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## **Appendix 4: Worked Stone Catalogue**

*by Beverley Ballin Smith*

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<b>Coarse stone artefacts</b>	<b>SF no</b>	<b>Context</b>	<b>ML (mm)</b>	<b>MW (mm)</b>	<b>MT (mm)</b>	<b>M depth</b>	<b>M diam</b>	<b>Weight</b>	<b>Description</b>
Pivot stone?	260		173	160	103			3464g	Irregular block of vesicular stone. One side flat. Base flattish with iron staining. Other three sides irregular but showing banding of the rock. Upper face with indented conical hollow. May have been chipped to shape, but banding of rock most visible. One side of hollow is visibly chipped as is come which is off- centre. One large chip visible to upper surface and possibly some adjacent and parallel incised marks. Texture of the rock makes marks associated with working difficult to detect. However, one roughened area lies between the hollow and the flattish side. Possibly an anvil but more likely a largely unworked pivot stone
Hollow			62	62		21			
Cobble tool	31	B2/B3	121	46	36			344g	Elongated quartzite cobble with an area of polish on one surface. Otherwise unworked.
Perforated stone	52	B3/S, B2	12	10	7		3	1g	Epidote? Olive-green in colour. Triangular shaped piece of stone with an off-centre, irregular perforation. May have been enhanced on convex surface
Whetstone fragment/Hone	68	B1/E	113	18	18			88.7g	Slightly curved bar of micaceous schist, broken across shaft. Square to rectangular section. Three faces worn smooth to the tapering tip but all suffered post-depositional damage of incised lines. One face dominant with sharp edges to sides. Tip has slight faceting on opposed sides. Tip flat
Perforated stone	82		23	17	10		4	5g	Chlorite schist pebble fragment. Unworked pebble with what appears to be part of a natural perforation
Cobble tool (from illustration)	97	A4	103	83	33				Rounded cobble of fine-grained sandstone, with one end pecked, the other end ground. Areas of pecking in centre of both faces, and possibly on one edge
Circular stone	96	S3/E. A3	34	33	6			14.1g	Thin, almost circular pebble, with slight area of polish on one edge, at flattest area of circumference
Stone roundel	99	A8	116	111	22			264g	Identified as altered gabbro. Thin sliver of grounded rock. Has three chips on the edge of the upper surface. May have also been smoothed on edge. Possibly a pot lid
Pebble tool	101	B4	84	55	28			279g	Identified as silicified mudstone. Rounded and slightly elongated pebble. Both long edges show evidence of working and slight polish. One edge is faceted and ridged at an angle to the edge. Marks on the second edge are less noticeable. One face has slight faint central indentations. May have slight polish and pecking at ends
Stone piece	102	A4/N	194	110	42			928g	Wedge-shaped block of micaceous schist. Loss of stone along a bedding plane in one face of the stone gives the appearance that the stone has a V notch. This stone is however, unworked
Ball	103	B5/Stg.					19	11.1g	Irregularly spherical porcelain ball

Coarse stone artefacts	SF no	Context	ML (mm)	MW (mm)	MT (mm)	M depth	M diam	Weight	Description
Ball	103x	St. NW					18	8.8g	Irregularly spherical ball, possibly ceramic. Marble sized
Quern (from illus)	107	DPI	72				350		Circular upper stone to quartz-mica chlorite schist. Lower surface drawn flat, but whether worn or pecked is unknown. Upper surface curved with areas of chipping, possibly pecking and polishing. A central hole with a splay of 60mm is pecked through the surface. The remainder of the hole shaft seems to be ground and only 18mm in diameter
Perforated whetstone fragment (from illus)	135	B3/W	53	8	9	8	5	8.7g	Fragment of thin and worn whetstone of micaceous/sandstone. Very fine grained. Perforated 6mm from the rounded end. Hole slightly off centre and angled from the left on both faces. Worn on all faces and sides towards the broken end
Stone fragment	148	B3/S	132	84	27			451g	Irregular small block of basalt with deep incised line on upper face. This line may be natural as it is not pecked or smoothed. Its profile is irregularly curved. 73mm ML, 7mm MW, 3mm MD
Stone ball	163	A7/?	25	26	24			23.6	Roughly spherical natural stone ball
Cobble tool (from illus)	190	B12	150	53	37				Elongated cobble of slightly felspathic sandstone with discrete areas of pecking at both ends, down one side and towards the tip of one face
Mattock fragment? (from illus)	210	B3/W	130	95	24			241g	Mica schist. Broken and thin piece of stone, thicker in the middle than at the edges. Both faces largely unaltered, but both edges are chipped. Evidence of three chipped notches survive on each edge, not all are bifacially chipped. This may be the central portion of a rough mattock where the notches may have been for hafting the tool
Perforated stone	214	B13	22	21	4		6	3.6g	Banded schistose sandstone. Sub-circular, flat stone with central perforation. Edges slightly ground. Hole slightly splayed on both faces. Bead
Pivot stone? (from illus)	219	A14	48	30	6				Rectangular boulder of quartz-mica chlorite schist, with five ground 'cupholes' in an arc along two edges. Possibly a reused pivot stone. Identified from a photograph. No measurements given for the depth or diameter of the circular indentations
Pivot stone? (from illus)	223	A18							Triangular fragment of unidentified stone but might be a quartz-mica chlorite schist. With one partial grooved indentation. No measurements for the stone or its indentation. Identified from a photograph
Incised stone (from illus)	202?								Boulder with three incised lines on upper part. Lines have been scored into the upper part of one face of the stone. Upper edge of the stone has many small linear abrasions. Although only identified from photographs it is possible that the marks are the plough damage. The crossed lines being the result of being hit by the plough from different directions

## Notes on the original catalogue

It would appear that lists and notes on the finds from the site were drawn up and written as early as 1960. These were supplemented by additional work and information, mainly petrology, in 1985–87 and more recently in 1990. Three files exist which contain handwritten and typed notes on the artefacts. The information from each find seems to have been initially accumulated on an A5 sheet of paper (a catalogue card) which included its general category, ie stone, its sub-category, a provisional catalogue number, a basic description, the context, a small find number, its present whereabouts and whether the find was illustrated. Originally the ‘card’ was written in blue ink with the main entry in pencil, and often dated, eg 4/8/61. Supplementary notes were added both in pencil and in red biro, usually of information to be checked. These additional entries were often dated. However, many of the notes are hard to read. Other information on finds can be gleaned from letters and lists from specialists, many of these either hand written or typed, or from the original packaging.

Cregeen began to gather information on the ‘flaked stone’ on a yellow ‘table’ which was informative on providing a complete listing of stone artefacts with small finds number, descriptions, petrology and site information. This was expanded in a second yellow paper, initially typed but with additional handwritten notes in 1987. There appears to be at least two white paper lists where the artefacts had been subdivided into categories, and which can be considered as draft finds catalogues. It is from these papers and from Cregeen’s Supplementary List that the following catalogue has been compiled. Cregeen’s Catalogue includes 35 stone artefacts from a maximum of 13 categories.

A comprehensive investigation of the existing papers has not been made, but it is hoped that sufficient information has been gleaned to provide an understanding of the stone tools from the site. In spite of the difficulty in working through this material and interpreting the writing it is apparent that in 30-year period from excavation to the last entries on the papers in 1990 that some finds were lost. An attempt has been made in the updated catalogue to include these lost finds. Over that 30-year period Cregeen consulted may geologists and other finds specialists on the petrology and importance of the stones. These included Professor George?, Dr Holgate, Dr Weedon, Dr HS Macpherson and Dr A Livingstone, from the Department of Geology, The Royal Society Museum, Chambers Street, Edinburgh.

It is not made explicit why so many geologists were consulted but loss of notes over the years and problems with identification may have been some of the reasons. Another factor which affects the quality of information is conflicting information in the notes. The location of stone artefacts may vary from one list to another. Where there is variation this appears in the catalogue.

Some of the artefacts were illustrated by ADL (?), the remainder by Marion O’Neal. The illustrated artefacts are: 28, 52, 68, 97, 98, 99, 101, 102, 103, 103x, 107, 135, 148, 163, 190, 214.

## Cregeen’s original stone catalogue, taken from his notes

### *Hammers, pounders etc*

**SF 31** Smooth, long, quartzite pebble. Rubber. From B3 (or B2 north-west extension).

**SF 97** Anvil of fine-grained sandstone, pitted with small dents in the middle of each face, abraded and smoothed at the ends and edges. From A4 outer wall tumble. Plotted.

**SF 101** Pounder-rubber of silicified mudstone, pitted on one side, worn on one edge and on sloping sides by rubbing. From B4. Plotted on big plan.

**SF 145** Long oval pebble 0.9 by 0.5 cm long, broader end hollowed by pounding, other end abraded by rubbing along side. From B3 etc.

**SF 161** Similar oval pebble hollowed at broader end 0.6 by 0.5 cm. From B? etc.

**SF 166** Oval pebble 0.6 by 0.4cm broader end hollowed as last two. From?B3 etc.

**SF 190** Hammer of sandstone, slightly felspathic but with occasional detrital muscovite flakes; cement non-calcareous, probably siliceous. From B12. Plotted.

### *Whetstones*

**SF 68** Haunch hone of quartz-chlorite schist. From BI/E.

**SF 135** Small whetstone of drumstick form, perforation at broader end, broken at narrower tip. Siltstone (mostly quartz, a little mica). From B3/W.

**SF 165** Schistose pebble may be used for hammering. From B9/N.

### *Discs*

**SF 98** Thin circular counter or gamesman of smooth schistose. From S3/E or A3.

**SF 99?** Potlid of (Mica-schist or) altered gabbroic rock. From A8/ditch filling.

**SF 181 and 183** Two flat stones with rounded edges and apparently worked. From B12/centre.

**SF 187** Fine-grained mica-schist. Flat stone with rounded edge. No description or details on card except possible flat stone worked. From B12/ north-west.

{C} Balls

**SF 103?** Chert ‘marble’, cream-coloured cortex with single linear scar. Natural pebble. From B5/Stg.St. north-west.

**SF 103x** ‘Marble’ with darker ring markings, unscarred, possibly also chert or flint. Not determined. No context.

**SF 163** Roughly spherical stone apparently worked to ball shape. Petrology not determined. From A7/?

### *Querns*

**SF 107** Upper stone of bun-shaped rotary quern of quartz-mica green chlorite schist. A smooth-wearing of surface round part of the hopper continues as tongue towards the (recent) peripheral fracture, on shallower side, as if from

**Table 14 Comparative categories of coarse stone tool types**

Category (BBS)	SF no	Category (SC)	SF no
Circular stone	98	Stone balls	103, 103x, 163
Pot lid	99	Discs	98, 99, 181, 183, 187
Cobble & pebble tools	31, 97, 101, 190	Hammerstones/pounders	31, 97, 101, 145, 161, 166, 190
Perforated stones/beads	52, 214	Perforated stones	82, 214
Whetstones	68, 135	Whetstones	68, 135, 165
Mattock	210	Grooved stones	102, 148, 210, X
Pivot stone	No number, 219, 223	Slabs with surface holes	46, 219, 223, X
Shale armlet	202	Shale armlet	202
Motive Piece	28	Trial Piece	28
Unworked stone	82, 102, 148, 163		
		Holed stone	212
		Axehead	139
Quern	107	Querns	107, X
Ceramic balls	103, 103x		

The table also highlights the missing numbers (italicized) and categories of finds which are no longer available for study.

wear of the handle there, rather than on central pin. From DPI.

**SF?** Possible saddle quern. From the south-east section of the ditch but was not recovered. Appears on photographs. From DI fill/SE.

### ***Roundels with central perforation***

**SF 82** Chlorite-schist pebble broken across perforation. From A5(ditch).

**SF 214** Small lightweight whorl of schistose sandstone (semi-pelite). Perhaps counter. From B13.

### ***Beads***

**SF 52** Green conical bead, horizontally perforated, of serpentine. From B3/S or B2.

**SF 82** From supplementary list.

{C} Jet armlet

**SF 202** Arc fragment of a D section of a c 0.4–0.5cm diameter circlet. From B9.

{C} Trial piece

**SF 28** Flat square fragment of a slightly spotted slate, showing part of an incised interlacing pattern. From B3/S or B2.

### ***Slabs with surface holes of cup form***

**SF 46** Block of schistose grit, 6 x 4' with (bored?) hole. With shallow round depression. From B3/W or Deb Pit 2.

**SF 219** Rectangular fragment c 48 x 30 x 6cm of quartz

mica chlorite schist, bearing five ground cupholes along an arc. Pivot stone successively reused. From A14/ditch.

**SF 223** Triangular fragment, c. x? cm of . . . with one ground cup hole. From A18/ditch. Top filling.

Pocked stone fragment. From Debris Pit 1—not recovered – possibly an anvil.

### ***Surface grooved slabs***

**SF 102** Possible utilized fragment of psammite (very abundant in quartz and mica) with tapering groove of wine-angled V section, a feature which can be due to natural cleavage. Flat underside is spotted with small brown encrustations. A4/N (ditch filling).

**SF 148** Flat slab fragment, in a mica-rich schistose rock, with straight groove expanded at one end, pecked across it. From B3/S.

**SF 210** Small fragment of mica-schist (nearly phyllite schist), with surface scores. Probably from B3/W.

**SF?** Small grooved green pebble discarded. Serpentine.

### ***From Cregeen's Supplementary List***

**SF 139** Axehead (probably not). Described as a pear-shaped coarse stone breaking up. 2.25" long, 1.75" across blade and 0.75" thick. From Area 2, Square B9. Lost by June 1965.

### ***Holed stone***

**SF 212** A flat stone with a small hole. No further data. From Square B9 found August 1961.