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MELLON INSTITUTE OF INDUSTRIAL RESEARCH

DEPARTMENT OF RESEARCH IN CHEMICAL PHYSICS

MELLON INSTITUTE
Reports Division
Rec'd. AUG 19 1952

Fellowship Ref. No. 259

Fellow Mr. J. F. Morgan

Project Dust Analysis; Indemnity Insurance Company

Project No. 259-2X

Date of Report August 18, 1952

NATURE OF REPORT: Preliminary ____ Progress ____ Final ____

Sample 1382, (P-1851).

Quartz, $Fe_3O_4$, $Fe_2O_3 \cdot H_2O$ are present as minor constituents. The amount of quartz as estimated from the film is 4-8 percent.

Sample 1383, (P1853).

No diffraction lines appeared on the film.

PLAINTIFF'S EXHIBIT
IHF-412

Sample 1384, (P-1852).

This sample gives a diffraction pattern like that of sample 1382 except that it is weaker and the amount of quartz is estimated to be 2-6 percent.

The diffraction patterns given by samples 1382 and 1384 only represent 20-30% of the total sample. Even though asbestos may be present in considerable amount in these three samples, it cannot be detected because of the very poor diffraction pattern it gives. The quartz contents cannot be specified with the usual precision because of the superposition of the 3.35 A line by $Fe_2O_3 \cdot H_2O$.

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