



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

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September 9, 1965

Memorandum

To: Colver F. Anderson, Mining Engineer, U. S. Forest Service,
Postoffice Building, Medford, Oregon

From: Head, Mineral Resource Services, Area VII Mineral Resource Office

Subject: Evaluation of Manganese Sample and Three Clay Samples

Evaluation of the four samples by laboratory testing methods have been completed. The following conclusions were drawn from the tabulated data shown in tables 1 through 4 and from observation of the test samples.

Sample A-65-1 (our #11898) contained 13.1 percent Mn as the oxide. Total manganese content of the sample was 14.9 percent Mn, which would indicate that about 1.8 percent of the manganese was combined as the silicate. The silica and iron content of the sample were 64.4 and 1.72 percent SiO_2 and Fe, respectively. Petrographic studies indicated that the sample consisted of essentially stringers of fine grained chert-like silica and manganese oxide minerals. To complete the evaluation of this sample for its economic value flotation tests to determine whether a concentrate of commercial grade could be obtained would be required. We do not have the equipment to do the flotation test work.