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REPLY TO "DISCUSSION OF 'PYRRHOTITE MEASUREMENT' "

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We have read with interest the comments of Professor Buseck on our note concerning Mt. Bischoff pyrrhotite. Unfortunately the results of the Carnegie Institution were not available to us when our work was done. We would point out that our samples were *x*-rayed immediately after crushing. As a result of Professor Buseck's comments we have examined pyrrhotites containing the monoclinic phase, from another locality, namely the Renison Bell Mine. This was heated for one hour at 450° C. in an evacuated sealed glass tube after which it was quenched and *x*-rayed using FeK $\alpha$  radiation and fixed count technique. Under these conditions it was found that  $2\theta$  FeK $\alpha$  increased 0.16 in value.