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Tungaten Cocurrence at the

GHARLESTON HILL NATIONAL GOLD - SILVER PROPERTY Service Rose Mountains, Musboldt, County, Navada

Location

On September 5, 1945, the emiter visited the Charleston iil National property, located at a 6200 foot elevation in the Santa Resa Mountains, 27-5 miles northwest from Minnewson, Navada. The property is reached from Minnewson by drawing 24-4 miles northwest on U.S. Righmay 95, then driving 3-1 miles north along a dirt road which leads directly to the mine.

Omerably and Elatory

The IS claims comprising the property were located by Mr. and Mrs. Clough in 1919 for gold and silver. A camp was built at that time and a 1200 foot tunnel prospecting for gold and silver was driven mear the camp. A mill was constructed, but has never milled are from this turns!.

After the death of Mr. Clough, Mrs. Mary L. Clough become president of the Charleston Hill Mational Company.

No work was done recently in the turnet until the discovery of schoolite,

Development Sork and Resignant

No work has been done in the tunnel in exploration for tungston aside from chipping schoolite from the walls in several places. No surface exploration work has been done.

A 50-ton mill, designed to treat gold ore, a blacksmith shop, and a some pressor house, all in poor repair, are on the property. In the tunnel are 1100 feet of track and one ore car. The owner has a drill, compressor, and broken-down engine. Approximately 5 gallons of water per minute flow from the tunnel.

Geology

The property is underlain by a metasedimentary series, striking N50E, and dipping moderately to the west. Hornfels is interbanded with shale and schist-Outting the codiments is a large, steeply-dipping granodicrite dike, 250 feet wide, and a smaller splite dike, The hornfels is hard and silicified near the intrusive contacts, and the granodicrite becomes fine grained at the contacts.

Pyrite and other sulfides are scattered through the sediments and intrusives, and all rock types are cut by quarts seams and veins, varying from a fraction of an inch to 2 feet in midth. The larger veins carry no scheelite, but are reported to contain gold and silver, as well as pyrite and chalcopyrite. The narrow seams, less than an inch wide, carry schoolite. Some seams of 2 to 2 inch wide are nearly half schoolite.

Only 5 colors of schoolite were found in an ultra violet examination of the surface. The 50% slope above the tunnel is almost entirely covered with granite and quartz float shot out or dumped from an old out further up the hill.

Schoolite Peposite

The scheelite occurs only in the narrow scame, in an amount inversely proportional to the width of the seam. No schoolite was observed to be discominated in any of the rocks. There is little difference between the amounts of schoolite in the intrucives and the metasediments.

The concentration of schoolite is greatest at the intersection of 2 or more seams. In one place, 550 feet from the portal of the tunnel, several seams intersect to give a grade of L-0% NO3 for a 2 feet width. It is predicted, homever, that the grade will rapidly decrease in all directions.

Ore Reserves

There is little likelihood that reserves of commercial ore will be developed on the property.

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September 7, 194

NAME SCHELLITE IN VEIN CHARLESTON HILL WATIONAL GOLD-SILVER PROPERTY SHAFF ROSE MOUNTAINS, HUMBOLDT COUNTY, NEVADA P. JORALEKON U. S. GEOLDGICAL SURVEY SEPTEMBER 1943 PALL FEE T OF THE WORKINGS OF THE SEDLOGIG PLAN EXPLANATION