UNITED STATES
DEPARTMENT OF THE INTERIOR

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DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 9 1951
BUREAU OF MINES
DENVER, COLORADO

August 6, 1951

Mr. H. A. Ingraham
Stevens, Pendergast & Ingraham
4300 Vandelia Street
Dallas, Texas

In reply please refer to
DMA-1404-X -- Tungsten

Dear Mr. Ingraham:

Thank you for the production figures that you obtained from Primos Chemical Company showing output from their properties in the Little Dragoon district, Cochise County, Arizona.

The total output shown from June 1915 to April 1951 amounts to 10,545 to 12,348 units of WO_3, calculated from the extremities of the grade range shown in the Company's figures. Examination of the Bluebird Hill workings by the Geological Survey in 1943 indicated that about 7,000 tons had been stoped, and that of this only 10 to 15 per cent was vein matter, for the veins only averaged about 6 inches thick. Assuming the content of WO_3 in the vein quartz at 2.0 per cent, a generous figure, the total production might have been 2,000 units from 1,000 tons of quartz. The balance of the output from the property must have come from the placer workings.

We have considered your proposal to drive an adit 800 feet long beneath the Bluebird workings at a cost of $16,000 (probably a low figure atcurrent costs), and are of the opinion that the work proposed is not justified by the expectable target. You have not presented any survey demonstrating the feasibility of the adit in relation to topography and have not taken into account the substantial amount of underground work done on the property since the date of Mr. Hershey's report in 1915. The claim is now opened by about 1,300 feet of drifts, 350 feet of crosscuts, four 30-foot winzes, one 40-foot raise, and some small stopes. Therefore, we believe that you should reconsider your proposal unless you can present a stronger justification fro the adit, we shall deny the request.

The information we have is insufficient to permit evaluation of the placer proposal. It will be necessary for you to supply us with more information showing results of preliminary sampling by yourself or others. These results should, of course, be expressed in pounds of WO_3 rather than in dollars. Then we should have a map showing precisely what work you propose to do toward evaluating the placer. Your statement in answer to question 21 of the application is not specific enough.

It appears to us that small-scale operations on the placer might be profitable, but that discovery of sufficient material to warrant bringing water 10 miles from Wilcox playa is not likely.

Very truly yours,

George B. Holderer
Chief, Tungsten Branch