

MINERALOGY.¹—Argentojarosite, *a new silver mineral*. (Preliminary note.) WALDEMAR T. SCHALLER, Geological Survey.

The name argentojarosite is given to a new silver mineral from the Titanic Standard mine at Dividend, Utah. It forms small hexagonal scales of a yellow to brown color, and optically is uniaxial, negative. The mineral closely resembles jarosite, and in fact has been mistaken for it. In composition the new mineral conforms to the general formula of the minerals of the jarosite group and the mean of several analyses shows that its composition is about as follows: Ag_2O , 18 per cent; Fe_2O_3 , 43 per cent; SO_3 , 28 per cent; H_2O , 10 per cent. A little K_2O is present, also some PbO . This composition yields the formula: $\text{Ag}_2\text{O} \cdot 3\text{Fe}_2\text{O}_3 \cdot 4\text{SO}_3 \cdot 6\text{H}_2\text{O}$.

The mineral apparently is sufficiently abundant to be mined as an ore. It is the first silver mineral recorded containing oxygen. A full description of argentojarosite is in preparation.

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