8 June 2015

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Dear Colleagues:

As with a similar pattern in an earlier study of Oklahoma sites, two of the three artifacts were produced from the Malad, Idaho source, not unusual in southern Plains sites. One other artifact was produced from the Valles Rhyolite (Cerro del Medio) source in the Jemez Mountains, northern New Mexico (Shackley 2014; Table 1 here). Specific instrumental methods can be found at http://www.swxrflab.net/anlysis.htm, and Shackley (2005). Source assignment was made by comparison to source standard data in the laboratory. Analysis of the USGS RGM-1 standard indicates high machine precision for the elements of interest (Table 1).

Sincerely,

M. Steven Shackley, Ph.D.
Director

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REFERENCE CITED

Shackley, M.S.  


Table 1. Elemental concentrations for the archaeological samples. All measurements in parts per million (ppm).

<table>
<thead>
<tr>
<th>Site/Sample</th>
<th>Ti</th>
<th>Mn</th>
<th>Fe</th>
<th>Rb</th>
<th>Sr</th>
<th>Y</th>
<th>Zr</th>
<th>Nb</th>
<th>Ba</th>
<th>Pb</th>
<th>Th</th>
<th>Source</th>
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<tr>
<td>34JK22-1</td>
<td>958</td>
<td>361</td>
<td>10030</td>
<td>155</td>
<td>14</td>
<td>41</td>
<td>174</td>
<td>53</td>
<td>14</td>
<td>21</td>
<td>11</td>
<td>Valles Rhy (Cerro del Medio), NM</td>
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<tr>
<td>34GT5-1</td>
<td>1185</td>
<td>242</td>
<td>9931</td>
<td>127</td>
<td>79</td>
<td>34</td>
<td>91</td>
<td>12</td>
<td>1855</td>
<td>29</td>
<td>25</td>
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</tr>
<tr>
<td>34GT8-1</td>
<td>1281</td>
<td>249</td>
<td>10319</td>
<td>125</td>
<td>77</td>
<td>32</td>
<td>89</td>
<td>14</td>
<td>1834</td>
<td>27</td>
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<tr>
<td>RGM1-S4</td>
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<td>13366</td>
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<td>10</td>
<td>764</td>
<td>20</td>
<td>10</td>
<td>standard</td>
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