1972 May 19

Dr. Hassell Ledbetter, National Bureau of Standards, N.B.S. 275.03 Boulder, Colorado 80302

Dear Sir:

In accordance with your talephone request I am mailing you a 1390 gram sample of the Tishomingo, Oklahoma, iron meteorite with one polised and lightly etched face.

I understand you plan to use this in research on the nickel-iron phase diagram and that your work will be non-destructive. I expect the sample to be returned to me in its present condition.

This piece a nd the other half of it were submitted to the U. S. National some years ago and tested by them at Brookhaven, as I understood it, for Al₂₆ and H₂. They and Buccheit at Columbus have studied the structure intensively. There is a little spot on this surface where Henderson thought there might be a troilite inclusion just undermeath, and I think they Karayed it for that.

They made a great to-do over the martensitic structure, but would never tell me whether it was kamacite, taenite or plessite. If there is any validity to these distinctions I would think this is nothing but a mass of plessite. I think sthey almost wore out their electron microprobes on these specimens?

You will note a little rusting at two areas; if you want to remove this for any reason I have no objection. But I do think the Smithsonian boys do a beautiful job of polishing and etching and I would hate to see that ruined or changed in general.

Please acknowledge receipt. It will be interesting to hear what you plan and what you learn.

Sincerely.

Onul Monny

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