

From: Darryl Pitt <darryl@dof3.com>
Subject: **Re: Lovina iron**
Date: February 21, 2010 10:47:44 PM CST
To: John Wasson <jtwasson@ucla.edu>
Cc: "MeteoriteCompatriots@large.com" <MeteoriteCompatriots@large.com>

Hi John,

Fantastic news. Thank you so much.

I will forward an amply-sized specimen of NWA 5717 with both lithologies in the next couple of days.

All the best / Darryl

On Feb 21, 2010, at 8:22 PM, John Wasson wrote:

Tim and Mike

Here is part of a message I just sent to Darryl Pitt. I am convinced that the elemental composition of Lovina is only consistent with it being a meteorite. All the elements are in the range commonly encounter in iron meteorites. Metals made by man generally differ in their concentrations of most of these elements.

cc: D. Pitt, J. Grossman, A. Rubin

Below is the composition I obtained for Lovina in my first INAA. I will analyze a second replicate but I don't expect any of the values to change by enough to matter. Other than Cr the changes should be a few percent at most. My results are not very different from those of the Canadian analysts published in the LPSC 40 abstract.

I am ready on the basis of the composition to state that I am convinced that Lovina is a meteorite. The argument is that every single element is within the range commonly encountered in iron meteorites. Metals that have been made by man will always differ from meteorites in terms of several elements. Here the most deviant is Au, low by a factor of about 8 compared to what I would expect on the basis of the As content. So, let's send it to the Nomenclature Committee.

	Cr	Co	Ni	Cu	Ga	Ge	As	W	Ir	Au
	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
Lovina	465	9.34	378	424	23.9	97±32	5.2	0.43	0.29	0.062