Dear Jesse and Bruce,

The obsidian used to produce the projectile point most closely matches what Fred Nelson calls the “Poker Brown Wash Area” source in Pershing County, central Nevada (Nelson and Tingey 1998; Table 1 here). In the Nellis Air Force Base, Nevada study, Skinner called this source “Unknown C” and was recovered from Archaic contexts at O’Malley Shelter (26LN418; in Skinner 2005). Of course, artifacts produced from Nevada obsidian is rare in Arizona, but would not be an impossibility. A Great Basin Stemmed point produced from the central Nevada Black Rock obsidian source was found in a site in southern Colorado (Vierra et al. 2005).

All analyses for this study were conducted on a ThermoScientific Quant’X XRF spectrometer at the Archaeological XRF Laboratory, Albuquerque, New Mexico. Specific instrumental methods can be found at http://www.swxrflab.net/anlysis.htm, and Shackley (2005).

Sincerely,

M. Steven Shackley, Ph.D.
Director
REFERENCES CITED

Nelson, F.W., and D.G. Tingey

Shackley, M.S.

Skinner, C.E.

2005  B. Vierra, M.S. Shackley, and M. Jodry
Late Paleoindian and Early Archaic Foragers of the Northern Rio Grande. Paper presented in the Symposium, From Paleoindian to Archaic – Views on a Transition. The 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah.

Table 1. Elemental concentrations for the archaeological samples and USGS RGM-1 obsidian standard. All measurements in parts per million (ppm).

<table>
<thead>
<tr>
<th>Sample</th>
<th>Ti</th>
<th>Mn</th>
<th>Fe</th>
<th>Zn</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>
</tr>
</thead>
<tbody>
<tr>
<td>DIXIE CANYON, AZ</td>
<td>1369</td>
<td>300</td>
<td>1167</td>
<td>55</td>
<td>144</td>
<td>92</td>
<td>15</td>
<td>175</td>
<td>17</td>
<td>1270</td>
<td>31</td>
<td>16</td>
</tr>
<tr>
<td>RGM1-S4</td>
<td>1632</td>
<td>278</td>
<td>1331</td>
<td>41</td>
<td>152</td>
<td>110</td>
<td>23</td>
<td>215</td>
<td>6</td>
<td>836</td>
<td>19</td>
<td>12</td>
</tr>
</tbody>
</table>