HLWYM HEmails

From: Brittain Hill
Sent: Tuesday, June 19, 2007 9:47 AM
To: Debashis Basu; John Stamatkos; Donald Hooper; John Trapp; James Rubenstone; nancy.adams@swri.org
Subject: Re: slicing

As I recall, this was the LANL report that had grain-size analyses for the <1mm fraction:

Crowe, B.M., K.H. Wohletz, D.T. Vaniman, E. Gladney, and N. Bower. 1986. Status of Volcanic Hazard Studies for the Nevada Nuclear Waste Storage Investigations. Los Alamos National Laboratory Report LA-9325-MS, Vol. II. Los Alamos, NM: Los Alamos National Laboratory.

We measured the coarse xenolith fraction on exposures at the upper cone flank, south side, in 1998 using the image analysis system. These deposits also had the breccia bombs like those at 1975 Tolbachik. Measurements from earlier in the eruption (deeper in the cone) may only be possible now, based on current mining ops, which might be a factor.

Fuel for thought

>>> John Trapp 6/19/2007 8:12:21 AM >>>
Looking at the wonder that is the ACNW and some of their reasoning, I would think that a good candidate for the slicing would be tarting with the Valentine et al paper "Eruptive and Geomorphic Processes at the Lathrop Wells Scoria Cone Volcano". This has nothing to do with the ACNW, however, seeing as to how they grab onto some of the statements about thickness, volume, and xenolith percentage (which gets you to conduit diameter), it seems that this may be a good place to start. Along with the obvious trace backs, need also to look at that old Los Alamos report which measures a bunch of the materials found in sived samples. (I have a copy, but is in my boxes. I can't remeber the exact title, but most normal samples had about 1 percent xenoliths, while "hydrovolcanic" had a lot more.) Anyway, one to think about.

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Subject: Re: slicing
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