48SW1157 is a stratified Middle to Late Archaic site in Sweetwater County, Wyoming. Data recovery excavation identified hearth features and recovered flaked stone and faunal remains. Occupations appear to be short-term logistical camps associated with tool stone procurement at the nearby Delaney Rim chert source in conjunction with secondary processing of bison and deer or pronghorn. Two unique features stand out from site components: evidence of bison hunting during the Middle Archaic, which adds to a growing body of data on bison procurement in the Wyoming Basin during the Middle Archaic, and a Late Archaic lithic feature containing nearly 2000 chipped stone artifacts in a discrete concentration.

**Middle Archaic Bison**

A total of 108 faunal remains were recovered during excavation. Vertical distribution was fairly even with 36 occurring in the Late Archaic component, 31 occurring transitional between Late and Middle Archaic components, and 41 occurring in the Middle Archaic component.

**Vertical Distribution**

<table>
<thead>
<tr>
<th>Lithic Component</th>
<th>Initial Horizon</th>
<th>Transition</th>
<th>Final Horizon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle Archaic</td>
<td>31</td>
<td>31</td>
<td>41</td>
</tr>
<tr>
<td>Late Archaic</td>
<td>36</td>
<td>31</td>
<td>5</td>
</tr>
</tbody>
</table>

**Distribution by Class**

- 37 large flakes
- 10 unfortified large flakes
- 2 preforms/medium flakes
- 1 small nodule
- 46 edge-damaged flakes

**Base elements include a complete distal right tibia with spiral fracture callus, a distal left scapula (left), and a left radius with partial radial shaft fragment (right).**

**Late Archaic Component**

- 20cm E/W and was 14cm thick.
- nodule 1) save one flake of Madison Formation chert (nodule 4).

**Possible arroyo stones for reducing large material long basins in the middle Archaic component.**

**Delaney Rim Chert**

- 20.5 m
- nodule 1) save one flake of Madison Formation chert (nodule 4).

**Lithic Artifacts**

- 30 mm long.
- 987 secondary stage debitage.
- 353 primary stage debitage.
- 92 edge-damaged flakes.
- 26 angular debris.
- 7 worked flakes.
- 6 bifaces (2 early, 2 mid-, 2 late).
- 2 scrapers.
- 2 cores.
- 2 tested cobbles.

**Excavation:**

- 4,185 tertiary stage debitage.
- 987 secondary stage debitage.
- 353 primary stage debitage.
- 92 edge-damaged flakes.
- 26 angular debris.
- 7 worked flakes.
- 6 bifaces (2 early, 2 mid-, 2 late).

- 2 scrapers.
- 2 cores.
- 2 tested cobbles.

**Late Archaic Component**

- The Late Archaic component contained a discrete lithic concentration (feature 5) containing 1,939 artifacts.
  - 1.94% pieces of debitage
  - 3 bifaces, 1 scraper, 1 worked flake, and 9 edge-damaged flakes.

**Reference Cited**

- Byers, R.L., and J. Smith. 2007: Ecosystem Controls and the Archaeofaunal Record: An Example from the Wyoming Basin, USA.

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