

# Colorado School of Mines Research Institute

February 3, 1977

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**CSMRI**

CSMRI Project C10704

Mr. W. H. Ashton  
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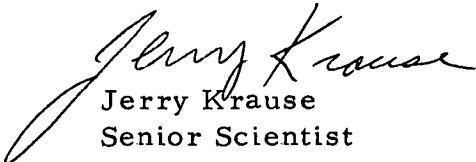
Dear Bill:

As per your verbal request, we have examined two talc samples for the presence of quartz. The samples (identified as Italian ground Italian talc 1976 series I J & J England, and experimental talc 3-16-76P) were subjected to heavy liquid separation and x-ray diffraction examination.

The results of this work show that the Italian talc contains about 1% quartz, whereas the experimental talc contains about 8 ppm quartz. These values were determined in the following manner:

| <u>Sample</u>         | <u>Wt.<br/>(g)</u> | <u>Wt.<br/>(%)</u> | <u>XRD Estimated<br/>Wt. % Qtz.</u> | <u>Wt. % Qtz.<br/>in Original<br/>Sample</u> |
|-----------------------|--------------------|--------------------|-------------------------------------|----------------------------------------------|
| Italian <2.8 sp. gr.  | 0.777              | 2.02               | 50%                                 | 1%                                           |
| 3-16-76P <2.8 sp. gr. | 0.009              | 0.028              | 2-3%                                | 6-9 ppm                                      |

Very truly yours,

  
Jerry Krause  
Senior Scientist  
Mining Division

/cjm