovery method	Ore mineral in place.	Process rate	907 t/d.
		Product type	APT.
Initial production	1982 (from district, 1917).	Distance shipped	3,496 km by truck.
Last production	Produced for a period in 1982.	Destination	Cleveland, OH (G.E.'s Refractory Metals products).

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

206, 259, 260, 263, 314, 329, 342, 343, 352, 376, 421, 478, 608, 685, 715, 739, 774, 830, 846, 848.

USGS quad maps	Lovelock, 1:250,000. Eugene Mountains Area, 15′.
USBM sequence number	0320270048.
USGS MRDS number	M060313.
Mid number	2600964.

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

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Donald Paul Hodel, Secretary

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