Chapter 7

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7.2 Axe preforms with edge damage
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7.4 Raw material flaw in Gulgong stone
7.5 Preforms and flakes with hinge fractures
7.6 PFA on flake
Figure 7.7 Reduction sequence for manufacturing at Gulgong and Warren

WARREN

STAGES OF REDUCTION

Extracted block (E)

Blocking out stage (B)

Massive flakes
Flake debris

Shaping stage (S)

Squat flakes

Advanced thinning stage (T)

Thinning flakes

Bifacial
Flakes

Preform
Flake core

Implement
Trimmed flake

GULGONG

Preform

Bevel edge, shaped or ground
Figure 7.8: flakes characteristic of the reduction sequence for Gulgong and Warren

MASSIVE FLAKES = 100x100x50mm

SQUAT, THICK FLAKES = 67x100x20mm

THINNING FLAKES = 50x25x5mm
7.9 Flake squat and thick
7.10 Flake long and thin
7.11 Experiment on extraction at Gulgong
7.12 Experiment on extraction at Warren commercial quarry
7.13 Experimental work at Gulgong
7.14 Experiment on knapping at UNE on Gulgong material: (a) the team; and (b) the work and set-up

(a) the team
7.14 Experiment on knapping at UNE

(b) the work and set-up
7.15 Flaked material from experiment at UNE on Gulgong material
Figure 7.16 Experimental stone flakes from extraction to the blocking out stage of reduction.

<table>
<thead>
<tr>
<th>Experiment No.</th>
<th>Flat &amp; Thin Flakes</th>
<th>Angular Block Flakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>160</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
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<td>140</td>
<td>20</td>
</tr>
<tr>
<td>14</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>
Figure 7.17 Experimental stone flakes from the blocking out stage of reduction

- No. of flat & thin flakes
- No. of angular block flakes
Figure 7.18 Experimental stone flakes from the shaping stage of reduction

![Bar chart showing the number of flat and thin flakes and angular block flakes for different experiment numbers.](chart)

- No. of flat and thin flakes
- No. of angular block flakes
Figure 7.19 Experimental stone flakes from the thinning stage of reduction

Experiment Number

Number

- 18
- 16
- 14
- 12
- 10
- 8
- 6
- 4
- 2
- 0

- No. of angular block flakes
- No. of flat & thin flakes

5
Angular block flakes produced during experiments for the various stages of reduction at Gulgong (derived from Tables 7.14, 7.15, 7.16 and 7.17)

- Extraction to blocking out: 48%
- Blocking out: 23%
- Shaping: 18%
- Thinning: 11%
Figure 7.19B

Flat and thin flakes produced during experiments for the various stages of reduction at Gulgong (derived from Tables 7.14, 7.15, 7.16 and 7.17)

- Thinning: 2%
- Extraction to blocking out: 35%
- Blocking out: 32%
- Shaping: 31%
7.20 Hinge flakes from knapping trials at UNE on Gulgong material
7.21 Flake with PFA crushed
7.22 Flakes from knapping trials at UNE on Gulgong material
Figure 7.23
Flake features at Gulgong as a percentage of all preforms recorded (n=341)
Figure 7.24

Flake features at Warren as a percentage of all preforms recorded (n=124)