

RARE METAL MAY ADD TO VALUE OF
CUSHMAN ORE

Cushman--Report of the discovery of the presence of rhenium, classified by chemists as Element 75, in manganese ore deposits in the Batesville-Cushman field, is expected to enhance the value of the ore many times.

A request for samples of the ore for analysis to determine the rhenium content has been made by the research department of a northern university, it was said.

All rhenium on the market at the present time is produced in Germany and brings approximately \$30 an ounce.

Arkansas Democrat, Dec. 7, 1935.

**New Discovery May Increase
Manganese Deposits' Value.**

Special to the Gazette. *Dec 7, 1935*
Cushman, Dec. 6.—There is a strong possibility that the manganese ore deposits in the Batesville-Cushman field may be enhanced in value many times by the recent discovery of the presence of rhenium in this ore. Rhenium is classified by chemists as element 75.

The head of the research department of a large Northern university has asked miners of this district to send samples of manganese ore so he can determine the rhenium values. Until recently the problem of analyzing samples to determine the presence of rhenium has been difficult. A satisfactory method for determining small amounts of this element in the presence of large amounts of manganese has been developed.

Rhenium is a homologue of manganese. Some workers say that it is found in large amounts with manganese. Although the element thus far has found little industrial application it has possibilities. It is easily plated on iron, steel, brass and other metals. Because of its marked resistance to solution in hydrochloric acid it is possible that rhenium plating eventually may find commercial application. Iron-rhenium alloys likewise are very resistant to corrosion. At present all rhenium on the market is being produced in Germany, and because of the limited supply and the existence of a virtual monopoly the price is approximately \$30 an ounce. Manganese ore is bringing less than \$15 a ton.