~~SECRET~~
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CENTRAL INTELLIGENCE AGENCY
WASHINGTON 25, D. C.

DEPARTMENT OF STATE
☐ Retain class'n ☐ Change / classify to _____
☒ With concurrence of CIA
☒ Declassify ☐ In part and excise as shown
EO 12356, Sec. 1.3 (a) (_____
FPC/HDR by JPH 9/22/94
Withdrawal No. 422-3

10 February 1953

MEMORANDUM FOR: Mr. Joseph Chase

SUBJECT : Manchurian-mined Euxenite Ore

The following is an analysis of the sample of ore transmitted by your memorandum of 23 December 1952. While the uranium content appears to be high, consideration must be given to the fact that the sample is undoubtedly handpicked and does not represent the true analysis for the deposit, would have to be worked in order to obtain the contained uranium.

Chemical and Radiometric analyses:

Sample No.	Lab. No.	% U	% Eq. U
HIM-4	103604	5.5, 5.4	6.4

Mineralogy analyses:

Sample No. HIM-4, Lab. No. 103604:

This sample is pegmatitic material containing quartz, albite, and muscovite. The X-ray pattern of the radioactive mineral is similar to our standard patterns of betafite. The mineral is isotropic and the index of refraction is close to that given for betafite in Dana, 7th edition.

Visual spectroscopic examination shows:

Major: U, Ti, Ta, Nb
Minor: Pb, Fe, Ca
Trace: Ba

Converting the analyses of U% to U_3O_8%, the above become 6.48% U_3O_8 and 6.37% U_3O_8, respectively.

SPECIAL ASSISTANT TO THE SECRETARY
S/AE
FEB 12 1953

H. I. MILLER

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