



Castle Craig Excavations 2011

Data Structure Report

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Summary

Excavations at the Castle Craig hillfort, Auchterarder, in 2011 revealed that a palisaded enclosure, surviving as a low bank, had been constructed over the remains of a massive stone broch. The broch, one of the first to be discovered in Lowland Scotland for decades, had been burnt and deliberately demolished. Its debris contained numerous Roman trade goods and Iron Age domestic artefacts dating to the 1st to 2nd centuries AD. A re-occupation of the site may have been during Pictish or Norse period. This work was undertaken as part of the Strathearn Environs and Royal Forteviot (SERF) project in conjunction with Northlight Heritage.

Introduction

Five trenches were excavated at Castle Craig, Auchterarder, between the 2nd and 26th of August 2011 as part of the SERF project.

Site Location Topography & Geology

Castle Craig is located on the lower reaches of the Ochil Hills and occupies a prominence on the south side of the Earn valley, NGR: NN 97604 12714 (See Figure 1). The site is 140m above sea level. Castle Craig lies within Pairney Farm and is defined on the west side by Pairney Burn and by a quarry track to the east.



Figure 1: Location Map of Hillforts in SERF area: blue circles other forts excavated by SERF 2007-2011, red circle Castle Craig

The underlying geology is Lower Old Red Sandstone (Geological Survey of Great Britain Sheet 39, drift and solid, 1969). The drift deposits in the vicinity are boulder clays, although at the site bedrock is outcropping. The site is within the Craig Rossie SSSI (SNH Site Code 422) designated as such because of the presence of the Old Red Sandstone igneous rocks (specifically rhyodacite or acid lava).

Prior to the excavation Castle Craig was classified as a fort with two low outer banks cutting off a relatively gentle approach from the south-west. A possible entrance was seen as a gap in the outer

banks on this side. A smaller enclosure on the summit (30m by 20m) was defined by a low grass covered bank with an entrance also to the south-west. The interior was fairly flat with a roughly rectangular platform on the west side and a small circular feature (possibly a kiln) in the north. A rock cut ditch could be seen on the north side of the enclosure. Quarrying took place on the south-east side of the hill in 1978 (Sherriff 1984) and there may be signs of earlier quarrying activity nearby. Sherriff's excavations recorded the character of the outer bank which had been cut through by the quarry and he also discovered several charcoal-filled pits. This work highlighted the potential of this site for the existence of prehistoric remains.

Aims

As part of the SERF programme which has been investigating hillforts within Strathearn since 2007, work at Castle Craig was undertaken with the aim of retrieving datable evidence relating to the construction and use of the fort, targeting the banks, ditch and an area of the fort interior. More specifically the aims were:

- to establish a more secure chronological framework of the outer banks and more fully understand the nature contexts previously encountered by John Sherriff (1984)
- to gain an understanding of the sequence of construction, use and destruction of central enclosure and the rock cut ditch
- to elucidate any relationships between the features
- to identify any structures within the enclosure on the summit of the hill
- And; to record the condition of archaeological deposits across the site

Geophysical Survey

At the end of June 2011, prior to excavation, a geophysical survey was carried over the site (Poller 2011). Both earth resistance and gradiometric techniques were employed. The results of the gradiometry survey showed the outline of the enclosure visible on the summit of the hill (see *Figure 2*). A band of positive magnetism defines the edge of the enclosure bank (A). The entrance, at the southwest, was defined like the rest of the enclosure bank (B). Within the interior of the enclosure no structures could be identified; however, there were several areas of positive magnetism, suggesting possible archaeological features (C). One area, characterised by variable magnetism corresponds to the slight raised platform just within the west side of the enclosure (D) and may be an area of burning. Another potential area of archaeological significance was identified outside the entrance of the enclosure. Here several anomalies of positive magnetism associated with variable magnetism suggest a concentration of burning and activity (E). To the northwest of the enclosure the edge of rock cut ditch is identified by a strong negative and positive magnetic response (F).

Due to the height and density of the vegetation another gradiometry instrument was employed to survey the slopes of the hill (see *Figure 3*). Other than the features on the summit of the hill, the only anomaly highlighted by this technique was the innermost of the outer two banks (G). This bank has a strong positive and negative magnetic response, in some places over 10m wide, which is distinct from the response of the inner enclosure, suggesting that they were constructed using different materials.

The results of the earth resistance survey unsurprisingly revealed the enclosure and the outer bank to be of high resistance (H & I). The other variations in earth resistance relates to the underlying geology (see *Figure 4*).

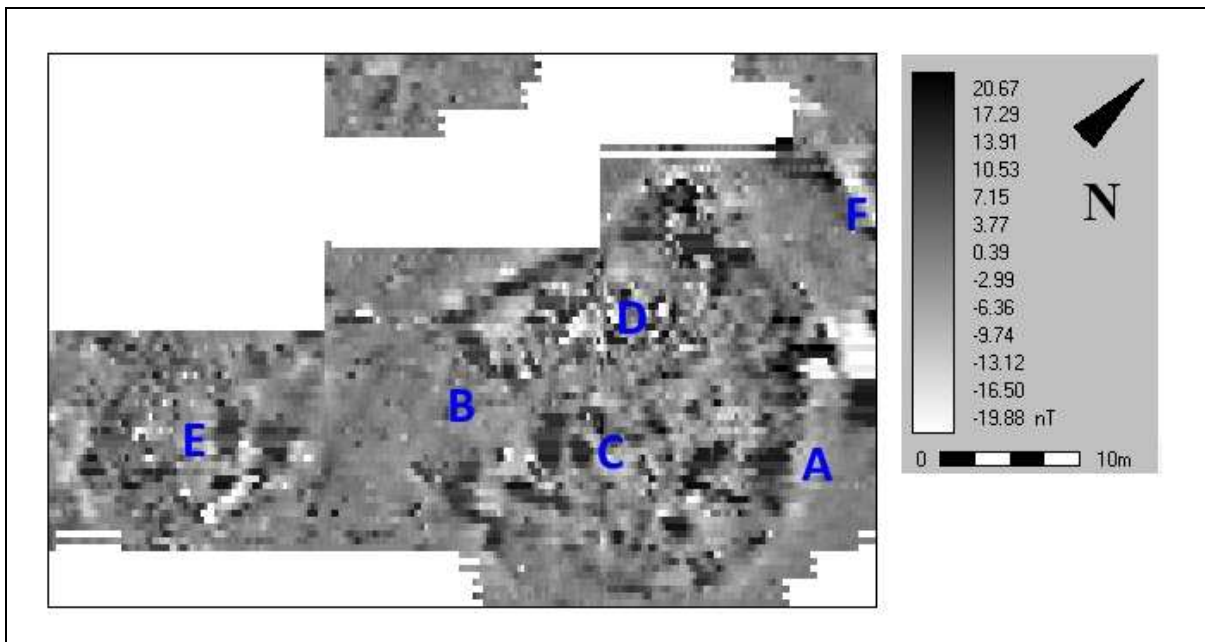


Figure 2: Processed results of the gradiometric survey of the summit of the hill (Dual Bartington GRAD 601) with annotation

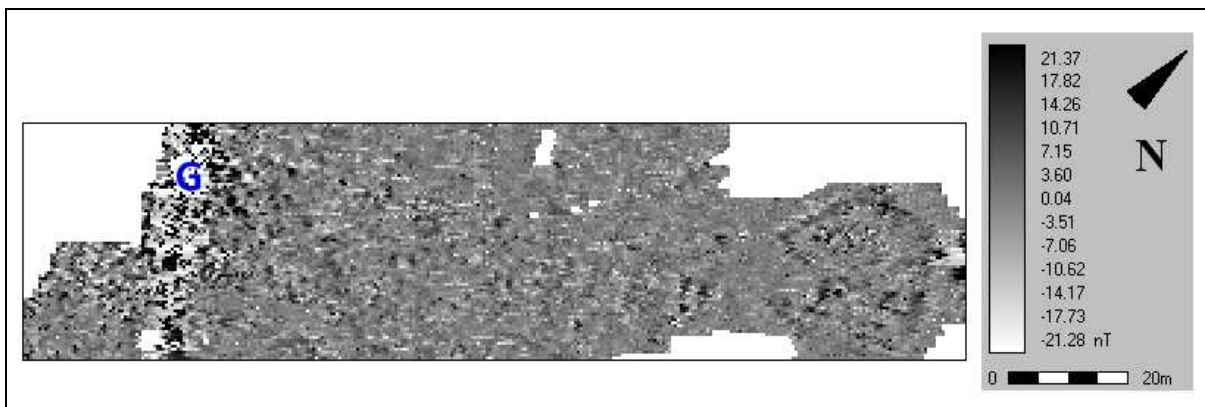


Figure 3: Processed results of the gradiometric survey of the summit of the hill and southwest slope (GeoScan FM36) with annotation

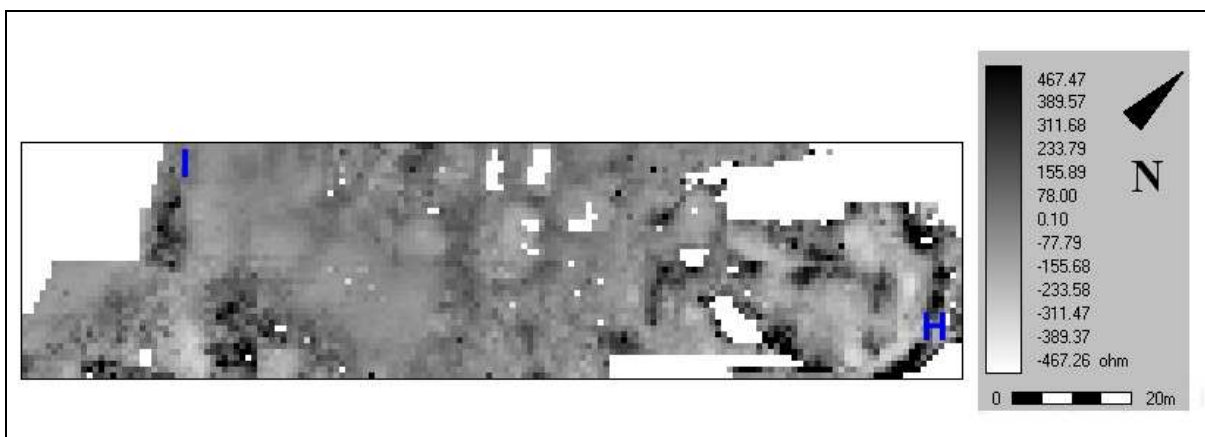


Figure 4: Processed results of earth resistance survey of the summit of the hill and southwest slope (GeoScan RM15) with annotation

Excavation Methodology

A four-week season of excavation was undertaken as part of a fieldschool run by the SERF project with students from the Universities of Glasgow and Aberdeen, as well as local volunteers and members of ACFA. Five trenches were opened, Trench 1 (maximum extent 10m by 15m) was located over the enclosure bank and interior, Trench 2 (3m by 2m) was over the rock cut ditch, Trench 3 (2m by 2.5m) was located near the pits excavated in 1978 (Sherriff 1984), and two trenches were excavated over the outer banks, Trench 4 (5m by 1m) and Trench 5 (2m by 5m), (see Figure 5).

In Trench 1 a substantial depth of rubble sealed a massive stone wall, which was later identified as the remains of a broch) and therefore the area excavated was reduced to two strips 2m wide and 15m long as well as a small area over a possible building platform (1m wide and 4m long). This concentration on the vertical stratigraphy enabled the character of the broch wall and internal floor to be examined.

All the trenches were deturfed and excavated by hand. According to standard practice, in accordance with the Institute for Field Archaeologists Standard and Guidance for archaeological excavations (revised 2008), each context was fully recorded by photograph, drawing and written description. Artefact locations were recorded three-dimensionally using a total station and taped offsets. Soil samples were taken of each stratigraphically secure context in order to retrieve dating evidence as well as palaeobotanical remains. At the end of the excavation the trenches was back-filled by hand and returned to the state it was prior to excavation.

Alongside the excavations, a basic topographic survey of the hill was conducted, providing a more detailed picture of the visible features summit of the hill and the surrounding slopes.

Results

Trench 1 (Figures 6 & 7)

The broch

Unexpectedly, a broch was discovered beneath the remains of the hillfort enclosure. The inner and outer walls of the broch were revealed for short lengths within Trench 1 (see Plate 1) and their curving nature suggested that the broch was circular with an overall diameter of about 23m. The walls were 5.2m thick and there was an internal space with a diameter of 12.6m. The full height of the outer wall was not exposed, but it was at least 1.5m high and consisted of 15 courses of large blocks and slabs of the local rhyodacite. The outer wall face (contexts 016 & 028) was significantly battered and showed evidence of fire reddening. The stones of the outer face also sloped inwards, presumably to assist with the stability of a substantial wall above. The inner face of the broch wall (contexts 060, 025 & 031) survived to a height of 1.1m (see Plate 2). The inner face was well constructed and formed a vertical face that also showed signs of burning. The core of the broch wall was of well-laid rubble (contexts 013, 024), which included two broken quern stones (SFs 6115 & 6116).

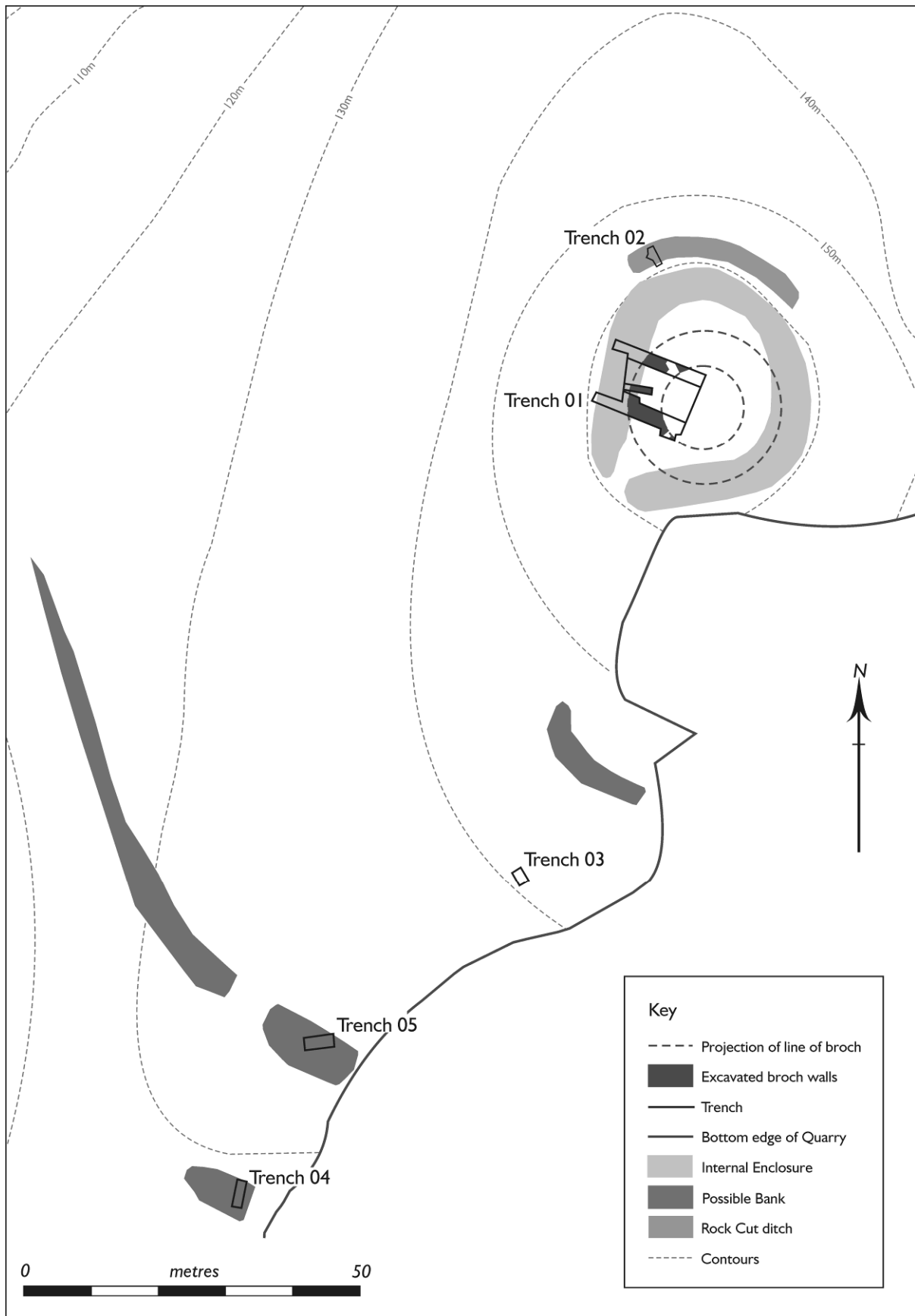


Figure 5:

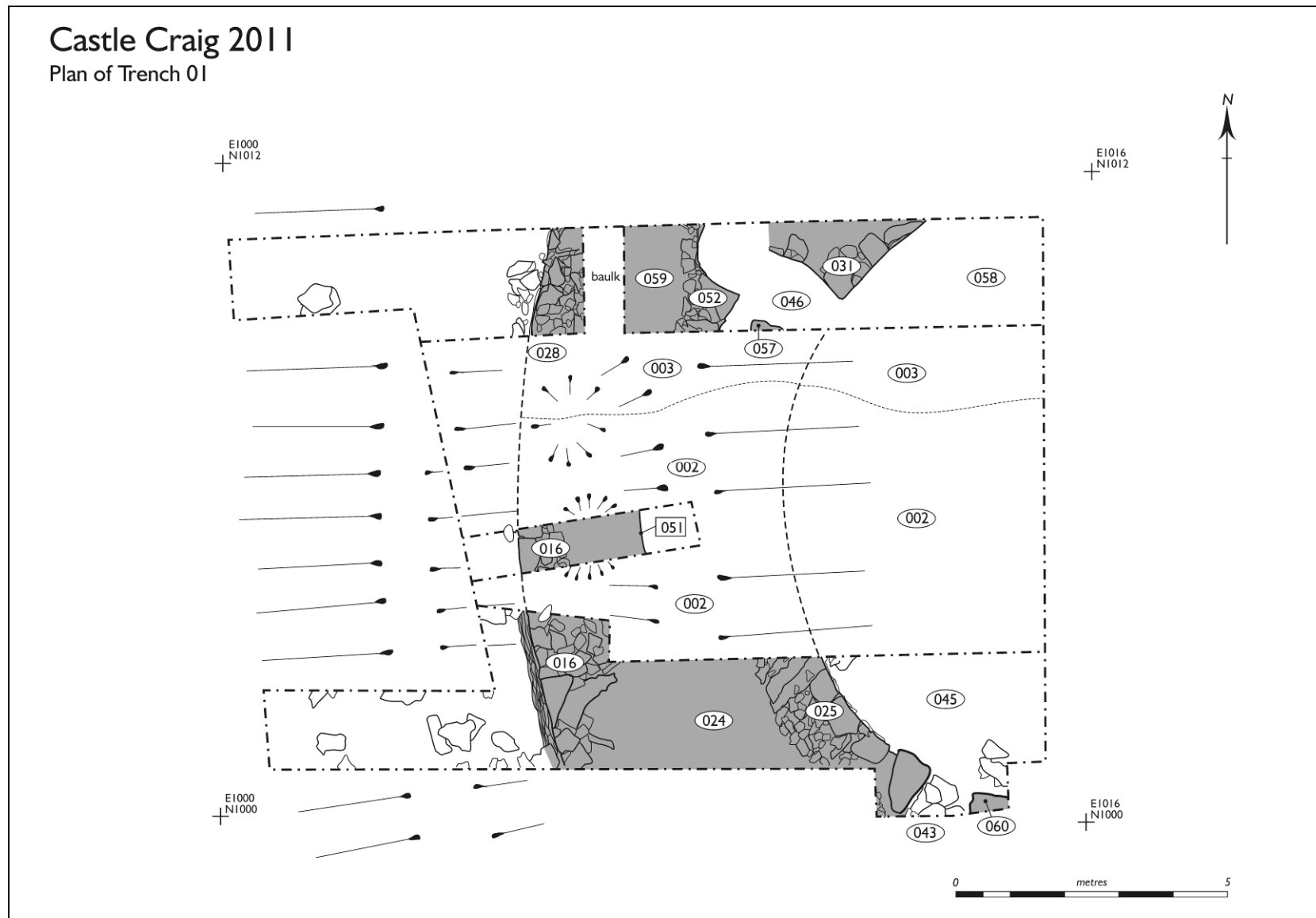


Figure 6:

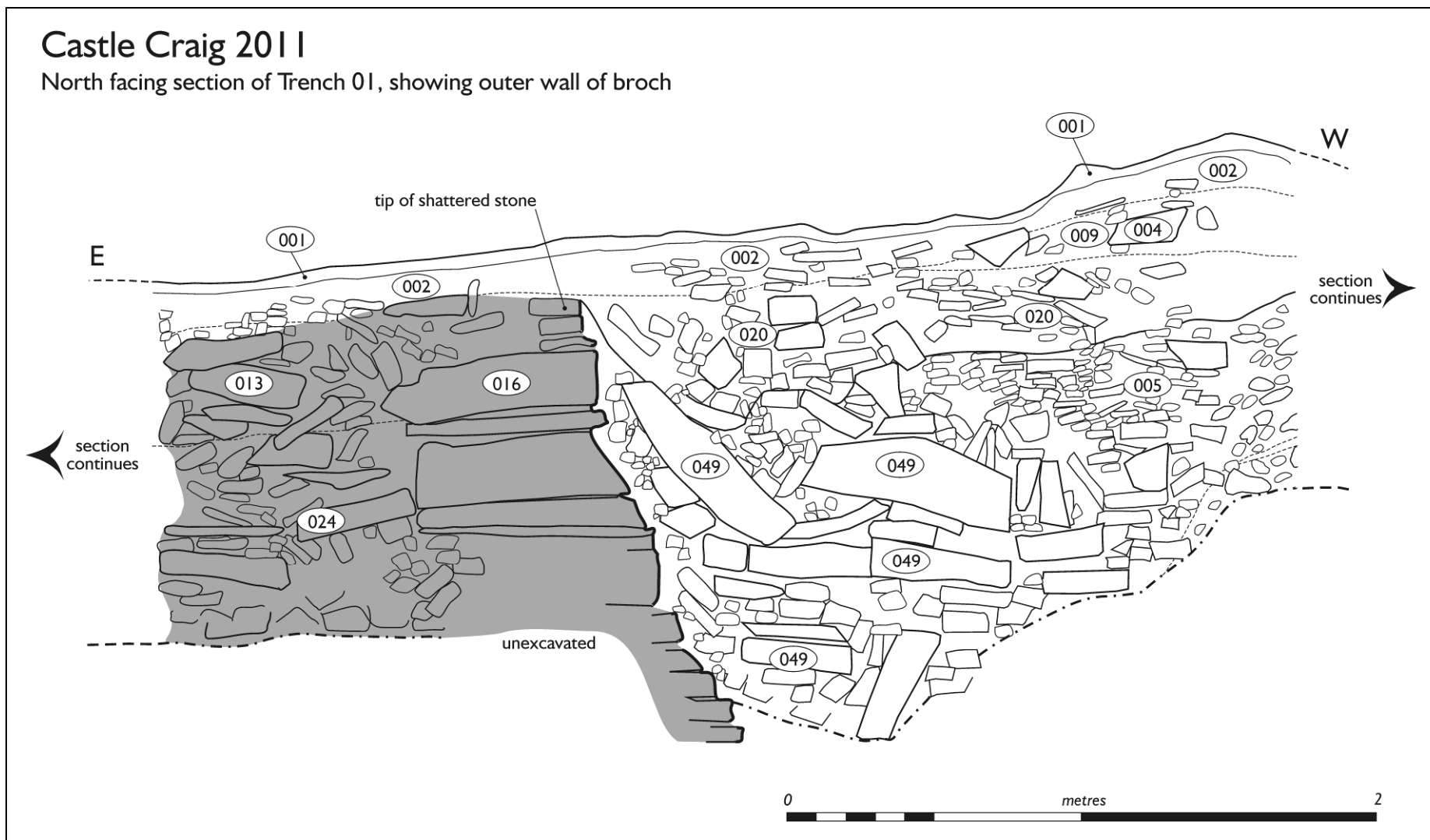




Plate 1: The full width of the broch wall revealed



Plate 2: The inner face of the broch wall

A small extension to the southern strip enabled the broch entrance to be revealed as a gap (043) in the south-west internal wall face. The internal width of this entrance was 0.95m and it appeared to be widening towards the exterior. The interior lintel stone was no longer in place.

An entrance to an intra-mural cell (046) was revealed in the northern strip. The cell was formed of curving walls (052) (057) and (031) with a passage, 0.5m wide, leading towards the south-west. There was no evidence for stairs leading off this passage, within the exposed area.

A small segment (2.5m by 3m) of the broch floor was exposed in the southern strip (see Plate 3). This floor consisted of irregular-shaped, paving stones (087) and natural subsoil (061/090) with a low rubble-built wall base (089) c 0.4m wide, leading from the left side of the entrance. A single slab was lifted in order to take a sample of the subsoil (088) for radiocarbon dating. It was hoped that this would assist the dating of the broch construction.



Plate 3: The paved floor of the broch

The floor slabs (087) were sealed by a thin (0.03m) layer of soft dark brown clay and charcoal (086) which contained no finds. This may have been an original floor perhaps consisting mainly of animal dung. The shallow nature of this deposit suggests that it was either removed on a regular basis or that the period of occupation was very short.

The clay floor layer (086) was sealed by a layer of small burnt stones, charcoal and clay (context 045) which was up to 0.15m thick and which contained numerous (56) small finds which consisted of domestic material as well as prestige Roman trade goods (see Plate 4 & Appendix 10.2). These finds

included a stone spindle whorl (SF 6200), three glass bangle fragments (SFs 6176, 6199 & 6189), three glass vessel fragments (SFs 6163, 6183 & 6179), two melon beads (SFs 6167 & 6168), a stone bowl (SF 6123), an amber bead (SF 6154), a bone weaving comb (SF 6175), copper alloy bracelet fragments, several copper alloy objects, several iron objects (including a small sickle), two shells, numerous pig and sheep bones and other stone objects. This deposit was interpreted as was thought to represent the collapsed debris from an upper chamber in the broch that had been destroyed by fire.



Plate 4: Some glass and copper alloy finds from the broch interior

This artefact-rich deposit was sealed by up to 0.9m of tumbled stones (026, 027 & 054) many of which were massive (up to 0.7m long). The tumble also contained pockets of charcoal and burnt material. Despite this evidence of burning, a bronze Roman patera found within the tumble (SF 6120, see Plate 5) was unburnt. The tumble also contained a glass vessel sherd (SF 6125), a possible iron knife (SF 6129), a shale bracelet fragment (SF 6136) and several burnt mammal bones. Patches of burnt clay within this rubble (022, 023 and 030) also contained several finds of including bone, stone, copper alloy, glass, and shell (SFs 6122, 6127, 6128, 6132, 6133, 6134, 6135, 6138, 6139). In the vicinity of the broch entrance (043) there was intermittent lumps of grey/brown unburnt clay (042) within the rubble (026).



Plate 5: Roman patera found within the debris of the broch

The upper vacuous rubble with patches of burning, was thought to represent the deliberate demolition of the broch stone superstructure which incorporated partially burnt and un-burnt material, perhaps from intra-mural chambers. The tumble was predominantly vacuous and must have been sealed quickly after deposition, preventing silt from being deposited between the stones. This would suggest that the rubble was deposited and sealed within a very short space of time.

In the northern strip the floor level was not reached, but some flat stones (055 & 058) seen within the overlying rubble may possibly be the top of internal walls.

The exterior face of the broch (016) was abutted, within the southern strip, by large vacuous rubble (049), smaller rubble (056 & 005) and a spread of dark earth (020) which contained mammal bone (SF 6150). In the northern strip the full height of the broch face (028) was not exposed. The deposits abutting the face of the broch consisted of dark brown gravel (029) which was sealed by a dark stony layer with burnt bone (015). At a distance of 3m from the outer face of the broch, the stony layer (015) could be seen overlying further vacuous rubble (062) of unknown depth.

The hill-top enclosure

The hill top enclosure, that was constructed over the demolished broch, consisted of a low earth and stone bank, enclosing an area of about 28m in diameter (contexts 004, 009, 010, 012, 038 & 014), see Figure 5. The bank was straight on the west side where it was abutted by a sub-rectangular shaped platform. There were two sections across the enclosure bank in Trench 1. These excavations revealed that the bank survived to between 0.3m and to 0.4m high and was spread up to 1.5m wide.

Within the stony matrix of this bank there were at least two roughly circular features (008) and (035). Feature 008 was located within the southern strip. It had a V-shaped profile measuring 0.75m across the top, and a depth of 0.45m. The fill (007) was a mid-brown silty loam which contained charcoal (see Plate 6). Feature (035) was U-shaped in profile 0.3m in diameter and 0.3m deep, filled with orange brown sandy clay (037) with a small patch of dark brown sandy clay & (036). These features were interpreted as the remains of post-holes forming part of a timber palisade set within the stony bank.



Plate 6: Post-hole (008) within the timber palisade

In the vicinity of Post-hole (008) there were lenses of bright orange silt (011 & 21) which were interpreted as burnt turf which had been used to build up the turf bank. No datable artefacts were retrieved from the bank.

A narrow slot was inserted across the platform which abutted the bank. This slot revealed a possible rough wall foundation (051) consisting of large boulders and flat slabs. This putative wall (051) was parallel with the bank at a distance of about 4m from it and was interpreted as the east side of a possible rectangular structure. The north and south walls were not revealed and so the length of this putative structure is not known. Within the interior of the structure there was a dark soil (047), 0.10m deep, containing burnt bone (SF 6152), charcoal, fish bone and slag which was sealed by a 0.30m deep deposit of dark soil with small stones (050). The lower deposit was interpreted as re-deposited midden material and the upper layer as possibly the remains of turf walling, perhaps deposited as a turf walled structure collapsed.



Plate 7: Possible structure abutting the enclosure bank

To the east of the possible structure, the demolished broch was sealed by stony debris (contexts 032, 034, 002 and 003). Contexts 032 and 034 sealed the broch wall (052 & 031) in the vicinity of the intra-mural cell. This material differed from the vacuous rubble beneath, in that there was a soil matrix (032) within the stones (034). This deposit (032/034) was sealed by a layer of small, angular stones (003) which were concentrated in the north-east corner of the trench. Context 003 contained a copper alloy pin (SF 6119) of possible Norse date (pers. comm. Ewan Campbell).

Four flat slabs (053) lying over the stones 003 were seen against the north section face just below the grass. These may have formed part of a paved surface which would suggest that there was a possible late occupation surface very close to, if not at, the current ground surface.

Over the rest of Trench 1 there was a layer of angular stones (002) which were generally larger than the stones in the north-east (003). These stones were generally angular and were possibly fire-cracked or weathered. They are presumably derived from the decaying stones of the broch walls.

There was no topsoil as the grass and roots (context 001) lay directly over the stones of (002) and (003).

Trench 2

To the north of the broch a rock cut ditch least 1.9m deep was exposed in Trench 2. A near vertical rock face was revealed on the N side, but because of the depth of deposits the south side was not fully exposed. The basal fill of the ditch was a brown clay sand (019/048) up to 0.55m deep. Context (048) was used to differentiate the very bottom of the fill although no difference in the character of the deposit was observed. Context 019 contained two fragments of tapslag (SF 6118) which have been dated to the Post-medieval period (pers. comm. Ewan Campbell). Above this clay the ditch was filled with vacuous angular rubble and large boulders (018). This deposit was interpreted as modern slumping of broch debris into the ditch, perhaps as a result of 19th century quarrying on the hilltop. The rubble was sealed by turf and topsoil (017).



Plate 8: Partial excavation of the rock-cut ditch

Trench 3

Trench 3 was located close to the top edge of the quarry in the vicinity of a series of charcoal-filled pits excavated in 1978 (Sherriff 1984). Bedrock (085) was exposed at a depth of less than 0.2m in the northern part of the trench. Within the rest of the trench there were tumbled stones (069), a red brown sandy silt (078/084) and four possible sub-circular features (080 (fill 070), 081 (fill 071), 082 (fill 072) and 083). These features did not form a coherent structure. Feature 080 was 0.3m deep and its fill consisted of charcoal-rich silt with fire-cracked stone (070) and may have been an isolated post-hole. Features (081), (082) and (083) were shallow (about 0.12m) and contained sparse levels of charcoal. These were interpreted as possible spreads of occupation material infilling the

undulating bedrock. These features were sealed by silty sand (079) 0.15m deep and topsoil (068) 0.05m deep. No finds were retrieved from this trench.

No evidence for the pits seen in 1978 were exposed and it was thought that they may have been destroyed by quarrying.

Trench 4

A trench excavated across the outer bank in 1974 (Sherriff 1984, Illus 2) was identified, re-opened and recorded. The natural subsoil was sealed by a very dark layer of charcoal and silty sand (033 & 041) which has been interpreted as a burnt vegetation layer. This could have been a result of site clearance prior to the construction of the rampart. Above this dark layer the body of the rampart consisted of several layers of soil and stones (039, 040, 067, 064 and 065). The rampart had spread up to 5m wide and survived to a maximum height of 0.75m. Angular stones (065 & 067) were located on the southern side of the bank and these have been interpreted as two phases of revetting that has slumped towards the south. The northern side of the bank was considerably less stony in nature. The rampart was sealed by topsoil (063). Some animal disturbance was noted at the northern end of the trench (066) and in the vicinity of a large stone at the northern end of the bank formed by layer (040). No finds were retrieved from Trench 4.



Plate 9: Section through the outer bank in Trench 4

Trench 5

Trench 5 was laid out across the most visible part of the bank (see Figure 5). The change in gradient here was slight and there was outcropping bedrock and so the location and alignment of the bank was not entirely clear.

The primary deposit within the trench, seen at a depth of about 0.6m from the surface, was a thin charcoal rich dark brown silty sand (077). This layer was intermittent over the outcropping bedrock and was up to 0.02m deep. This layer did not extend into the drawn section. The charcoal layer (077) was sealed by a deposit of rounded stones and red/brown silty sand (074/075) which ranged in depth from 0.10m to 0.6m deep over the outcropping bedrock. This stony material formed the body of the bank. A single fragment of shale/jet armllet (SF 6172) was retrieved from context (075).

Within the bank, there was a band of roots and turf with very few stones (076). This band was aligned approximately north-south and was 0.6m deep and up to 0.8m wide. This material was interpreted as a turf component within the bank construction. The bank was sealed by topsoil (073).

Trench 5 was 5m long, but did not extend across the full width of the bank which, measured from aerial photographs examined in 1974, may have been up to 8m wide. While this trench did not therefore reveal the full cross-section of the bank, it did provide potential dating evidence for the construction of the bank in the form of a sample from the charcoal rich layer at the base of the trench. The anthropogenic nature of the bank deposit is attested by the presence of the shale/jet armlet.

Conclusions

The discovery of a broch at Castle Craig has been an exciting addition to the small number of known brochs in Lowland Scotland (MacInnes 1984). Brochs are more commonly found in northern and western Scotland, the best preserved examples being Mousa, Shetland (Cruden 1951) and Dun Carloway (Tabraham 1979). Brochs are characterised by their massively thick walls, circular plans, intra-mural galleries, chambers, stairs and tower-like appearance. Brochs also share some of these architectural characteristics with what have been classified as galleried duns, Complex Atlantic roundhouses and homesteads. This shared architectural heritage has led to much discussion (and some disagreement) on the origin and date of these types of structure (eg MacKie 1965; 2008; Armit 1990; 1997; Sharples & Parker Pearson 1997; Harding 2004 & Romankiewicz 2009).

A group of about 16 known brochs located in Lowland Scotland includes a few excavated examples e.g. Fairy Knowe (Main 1979), Leckie (MacKie 1982), Hurley Hawkin (Taylor 1982), The Tappoch (RCAHMS 1963, 85-7), Torwoodlee (Piggott 1951) and Edin's Hall (Dunwell 1999). There are also unexcavated 'possible' brochs, such as Little Dunsinane, Perth & Kinross (N23SW25) which highlights the probability that there are a number of others yet to be identified.

The excavated examples have produced evidence which indicates that the Lowland brochs were occupied by native communities practicing a mixed farming economy. Among the many iron artefacts from Leckie broch were weapons, such as spear heads and a sword blade and domestic tools, such small knife blades, sheep shears, a foot plough and a cauldron hook. Significant amounts of Roman material found within the brochs, including pottery, glass and metalwork dating to the 1st or 2nd century AD, has led to the suggestion that the brochs represent the habitation of the elite, who would have had access to these prestige goods through trade or through their political dealings with the Romans as members of a client kingdom (MacInnes 1984, 242, Harding 2004, 187-8). The location of this site to the south of the Gask Ridge (Woolliscroft 2002), which is thought to be one of the earliest Roman frontiers in Europe, is undoubtedly significant.

Some Lowland brochs have produced evidence for timber structures which immediately pre-date the building of the broch, but generally the construction of the massive broch walls are dated to the 1st or 2nd century AD, mainly from the presence of the Roman finds, but supported by a small number of radiocarbon dates (MacInnes 1984, 236). In contrast the 1st millennium BC radiocarbon dates from beneath Old Scatness broch (Dockrill *et al* 2006), the Howe of Howe (Ballin-Smith 1994) both in Orkney, and Dun Mor Vaul in Tiree (MacKie 1974) have highlighted that in the north and west, broch building appears to have a much older tradition. It has therefore been suggested that the lowland brochs were constructed by northern invaders or mercenaries invited in by the Romans (MacKie 1982, 68-9). Alternatively, it has been suggested that the broch design could have been borrowed by the local communities from the Atlantic roundhouse cultural tradition (Harding 2004).

A few of the Lowland brochs have produced evidence for deliberate destruction such as at Leckie where the burnt remains of wattle and daub were found as well as the interior being infilled with 'dry rubble' (MacKie 1982, 62-4). MacKie suggested that the destruction at Leckie had been wrought by the Romans on the basis of two round fire cracked stones which may have been the remains of a Roman firestone. He therefore dated the destruction of the tower to soon after AD 140 'at the time of the military re-conquest of Scotland' (MacKie 1982, 64). At other Lowland sites such as at Torwoodlee, Buchlyvie and Hurlly Hawkin there is evidence for demolition and robbing but not necessarily for a deliberate burning and destruction event (MacInnes 1984, 238).

Castle Craig shares several features with others in the Lowland broch group. The domestic nature of the assemblage is testified by the presence small knife blades, a sickle and a significant quantity of animal bones. Numerous high status Roman artefacts which are dated to the 1st or 2nd century AD were also retrieved, although so far no native pottery or Samian has been found (although this may be a product of the limited excavations).

The broch is located within a hillfort enclosed by at least two ramparts. The date of these outer banks is not yet known, but it is thought likely that these represent an earlier construction phase, pre-dating the 1st century AD. The broch may well have been constructed over an earlier structure located at the top of the hill, but so far these excavations have not been deep enough to reach these levels. The single thumbnail scraper may be a residual prehistoric find from this earlier occupation. On the north side there is about 8m – 12m space between the outer line of the broch and the rock cut ditch which could well be occupied by structures contemporary with the broch. The later earth bank and a considerable amount of stone tumble would need to be removed from around the base of the broch before any surrounding settlement, such as that seen at Edin's Hall, could be revealed.

The preservation of the site is quite extraordinary. The mammal bone and the metalwork, particularly the patera, are in extremely good condition and there is possibly worked wood surviving. This would suggest that once deposited, the assemblage has been protected from biological decay and physical disturbance. The mass of stones sealing the broch interior has protected the assemblage from disturbance in a physical way, but it is thought that the absence of topsoil and the vacuous nature of the debris would have enabled water and oxygen, the normal contributors to decay, to act upon these deposits. That this does not seem to have occurred to any great extent is perhaps a result of the particularly tenacious vegetation which formed an impenetrable matt attached to the stones immediately beneath. For how long these conditions have been in place is unclear considering the evidence that there is for post-broch activity on the site.

There is evidence for the re-use of the site in the form of timber palisaded enclosure. The entrance to this palisade was to the south-west, which is the same side as the broch entrance. The palisade bank seals the demolition debris from the broch, but only partially overlies the remains of the broch wall base on the south-east side. The interior of the enclosure is therefore larger and less circular than the footprint of the broch. So far the evidence for activity within this palisade is limited to a putative rectangular structure represented by a rough stone built foundation, a re-deposited midden and a single possibly Norse pin from within this putative structure, and some possible external paving seen just below the grass. There has been no build up of anthropogenic deposits over the broch debris outside the putative structure, so that the stony surface immediately below the grass may well represent the post-broch occupation surface, which is possibly Norse in date.

There are a few traces of post-medieval activity on site in the form of a few sherds of red ceramic from the upper layers, which have the potential to be modern and two pieces of modern tap slag (pers. Com. Ewan Campbell) from the slumped material within the rock-cut ditch. This latter material suggests that that bloomery smelting was taking place on site in the post-medieval period. It would seem unlikely that this material was brought up to the site from elsewhere. This slumped material is

presumably a mixture of broch debris and enclosure bank which has incorporated modern smelting debris. It is also quite likely that quarrying has taken place in the past, involving the removal of the readily available broch debris, particularly the large facing stones leaving the smaller core stones in place.

The collapse of material into the rock cut ditch is a clear example of the process of site edge collapse which is ongoing. This process has been accentuated by the quarrying which took place in the 1970s, fortunately stopped, but which has left near vertical face close to the broch on the south side and the disappearance of the prehistoric pits that were seen by John Sherriff.

The discovery of a broch within Lowland Scotland is extremely exciting and provides an opportunity to examine more closely the relationship between the Romans and the local Celtic tribes in the 1st and 2nd century AD. The site lies south of the Gask Ridge and may have formed one of several brochs occupied by tribes allied with the Romans. The site appears to have met a dramatic end being burnt and demolished. It was later re-occupied, perhaps in the Pictish or Norse period, and would again have been a significant fort within the landscape.

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Appendices

i) Contexts

Context No.	Area	Description	Relationships	Interpretation
001	1	Turf	seals whole trench	modern vegetation
002	1	angular stones	Extends over S Side of trench	demolition debris
003	1	small angular stones in north	Extends over N side of trench	demolition debris
004	1	flat angular slabs over summit of bank	Sealed by 002, over 009 & 020	top of bank construction
005	1	angular stones to W of the bank	Sealed by 009 & 002, over 056	small debris from broch destruction, wall core?
006	1	Compact dark brown clay loam with fist sized stones	Sealed by 003 overlies 015, 038 and 034	demolition debris from wall core
007	1	Mid brown silt loam	fill of 008	post-hole fill, part of timber palisade
008	1	V-shaped feature	Post-hole filled with 007, set into 010	Post-hole
009	1	mid-brown loam with fist sized stones	same as 002	bank construction
010	1	Loose angular stones	sealed by 020 and 007, over stones 012	small debris from broch destruction, wall core?
011	1	Lens of orange ash	Within 020, sealed by 009	burnt turf within construction of bank
012	1	Flat slabs	Below 007	base of timber palisade
013	1	Angular laid slabs	Below 002	wall core
014	1	Angular stones	Below 002	bank construction
015	1	dark stoney layer with charcoal and burnt bone	Sealed by 006, seals broch wall 028 and layer 029	midden and debris
016	1	Large flat slabs forming corballed wall 1.5m high. Fire reddened.	Sealed by 002, 020, 049. Abutted by 013 & 024.	Outer wall face of the broch in the southern section
017	2	Turf in rock cut ditch	Over 018	modern vegetation
018	2	Mixed angular stones	Under 018, seals 019	Tumble from broch wall
019	2	brown grey clay sand with charcoal flecks	Under 018, over bedrock	ditch fill, 19th century
020	1	dark brown silty loam with small stones	Sealed by 004 & 009, over 016 and 010	Palisade bank of re-deposited midden
021	1	Patch of orange ash and charcoal	Sealed by 004, over 010, within 020	burnt turf within construction of bank

022	1	dark brown silty loam at depth of 1.0m.	Sitting in pockets within rubble 026. Equal to 030 and 023.	collapse of burnt upper chamber of broch
023	1	dark brown silty loam at depth of 1.2m.	Sitting in pockets within rubble 026. Equal to 030, 022 and 045.	collapse of burnt upper chamber of broch
024	1	Large angular blocks and slabs slightly tiled to the west	Sealed by 013, abutts walls 016 & 025	wall core of rubble
025	1	Four courses of walling	Abutted by wall core 024 & 013	Interior face of the broch wall
026	1	Large stones lying haphazardly within the broch interior	Seals 045, contains 022, 023 & 030 within it.	Deliberate demolition of broch wall
027	1	Medium to large tumble within broch interior in N strip	Sealed by 003, overlies 044 and abuts interior wall 031	Tumble from broch wall
028	1	Curving line of blocky stones	Sealed by 015, abutted by 029	Top of the exterior of broch wall
029	1	dark brown gravel	Sealed by 015, abuts wall 029	demolition debris
030	1	patch of dark grey clay silt	undulating horizon within tumble 026	burnt remnants of upper chamber
031	1	Curving line of blocky stones	Sealed by 027 & 003	Curving face of broch interior
032	1	angular stones within soil matrix 034	= 034, sealed by 003 & 053, D34	Tumble from broch wall
033	4	dark black brown silty sand	over natural, sealed by 039	burnt turves at base of bank
034	1	dark grey black silty clay	Sealed by 003, is = 032, seals broch walls 052 & 031.	demolition debris
035	1	U-shaped cut	filled with 037, over 039	post-hole
036	1	dark brown sandy clay	within fill 037	patch of charcoal, remnant of the post?
037	1	orange brown sandy clay	fill of 035	?post-hole fill, part of timber palisade
038	1	brown gravelly clay	sealed by 014, seals 015	rampart core
039	4	mid-grey brown silty sand	sealed by 040, seals 033	bank construction
040	4	yellow brown sand and stones+D65	sealed by 064, seals 033 & 039	bank construction
041	4	charcoal patch	over natural, sealed by 040	burnt turves at base of bank
042	1	grey brown clay with flecks of charcoal	within the broch entrance, seals 045	demolition debris
043	1	gap of 0.95m wide between wall 025 & 060	filled with 042	broch entrance (interior)
044	1	mid-brown sandy loam	sealed by 027, seals 058	an OGS over tumble

045	1	very dark brown sandy clay with numerous small angular stones	sealed by 026, seals 086	burning from upper chamber onto floor of broch, pre-dates wall collapse
046	1	gap of about 1.2m in interior wall face	between walls 031 & 057, filled with 027	opening into intra-mural cell
047	1	dark grey brown silty clay with charcoal, fish bone and slag	sealed by 050, infills stones of 051	midden and debris associated with ?post-broch structure
048	2	brown grey clay sand with charcoal flecks	sealed by 019	ditch infill
049	1	Large blocks and slabs lying tilted against the outer broch wall	abutting 016, sealed by 020 & 005	Collapse of broch outer wall face.
050	1	dark brown clay loam with chippy stones	sealed by 001, sealing 047	?infill of post-broch structure
051	1	flat slabs and two large stones	infilled with 047	wall of a ?post-broch structure
052	1	Curving wall face	sealed by 027	face of intra-mural cell
053	1	Four flat slabs just below the surface of 001	sealed by 001, seals 034	OGS associated with post-broch structure?
054	1	Upright stones within 027	Within 027. Seals 055/058	Possible post-packing
055	1	flat slabs forming a ? rough surface	= 058. Sealed by 044	?Top of the vacuuous rubble infilling broch
056	1	large stones with red/orange colouration	Sealed by 005	continuation of 049?
057	1	Four courses of walling	Sealed by 027	wall of intra-mural cell
058	1	flat slabs forming a ? rough surface	= 055. Sealed by 044	?Top of the vacuuous rubble infilling broch
059	1	medium sized angular stones	abutting wall 052	wall core
060	1	corner of walling, four courses	E of entrance 043, abutted by 043	continuation of inner face of broch wall
061	1	pink/brown clay and compacted stones	= 090. Sealed by 045	re-deposited natural, forming clay floor?
062	1	vacuuous rubble	Sealed by 038 & 015	Broch demolition debris below the palisade bank
063	4	mid-grey brown silty sand	seals 064	topsoil
064	4	light yellow brown silty sand and stones	sealed by 063, seals 040	uppermost bank construction
065	4	Large angular & sub-angular stones	sealed by 063, seals natural	secondary kerb for the bank
066	4	dark red/brown silty sand	sealed by 064	animal burrow
067	4	Large angular & sub-angular stones	sealed by 064, seals 039	primary kerb for the bank
068	3	grey mid-brown sandy silt	seals 069 & 079	topsoil

069	3	large sub-angular & angular stones	sealed by 068, seals 070 & 071	collapsed debris
070	3	dark brown silt & fire cracked stone	sealed by 069, within 080	spread of charcoal in a natural void
071	3	dark brown silty sand	sealed by 069 & 079 , within 081	spread of charcoal in a natural void
072	3	dark brown silt & small stones	sealed by 069 & 079, within 082	spread of charcoal in a natural void
073	5	red/brown silty sand	seals 074, 075 & 076	topsoil
074	5	angular stones & red-brown silty sand	seals 077	turf and stone bank
075	5	angular stones & red-brown silty sand	= 074	turf and stone bank
076	5	dark orange brown silty sand	seals 077	turf bank
077	5	dark brown silty sand & charcoal	sealed by 074, 075 & 076	charcoal rich layer over bedrock
078	3	dark brown silty sand	= 084, within 083	spread of charcoal in a natural void
079	3	mid yellow brown silty sand & stones	sealed by 068, seals 070, 071 & 072	angular spread
080	3	small irregular hollow in bedrock	sealed by 070	natural hollow in bedrock
081	3	small irregular hollow in bedrock	sealed by 071	natural hollow in bedrock
082	3	small irregular hollow in bedrock	sealed by 072	natural hollow in bedrock
083	3	small irregular hollow in bedrock	sealed by 078	natural hollow in bedrock
084	3	loose red brown sandy silt	sealed by 079	burnt spread
085	3	bedrock	sealed by 084	bedrock
086	1	dark brown clay	sealed by 045, seals 087	burnt floor deposits
087	1	flat irregular shaped slabs	sealed by 086 & 045	primary floor of broch
088	1	pink/brown clay & small gravel	sealed by 087	redeposited natural
089	1	stone & gravel bank	sealed by 045	possible timber wall foundation
090	1	pink/brown clay & small gravel	sealed by 045	redeposited natural

ii) Small Finds

Find No.	Area	Context No.	No of Pieces	Material	Description
6100	1	002	2	ceramic	small red fragments
6101	1	003	several	bone	burnt fragments
6102	1	003	1	ceramic	drain fragment
6103	1	002	1	flint	burnt
6104	1	006	1	flint	thumbnail scraper
6105	1	006	1	flint/agate	fragment

6106	1	002	1	slag	fragment
6107	1	004	1	Metal	plate with holes
6108	1	006	1	bone	sheep teeth
6109	1	006	several	bone	burnt fragments
6110	1	013	several	bone	burnt fragments
6111	1	015	1	stone	hone?
6112	1	015	1	ceramic	red fragment
6113	1	015	several	bone	burnt
6114	1	003	1	ceramic	lamp/crucible?
6115	1	024	1	stone	quernstone fragment
6116	1	024	1	stone	quernstone fragment
6117	1	015	1	bone	large bone fragment
6118	2	019	1	slag	tap slag
6119	1	003	1	Cu Alloy	pin
6120	1	027	1	Cu Alloy	Roman patera
6121	1	002	1	Cu Alloy	fragment
6122	1	023	1	shell	fragment
6123	1	027	2	iron	nail
6124	1	003	1	bone	fragment
6125	1	026	1	glass	Roman vessel sherd
6126	1	026	1	bone	fragment
6127	1	022		bone	fragment
6128	1	022	4	Cu Alloy	small sheet
6129	1	026	2	iron	?Knife blade
6130	1	026	1	stone	?pigment stone
6131	1	027	1	Cu Alloy	fragment
6132	1	023	1	stone	black bowl with decoration
6133	1	023	1	glass	enamelled bracelet
6134	1	023	1	shell	fragment of cockle shell
6135	1	023?		bone, wood & shell	?worked wood
6136	1	027	1	shale	bracelet
6137	1	027	1	stone	hammerstone
6138	1	030	3	bone	burnt
6139	1	030	5	bone	burnt
6140	1	027		stone	?pigment
6141	1	027	1	stone	?worked
6142	1	045	1	bone	burnt
6143	1	045	1	Cu Alloy	bracelet fragment
6144	1	045	1	shell	burnt
6145	1	045	1	Cu Alloy	fragment with rivet

6146	1	045	1	bone	mammal ? human
6147	1	045		bone	very degraded
6148	1	045	1	?Cu alloy	drip
6149	1	044	1	bone	sheep tooth
6150	1	020	1	bone	mammal rib
6151	1	045	1	stone	fire cracked
6152	1	047	1	bone	mammal
6153	1	045	1	Cu Alloy	decorative boss
6154	1	045	3	amber	bead
6155	1	045	1	iron	object
6156	1	045	1	iron	object
6157	1	045	2	Cu Alloy	object
6158	1	045	1	stone	?haematite
6159	1	045		bone	mammal
6160	1	045	1	shale	bracelet
6161	1	045	1	Cu Alloy	pin head
6162	1	045	1	?	button
6163	1	045	1	glass	vessel rim
6164	1	045	1	Cu Alloy	zig-zag plate
6165	1	045	1	lead	object
6166	1	045		ochre	lumps
6167	1	045	1	glass	blue melon bead
6168	1	045	1	glass	blue melon bead fragment
6169	1	045	2	Cu Alloy	bangle fragment
6170	1	045	1	Cu Alloy	bent plate
6171	1	045		bone	pig skull
6172	5	075	1	shale/jet	armlet fragment
6173	1	045	1	stone	unusual
6174	1	045	2	iron	curved handle?
6175	1	045	1	bone	broken burnt comb
6176	1	045	1	glass	bangle fragment, yellow & black
6177	1	045	1	shell	cockle
6178	1	045	1	Cu Alloy	bent sheet
6179	1	045	1	glass	vessel rim
6180	1	045	1	stone	oval shape, smooth
6181	1	045	1	iron	object
6182	1	045		bone	sheep jaw
6183	1	045	1	glass	vesselfragment
6184	1	045		Cu Alloy	fragments
6185	1	045	2	iron	pointed tool & stone
6186	1	045	2	Cu Alloy	bracelet fragments
6187	1	045	1	glass	small sherd
6188	1	045	3	iron	objects
6189	1	045	1	glass	bangle fragment, yellow &

					red
6190	1	045	2	iron	sickle blade
6191	1	045	several	Cu Alloy	fragments
6192	1	045	1	stone	round white
6193	1	045	1	iron	fragment
6194	1	045	1	stone	ball
6195	1	045	1	Cu Alloy	pin
6196	1	045	2	stone	fire cracked
6197	1	045	1	Cu Alloy	rolled sheet
6198	1	045	1	stone	sharpener
6199	1	045	1	glass	bangle, yellow & white
6200	1	045	1	stone	spind whorl, plain
6201	1	045	1	stone	unusual shape

iii) Drawings

Drawing No.	Area	Subject	Description	Scale	Type	Drawn by	Date
001	1	005, 007, 004, 002, 009	Plan of the bank in the SW	1:20	Plan	HFJ	4/8/11
002	1	014, 006, 007, 008, 009, 010, 011, 012	Section through bank with Post hole	1:10	Section	JMcK	6/8/11
003	1	014, 006	Plan of the bank in the NW	1:20	Plan	JD	5/8/11
004	1	021, 004, 007, 008, 009, 020	Plan of the top of the bank below 004	1:20	Plan	HFJ	6/8/11
005	1	013	Plan of the rubble after 002 removed	1:20	Plan	CAM	6/8/11
006	1	002, 003, 025	Plan of tumble	1:20	Plan	CGI	13/8/11
007	1	016, 009, 020, 013, 024, 049, 005, 004, 002, 001	North facing section of southern strip	1:10	Section	DFE	17/8/11
008	1	014, 035, 036, 037, 038	W facing section through post-hole	1:10	Section	JDU	17/8/11
009	3	069	Plan of Trench 3, topsoil removed	1:10	Plan	DG	15/8/11
010	1	025, 026, 002, 001, 042, 060, 087	North facing section of southern strip	1:10	Section	TLO	18/8/11

011	1	027, 044, 058, 001, 003, 031, 053	South facing section of northern strip	1:10	Section	CAM	18/8/11
012	2	017, 018, 019	West facing section of rock cut ditch	1:10	Section	CMN	18/8/11
013	1	034, 059, 052, 003, 053	South facing section of northern strip	1:10	Section	CJO	18/8/11
014	1	009, 005, 030, 056, 001, 020	North facing section of southern strip	1:10	Section	SWA	18/8/11
015	1	002	Plan of 002 after topsoil removed	1:20	Plan	CPA	11/8/11
016	1	003, 054, 055, 027	North facing section of northern strip	1:10	Section	DFE	18/8/11
017	1	001, 002, 013, 024	North facing section of southern strip	1:10	Section	ECH	19/8/11
018			unused				
019	1	016, 047, 051, 020, 050	South facing section of middle strip	1:10	Section	JMcK	19/8/11
020	1	002, 013, 001, 024	North facing section of southern strip	1:10	Section	SWA	19/8/11
021	1	060, 043, 025, 045, 024, 016, 002, 003, 058, 031, 057, 052, 059, 028	Plan of Trench 1	1:50	Plan	CPA	19/8/11
022	1	002	Plan of 002 after topsoil removed	1:20	Plan	CLG	19/8/11
023	1	057, 052, 003, 027, 032	North facing section of norther strip	1:10	Section	DFE/CMA	20/8/11
024	4	063, 064, 040, 039, 065, 033, 066, 067	East facing section of outer rampart Trench 4	1:10	Section	IAM	19/8/11
025	1	001, 014, 006, 038, 062, 015, 028, 029	South facing section of northern strip	1:10	Section	JDU	18/8/11
026	5	073, 074, 076, 075	South facing section of Trench 5	1:10	Section	CMI	21/8/11
027	1	045, 025, 060	Plan of broch interior, southern strip	1:50	Plan	HFJ	23/8/11

028	1	002, 026, 045, 086, 087, 090, 061, 030	South facing section of southern strip	1:10	Section	HFJ	24/8/11
029	1	025, 087, 089, 090, 060, 026, 042, 043	Plan of broch floor	1:20	Plan	HFJ	25/8/11
030	1	016, 051	Plan	1:20	Plan	JMcK	20/8/01
031	1	016	working drawing	1:50	Plan	CPA	9/8/11
032	1	025, 060	Working plan, showing location of dwg #2	1:50	Plan	CPA	9/8/11
033	5	074, 075, 076	Plan of Trench 5	1:20	Plan	CMA	25/8/11
034	3	068, 070, 079, 069	Plan of Trench 3	1:20	Plan	TIP	23/8/11
035	3	070, 080	Section of possible feature	1:10	Section	TIP	24/8/11
036	3	071, 081	Section of possible feature	1:10	Section	TIP	24/8/11
037	3	072, 082	Section of possible feature	1:10	Section	TIP	24/8/11
038	5	074, 075	Plan of Trench 5	1:20	Section	CMA	24/8/11
039	3	084, 085	Post-ex plan of Trench 3	1:10	Plan	TIP	24/8/11

iv) Samples

Sample No.	Area	Context No.	No. & Size bag	Reason for sample	Taken by	Date
001	1	007	M	Charcoal	AMcK	6/8/11
002	1	007	M	Charcoal	AMcK	6/8/11
003	1	013	M	Charcoal	CLG	9/8/11
004	1	011	M	Charcoal	HFJ	7/8/11
005	1	020	2x M	Charcoal	HFJ	7/8/11
006	1	021	M	Charcoal	HFJ	7/8/11
007	1	022	M	Charcoal	HFJ	7/8/11
008	2	019	M	Charcoal	SW	9/8/11
009	2	019	M	Charcoal	CMcN	9/8/11
010	1	020	M	Charcoal & bone	JMcK	9/8/11
011	1	015	2 x M	Charcoal & bone	CGI	9/8/11
012	1	013	1 x S	Charcoal	CLG	10/8/11
013	1	020	M	Bone	JMcK	10/8/11
014	1	015	M	Charcoal	CGI	10/8/11
015	1	014	S	Charcoal	CGI	10/8/11
016	1	014	S	Charcoal & bone	CPA	11/8/11
017	1	015	M	Charcoal & bone	CLG	12/8/11
018	1	015	S	Charcoal	HFJ	12/8/11
019	1	015	S	Charcoal & bone	HFJ	12/8/11
020	2	019	M	Charcoal	CMcN	13/8/11
021	1	015	M	Charcoal & bone	DFE	13/8/11
022	1	029	S	Charcoal & bone	DFE	16/8/11
023	1	014	S	Charcoal	JDU	17/8/11
024	1	014	M	Charcoal	JDU	17/8/11

025	1	030	L	Charcoal	CAM	17/8/11
026	1	042	L	Charcoal	CAM	17/8/11
027	3	041	L	Charcoal	Euan	17/8/11
028	3	033	L	Charcoal	Euan	17/8/11
029	3	039	L	Charcoal	Euan	17/8/11
030	1	027	S	Charcoal		17/8/11
031	1	045	L	Charcoal & bone	AGO	17/8/11
032	1	027	S	Charcoal		17/8/11
033	1	038	M	Charcoal & bone	CLG	17/8/11
034	3	044	L	Charcoal	SW	18/8/11
035	2	019	M	Charcoal	CMcN	18/8/11
036	2	019	M	Charcoal	CMcN	18/8/11
037	1	047	L	Charcoal, fish bone	ECH	18/8/11
038	2	048	L	Charcoal	CMcN	19/8/11
039	2	019	L	Charcoal	CMcN	20/8/11
040	2	048	M	Charcoal	CMcN	20/8/11
041	2	048	M	Charcoal	CMcN	20/8/11
042	1	026	M	Charcoal	HFJ	23/8/11
043	1	045	M	Charcoal, bone & artefacts	HFJ	23/8/11
044	1	045	S	Charcoal & hazel nut shell	HFJ	24/8/11
045	1	045	2 x L	Charcoal, bone & artefacts	HFJ	24/8/11
046	1	045	M	Charcoal, bone & artefacts	HFJ	24/8/11
047	1	086	M	Charcoal	HFJ	24/8/11
048	1	045	S	Charcoal, bone & artefacts	HFJ	24/8/11
049	3	070	M	Charcoal	TIP	24/8/11
050	3	071	M	Charcoal	TIP	24/8/11
051	5	077	M	Charcoal	CMcl	24/8/11
052	1	088	S	Charcoal	HFJ	25/8/11

v) Photographs

Frame No.		Area	Subject No.	Description	Take n From
DSC F	3734	1	001	Castle Craig deturfing	SE
DSC F	3735	1	001	Castle Craig deturfing	S
DSC F	3736	1	001	Castle Craig deturfing	SE
DSC F	3737	1		Film ID	
DSC F	3738	1	001	Castle Craig deturfing	SW
DSC F	3739	1	001	Castle Craig deturfing	W
DSC F	3740	1	001	Castle Craig deturfing	N
DSC F	3741	1	001	Castle Craig deturfing	N

DSC F	374 4	1		Jennifer & Alex MacKay	
DSC F	374 5	1	001	Castle Craig deturfing	SE
DSC F	374 6	1	001	Castle Craig deturfing	SE
DSC F	374 7	1	001	Castle Craig deturfing	NE
DSC F	374 8	1	001	Castle Craig deturfing	N
DSC F	374 9	1	002	Cleaning back over trench	E
DSC F	375 0	1	002	Cleaning back over trench	E
DSC F	375 1	1	002, 003	Cleaning back over trench	E
DSC F	375 2	1	002, 003	Cleaned surface of rubble	E
DSC F	375 3	1	002, 003	Cleaned surface of rubble	E
DSC F	375 4	1	002, 003	Cleaned surface of rubble	E
DSC F	375 5	1	002, 003	Cleaned surface of rubble, S half of trench	E
DSC F	375 6	1	002, 003	Cleaned surface of rubble, N half of trench	E
DSC F	375 7	1	002, 003	Cleaned surface of rubble, W half of trench, possible terrace	S
DSC F	375 8	1	002	Stones within bank in the SW	N
DSC F	375 9	1	002	Stones within bank in the SW	S
DSC F	376 0	1	002	Stones over bank to the W	W
DSC F	376 1	1	002	Stones over bank to the W	W
DSC F	376 2	1	002	Stones over bank to the W	W
DSC F	376 3	1	002	Stones over bank to the W in the NW	N
DSC F	376 4	1	003	Smaller stones in the NE corner	S
DSC F	376 5	1	003	Smaller stones in the NE corner, possible feature	S
DSC F	376 6	1	003	Smaller stones in the NE corner, possible feature	S
DSC F	376 7	1	002	Top stones layer of stones removed, S end	E
DSC F	376 8	1	003	Top stones layer of stones removed, N end	E
DSC	376	1	003	Sondage in NE corner	S

F	9					
DSC F	377 0	1	003	Sondage in NE corner, detail, 1m deep onto charcoal layer	S	
DSC F	377 1	1		Digging in the mist		
DSC F	377 2	1	005	Loose rubble at W end of S area	W	
DSC F	377 3	1	005	Loose rubble at W end of S area	W	
DSC F	377 4	1	005	Loose rubble at W end of S area	NW	
DSC F	377 5	1	005	Loose rubble at W end of S area	SW	
DSC F	377 6	1	005	Loose rubble at W end of S area	E	
DSC F	377 7	2	017	Deturfing over rock cut ditch	S	
DSC F	377 8	2	017	Deturfing over rock cut ditch	S	
DSC F	377 9	1		Tessi planning	SW	
DSC F	378 0	1	004, 009	Pre-excavation of S slot across bank	W	
DSC F	378 1	1	004	Flat slabs within bank	S	
DSC F	378 2	1	004,	Flat slabs within bank	S	
DSC F	378 3	1	004	Flat slabs within bank	N	
DSC F	378 4	1	004	Flat slabs within bank	N	
DSC F	378 5	1	002, 026	S-facing section of small sondage in SE corner of trench 1	SW	
DSC F	378 6	1	002, 026	S-facing section of small sondage in SE corner of trench 1	SW	
DSC F	378 7	1	002, 026	S-facing section of small sondage in SE corner of trench 1	SW	
DSC F	378 8	1		Team sitting in turf nook	W	
DSC F	378 9	1	014	N side of trench after 003 removed	E	
DSC F	379 0	1	014	N side of trench after 003 removed	E	
DSC F	379 1	1	014	N side of trench after 003 removed	E	
DSC F	379 2	1	014	Rubble bank in N slot	S	
DSC F	379 3	1	014	Rubble bank in N slot	W	
DSC	379	1	014	Rubble bank in N slot	NW	

F	4				
DSC	379				
F	5	1	014	Rubble bank in N slot	N
DSC	379				
F	6	1	014	Rubble bank in N slot	N
DSC	379		006,		
F	7	1	014	Dark soil to E of N slot across bank	NW
DSC	379				
F	8	1		Joss planning N slot across bank	S
DSC	379				
F	9	1		Joss planning N slot across bank	S
DSC	380		006,		
F	0	1	015	Charlie and Colette excavating N side of trench	SW
DSC	380		004,		
F	1	1	009	Jennifer digging bank	NE
DSC	380				
F	2	1	020	Alex digging bank	N
DSC	380				
F	3	2		Cameron and Christina digging trench 2	S
DSC	380				
F	4	2	018	Mid excavation of rubble in trench 2	S
DSC	380		008,		
F	5	1	007	Post-hole in S slot through bank	WSW
DSC	380		008,		
F	6	1	007	Post-hole in S slot through bank	WSW
DSC	380		008,		
F	7	1	007	Post-hole in S slot through bank	WSW
DSC	380		020,		
F	8	1	010	S-facing section of rubble of bank S of post-hole 008	S
DSC	380		008,		
F	9	1	007	Post-hole in S slot through bank	WSW
DSC	381		008,		
F	0	1	007	Post-hole in S slot through bank	WSW
DSC	381		008,		
F	1	1	007	Post-hole in S slot through bank	WSW
DSC	381		008,		
F	2	1	007	Post-hole in S slot through bank	WSW
DSC	381				
F	3	1	004	Stone on top of bank (top of post-hole 008)	S
DSC	381				
F	4	1		Clare and Dawn taking levels	SE
DSC	381				
F	5	1		Clare and Dawn taking levels	E
DSC	381				
F	6	1		Clare and Dawn taking levels	E
DSC	381				
F	7	1		Dawn holding staff	N
DSC	381				
F	8	1		Alex digging bank	SW
DSC	381				
F	9	1	021	Patches of orange (possible turf?) near post-hole 008	S

DSC F	382 0	1	021	Patches of orange (possible turf?) near post-hole 008	S
DSC F	382 1	1	021	Patches of orange (possible turf?) near post-hole 008	S
DSC F	382 2	1	021	Patches of orange (possible turf?) near post-hole 008	S
DSC F	382 3	1	006, 015	Dawn excavating dark soil on N side of trench	SE
DSC F	382 4	1	006, 015	Dawn excavating dark soil on N side of trench	N
DSC F	382 5	1	006, 015	Dark soil in N side of trench	N
DSC F	382 6	2	018	Mid excavation of rubble in trench 2	SW
DSC F	382 7	2	018	Mid excavation of rubble in trench 2	W
DSC F	382 8	1	013	Top of rubble fill of broch wall under 002	S
DSC F	382 9	1	013	Top of rubble fill of broch wall under 002	S
DSC F	383 0	1	013	Top of rubble fill of broch wall under 002	S
DSC F	383 1	1	013	Area next to possible structure abutting bank?	N
DSC F	383 2	1	013	Area next to possible structure abutting bank?	NW
DSC F	383 3	1	008, 010	Loose rubble within bank - possible post-hole	W
DSC F	383 4	1	010, 011	Peat lens within rubble	W
DSC F	383 5	1	008, 007, 010, 011	Loose rubble within bank - possible post-hole	W
DSC F	383 6	1		Lorraine digging bank	SW
DSC F	383 7	1	013/02 4	Leaf and Adrian digging rubble fill of broch wall	SW
DSC F	383 8	1	013/02 4	Leaf and Adrian digging rubble fill of broch wall	SE
DSC F	383 9	1	016, 024	Large pinning stone of outer broch wall face 016 jutting into rubble fill 024	SE
DSC F	384 0	1	016, 024	Large pinning stone of outer broch wall face 016 jutting into rubble fill 024	SW
DSC F	384 1	1	024	Leaf digging rubble fill of broch wall	SE
DSC F	384 2	1	002, 026	Cathy digging sondage in SE corner of trench through rubble from broch wall	W
DSC F	384 3	1	002, 026	Cathy digging sondage in SE corner of trench through rubble from broch wall	W

DSC F	384 4	1	002, 003	Sondage in SE corner of trench	SE
DSC F	384 5	1	002, 026	Sondage in SE corner of trench - showing vacuous rubble	W
DSC F	384 6	1	002, 026	Sondage in SE corner of trench - showing vacuous rubble	W
DSC F	384 7	1	002, 026	Sondage in SE corner of trench - showing vacuous rubble	W
DSC F	384 8	1	002, 026	Sondage in SE corner of trench - showing vacuous rubble	E
DSC F	384 9	1	002, 026	Sondage in SE corner of trench - showing vacuous rubble	E
DSC F	385 0	1	013, 024	N-facing section of mid excavation of rubble in core of broch wall	N
DSC F	385 1	1	013, 024	Mid-excavation of rubble and debris in core of broch wall	E
DSC F	385 2	1	013, 024, 016	Mid-excavation of rubble and debris in core of broch wall	E
DSC F	385 3			Video in tent on wet day	
DSC F	385 4	1	026	Excavation of sondage in SE of trench showing charcoal patches on vacuous rubble	NW
DSC F	385 5	1	026	Excavation of sondage in SE of trench showing charcoal patches on vacuous rubble - close-up	NW
DSC F	385 6	1	026	Mid-excavation of rubble in SE sondage	E
DSC F	385 7	1	026	Mid-excavation of rubble in SE sondage	S
DSC F	385 8	1	026	Mid-excavation of rubble in SE sondage	NW
DSC F	385 9	1	026	Mid-excavation of rubble in SE sondage,	S
DSC F	386 0	1	026	Mid-excavation of rubble in SE sondage, showing charcoal patch	S
DSC F	386 1			Soggy team	
DSC F	386 2			Soggy team	
DSC F	386 3			Video of fern cleaning	
DSC F	386 4			Video of fern cleaning	
DSC F	386 5			Leaf and Cathy	
DSC F	386 6			Leaf and Cathy	
DSC F	386 7	2		Steven excavating in ditch	E

DSC F	386 8	2	018	Stone on side of ditch trench 2	N
DSC F	386 9	2	018	Cameron and Steven excavating in ditch	W
DSC F	387 0	2	018	Cameron and Steven excavating in ditch	W
DSC F	387 1	2		Closeup of stone on side of ditch trench 2	N
DSC F	387 2	1	049, 005	Alex excavating rubble on W side of bank	E
DSC F	387 3	1	016, 020	Jennifer exposing top of outer edge of broch wall	W
DSC F	387 4	1	002, 009, 020, 004	N-facing section of area between broch wall and bank	N
DSC F	387 5	1	015	Pre-excavation dark stony layer with burnt bone in northern strip	E
DSC F	387 6	1	015	Pre-excavation dark stony layer with burnt bone in northern strip	E
DSC F	387 7	1	015	Pre-excavation dark stony layer with burnt bone in northern strip	E
DSC F	387 8	1	014	Mid excavation of stony core of bank	N
DSC F	387 9	1	014	Mid excavation of stony core of bank	W
DSC F	388 0	1	016	back of outer broch wall face	E
DSC F	388 1	1	016	back of outer broch wall face	E
DSC F	388 2	1	016, 020	Outer edge of broch wall and deposit 020	N
DSC F	388 3	1	016, 020	Outer edge of broch wall and deposit 020	SE
DSC F	388 4	1	016	Jennifer digging broch wall	SE
DSC F	388 5	1	013	Mid excavation of rubble core of broch wall	
DSC F	388 6	1	026	Tessi and Eva making sondage bigger in SE corner	
DSC F	388 7	1	002, 003	General view of trench	E
DSC F	388 8	1	002, 003	General view of trench	E
DSC F	388 9	1	002, 003	General view of trench	SE
DSC F	389 0	1	002, 003	General view of trench	NE
DSC F	389 1	1	014	Excavation of bank	N
DSC	389	1	014	Excavation of bank	N

F	2				
DSC F	389 3	1	016, 020	Outer face of broch wall being exposed	NW
DSC F	389 4	1	016, 020	Outer face of broch wall being exposed	W
DSC F	389 5	1	020, 009, 004, 002	N-facing section through bank and debris abutting broch wall	N
DSC F	389 6	1	020, 009, 004, 002	N-facing section through bank and debris abutting broch wall	N
DSC F	389 7	1	020, 009, 004, 002	N-facing section through bank and debris abutting broch wall	N
DSC F	389 8	1	020, 009, 004, 002	N-facing section through bank and debris abutting broch wall	N
DSC F	389 9	1	020, 009, 004, 002, 005	N-facing section through bank	N
DSC F	390 0	1	020, 009, 004, 002, 005	N-facing section through bank and debris	N
DSC F	390 1	1	049, 005	Debris and rubble to the W of the bank through the S strip	N
DSC F	390 2	1	016	Edge of broch wall	W
DSC F	390 3	1	013	Alex and Jennifer excavating rubble in wall core	E
DSC F	390 4	1	025	Inner edge of broch wall	S
DSC F	390 5	1	016, 020, 002	Charlie planning possible structure	S
DSC F	390 6	1	015	Colette digging black stony deposit in N strip	NE
DSC F	390 7	1	015	Colette digging black stony deposit in N strip	N
DSC F	390 8	1	015	Excavation of black stony deposit in N strip	N
DSC F	390 9	1	015	Excavation of black stony deposit in N strip	N

DSC F	391 0	1	015	Excavation of black stony deposit in N strip - showing burnt bone	N
DSC F	391 1	1	015	Excavation of black stony deposit in N strip - showing burnt bone	N
DSC F	391 2	1	002	Planning of stony material	W
DSC F	391 3	1	026	Excavation of rubble within interior of broch, edge of inner broch wall	NW
DSC F	391 4	1	002	Planning of stony material	N
DSC F	391 5	1		General view of trench	E
DSC F	391 6	1		General view of S strip	E
DSC F	391 7	1		General view of S strip	E
DSC F	391 8	1	049, 020, 016	Rubble outside of broch wall	S
DSC F	391 9	1	049, 016	Rubble outside of broch wall	SW
DSC F	392 0	1	028	Top of broch wall exposed in N strip	N
DSC F	392 1	1	028	Top of broch wall exposed in N strip	NE
DSC F	392 2	1	025	Inner edge of broch wall in S strip	E
DSC F	392 3	1	025	Inner edge of broch wall in S strip	NE
DSC F	392 4	1	024	Rubble core of broch wall	SE
DSC F	392 5	1	025	Inner edge of broch wall	E
DSC F	392 6	1	025	Inner edge of broch wall	N
DSC F	392 7	1	013, 024	Rubble core of broch wall	N
DSC F	392 8	1	025	Digging in broch	E
DSC F	392 9	1	025	Digging in broch	E
DSC F	393 0	1	049, 016	Rubble outside broch	S
DSC F	393 1	1	049, 016	Rubble outside broch	S
DSC F	393 2	1	049, 016, 020	Rubble outside broch and enclosure bank	S
DSC F	393 3	1	049, 016	Rubble outside broch	N

DSC F	393 4	1	049, 016	Rubble outside broch	N
DSC F	393 5	1	025, 026	Rubble inside broch	E
DSC F	393 6	1	025, 026	Rubble inside broch	E
DSC F	393 7	1	025, 026	Rubble inside broch	N
DSC F	393 8	1	025, 026	Rubble inside broch	N
DSC F	393 9	1	014	Mid-excavation of enclosure bank showing stone	N
DSC F	394 0	1	014	Mid-excavation of enclosure bank showing stone	N
DSC F	394 1	1	014	Mid-excavation of enclosure bank showing stone	NE
DSC F	394 2	1	028, 029	Stones of broch wall and debris and W side	NE
DSC F	394 3	1	028, 029	Stones of broch wall and debris and W side	N
DSC F	394 4	1		Volunteers digging in N strip	W
DSC F	394 6	1		Group shot - tea break	
DSC F	394 7	3	068, 079	Deturf trench 3 showing stones	S
DSC F	394 8	3	068, 079	Deturf trench 3 showing stones	S
DSC F	394 9	3	068, 079	Deturf trench 3 showing stones	W
DSC F	395 0	3	068, 079	Deturf trench 3 showing stones	W
DSC F	395 1	1	016, 049	Edge of outer broch wall S strip	N
DSC F	395 2	1	016, 049	Edge of outer broch wall S strip	N
DSC F	395 3	1	016, 049	Edge of outer broch wall S strip	N
DSC F	395 4			Tessi, Clare and Susan excavating in broch	
DSC F	395 5	1	038	Mid-excavation of enclosure bank stone removed	S
DSC F	395 6	1	038	Mid-excavation of enclosure bank stone removed	SE
DSC F	395 7	1	038	Mid-excavation of enclosure bank stone removed	N
DSC F	395 8	1	002	Pre-excavation of sondage through possible structure	W
DSC F	395 9	1	002	Pre-excavation of sondage through possible structure	E
DSC	396	1	002	Pre-excavation of sondage through possible structure	E

F	0				
DSC F	396 1	1	SF 6114	Clay crucible(?) in situ in N strip at edge of inner wall face 031	SE
DSC F	396 2	1	SF 6114	Clay crucible(?) in situ in N strip at edge of inner wall face 031	SE
DSC F	396 3	1	SF 6114	Clay crucible(?) in situ in N strip at edge of inner wall face 031	SE
DSC F	396 4	1	SF 6114	Clay crucible(?) in situ in N strip at edge of inner wall face 031	SE
DSC F	396 5	1	043	Cathy digging entrance	SE
DSC F	396 6	1	043	Cathy digging entrance	S
DSC F	396 7	1		General view of trench	SE
DSC F	396 8	1		General view of trench	NW
DSC F	396 9	1		General view of trench	NW
DSC F	397 0	1		General view of trench	NW
DSC F	397 1	1	028, 029	General view of wall edge 028 and stones 029 in N strip	N
DSC F	397 2	1	028, 029	Wall edge 028 and stones 029 in N strip	N
DSC F	397 4	1	028, 029	Wall edge 028 and stones 029 in N strip	N
DSC F	397 5	1	028, 029	Wall edge 028 and stones 029 in N strip	N
DSC F	397 6	1	SF 6120, 003	Patera first appearing from 003	S
DSC F	397 7	1	SF 6120, 003	Patera first appearing from 003	S
DSC F	397 8	1	SF 6120, 003	Patera first appearing from 003	S
DSC F	397 9	1	SF 6120, 003	Patera first appearing from 003	S
DSC F	398 0	1	SF 6120	Steven digging patera	E
DSC F	398 1	1	SF 6120	Steven digging patera	E
DSC F	398 2	1	SF 6120	Steven digging patera	E
DSC F	398 3	1	SF 6120	Steven digging patera	E
DSC	398	1	SF 6120	Steven digging patera	E

F	4				
DSC	398				
F	5	1	SF 6120	Steven digging patera	E
DSC	398				
F	6	1	SF 6120	Patera in situ	E
DSC	398				
F	7	1		Team watching Steve dig patera	S
DSC	398				
F	8	1		Team watching Steve dig patera	S
DSC	398				
F	9	1		Team watching Steve dig patera	S
DSC	399				
F	0	1	SF 6120	Patera in situ	SW
DSC	399				
F	1	1	SF 6120	Patera in situ	S
DSC	399				
F	2	1	SF 6120	Patera in situ	S
DSC	399				
F	3	1	043	Mid excavation of entrance	W
DSC	399				
F	4	1	016	Edge of outer broch wall S strip	
DSC	399				
F	5	1		Excavation on interior of broch	NW
DSC	399				
F	6	1	016, 013	Excavation on interior of broch	NW
DSC	399				
F	7	1	016	Inner edge of outer broch wall	S
DSC	399				
F	9	1	029	Dawn digging rubble 029 in N strip	SW
DSC	400				
F	1	2	018	Cameron drawing section of rubble in ditch	W
DSC	400				
F	2	2	018	Cameron drawing section of rubble in ditch	S
DSC	400				
F	3	1	014	Mid excavation of enclosure bank in N strip	SW
DSC	400				
F	4	1	014	Mid excavation of enclosure bank in N strip	NW
DSC	400				
F	5	1	014	Mid excavation of enclosure bank in N strip	W
DSC	400				
F	6	1	014	Mid excavation of enclosure bank in N strip	W
DSC	400				
F	8	1	030, 043	Rubble within broch from entrance	N
DSC	400				
F	9	1	043, 025	Rubble in entrance way	N
DSC	401				
F	0	1	030	Burnt material within rubble	W
DSC	401				
F	1	4	063, 064	Section through outer enclosure bank	NE
DSC	401				
F	2	4	063, 064	Section through outer enclosure bank	E

DSC F	401 3	4	063, 064	Section through outer enclosure bank	E
DSC F	401 4	4	063, 064	Section through outer enclosure bank	E
DSC F	401 5	4		ACFA Volunteers	
DSC F	401 6	4		ACFA Volunteers	
DSC F	401 7	1	015	North slot being excavated	SW
DSC F	401 8	1	016, 049	Dawn drawing section	N
DSC F	401 9	1	016, 049	Dawn drawing section	N
DSC F	402 0	1	016, 049	Dawn drawing section	NW
DSC F	402 1	1	045	Excavation within broch	N
DSC F	402 3	1	045	Excavation within broch	N
DSC F	402 4	1	031, 058	Northern slot	E
DSC F	402 5	1	031, 058	Northern slot	E
DSC F	402 6	1	031, 058	Northern slot	E
DSC F	402 7	1		General view	
DSC F	402 8	1		General view	
DSC F	402 9	1		General view	
DSC F	403 0	1		General view	
DSC F	403 1	1		Dawn drawing section	
DSC F	403 2	1	025, 016	Southern slot	E
DSC F	403 3	1	022	SF 6127 Burnt bone	
DSC F	403 4	1	022	SF 6127 Burnt bone	
DSC F	403 5	1	023	SF 6132, stone bowl	
DSC F	403 6	1	023	SF 6132, stone bowl	
DSC F	403 7	1	023	SF 6132, stone bowl	
DSC F	403 8	1	023	SF 6132, stone bowl	
DSC F	403 9	1	023	SF 6132, stone bowl	

F	9				
DSC	404				
F	0	1	023	SF 6132, stone bowl	
DSC	404				
F	1	1	023	SF 6132, stone bowl	
DSC	404				
F	2	1	023	SF 6132, stone bowl	
DSC	404				
F	3	1	023	SF 6132, stone bowl	
DSC	404				
F	4	1	023	SF 6132, stone bowl	
DSC	404				
F	5	1	023	SF 6132, stone bowl	
DSC	404				
F	6	1	023	SF 6132, stone bowl	
DSC	404				
F	7	1	023	SF 6132, stone bowl	
DSC	404				
F	8	1	023	SF 6133, 6134, glass & shell	
DSC	404				
F	9	1	023	SF 6133, 6134, glass & shell	
DSC	405		023/04		
F	0	1	5	stone bowl removed	
DSC	405				
F	1	1		flat slab over stone bowl	
DSC	405				
F	2	1	031	General shot of northern slot	SE
DSC	405		046,		
F	3	1	031	Entrance to intra-mural cell	SE
DSC	405		046,		
F	4	1	031	Entrance to intra-mural cell	SE
DSC	405				
F	5	4	all	Trench across outer enclosure bank	NE
DSC	405				
F	6	4		Trench across outer enclosure bank	E
DSC	405				
F	7	4		Trench across outer enclosure bank	E
DSC	405				
F	8	4	041	Trench across outer enclosure bank,	E
DSC	405				
F	9	4	041	Trench across outer enclosure bank,	E
DSC	406				
F	0	4	041	Charcoal patch	
DSC	406				
F	1	1	043	Entrance midex	NE
DSC	406				
F	2	1	026	Debris within broch	W
DSC	406				
F	3	1	026	Debris within broch	S
DSC	406				
F	4	1	025	Debris within broch	E

DSC F	406 5	1	051, 047	Section through structure abutting bank	NE
DSC F	406 6	1	051, 047	Section through structure abutting bank	N
DSC F	406 7	1	051	Section through structure abutting bank	N
DSC F	406 8	1	051	Section through structure abutting bank	N
DSC F	406 9	1	051	Section through structure abutting bank	N
DSC F	407 0	1	047	Section through structure abutting bank	N
DSC F	407 1	1	016	047 removed	N
DSC F	407 2	1	047	Section through structure abutting bank	NW
DSC F	407 3	1	047	Section through structure abutting bank	W
DSC F	407 4	1	045	SF 6142, burnt bone	S
DSC F	407 5	1	045	SF 6143, Cu ally bracelet	S
DSC F	407 6	1	045	SFs 6144, 6145, 6146	E
DSC F	407 7	1	045	SFs 6144, 6145, 6146	E
DSC F	407 8	1	045	Several small finds	
DSC F	407 9	1		sunset	
DSC F	408 0	1		sunset	
DSC F	408 1	1	016	Face of broch wall	
DSC F	408 2			View to NW	SE
DSC F	408 3			View to SW	NE
DSC F	408 4			SF 6242, Large mammal bone in tray	
DSC F	408 5			SF 6242, Large mammal bone in tray	
DSC F	408 6			SF 6145, Cu alloy strip	
DSC F	408 7			SF 6145, Cu alloy strip	
DSC F	408 8			SF 6145, Cu alloy strip	
DSC F	408 9			SF 6145, Cu alloy strip	
DSC	409			SF 6145, Cu alloy strip	

F	0				
DSC	409				
F	1			SF 6148, metal pin	
DSC	409				
F	2			SF 6133, glass bangle fragment	
DSC	409				
F	3			SF 6133, glass bangle fragment	
DSC	409				
F	4			SF 6128, Cu alloy blade	
DSC	409				
F	5			SF 6128, Cu alloy blade	
DSC	409				
F	6			SF 6128, Cu alloy blade	
DSC	409				
F	7			SF 6128, Cu alloy blade	
DSC	409				
F	8			SF, 6136, shale bracelet frag	
DSC	409				
F	9			SF, 6136, shale bracelet frag	
DSC	410				
F	0			SF 6125, Roman vessel glass	
DSC	410				
F	1			SF 6143, Cu ally bracelet	
DSC	410				
F	2			SF 6143, Cu ally bracelet	
DSC	410				
F	3			SF 6143, Cu ally bracelet	
DSC	410				
F	4			SF 6114, ceramic lamp/crucible	
DSC	410				
F	5			SF 6114, ceramic lamp/crucible	
DSC	410				
F	6			SF 6114, ceramic lamp/crucible	
DSC	410				
F	7			SF 6119, Cu alloy pin	
DSC	410				
F	8			SF 6119, Cu alloy pin	
DSC	410				
F	9			SF 6119, Cu alloy pin	
DSC	411				
F	0			SF 6119, Cu alloy pin	
DSC	411				
F	1			SF 6119, Cu alloy pin	
DSC	411				
F	2			SF 6107, metal plate	
DSC	411				
F	3			SF 6107, metal plate	
DSC	411				
F	4			SF 6107, metal plate	
DSC	411				
F	5			SF 6104, thumbnail scraper	

DSC F	411 6			SF 6131, Cu frag	
DSC F	411 7			SF 6131, Cu frag	
DSC F	411 8	1	032, 052	Intra-mural cell in northern slot, rubble behind	E
DSC F	411 9	1	032, 052	Intra-mural cell in northern slot, rubble behind	E
DSC F	412 0	1	032, 052	Intra-mural cell in northern slot	N
DSC F	412 2	1	032, 052	Intra-mural cell in northern slot	W
DSC F	412 3	1	032	rubble infill of intra-mural cell	NE
DSC F	412 4	1	032	rubble infill of intra-mural cell	NE
DSC F	412 5	1	032	rubble infill of intra-mural cell	NE
DSC F	412 6	1	032	rubble infill of intvolunteers digging in northern slot	E
DSC F	412 7	1	032	rubble infill of intvolunteers digging in northern slot	E
DSC F	412 8	1	058	rubble within the broch	SE
DSC F	412 9	1	052	intra-mural cell	SE
DSC F	413 0	1	051	Trench across structure	E
DSC F	413 1	1	051	Trench across structure	N
DSC F	413 2	1	016	Broch wall beneath later structure	N
DSC F	413 4	1	038	Bank section	N
DSC F	413 5	1	038	section through northern slot	SW
DSC F	413 6	1	038	section through northern slot	S
DSC F	413 7	1	038	section through northern slot	W
DSC F	413 8	1	038	section through northern slot	E
DSC F	413 9	1	058	debris within broch	E
DSC F	414 0	1	058	debris within broch	E
DSC F	414 1	1	031	intra-mural cell wall	S
DSC F	414 2	1	058	debris within broch	S
DSC	414	1	058	debris within broch	N

F	3				
DSC	414				
F	4	1	058	debris within broch	N
DSC	414				
F	5	4		General view	
DSC	414				
F	6	4		ACFA Volunteers	
DSC	414				
F	7	4		Section, S end	E
DSC	414				
F	8	4		section	E
DSC	414				
F	9	4		section	E
DSC	415				
F	0	4		section	E
DSC	415				
F	1	4		section, N end	E
DSC	415				
F	2	4		section	N
IMG	027				
	3	5		General view, vegetation removed	
IMG	027				
	4	5		General view, vegetation removed	E
IMG	027				
	5	1		Jennifer drawing	E
IMG	027				
	6	1		Tessi & Leaf	
IMG	027				
	7	1	016	Detail of broch exterior wall face	W
IMG	027				
	8	1	016	Detail of broch exterior wall face	W
IMG	027				
	9	1	016	Detail of broch exterior wall face	W
IMG	028				
	0	1	016	Detail of broch exterior wall face	W
IMG	028				
	1	1	016	Detail of broch exterior wall face	W
IMG	028				
	2	1	016	Detail of broch exterior wall face	W
IMG	028				
	3	1	016	Detail of broch exterior wall face	W
IMG	028				
	4	1	016	Detail of broch exterior wall face	W
IMG	028				
	5	1	016	Detail of broch exterior wall face	W
IMG	028				
	6	1	016	Broch exterior wall face	NW
IMG	028				
	7	1	016	Broch wall thickness	NW
IMG	028				
	8	1	016	Broch wall thickness	NW

IMG	028 9	1		General view, north slot	SW
IMG	029 0	1		General view, north slot	SW
IMG	029 1	1		General view north slot	E
IMG	029 2	1		General view north slot	E
IMG	029 3	1	043	Debris within entrance	N
IMG	029 4	1	043	Debris within entrance	N
IMG	029 5	1	043	Debris within entrance	N
IMG	029 6	1	025	Face of broch interior wall	NE
IMG	029 7	1	025	Face of broch interior wall	NE
IMG	029 8	1	025	Face of broch interior wall	NE
IMG	029 9	1	043	Debris within entrance	N
IMG	030 0	1	025	Face of broch interior wall	NE
IMG	030 1	2	018	West facing section	W
IMG	030 2	2	018	West facing section	W
IMG	030 3	2	018	West facing section	W
IMG	030 4	1	043	Debris within entrance	N
IMG	030 5	1	025	Face of broch interior wall	NE
IMG	030 6	1	025	Face of broch interior wall	NE
IMG	030 7	1	025	Face of broch interior wall	N
IMG	030 8	1	013, 0024	Broch wall core	N
IMG	030 9	1	013, 0024	Broch wall core	N
IMG	031 0	1	013, 0024	Broch wall core	N
IMG	031 1	1	016	Broch wall exterior	N
IMG	031 2	1	002, 009, 004, 020, 049,	Section through the bank	N

			005		
IMG	031 3	1	005, 020, 002	Section through the bank	N
IMG	031 4	1	049	Section through the bank	N
IMG	031 5	1	049	Section through the bank	S
IMG	031 6	1	049	Section through the bank	S
IMG	031 7	1	049, 020	Section through the bank	S
IMG	031 8	1	016	Broch wall	S
IMG	031 9	1	016	S facing section of the S slot	S
IMG	032 0	1	013, 024	S facing section of the S slot	S
IMG	032 1	1	013, 024	S facing section of the S slot	S
IMG	032 2	1	023	Interior of broch wall	S
IMG	032 3	1	026	Interior of broch	S
IMG	032 4	1	026	W facing section	W
IMG	032 5	1	003, 027, 044, 058	S facing section of N slot, E end	S
IMG	032 6	1	052	S facing section of N slot	S
IMG	032 7	1	053, 052, 059	S facing section of N slot	S
IMG	032 8	1	052, 053, 059	S facing section of N slot	S
IMG	032 9	1	059, 015	S facing section of N slot	S
IMG	033 0	1	003, 006, 015	S facing section of N slot	S
IMG	033 1	1	003, 006, 015	S facing section of N slot	S
IMG	033 2	1	038, 014	S facing section of N slot, W end	S
IMG	033 3	1	038, 014	S facing section of N slot	S

IMG	033 4	1	028, 015, 006	N facing section of N slot	N
IMG	033 5	1	016	Exterior face of broch wall	S
IMG	033 6	1	047	Slot through structure	SE
IMG	033 7	1	016	Line of broch wall	S
IMG	033 8	1	047	S facing section across structure	S
IMG	033 9	1	047	S facing section across structure	S
IMG	034 0	1	051	S facing section across structure	S
IMG	034 1	1	051	N facing section across structure	N
IMG	034 2	1	047	N facing section across structure	N
IMG	034 3	1	016, 020	N facing section across structure	N
IMG	034 4	2		Rock cut ditch	SW
IMG	034 5	2		Rock cut ditch	SW
IMG	034 6	2		Rock cut ditch	SW
IMG	034 7	2		Rock cut ditch, being backfilled	SW
IMG	034 8	2		Rock cut ditch, being backfilled	SW
IMG	034 9	2		Rock cut ditch, being backfilled	SW
IMG	035 0	2		Rock cut ditch, being backfilled	SW
IMG	035 1	2		Rock cut ditch, being backfilled	SW
IMG	035 2	2		Rock cut ditch, being backfilled	SW
IMG	035 3	2		Rock cut ditch, being backfilled	SW
IMG	035 4	1	058	N facing section of N slot	NE
IMG	035 5	1	058, 003, 027	N facing section of N slot	N
IMG	035 6	1	027, 054	N facing section of N slot	N
IMG	035 7	1	027, 054	N facing section of N slot	N
IMG	035	1	027,	N facing section of N slot	N

	8		054		
IMG	035 9	1	057	N facing section of N slot	N
IMG	036 0	1	057	N facing section of N slot	N
IMG	036 1	1	057, 052	N facing section of N slot	N
IMG	036 2	1	052, 059	N facing section of N slot	N
IMG	036 3	1	052, 059, 006, 015	N facing section of N slot	N
IMG	036 4	1		General view of trench before backfilling	E
IMG	036 5	1		General view of trench before backfilling	E
IMG	036 6	1		General view of trench before backfilling	E
IMG	036 7	1		General view of trench before backfilling	E
IMG	036 8	1		General view of trench before backfilling	E
IMG	036 9	1		General view of trench before backfilling	E
IMG	037 0	1		General view of trench before backfilling, N slot	NW
IMG	037 1	1		General view of trench before backfilling, N slot	NW
IMG	037 2	1		General view of trench before backfilling, N slot	N
IMG	037 3	1		General view of trench before backfilling, N slot	NW
IMG	037 4	1		General view of trench before backfilling, N slot	N
IMG	037 5	1		General view of trench before backfilling, N slot	N
IMG	037 6	1		General view of trench before backfilling, N slot	NW
IMG	037 7	1		North slot	E
IMG	037 8	1		North slot	E
IMG	037 9	1	031	North slot	E
IMG	038 0	1	002, 026, 045	South slot, debris fill of broch interior	S
IMG	038 1	2		Rock cut ditch backfilled	
IMG	038	1		North slot, N facing section	N

	2			
IMG	038 3	2		Rock cut ditch backfilled
IMG	038 4	1		Backfilling
IMG	038 5	1		Backfilling
IMG	038 6	1		Backfilling
IMG	038 7	1		Backfilling
IMG	038 8	1		Backfilling
IMG	038 9	1		Backfilling
IMG	039 0	1		Backfilling
IMG	039 1	1		Backfilling
IMG	039 2	1		Backfilling
IMG	039 3	1		Backfilling
IMG	039 4	1		Backfilling
IMG	039 5	1		Backfilling
IMG	039 6	1		Backfilling
IMG	039 7	1		Backfilling
IMG	039 8	1		Backfilling
IMG	039 9	1		Backfilling
IMG	040 0	1		Backfilling
IMG	040 1	1		Backfilling
IMG	040 2	1		Backfilling
IMG	040 3	1		Backfilling
IMG	040 4	1		Backfilling
IMG	040 5	1		Backfilling
IMG	040 6	1		Backfilling
IMG	040 7	1		Backfilling

IMG	040 8	1		Backfilling	
IMG	040 9	1		Backfilling	
IMG	041 0	1		Backfilling	
IMG	041 1	1		Backfilling	
IMG	041 2	1		Backfilling	
IMG	041 3	1		Backfilling	
IMG	041 4	1		Backfilling	
IMG	041 5	1		Backfilling	
IMG	041 6	1		Backfilling	
IMG	041 7	1		Backfilling	
IMG	041 8	1		Backfilling	
IMG	041 9	1		Backfilling	
IMG	042 0	1		Backfilling	
IMG	042 1	1		Backfilling	
IMG	042 2	1		Backfilling	
IMG	042 3	1		Backfilling	
IMG	042 4	1		Backfilling	
IMG	042 5	1		Backfilling	
IMG	042 6	1		Backfilling	
IMG	042 7	1		Backfilling	
IMG	042 8	1		Backfilling	
IMG	042 9	1		Backfilling	
IMG	043 0	4		E facing section	E
IMG	043 1	4		E facing section	E
IMG	043 2	4		E facing section	E
IMG	043 3	4		Trench	N

	3				
IMG	043 4	4		Trench	N
IMG	043 5	4		Trench	N
IMG	043 6	4		E facing section	E
IMG	043 7	4		E facing section	E
IMG	043 8	1	026, 045	Broch interior	S
IMG	043 9	1	026, 045	Broch interior	S
IMG	044 0	1	026, 045	Broch interior	W
IMG	044 1	1	026, 045	Broch interior	W
IMG	044 2	1	026, 045	Broch interior	W
IMG	044 3	1	026, 045, 023, 043	Broch interior	W
IMG	044 4	1	026, 045, 023, 043	Broch interior	N
IMG	044 5	1	026, 045, 023, 043	Broch interior	N
IMG	044 6	1	045	SF6159, mammal bone	
IMG	044 7	1	045	SF6159, mammal bone	
IMG	044 8	1	045	SF6159, mammal bone	
IMG	044 9	1	045	SF6159, mammal bone	
IMG	045 0	1	045	mammal bone in situ	
IMG	045 1	1	045	mammal bone in situ	
IMG	045 2	1	045	SF 6164	
IMG	045 3	1	045	SF 6165	
IMG	045 4	1	045	SF 6165	
IMG	000 1	4		E facing section	E

IMG	000 2	1		SF 6165 lead obj	
IMG	000 3	1	045	DF6167, blue melon bead in situ	W
IMG	000 4	1	045	DF6167, blue melon bead in situ	W
IMG	000 5	1	045	Jennifer excavating	
IMG	000 6	1		Heather & Jennifer in SE corner of S slot	
IMG	000 7	1		Heather & Jennifer in SE corner of S slot	
IMG	000 8	1		Heather & Jennifer in SE corner of S slot	
IMG	000 9	1		Heather & Jennifer in SE corner of S slot	
IMG	001 0	1		Heather & Jennifer in SE corner of S slot	
IMG	001 1	1		Heather & Jennifer in SE corner of S slot	
IMG	001 2	1		Heather & Jennifer in SE corner of S slot	
IMG	001 3	1		Heather & Jennifer in SE corner of S slot	
IMG	001 4	1		Heather & Jennifer in SE corner of S slot	
IMG	001 5	1		Heather & Jennifer in SE corner of S slot	
IMG	001 6	1		Heather & Jennifer in SE corner of S slot	
IMG	001 7	1		Heather & Jennifer in SE corner of S slot	
IMG	001 8	1		Heather & Jennifer in SE corner of S slot	
IMG	001 9	1		Heather & Jennifer in SE corner of S slot	
IMG	002 0	1		Heather & Jennifer in SE corner of S slot	
IMG	002 1	1		Heather & Jennifer in SE corner of S slot	
IMG	002 2	1		Heather & Jennifer in SE corner of S slot	
IMG	002 3	1		Heather & Jennifer in SE corner of S slot	
IMG	002 4	1		Heather & Jennifer in SE corner of S slot	
IMG	002 5	1		Heather & Jennifer in SE corner of S slot	
IMG	002 6	1		Heather & Jennifer in SE corner of S slot	
IMG	002 002	1		Heather & Jennifer in SE corner of S slot	

	7				
IMG	002 8	1		Heather & Jennifer in SE corner of S slot	
IMG	002 9	1		Heather & Jennifer in SE corner of S slot	
IMG	003 0	1		Heather & Jennifer in SE corner of S slot	
IMG	003 1	1		Heather in SE corner of S slot	
IMG	003 2	5		SF 6172 Shale bracelet	
IMG	003 3	5		SF 6172 Shale bracelet	
IMG	003 4	5		SF 6172 Shale bracelet	
IMG	003 5	1		SF 6174 Iron handle	
IMG	003 6	1		SF 6174 Iron handle	
IMG	003 7	1	045	Mammal bone	
IMG	003 8	1	045	shell & glass bangle frag	
IMG	003 9	1	045	shell & glass bangle frag	
IMG	004 0	1	045	glass bangle frag	
IMG	004 1	1	045	shell	
IMG	004 2	1	045	Mammal bone	
IMG	004 3	1	045	Mammal bone	
IMG	004 4	1	045	Mammal bone under slab	N
IMG	004 5	1	045	Mammal bone under slab	N
IMG	004 6	1	045	Mammal bone under slab	N
IMG	004 7	1	045	Mammal bone under slab	N
IMG	004 8	1	045	Mammal bone under slab	N
IMG	004 9	1	045	Mammal bone under slab	N
IMG	005 0	1	045	SF 6190 sickle	
IMG	005 1	1	045	SF 6190 sickle	
IMG	005 2	1	045, 043	SF 6197	

IMG	005 3	1	045	SF 6197	
IMG	005 4	1	045	SF 6197	
IMG	005 5	1	045	SF 6200 spindle whorl	
IMG	005 6	1	045	SF 6200 spindle whorl	
IMG	005 7	1	045	SF 6200 spindle whorl	
IMG	005 8	1	045, 026	S facing section of southern slot	S
IMG	005 9	1	045, 026	S facing section of southern slot	S
IMG	006 0	1	045, 026	S facing section of southern slot	S
IMG	006 1	1	045, 026	S facing section of southern slot	S
IMG	006 2	5		Tessa drawing section	
IMG	006 3	5		Tessa drawing section	
IMG	006 4	5		Tessa drawing section	
IMG	051 8	1	087, 089	Paved floor of the broch	E
IMG	051 9	1	087, 089	Paved floor of the broch	NE
IMG	052 0	1	087, 089	Paved floor of the broch	NE
IMG	052 1	1	087, 089	Paved floor of the broch	NE
IMG	052 2	1	087, 089	Paved floor of the broch	NE
IMG	052 3	1	087, 089	Paved floor of the broch and possible wall foundation	NE
IMG	052 4	1	087, 089	Paved floor of the broch and possible wall foundation	NE
IMG	052 5	1	087, 045, 026	Infilling of broch interior	SW
IMG	052 6	1		Tessa digging broch interior	NE
IMG	052 7	1		Tessa digging broch interior	NW
IMG	052 8	1		Tessa digging broch interior	NW
IMG	052 9	1		Tessa digging broch interior	NW
IMG	053 0	1		Tessa digging broch interior	NW

IMG	053 1	1		Tessa digging broch interior	NW
IMG	053 2	1		Heather placing modern finds on paving	
IMG	053 3	1		Heather placing modern finds on paving	
IMG	053 4	1		Heather placing modern finds on paving	
IMG	053 5	1		Modern finds on paving	
IMG	053 6	1		Modern finds on paving	
IMG	053 7	1	025	Curve of interior face	NW
IMG	053 8	1		Modern finds on paving	
IMG	053 9	1		Whole trench backfilled	
IMG	054 0	1		Bank backfilled	
IMG	054 1	1		Whole trench backfilled	
IMG	054 2	1		Whole trench backfilled	
IMG	054 3	1		Stones left on surface	
IMG	054 4	1		Stones left on surface	