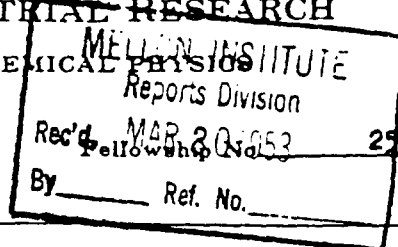


CONFIDENTIAL

Approved King Date MAR 26 1953

MELLON INSTITUTE OF INDUSTRIAL RESEARCH

DEPARTMENT OF RESEARCH IN CHEMICAL PHYSICS

Fellow Mr. J. P. MorganProject X-Ray Analysis: Johns-ManvilleProject No. 259-15XDate of Report March 26, 1953NATURE
OF
REPORTPreliminary _____
Progress _____
Final _____

PLAINTIFF'S EXHIBIT

IHF-414

Sample Fill No. 2, P-2074.

The crystallinity as estimated from the intensity of the lines on the x-ray diagram is about 50%. The major crystalline component is KCl with possibly a small amount of NaCl and some unidentified material.

Sample IHF-C-3536g (gross), P-2079.

This sample is approximately 100% crystalline. The crystalline portion of the sample is made up of 3 parts CaCO_3 to about 1 part Ca silicate. The exact chemical formula for the silicate could not be determined. The best agreement with the data was given by $3\text{CaO} \cdot 2\text{SiO}_2$ and $72\text{CaO} \cdot \text{SiO}_2$.

Sample IHF-Feldspar $< 10\mu$, P-2080.

The diffraction diagram of this sample agrees exactly with the data given in the Hanawalt card file for microcline feldspar (card 1-0705).

Douglas T. Pitman
RESEARCH ASSOCIATE

Douglas T. Pitman
Leroy E. Alexander:mlc

T: 3-26-53

Leroy E. Alexander
SENIOR FELLOW

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2. Dr. King
2. Rev. Dr.