2020 0013	Item	13	(128)	Tungsten -	
THE THE ROOM	BY: CCM	w.o.	885.1	MINERAL: Tungsten	
Carroll BRaradberry & Associates	MINERAL DEPOSI	T ALOI		and Manganese	
ENGINEERS CONSULTANTS LOS ALTOS CALIFORNIA	WINI	NEMU		WELLS	
INCORPORATED	PROPERTY NAME:	Go	lconda Min	e	
				-	
the state of				WELLS	
WINNEMUCCA			1		
Golconda Mine			men's		
N SECOND		ELKO	1		
	CARLIA	Xa.		Mop Area	
1	No.	Q.			
*				180	
0 5 10 15 20 25 MILES	PACIFIC			180A	
				7	
LOCATION: Humboldt County, Nevada		DOT	ENTIAL		
W 1/2 36 36 W 1/4 OF NW 1/4 OF SEC 1 TWP 3	N 40E			LARGE	
DISTRICT:	5N RGE 4UF		MEDIATE	MEDIUM	
Charles and the contract of th					
		THE REAL PROPERTY.		JRE DUNKNOWN	
DESCRIPTION Pits and trenches in 6000 103,000 tons of 0.78 percent WO ₂ ; similar	foot long by 10 ar WO content	00 too	ot wide are	ea yielded	
103,000 tons of 0.78 percent WO ₃ ; similatingsten-bearing iron and manganese oxi	des with minor	fluor	rite are in	bedded (over)	
OWNERSHIP Undetermined		-		(Over)	
Olidetel Illined	A				
ACCESS About 2 miles north to the	Western Paci	fic Ra	ailroad and		
Highway 40.			III os es es estados de estados es estados es estados es estados estad		
SOURCES OF DATA Southern Pacific I	Railroad repor	t, "M	inerals for	· Industry".	
part 2, p. 114 (1964)					
PRODUCTION 103,000 tons	. 1			=	
	a ⁿ				
	or godd ant				
RESERVES Undetermined					
ECONOMICS Price is presently depres	sed on both tur	ngster	and mang	anese,	
mainly due to available, rich foreign ore	S.	1770			
				4	
CONCLUSIONS Will undoubtedly be reope	ened in the futu	re wh	en the pric	es rise	
on either tungsten or manganese.					
THE WESTERN PA	CIFIC RAILE	DAD [COMPANY		

Manganeses Mangan Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Manganeses Mangan Manganeses Manganeses Manganeses Manganeses Manganeses Manganes	western act A TO WE	WO S POSIT ALONO VINNEMUCO MARE Golco	BATE 12-20	Corrol (SA) depres & Associates
		J. 6915		WINNEWSCES Golconda Mine
0.1A 9.0		9374	211279	
	iption: (Con	t.) trave		and gravel deposits, 1 to 20

Description: (Cont.) travestine, clay, and gravel deposits, 1 to 20 feet thick; locally clay contains up to 40 percent MnO₂ and 7 percent WO₃; the metallic oxides and travestine were deposited by thermal waters.

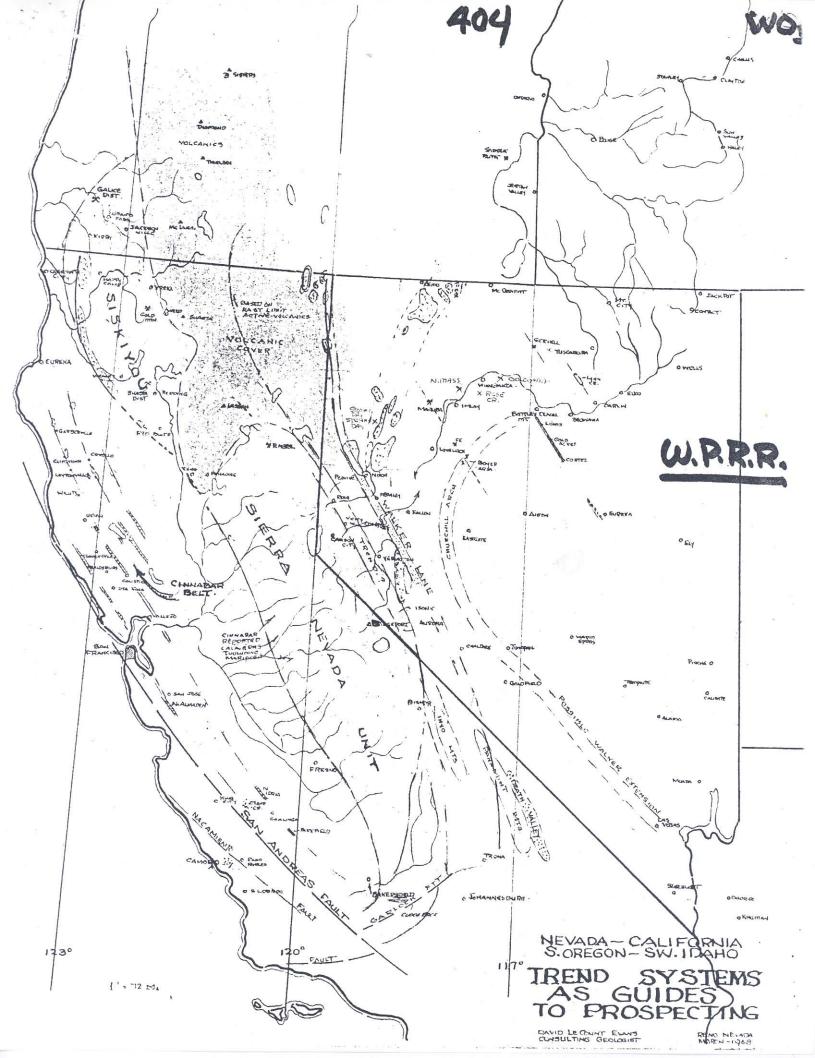
SOURCES OF DATA Southern Pacific Kailroad report, "Minerals for part 2; p. 114 (1964)

SESERVES . Understanded

ECONOMICS Price is presently depressed on both tongsten and manuscess, mainly due to available, rich-foreign ores.

CONCLOSIONS Will undoubtedly be reopened in the fature when the priege rise on either tangeten or manganese.

THE WESTERN PACIFIC RAILROAD COMPANY



TUNGSTEN

Tungsten is a ductile, white metal with a melting point of 3,410° C. (6,152° F.) which is higher than any other metal. It retains much of its tensile strength and elasticity at temperatures up to 500° C. (932° F.) Tungsten steels and carbides are extensively used in machine tools, jet and rocket engines, and other applications where structural strength, extreme hardness, and resistance to wear at elevated temperatures are needed.

Tungsten occurs chiefly as scheelite (CaWO₄) and most tungsten ore bodies are contact deposits developed in lime-rich rocks by granite intrusions. Although tungsten deposits are widely distributed in the world, China has been by far the largest producer (28 percent) and has the largest reserves. The United States has been the second largest producer (13 percent), but until 1951 consumed more than it produced. Nevada and California have been the largest producing states, each having produced about 30 percent of the total for the United States. Quotations for domestic scheelite in mid 1963 were around \$8 and in December 1964 were \$17 to \$19 per short ton unit of WO₃, in contrast to a Government stockpile price of \$63 in 1951-1956. These much lower prices since 1956 have resulted in the closing of most tungsten mines in the United States except a few that produce ores containing other marketable minerals.

About 28 miles northeast of Winnemucca in the Potosi mining district, from 8 to 15 miles north of the Western Pacific Railroad, scheelite occurs around the margins of a large granodiorite body in silicated limestone that is interbedded with argillite. An estimated five hundred thousand units of WO₃ have been produced from underground workings extending to a depth of over four hundred feet. A unit of WO₃ contains 15.86 pounds of tungsten and weighs 20 pounds.

The area north of this district has a thrust plate (a large slice of rock pushed over some other rocks in mountain making) estimated to be 100 to 700 feet thick overlying the ore-bearing strata. As gold also occurs in the mines of the district, a geochemical survey of the covered area north of the Potosi mining district would seem quite worthwhile.

TUNGSTEN (Continued)

The Nevada-Massachusetts property, one of the two largest United States producers of tungsten, is about 27 miles southwest of Winnemucca, Nevada, 11 miles south of the Western Pacific Railroad. It has produced one million five hundred thousand units of WO₃ from open pits and from underground workings which extend to a depth of over fourteen hundred feet.

The Golconda mine, 17 miles southeast of Winnemucca, has produced one hundred five thousand units of WO₃ from tungsten-bearing iron and manganese oxides. These oxides were deposited by Pleistocene hot springs as fissure veins and as blankets cementing gravel beds.