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MOUND LABORATORY-MONSANTO  
Central File No. 62-10-213

October 17, 1962

Dr. R. L. Spaulding, GEX-7  
University of California  
Los Alamos Scientific Laboratory  
Post Office Box 1663  
Los Alamos, New Mexico

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Dear Doctor Spaulding:

Attached for your information and use are five copies of that part of the Mound Laboratory Explosive Component Development Report for September, 1962 (MLM-CF-62-9-224), pages 29 through 38, which contain the item "Pressure-Density Relations of Pressed PETN". This material is furnished in place of a memorandum report originally requested by Mr. W. H. Meyers.

The findings in this investigation of the pressing PETN, which was conducted by Mr. L. D. Haws and Mr. D. H. Knapke, may be summarized as follows:

The pressure-density relation of PETN, except in regions of maximum density, is variable and depends on the crystalline character of the PETN. At high pressures PETN powder is compressible to densities greater than its crystal density but reverts to crystal density after release of pressure; this property is not peculiar to PETN.

Your comments will be appreciated.

Very truly yours,

*H. R. McGraw*

H. R. McGraw  
Group Leader  
Research Department

MOUND DECLASSIFICATION REVIEW	
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Dr. R. L. Spaulding, GDX-7

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October 17, 1962

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