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Letter report, re: analysis of three obsidian projectile points from Pete Creek (41CB1)

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December 20, 2021

Re: Analysis of three obsidian projectile points from Pete Creek (41CB1)

Dear Sunday,

I have completed the XRF analysis of the three obsidian projectile points you provided from Pete Creek (41CB1). Analytical protocols used for its analysis are identical to those reported in the report I sent to you on November 29.

The elemental abundances determined for these artifacts are reported below. It appears as if two of points (PETE038 & PETE039) are made on Cerro Toledo obsidian and the other (PETE040) is consistent with Valle Grande rhyolite obsidian (aka Cerro del Medio).

Sincerely,

Matthew T. Boulanger

Table 1. Elemental abundances determined for one obsidian flake (Lot #46) from Pete Creek.

	Ti	Mn	Fe	Zn	Ga	Rb	Sr	Y	Zr	Nb	Ba	Th
PETE038	< LOD	438	7315	78	21	189	<LOD	55	157	88	< LOD	21
PETE039	310	535	7729	86	24	204	<LOD	60	170	94	< LOD	23
PETE040	< LOD	355	7389	61	16	158	3	39	158	50	< LOD	16
RGM-1 (μ 4)	1530	317	12958	35	17	151	111	21	239	9	844	14