



Forteviot Pictish
Cemetery Excavation
2010

Data Structure Report

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Summary

The 2010 excavations of the Forteviot Pictish cemetery explored two conjoined square barrows, some 0.5km south of the northern cemetery (NO01NE 169) and just outside the line of the prehistoric palisaded enclosure (NO01NE 28). Unlike the square barrows explored in the northern cemetery by SERF in 2007 these examples were almost half as small at around 5 metres square and, most notably, they did not have causeways at the corners of their ditches. Defined by a continuous ditch, the barrow to the west was not a true square. The eastern (slightly smaller and squarer) barrow appears to have been added at a later date. Although these barrows have yet to be dated, their form suggests they are early. Despite very poor preservation both central burials yielded traces of wooden coffins, possibly log burials. Both burials also produced remains of outer teeth enamel from the inhumation.

Introduction

As part of the Strathearn Environs and Royal Forteviot (SERF) project, an area about 700m to the south of the village of Forteviot, where aerial photographs had previously revealed cropmarks of a square barrow (NGR NO 0547 1684), was investigated. The excavation took place between August 2nd and 21st, 2010 and was undertaken by a small team of undergraduate students from the Universities of Glasgow and Aberdeen aided by local volunteers from the Perth and Kinross Historic Society, directed by Dr Ewan Campbell of the University of Glasgow. The weather was mostly dry throughout, with intermittent showers which helped to show soil distinctions on drying out. Before excavation, a small area near was surveyed by gradiometry, but did not clearly revealed the shape of the barrows. The site was scanned by local a metal detectorist Jim Crombie, who also monitored the spoil heap during excavation.

The site lies on a raised terrace which lies about three meters above the level of the fields containing the early prehistoric complex. Although this is a small elevation difference, it gives the site a commanding view of both the prehistoric complex, and extensive vistas westwards up the Earn valley as far as the prominent peaks of Ben Vorlich and Stuc A' Chroin (Frontispiece). The site lies just to the south of the large Neolithic palisaded enclosure which occupies most of the field, and was clearly sited to respect it, suggesting it was still visible in the Pictish period.

Aims

The cropmark of the square barrow was published by Alcock (1992, illus 10, no. 18) as part of the large array of cropmarks first identified by St Joseph (1978) (Figure 1). The 2010 site lies 500m south-south-west of the extensive barrow cemetery previously excavated in 2007 (Poller 2007) and 2009 (Campbell & Gondek 2009). Part of the aims of opening this area was to see if the square enclosure was indeed a Pictish barrow, and how its date related to the larger cemetery.

Methodology

The rectangular trench measured 18 x 10m, orientated south-west/north-east, and was placed to uncover the area of the square barrow and any possible surrounding graves. The topsoil was stripped by machine, the rest of the excavation was by hand covering the whole area of the trench. The excavation revealed two conjoined square barrows (SB3 and SB4), each with a central grave. The two graves were fully excavated by section. The smaller barrow ditches were fully excavated, and the larger excavated by section and longitudinal section, while the north-east quadrant was fully excavated. All archaeological features were sampled and recorded by section and plan. All fills were sieved with a 25mm mesh.

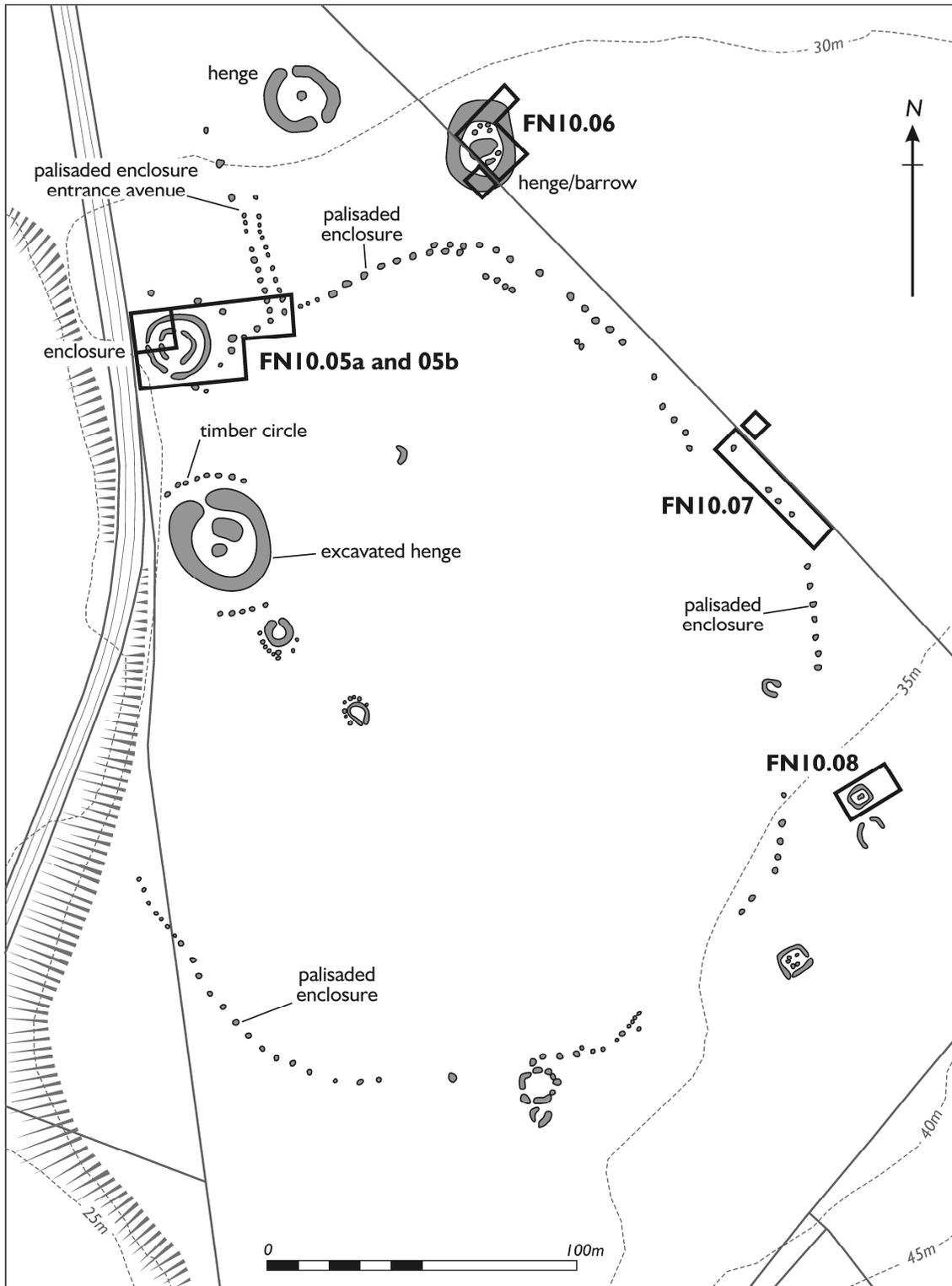


Figure 1: Transcription of cropmark complex ©RCAHMS and location of excavation trench

Results

Geology

The underlying geological deposits consisted of compact yellow gravels of fluvio-glacial origin as described previously (Campbell & Gondek 2009). The 2010 site differed from the 2009 site in that there were no sands, silts or clays, and the gravel was very coarse, consisting of rounded pebbles and cobbles up to 200 mm in size.

Post-Cemetery Agricultural History

A modern ploughsoil (8001) of uniform 0.35m depth covered the sands and gravels. There was almost no trace of the silts seen in other excavation areas below the modern ploughsoil. There was also no trace of rig and furrow cultivation, also seen in most of the other excavated areas. This may have been due to the severity of the modern deep ploughing, which had severely affected the area. The base of the grave in SB4 was only a couple of centimetres below recognisable plough furrows, one of which (8003) passed through the skull area, and it is likely that all trace of this feature will disappear in the next few years. The site lies just at the lip of a steep slope down from the small terrace, and this has accentuated the plough damage. Comparison with the field 70m to the south, which has remained uncultivated in recent times, suggest between 0.5 and 1.0m of topsoil have been lost, similar to the estimates elsewhere at Forteviot (Campbell & Gondek 2009, 5; Campbell 2008).

The site lies about 50m to the west of the post-medieval trackway, which ran down from the Dunning to Bridge of Earn medieval road towards Forteviot and the ford at the site of the present bridge over the River Earn, forming the western boundary of the field. The present southern field boundary post-dates the OS First edition map of 1866. Previous to that period the field ran up the bank of rough pasture (Dronachy) to the south as far as the modern road.

Square Barrow 3 (SB3)



Figure 2: Vertical photograph of the site from remote-controlled drone (FlyingScotsCam).

FN10.08 Post excavation plan

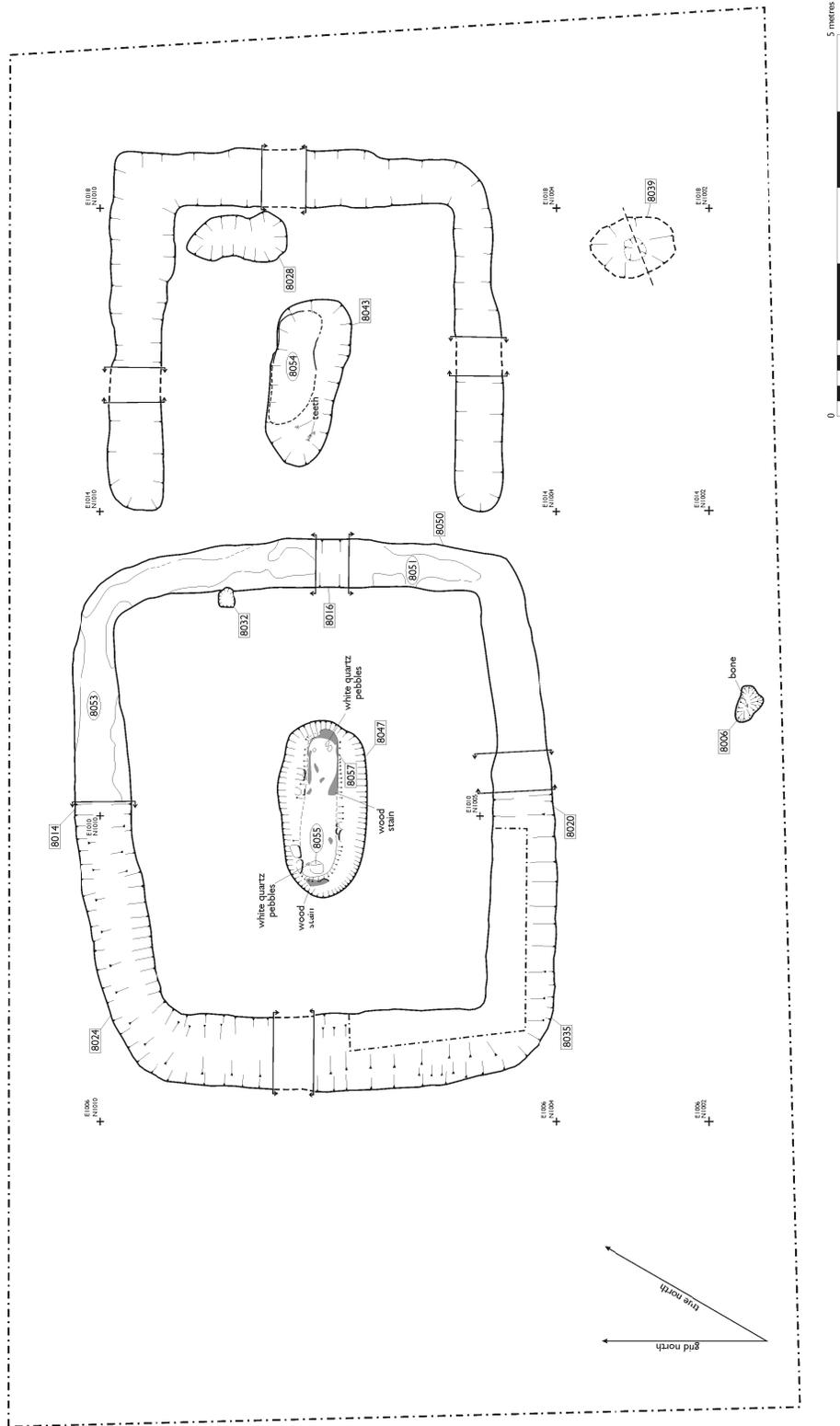


Figure 3: Plan of excavated features

SB3 was immediately obvious on removal of the topsoil, though its visibility varied according to the degree of drying out of the subsoil. The barrow was outlined by shallow ditches on all four sides, with no breaks at the corners (Figures 2, 3). The internal measurements were 5.60m E-W by 4.80m N-S, much smaller than the barrows excavated in 2007, but close to the norm for the whole corpus. The ditch was sectioned in the middle of each side (8010, 8014, 8016, 8020) and showed a U-shaped profile with a fairly flat bottom and steep sides, similar in all sections. The width varied from 0.5 to 1.0m and the maximum depth of surviving deposits was 0.3m. The overall shape was more irregular than other Pictish barrows, particularly on the northern side which was slightly bowed and was not at right angles to the western ditch. The internal angles were sharper than the external ones, which were slightly rounded.

There were traces of a thin brown silty deposit (8034) surviving within the confines of the ditch in parts of the NW quadrant. This was interpreted as the basal part of the pre-modern subsoil, as was recognised in other areas of the excavations in previous years. This thin deposit survived only within the hollow of the ditch. Beneath this deposit, the fill was difficult to differentiate on excavation, though an upper (8036) and lower (8037) was distinguished with the lower fill of clean loose gravel and the upper more silty, compact and dirtier. However, in section a band of silt (8060) could be seen when the section dried out. This layer was a maximum of 0.05m thick and occupied the inside side of the ditch, never reaching the exterior edge. This was interpreted as an initial washing in of material derived from a burial mound in the centre of the barrow. This was the only evidence for an original mound over the central grave. The presence of this silt showed that there was no palisade or fence within the ditch, and there was no sign of posts in the longitudinal sections, or in the plan excavations.



Figure 4: Photo of central burial in SB3 showing stone lining at West and coffin stain at East

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Profile of grave cut 8047

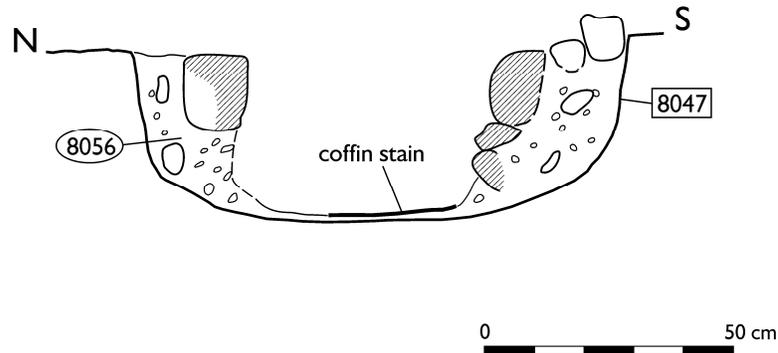


Figure 5: Profile of grave in SB3, showing coffin stain and stone lining

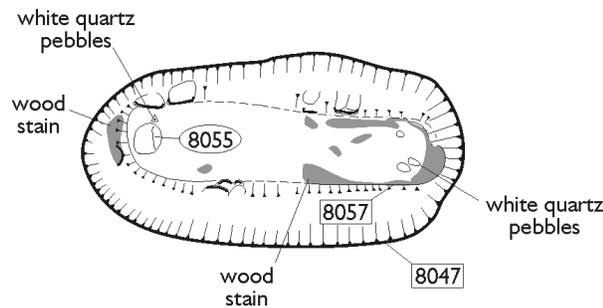


Figure 6: Plan of grave in SB3, showing skull impression, coffin stain and stone lining

The central grave was contained in a large grave pit with steep-sided U-shape (8047). This pit, which had been cut through particularly coarse and compact gravel to a depth of 0.40m measured 2.40 by 1.05m and was orientated SW-NE. The pit was filled with similar coarse gravel (8058) to the subsoil, though dirtier. Within this deposit was the outline of a coffin burial (8057) (Figures 4, 5). At the west end, the coffin was outlined by two lines of boulders and cobbles which initially appeared to be a built stone lining (Figure 6). However, subsequent excavation and the character of the lines showed that these had been packed against the coffin side rather than being a pre-built wall. To the east there was no sign of even this rough walling, but the coffin could be distinguished by the looser fill. The fill of the coffin was a loose gravel (8056). At the base there was a layer of finer pea gravel which seems to have levelled the bottom of the grave. At the west end there was a patch of very fine silty gravel (8055) of sub-circular shape with a line of smashed fragments of tooth enamel (SF 8014) (Figure 7). These deposits were interpreted as the remains of a skull, the fine silt having filled the brain cavity at one stage of the body decay. There were no recognisable teeth surviving and this was the only indication of a body in the grave. The base was sampled for phosphate analysis. Towards the east end of the grave a line of darkened soil at the south edge appeared to be decayed wood of the coffin side, and further

patches were found on the base and ends of the coffin cavity. The ends of the coffin appeared to be bowed. The maximum external length of the coffin was 2.05m and the width 0.50m, but the maximum length of the body was 1.80m. The bowed ends and substantial remains of decayed wood suggested that the coffin may have been a hollowed out log, as with Grave 12 in the 2009 excavations (Campbell & Gondek 2009, 13-15). The narrow width of the coffin might mitigate against this interpretation. Within the fill 8056 there two groups of four white quartz pebbles, one near the head and one near the foot of the grave. It was not clear whether these were deliberate inclusions or not – there were few white quartz pebbles in the surrounding gravels, but both groups were dispersed above the level of the coffin base.



Figure 7 West end of burial in SB3 showing skull impression and teeth enamel (arrowed)

No other features apart from a small pit or posthole (8032) were found within the area of the SB3. This shallow (0.1m) sub-circular feature about 0.2m in diameter, had some charcoal in its fill, and appeared to cut the western edge of the eastern ditch.

Square Barrow 4 (SB4)

To the east of SB3 lay another square barrow, outlined by three shallow ditches on its N, S and E sides, The W side was butted close to the E ditch of SB3 but with a gap of 0.5m. The ditches were badly truncated by ploughing. They were initially sectioned (8008, 8012, 8018) and showed U-shaped profiles. Later the entire fills removed in plan and sampled. The fill was uniform dirty brown gravel (8009, 8013, 8019, 1031, 1038) with none of the silt seen in the SB3 ditches. The width varied from 0.50 to 0.80m, and the depth to a maximum of 0.15m. The outer edges of the N and S ditches lined with the inner edges of the corresponding SB3 ditches, meaning that SB4 was smaller with internal dimensions of 3.80m N-S by 4.00m E-W. The ditches were at true right angles, making a more normal square barrow plan. The interior angles were very sharp.

It is difficult to see why the SB4 ditches were not continued up to the SB3 ditches, unless there was a small counterscarp bank on the exterior of the ditches. In any case, SB4 was clearly secondary to SB3, and deliberately aligned on it.

The central grave was defined by a shallow oval cut (8043) measuring a maximum of 2.20 by 1.00m, and a maximum depth of 0.20m. The alignment was at an angle to E-W ditches, running nearer to E-W than SW-NE. The upper fill (8044) was a brownish silty gravel. Beneath this was a silty layer (8054) which covered part of the base of the grave cut and was interpreted as a coffin fill. At the western end there were the remains of several teeth, represented by the enamel. A few of these were unbroken and appeared to be molars of a juvenile. The head end of the grave had been cut by a plough furrow (8003) which cut to within a few centimetres of the teeth and may have disturbed them. The extent of 8054 did not respect the alignment of the grave cut, but was aligned with the ditches, suggesting that the body was laid out directly in line with the burial in SB3.

The only other feature within SB4 was an irregular linear feature in the NE corner of the barrow (8028) filled with a sterile yellowish silt. This seemed likely to be a tree root hole or animal burrow.

Other Features

Apart from a possible tree throw or animal burrow complex in the south part of the trench (8022), there were only two features in the area outside the barrows. The larger, (8039), was an oval depression 1.50 by 0.75m, filled with charcoal rich dark soil (8040), including some charred grain, with irregular patches of burnt orange soil, to a maximum depth of 0.15m. The fill included some pieces of fire-cracked pebbles and vitrified fuel ash slag. The burning did not appear to be in situ, and the pit did not penetrate the natural gravel for more than a few centimetres.

The smaller feature (8006) was an irregular patch about 0.50m in diameter and 0.1m deep, filled with a dark silt (8007) containing charcoal flecks and one piece of rib-bone.

Discussion

Square barrows

A positive result of the excavations was the confirmation of the presence of two square barrows on the site, both with central graves. These complement the two square barrows excavated in 2007, and the round barrow from 2009. Both barrows are rather different from the 2007 ones however: they are almost half as small; there are no associated unenclosed graves; they are not aligned E-W; they do not have interrupted corners; and SB3 has an irregular shape. In both cases though, the eastern barrow seems to have been added to the western one.

SB3 is the earlier of the two barrows, and seems to have more care taken with its construction. The ditches and central grave are both dug deeply into the natural gravel, which is compact and difficult to excavate, and care had been taken to pack stones along the wooden coffin sides. There is no certainty that a barrow mound covered the centre of the enclosure, but the silting of layer 8060 does suggest this. It is possible to estimate that this putative mound could not have been more than one metre high, due to the short distance between the grave and the ditch. The burial may have been marked with a wooden or stone

grave marker, as the burial in SB4 seemed to be aligned on the one in SB3, but there is no other evidence for this. The relationship with SB3 suggests a possible counterscarp bank outside the ditch. There are not many parallels for the irregular shape of SB3 – most Pictish square barrows are regular squares. There is one excavated square barrow with uninterrupted corners at Boysack Mills 1, Angus (Murray & Ralston 1997, illus 4). This barrow may be a good parallel as it is also not a true square, has a carefully protected coffin burial, and is a similar size to SB3. Although there was no scientific dating, the association with a projecting ring pin should indicate a date in the first few centuries AD. SB3 may be of an equally early date, though scientific dates may clarify this. The decayed wood remains show that the individual interred was buried in a wooden coffin, though it is not clear if this was plank-built or a hollowed-out log (as with Grave 12 from 2009). No nails or coffin fittings were found, but these would probably not have survived in the corrosive soil conditions. The coffin was narrow, at 0.50m, but of similar dimensions to that from Boysack Mills which was thought to have been plank-built (Murray & Ralston 1997, illus 7). The log coffin found in Grave 12 in 2009 was about 0.60m in width, so it is possible that the burial in SB3 was also in a similar coffin. The silty patch (8055) which was believed to represent the skull can be compared to similar features in the unenclosed graves excavated in 2007 (Poller 2007, 13).

SB4 is clearly secondary as it respects SB3 and is aligned on it, but the form is different in that the square has been laid out regularly with true right angles. This might suggest it belongs to a substantially later phase of burial activity, or alternatively, that there was a family relationship between the individuals buried in the two barrows. Both burials appeared to have been extended inhumations in wooden coffins. As only the basal fill of the ditches survived ploughing, there was no indication if there had been a central mound, as was suggested for SBs 1-3.

One notable feature of the site is the lack of dug graves within the area excavated, which distinguishes this area from the 2007 and 2009 parts of the Pictish cemetery. The aerial photographs also do not show any certain graves on this terrace, suggesting that the barrows were isolated burial monuments. This could be due to chronological factors, but might also indicate that these burials were unusual in some respect. Transcriptions of the aerial photographs do show a hybrid round/square structure on the same terrace about 50m to the SW, a sub-circular structure about 5m S, and another possible square barrow about 25m N of the site, all located just outside the palisaded enclosure. This complex of different forms of enclosure, without accompanying enclosed graves, is similar to the situation at Boysack Mills, and might suggest that these monuments pre-date those found in 2007 and 2009 and belong to the middle iron age.

Other features

The two scoops with charcoal rich material, 8006 and 8039, could be of any date as similar features in other trenches have produced dates from the Bronze Age to Pictish period.

Finds

There were almost no artefacts from the site. Even modern mass-produced pottery in the ploughsoil was rare, and metal detecting found no iron or other metals. Unlike other trenches, there was also a lack of struck lithics, and raw materials – no flint, chert or quartz was found even as waste. It seems that the site was removed from most activities which

would produce such material, the site lying outside the large palisaded enclosure, and far from the medieval to modern village.

Conclusions

The main research questions set before excavation have been answered. There is a barrow cemetery in this part of the complex, but the character of the monuments differs from those in the northern cemetery. Only scientific dates will allow the chronological relationships to be clarified, but a preliminary conclusion is that the 2010 monuments are earlier in date than those to the north.

Acknowledgements

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Appendices

i) Contexts

Contex No.	Type	Short description	Interpretation	Relationships
8001	Deposit	Topsoil	Topsoil	Overlies everything.
8002	Fill	plough marks	Fill of ploughmarks of N-S orientation crossing the site in multiple places.	underlies 8001, contained by cut 8003
8003	Cut	Ploughmarks	Modern agricultural plough marks.	contain 8002
8004	Structure	Western Square Barrow		
8005	Structure	Eastern of the two square barrows	Smaller, eastern square barrow.	
8006	Cut	Pit, modern animal burial	Probable modern animal burial	contains 8007
8007	Fill	Pit, modern animal burial	Probable modern animal burial.	Overlies cut 8006. Underlies 8001.
8008	Cut	Central section of eastern ditch of barrow 8005	Central section of E ditch of barrow 8005.	contains 8009
8009	Fill	Central section of eastern ditch of barrow 8005	Fill of Eastern ditch of barrow 8005 in central section	contained by 8008
8010	Cut	Central section of W ditch of barrow 8004	Central section of W ditch of barrow 8004.	contains 8011 and 8034
8011	Fill	Central section of W ditch of barrow 8004.	Central section of W ditch of barrow 8004.	contained by 8010, underlies 8034
8012	Cut	Central section of N ditch of barrow 8005.	Central section of N ditch of barrow 8005.	contains 8013
8013	Fill	Central section of N ditch of barrow 8005.	Central section of N ditch of barrow 8005.	contained by 8012
8014	Cut	Central section of N ditch of barrow 8004.	Central section of N ditch of barrow 8004.	contains 8015
8015	Fill	Central section of N ditch of barrow 8004.	Central section of N ditch of barrow 8004.	overlies 8014, underlies 8001
8016	Cut	Central section of E ditch of barrow 8004.	Central section of W ditch of barrow 8004.	contains fill 8017
8017	Fill	central section of E ditch fill of 8004	Central section of W ditch of barrow 8004. Fill of ditch.	contained by 8016, underlies 8001
8018	Cut	Southern central section ditch cut of 8005	Central section of S ditch of barrow 8005.	Part of barrow 8005. Contains fill 8019
8019	Fill	central section of E ditch fill of 8005	Central section of S ditch of barrow 8005. Fill of ditch.	Contained by 8018. underlies 8001.
8020	Cut	central section of S ditch cut of 8004	Central section of S ditch of barrow 8004. Cut of ditch.	contains 8021
8021	Fill	central section of S ditch fill of 8004	Central section of S ditch of barrow 8004. Fill of ditch	contained by 8020, underlies 8001
8022	Cut	Probable animal burrows	Probable animal burrows	contains 8023

8023	Fill	Probable animal burrows	Probable animal burrows	Contained by cut 8022. underlies 8001
8024	Cut	Cut of NW section, corner of ditch of barrow 8004	NW corner section of ditch of barrow 8004.	contains ditch fills 8049 and 8034
8025	Cut	NW section of eastern barrow 8005	W section of N ditch of barrow 8005. Cut of barrow ditch.	contains 8026
8026	Fill	NW section of eastern barrow 8005	W section of N ditch of barrow 8005. Fill of barrow ditch.	contained by 8025, underlies 8027
8027	Fill	Silty patch overlying 8026	Silty inclusion overlying 8026 possibly caused by variable silting in the barrow ditch.	overlies 8026, underlies 8001
8028	Cut	Irregular linear feature	Linear feature that appears to be natural in the interior of barrow 8005.	Contains 8029
8029	Fill	Irregular linear feature	linear feature that appears to be natural	contained by cut 8028, underlies 8001
8030	Cut	SW section of ditch cut of 8005	Cut of barrow ditch on southern side of barrow 8005, to the West of the central section.	Contains fill 8038 and upper fill 8031. Cut by ploughmark 8003
8031	Fill	Silty patch overlying 8038	Silty patch overlying 8038 in cut 8030, W section of S ditch of barrow 8005	overlying 8038, underlying 8001
8031	Fill	Patch in fill of SW section ditch fill of 8005	Central	
8032	Cut	possible post hole	Possible post hole	overlain by 8033, cuts through 8016 and 8017
8033	Fill	possible post hole	Possible post hole	overlies cut 8032, underlies 8001
8034	Deposit	thin silt layer in ditch of barrow 8004	Natural silt deposit in cuts 8014, 8010 and 8024, NW corner of ditch of barrow 8004	Overlies 8011 8015 and 8049. Underlies 8001
8035	Cut	Cut of SW corner section ditch of barrow 8004	ditch of 8004: SW corner. No signs of post holes etc.	Contains 8037 and 8036
8036	Fill	upper fill of SW corner section ditch of barrow 8004	Upper fill of ditch cut 8035, SW corner of barrow 8004.	overlies 8037, contained by 8035, underlies 8001
8037	Fill	lower fill of SW corner section ditch of barrow 8004	Lower fill of ditch cut 8035, SW corner of barrow 8004.	contained by cut 8035, underlies fill 8036
8038	Fill	SW section ditch fill of 8005	Fill of ditch cut 8030, W section of S ditch of barrow 8005.	Contained by 8030, underlies 8031, cut by 8003
8039	Cut	Charcoal rich pit cut	pit dug for deposition of burnt materials including charcoal, charred grain, burnt soil and vitrified fuel ash slag.	Contains 8040

8040	Fill	Charcoal rich pit fill.	Burnt materials including seeds suggests part of functional domestic activity. Plan shape and colour suggested initially it was a grave fill at N-S alignment, excavation revealed it's more mundane character. Material was not burnt in situ but deposited after burial	Contained by cut 8039, underlies 8001
8041	Cut	NE corner section of ditch of barrow 8005.	NE corner section of ditch cut of barrow 8005.	Contains 8042
8042	Fill	NE corner section of ditch of barrow 8005.	NE corner section of ditch of barrow 8005, fill of	contained by cut 8041, underlies 8001
8043	Cut	Central grave of barrow 8005.	Grave cut in interior of square barrow 8005, Central grave of later square barrow defined by three ditches, sharing the E ditch of barrow 8004. Size and contents suggest burial of a small stature person also indicated by tooth which suggests juvenile.	Contains 8044 and 8054, Within 8005. Cut by 8003.
8044	Fill	Central grave fill of barrow 8005.	Upper fill of grave of square barrow 8005 containing head to the west.	Cut through by 8003, underlies 8001, overlies 8054, contained by 8043
8045	Cut	Southeast corner ditch of east barrow 8005	SE corner section of ditch cut of barrow 8005.	Contains 8046
8046	Fill	Southeast corner ditch of east barrow 8005	Fill of SE corner section of ditch of barrow 8005	contained by cut 8045, underlies 8001
8047	Cut	Grave pit cut in barrow 8004	Grave cut of grave in barrow 8004. Cut longer than coffin, central to barrow.	Filled with 8058, gravel and stones
8048	Fill	Grave pit fill in barrow 8004.	This context is the upper fill of the grave and grave pit in barrow 8004. This fill is a combination of material from the back fill of the grave and other material that has slumped into the grave as the coffin decayed.	Filling the top of 8057
8049	Fill	Fill of section of NW corner of ditch of barrow 8004	Ditch fill of NW corner section of barrow 8004 ditch.	Contained by 8024, underlies 8034
8050	Cut	Cut of section of SE corner of ditch of barrow 8004	Cut of SE corner of ditch of barrow 8004.	Contains at least 8051
8051	Fill	Fill of section of SE corner of ditch of barrow 8004	SE corner of ditch of barrow 8004, fill visible on top.	contained by cut 8050, underlies 8001
8052	Cut	Cut of section of NE corner of ditch of barrow 8004	NE corner of ditch of barrow 8004.	contains at least 8053

8053	Fill	Fill of section of NE corner of ditch of barrow 8004	NE corner of ditch of barrow 8004, top fill.	contained by cut 8052, underlies 8001
8054	Fill	Lower fill of grave cut 8043 in barrow 8005	Lower level of grave fill for central grave 8043 in smaller square barrow 8005. Larger rocks and sandstone slabs placed along bottom not substantial enough to suggest stone lined but gives the grave definition. Distinct from upper fill 8044. Discovery of	Contained by 8043, underlies 8044, within barrow 8005
8055	Fill	Soil shadow of skull and enamel of teeth.	It is believed that this circular mark of soil was created when medium fine silty sand filtered into the skull cavity. When the skull then rotted in the acidic soil it left this soil mark behind. This interpretation is supported by the inclusion of a line	
8056	Fill	Fill of grave.	This context is the fill of the grave in barrow 8004. This fill is made up of material that would have filled the space once taken up by the coffin and body as these both decayed.	
8056	Fill	Grave fill of barrow 8004.	This context is the fill of the grave in barrow 8004. This fill is made up of material that would have filled the space once taken up by the coffin and body as these decayed.	
8057	Fill	Cut of grave	The cut was created when back fill material filled in spaces between the packing stones (that would have surrounded the west end of the coffin) as the coffin decayed.	
8058	Fill	Backfill of grave after placement of coffin	Backfill of grave after placement of coffin, forms sides of grave- stones packed like a wall in places.	cut by grave
8059	Fill	Fill of grave cut 8057	This is the grave fill East of the section line. Coffin stain. End suggests log coffin	
8060	Fill	Silt in ditch of barrow	Initial silting of ditch from mound within barrow ditches	within 8036
8060	Fill	Silt layer in barrow ditch		

ii) Small Finds

Find Number	Context	Area	Material	Description	No. of Pieces	Easting	Northing	Height
8001		F	Grain		1	1009.91	1009.94	999.09
8002		C	Bone		1	1011.12	1001.62	999.49
8003		H	Charcoal		4	1016.29	1005.14	999.35
8005	8032	g	Charcoal	charcoal	1			
8006	8031		Charcoal	charcoal	1			
8007	8040	d h	Stone	Smooth firecracked rounded stone	1			
8008	8044	h	Tooth	Human remains. Tooth enamel	1			
8008	8044	d	Charcoal	charcoal	1			
8009	8044	h	Tooth	Human remains				
8010	8044	h	Tooth	Human remains				
8011	8044	h	Tooth	Human remains				
8012	8044	h	Tooth	Human remains				
8013	8044	h	Tooth	Human remains				
8014	8055	GF	Tooth	Human tooth enamel		1009.4	1007.2	999.05
8015	8056	gf	Stone	White qz pebbles head of grave	4			
8016	8056	gf	Stone	White qz pebbles, foot of grave	4			

iii) Drawings

Drawing No	Area	Subject	Description	Scale	Type	Drawn By
8001	all		Pre- ex plan of entire trench	1:100	Plan	ENC
8002	H	8013, 8012	E-facing section of northern ditch of barrow 8005	1:10	Section	KGR
8003	C	8006, 8007	SE- facing section of pit	1:10	Section	FMC
8004	H	8008, 8009	S-facing section of eastern ditch of barrow 8005	1:10	Section	LPR
8005	F	8010, 8011	S-facing section of western ditch of barrow 8004	1: 10	Section	AWI
8006	G	8016, 8017	N-facing section of eastern ditch of barrow 8004	1:10	Section	PGL
8007	B,C	8021, 8020	E-facing section of southern ditch of barrow 8004	1:10	Section	KGR
8008	D,H	8018, 8019	E-facing section of southern ditch of barrow 8005	1:10	Section	LPR
8009	F,G,J,K	8014, 8015	W-facing section of northern ditch of barrow 8004	1:10	Section	FWA
8010	C	8006	Post-Ex plan of pit 8006	1:20	Plan	FMC
8011	G,H	8025, 8026	Part Excavation plan of 8025 and 8026	1:20	Plan	KGR
8012	D/ H	8030, 8031	Part Excavation Plan of 8030 and 8031	1:20	Plan	PGL
8013	H	8028, 8029	Post excavation plan of 8028 and 8029	1:20	Plan	AWI

8014	G	8032, 8033	West facing section of small pit 8032 and fill 8033	1:10	Section	FMC
8015	F,G,J,K	8004	Part excavation plan of NW corner of Barrow 8004 with top silt	1:20	Plan	NBA
8016	H	8030, 8038	Part ex plan of southern ditch of barrow 8005.	1:20	Plan	PGL
8017	B	8035, 8020, 8012, 8036, 8037	S facing longitudinal section of southern ditch of barrow 8004.	1:10	Section	ENC
8018	D	8039, 8040	Section of pit containing burnt material.	1:10	Section	LPR
8019	G		East ditch of square barrow 8004	1:20	Plan	ENC
8020	H	8042, 8044	Part excavation plan of east square barrow grave	1:20	Plan	PGL
8022	FJ KG	8024, 8014, 8034, 8010, 8035	Post ex plan of NW area of barrow 8004	1:20	Plan	NBA
8023	BFCG	8035, 8026, 8020	Post ex plan of SW area of barrow 8004	1:20	Plan	NBA
8024	D	8039	Post ex plan of burnt pit feature	1:20	Plan	NBA
8025	H	8043	Part ex plan of grave cut 8043 in barrow 8005	1:20	Plan	LPR
8026	CG	8050, 8051	Pre ex plan of barrow 8004	1:20	Plan	NBA
8027	H	8043	Section of grave-cut in 8005	1:10	Section	LPR
8028	FG	8057	Profile of grave in 8004	1:10	Section	ENC
8029	L	8043	Post-ex of grave	1:20	Plan	ENC
8030	L	8043	Phosphate samples locations	1:20	Plan	ENC
8031	FG	8047	Section of Grave in SB1	1:10	Section	ENC
8032	FG	8047	Composite of coffin in SB1	1:20	Plan	ENC
8033	F	8010	Section of barrow ditch showing silting up	1:10	Section	ENC
8034	all		Profile of site W-E	1:100	Profile	ENC

iv) Samples

Sample Number	Context	Area	BagSizeNo	Vol (L)	%	Reason	Taken By	Date
8001	676	C	M			Botanics and Carbonised Material for ID and C14	FMC	04/08/2010
8002	8040	D	M			Botanics and Carbonised Material for ID and C14	LPR	07/08/2010
8003	8044	H	L	10		Grave fill with tooth enamel inclusions; Human remains	PGL	08/08/2010
8004	8044	M	M	6	60	Botanics and Carbonised Material for ID and C14	LPR	10/08/2010
8005	8040	D	L	5	50	Botanics and Carbonised Material for ID and C14	ENC	10/08/2010
8007	731	G F	M			Human Remains and Carbonised Material	FWA	11/08/2010
8008	8043	H	S			Phosphates for Body Stain	ENC	12/08/2010

8009		L	S		20	Botanics and Carbonised Material for ID and C14	ENC	12/08/2010
8010	1160		s		10	Decayed wood of coffin; Botanics and Carbonised Material for ID and C14	ENC	12/08/2010
8011	1160					Phosphates for Body Stain	ENC	16/08/2010
8012	1160		l	5	all	Small finds and Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8013	1160		s		10	Decayed wood; Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8014	1162		L	5	20	Small finds and Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8015	8037		L	5	5	Botanics and Carbonised Material for ID and C14	ENC	16/08/2010

v) Digital Photos

Film	Frame	Area	Context	Description	Direction	Taken By	Date
001	1		8004	General shot	South	ENC	03/08/2010
001	2		8004	General shot	South	ENC	03/08/2010
001	3		8005	General shot	South	ENC	03/08/2010
001	4		8005	General shot	Southwest	ENC	03/08/2010
001	5		8004	General shot	South	ENC	03/08/2010
001	6		8004	General shot	South	ENC	03/08/2010
001	7	ALL		General shot	Southwest	ENC	04/08/2010
001	8	ALL		General shot	South	ENC	04/08/2010
001	9	D	8039	General shot	South	ENC	04/08/2010
001	10	D	8039	General shot	East	ENC	04/08/2010
001	11	H	8013	Northern Ditch of 8005. East facing section through 8013 and 8012.	East	KGR	04/08/2010
001	12	H	8013	Northern Ditch of 8005. East facing section through 8013 and 8012.	East	KGR	04/08/2010
001	13	C	8006	South East facing section of pit 8006.	Southeast	FMC	04/08/2010
001	14	C	8006	South East facing section of pit 8006.	Southeast	FMC	04/08/2010
001	15	FGJK	8015	West facing section of cut 8014, context 8015. Northern ditch of 8004.	East	FWA	04/08/2010
001	16	FGJK	8015	West facing section of cut 8014, context 8015. Northern ditch of 8004.	East	FWA	04/08/2010
001	17	H	8008	North Facing section of 8008 and 8009 Eastern ditch of 8005	South	LPR	04/08/2010

001	18	H	8008	North Facing section of 8008 and 8009 Eastern ditch of 8005	South	LPR	04/08/2010
001	19	F	8010	South facing section of cut 8010 and context 8011 western ditch of 8004.	South	ADW	04/08/2010
001	20	F	8010	South facing section of cut 8010 and context 8011 western ditch of 8004.	South	ADW	04/08/2010
001	21	G	8016	North Facing section of cut 8016 and context 8017.	North	PGL	04/08/2010
001	22	G	8016	North Facing section of cut 8016 and context 8017.	North	PGL	04/08/2010
001	23	D	8039	General shot	South	NBA	04/08/2010
001	24	D	8039	General shot	South	NBA	04/08/2010
001	25	C, D, G, H	8005	General shot	South	NBA	04/08/2010
001	26	C, D, G, H	8005	General shot	South	NBA	04/08/2010
001	27	B, C, F, G, J, K	8004	General shot	Southeast	NBA	04/08/2010
001	28	B, C, F, G, J, K	8004	General shot	Southeast	NBA	04/08/2010
001	29	ALL		General shot	South	NBA	04/08/2010
001	30	ALL		General shot	Southwest	NBA	04/08/2010
002	1	all		general site shot	Southwest	NBA	05/08/2010
002	2		8005	barrow SB2	East	NBA	05/08/2010
002	3		8005	barrow SB2	East	NBA	05/08/2010
002	4	bc	8021	barrow ditch section	East	PGL	05/08/2010
002	5	bc	8021	barrow ditch section	East	PGL	05/08/2010
002	6		8015	north ditch section of barrow 8004	East	FWA	05/08/2010
002	7		8015	north ditch section of barrow 8004	East	FWA	05/08/2010
002	8	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	9	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	10	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	11	h	8028	section of linear feature	East	AWI	06/08/2010
002	12	h	8028	section of linear feature	East	AWI	06/08/2010
002	13	gh	8025	Post-ex	South	PGL	06/08/2010
002	14	gh	8025	post-ex	South	PGL	06/08/2010
002	15	b	8035	longitudinal section SB1 south ditch	South	ENC	07/08/2010
002	16	h	8030	section south ditch SB1	South	PGL	07/08/2010
002	17			drying of ditch SB1 showing ?palisade	North	ENC	07/08/2010
002	18	all		general shots, drying out	West	ENC	08/08/2010
002	19	all		general shots, drying out	East	ENC	08/08/2010
002	20	all		general shots, drying out	North	ENC	08/08/2010
002	21	all		general shots, drying out	North	ENC	08/08/2010

002	22	all		general shots, drying out	South	ENC	08/08/2010
002	23	all		general shots, drying out	South	ENC	08/08/2010
002	24	g		drying of ditch SB1 showing ?palisade	South	ENC	08/08/2010
002	25		8043	post-ex of SB2 grave	West	PGL	08/08/2010
002	26		8043	teeth in grave SB2	East	NBA	08/08/2010
002	27		8043	teeth in grave SB2	East	NBA	08/08/2010
002	28		8047	SB1 grave	South	NBA	08/08/2010
002	29		8047	sb1 grave	South	NBA	08/08/2010
002	30		8043	record shot of teeth	South	ENC	08/08/2010
003	1	all		Site Hut	North	ENC	08/08/2010
003	2	D	8040	section of pit with burnt material	North	LPR	08/08/2010
003	3	D	8040	section of pit with burnt material	North	LPR	08/08/2010
003	4	F	8047	stone lining of grave	East	ENC	08/08/2010
003	5	F	8047	stone lining of grave	South	ENC	08/08/2010
003	6	F	8047	stone lining of grave	North	ENC	08/08/2010
003	7	F	8047	Fi digging grave	East	ENC	08/08/2010
003	8	F	8047	Fi digging grave	East	ENC	08/08/2010
003	9	F	8047	grave lining, working shot	East	ENC	11/08/2010
003	10	F	8047	grave lining, working shot	South	ENC	11/08/2010
003	11	f	8047	grave lining, working shot	North	ENC	11/08/2010
003	12	f	8047	grave lining, working shot	West	ENC	11/08/2010
003	13	H	8043	section of grave SB2	West	LPR	11/08/2010
003	14	FG	8047	section of grave in SB1	West	FWA	11/08/2010
003	15	FG	8047	section of grave in SB1	West	FWA	11/08/2010
003	16	FG	8047	teeth 8055	East	ENC	11/08/2010
003	17	FG	8055	teeth 8055	East	ENC	11/08/2010
003	18	FG	8055	teeth 8055	East	ENC	11/08/2010
003	19	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	20	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	21	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	22	FG	8047	Grave packing structure	North	ENC	11/08/2010
003	23	FG	8047	Grave packing structure	South	ENC	11/08/2010
003	24	H	8043	section	West	ENC	11/08/2010
003	25	L	8054	Post=ex of grave SB2	East	ENC	12/08/2010
003	26		8054	Post=ex of grave SB2	South	ENC	12/08/2010
003	27		8054	Post=ex of grave SB2	West	ENC	12/08/2010
003	28		8054	Post=ex of grave SB2		ENC	12/08/2010
003	29		8054	Post=ex of grave SB2		ENC	12/08/2010
003	30		8054	Post=ex of grave SB2		ENC	12/08/2010
004	1	L	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	2	F	8054	Grave SB2, Post-ex.	South	ENC	12/08/2010
004	3	F	8054	Grave SB2, Post-ex.	West	ENC	12/08/2010
004	4	F	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	5	F	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	6	F	8054	Grave SB2, Post-ex.	West	ENC	12/08/2010
004	7	F	8054	Grave SB2, Post-ex.	North	ENC	12/08/2010
004	8	F	8047	section of grave-cut SB1	West	ENC	12/08/2010

004	9		8047	section of grave-cut SB1	West	ENC	12/08/2010
004	10		8047	section of grave-cut SB1	West	ENC	12/08/2010
004	11		8056	Coffin stain, line on S. edge, close-up	South	ENC	12/08/2010
004	12		8056	Coffin stain, line on S. edge	South	ENC	12/08/2010
004	13		8056	Coffin stain, line on S. edge	South	ENC	12/08/2010
004	14		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	15		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	16		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	17		8056	Coffin stain, line on S. edge	East	ENC	12/08/2010
004	18	all		Grave in SB1	West	ENC	12/08/2010
004	19			Grave in SB1	South	ENC	12/08/2010
004	20	FG	8047	Grave	West	ENC	12/08/2010
004	21	FG	8047	Grave	West	ENC	12/08/2010
004	22		8047	Grave	West	ENC	12/08/2010
004	23		8047	Grave	South	ENC	12/08/2010
004	24		8047	Stone packing at w. end of grave	South	ENC	12/08/2010
004	25		8047	Stone packing at w. end of grave	North	ENC	12/08/2010
004	26	all		View to Ben Vorlich with barrows	East	ENC	12/08/2010
004	27	all		View to Ben Vorlich with barrows and prehistoric complex	Southeast	VBA	12/08/2010
005	1	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	2	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	3	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	4	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	5	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	6	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	7	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	8			FlyingScotsCam		ENC	13/08/2010
005	9			FlyingScotsCam		ENC	13/08/2010
005	10			FlyingScotsCam		ENC	13/08/2010
005	11			FlyingScotsCam		ENC	13/08/2010
005	12			FlyingScotsCam		ENC	13/08/2010
005	13			FlyingScotsCam		ENC	13/08/2010
005	14			FlyingScotsCam		ENC	13/08/2010
005	15			FlyingScotsCam - octocopter		ENC	13/08/2010

005	16			FlyingScotsCam - onsite screen displat		ENC	13/08/2010
005	17		8047	Post-ex with all of coffin removed	West	ENC	18/08/2010
005	18		8047	Post-ex with all of coffin removed	East	ENC	18/08/2010
005	19		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	20		8047	Post-ex with all grave cut fill removed	East	ENC	18/08/2010
005	21		8047	Post-ex with all grave cut fill removed	South	ENC	18/08/2010
005	22		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	23		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	24		8047	Post-ex with all grave cut fill removed	North	ENC	18/08/2010
005	25	all		whole site with all gravecut fill removed	South	ENC	18/08/2010
005	26	all		whole site with all gravecut fill removed	South	ENC	18/08/2010
005	27	all		whole site with all gravecut fill removed	East	ENC	18/08/2010
005	28			Kilmartin Bell		ENC	18/08/2010
005	29			Kilmartin Bell		ENC	18/08/2010
005	30			Kilmartin Bell		ENC	18/08/2010



Forteviot Pictish
Cemetery Excavation
2010

Data Structure Report

By Ewan Campbell



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Summary

The 2010 excavations of the Forteviot Pictish cemetery explored two conjoined square barrows, some 0.5km south of the northern cemetery (NO01NE 169) and just outside the line of the prehistoric palisaded enclosure (NO01NE 28). Unlike the square barrows explored in the northern cemetery by SERF in 2007 these examples were almost half as small at around 5 metres square and, most notably, they did not have causeways at the corners of their ditches. Defined by a continuous ditch, the barrow to the west was not a true square. The eastern (slightly smaller and squarer) barrow appears to have been added at a later date. Although these barrows have yet to be dated, their form suggests they are early. Despite very poor preservation both central burials yielded traces of wooden coffins, possibly log burials. Both burials also produced remains of outer teeth enamel from the inhumation.

Introduction

As part of the Strathearn Environs and Royal Forteviot (SERF) project, an area about 700m to the south of the village of Forteviot, where aerial photographs had previously revealed cropmarks of a square barrow (NGR NO 0547 1684), was investigated. The excavation took place between August 2nd and 21st, 2010 and was undertaken by a small team of undergraduate students from the Universities of Glasgow and Aberdeen aided by local volunteers from the Perth and Kinross Historic Society, directed by Dr Ewan Campbell of the University of Glasgow. The weather was mostly dry throughout, with intermittent showers which helped to show soil distinctions on drying out. Before excavation, a small area near was surveyed by gradiometry, but did not clearly revealed the shape of the barrows. The site was scanned by local a metal detectorist Jim Crombie, who also monitored the spoil heap during excavation.

The site lies on a raised terrace which lies about three meters above the level of the fields containing the early prehistoric complex. Although this is a small elevation difference, it gives the site a commanding view of both the prehistoric complex, and extensive vistas westwards up the Earn valley as far as the prominent peaks of Ben Vorlich and Stuc A' Chroin (Frontispiece). The site lies just to the south of the large Neolithic palisaded enclosure which occupies most of the field, and was clearly sited to respect it, suggesting it was still visible in the Pictish period.

Aims

The cropmark of the square barrow was published by Alcock (1992, illus 10, no. 18) as part of the large array of cropmarks first identified by St Joseph (1978) (Figure 1). The 2010 site lies 500m south-south-west of the extensive barrow cemetery previously excavated in 2007 (Poller 2007) and 2009 (Campbell & Gondek 2009). Part of the aims of opening this area was to see if the square enclosure was indeed a Pictish barrow, and how its date related to the larger cemetery.

Methodology

The rectangular trench measured 18 x 10m, orientated south-west/north-east, and was placed to uncover the area of the square barrow and any possible surrounding graves. The topsoil was stripped by machine, the rest of the excavation was by hand covering the whole area of the trench. The excavation revealed two conjoined square barrows (SB3 and SB4), each with a central grave. The two graves were fully excavated by section. The smaller barrow ditches were fully excavated, and the larger excavated by section and longitudinal section, while the north-east quadrant was fully excavated. All archaeological features were sampled and recorded by section and plan. All fills were sieved with a 25mm mesh.

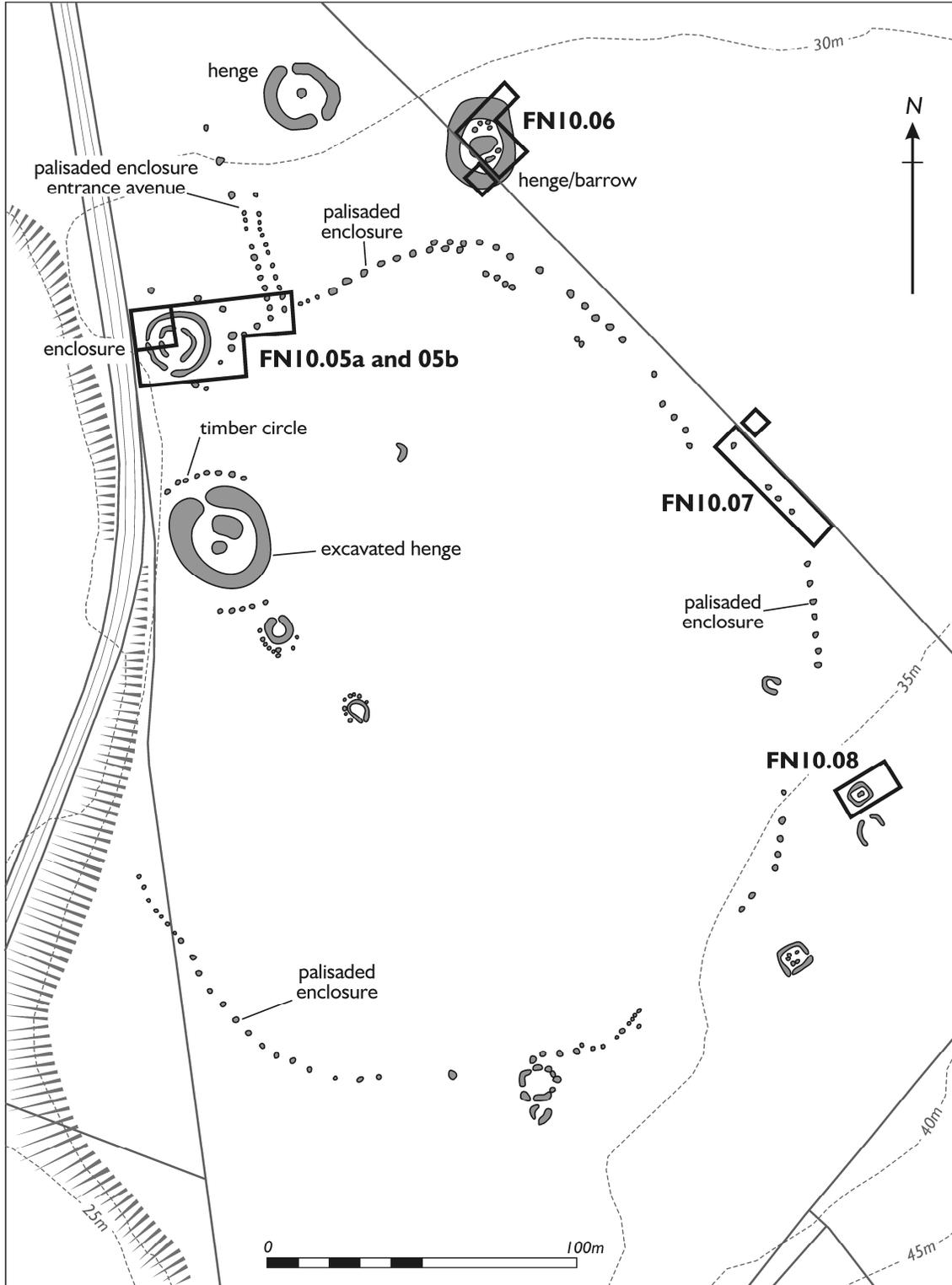


Figure 1: Transcription of cropmark complex ©CAHMS and location of excavation trench

Results

Geology

The underlying geological deposits consisted of compact yellow gravels of fluvio-glacial origin as described previously (Campbell & Gondek 2009). The 2010 site differed from the 2009 site in that there were no sands, silts or clays, and the gravel was very coarse, consisting of rounded pebbles and cobbles up to 200 mm in size.

Post-Cemetery Agricultural History

A modern ploughsoil (8001) of uniform 0.35m depth covered the sands and gravels. There was almost no trace of the silts seen in other excavation areas below the modern ploughsoil. There was also no trace of rig and furrow cultivation, also seen in most of the other excavated areas. This may have been due to the severity of the modern deep ploughing, which had severely affected the area. The base of the grave in SB4 was only a couple of centimetres below recognisable plough furrows, one of which (8003) passed through the skull area, and it is likely that all trace of this feature will disappear in the next few years. The site lies just at the lip of a steep slope down from the small terrace, and this has accentuated the plough damage. Comparison with the field 70m to the south, which has remained uncultivated in recent times, suggest between 0.5 and 1.0m of topsoil have been lost, similar to the estimates elsewhere at Forteviot (Campbell & Gondek 2009, 5; Campbell 2008).

The site lies about 50m to the west of the post-medieval trackway, which ran down from the Dunning to Bridge of Earn medieval road towards Forteviot and the ford at the site of the present bridge over the River Earn, forming the western boundary of the field. The present southern field boundary post-dates the OS First edition map of 1866. Previous to that period the field ran up the bank of rough pasture (Dronachy) to the south as far as the modern road.

Square Barrow 3 (SB3)



Figure 2: Vertical photograph of the site from remote-controlled drone (FlyingScotsCam).

FN10.08 Post excavation plan

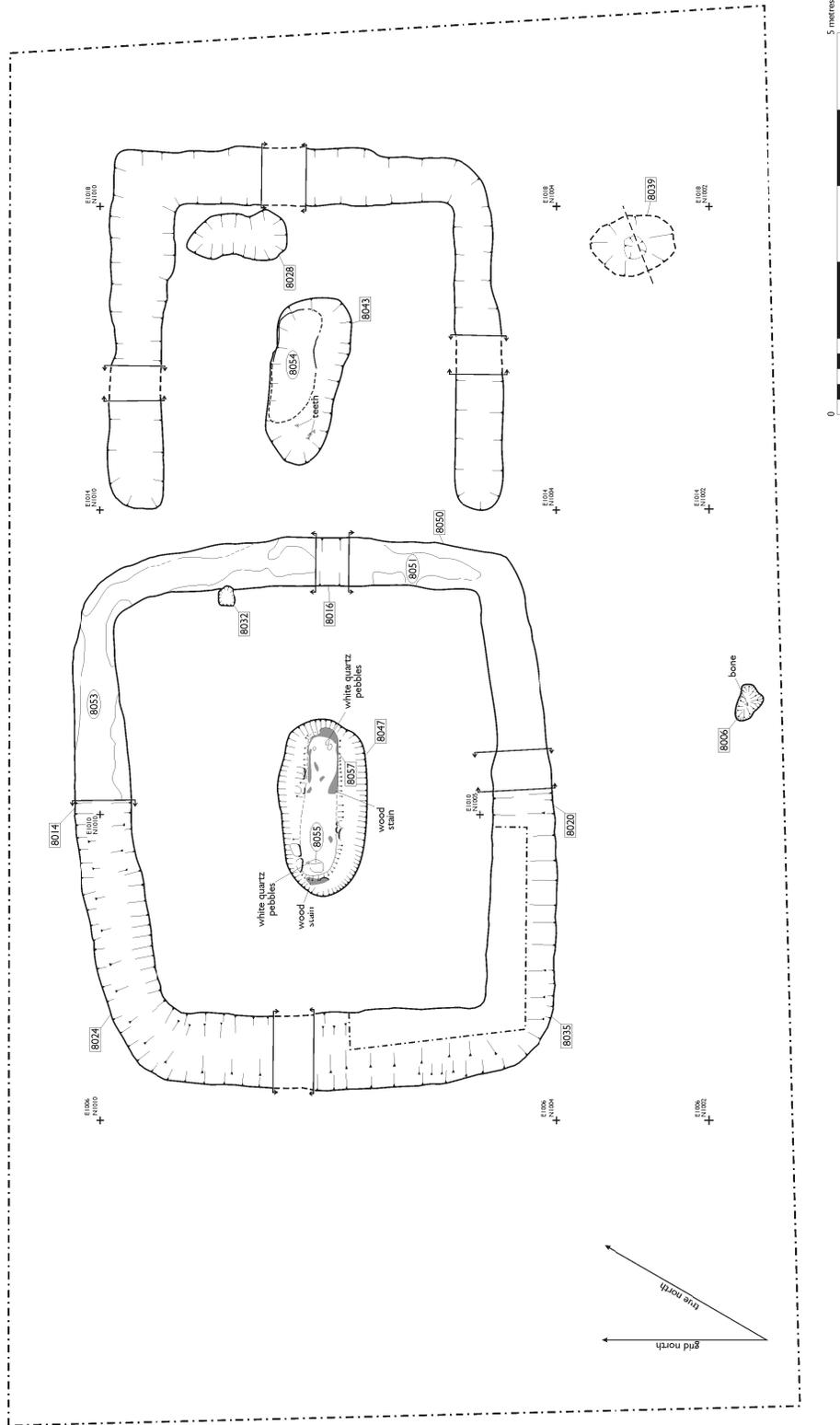


Figure 3: Plan of excavated features

SB3 was immediately obvious on removal of the topsoil, though its visibility varied according to the degree of drying out of the subsoil. The barrow was outlined by shallow ditches on all four sides, with no breaks at the corners (Figures 2, 3). The internal measurements were 5.60m E-W by 4.80m N-S, much smaller than the barrows excavated in 2007, but close to the norm for the whole corpus. The ditch was sectioned in the middle of each side (8010, 8014, 8016, 8020) and showed a U-shaped profile with a fairly flat bottom and steep sides, similar in all sections. The width varied from 0.5 to 1.0m and the maximum depth of surviving deposits was 0.3m. The overall shape was more irregular than other Pictish barrows, particularly on the northern side which was slightly bowed and was not at right angles to the western ditch. The internal angles were sharper than the external ones, which were slightly rounded.

There were traces of a thin brown silty deposit (8034) surviving within the confines of the ditch in parts of the NW quadrant. This was interpreted as the basal part of the pre-modern subsoil, as was recognised in other areas of the excavations in previous years. This thin deposit survived only within the hollow of the ditch. Beneath this deposit, the fill was difficult to differentiate on excavation, though an upper (8036) and lower (8037) was distinguished with the lower fill of clean loose gravel and the upper more silty, compact and dirtier. However, in section a band of silt (8060) could be seen when the section dried out. This layer was a maximum of 0.05m thick and occupied the inside side of the ditch, never reaching the exterior edge. This was interpreted as an initial washing in of material derived from a burial mound in the centre of the barrow. This was the only evidence for an original mound over the central grave. The presence of this silt showed that there was no palisade or fence within the ditch, and there was no sign of posts in the longitudinal sections, or in the plan excavations.



Figure 4: Photo of central burial in SB3 showing stone lining at West and coffin stain at East

FN10.08

Profile of grave cut 8047

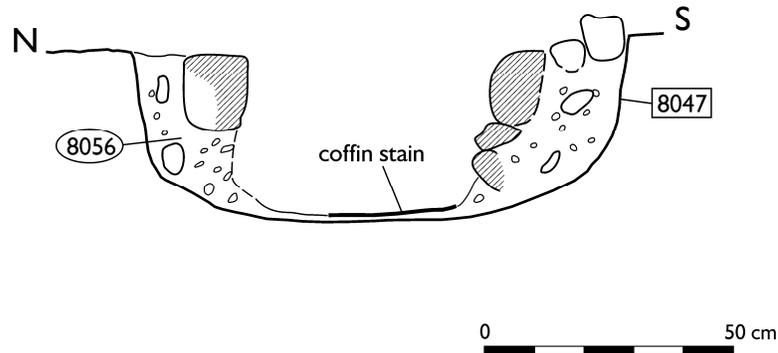


Figure 5: Profile of grave in SB3, showing coffin stain and stone lining

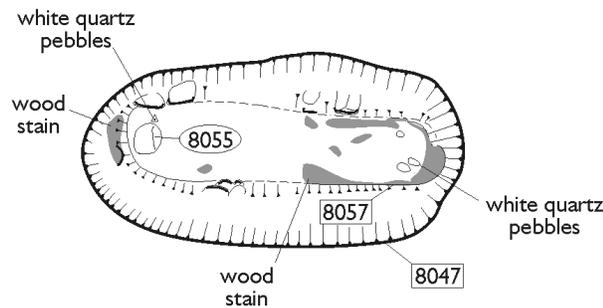


Figure 6: Plan of grave in SB3, showing skull impression, coffin stain and stone lining

The central grave was contained in a large grave pit with steep-sided U-shape (8047). This pit, which had been cut through particularly coarse and compact gravel to a depth of 0.40m measured 2.40 by 1.05m and was orientated SW-NE. The pit was filled with similar coarse gravel (8058) to the subsoil, though dirtier. Within this deposit was the outline of a coffin burial (8057) (Figures 4, 5). At the west end, the coffin was outlined by two lines of boulders and cobbles which initially appeared to be a built stone lining (Figure 6). However, subsequent excavation and the character of the lines showed that these had been packed against the coffin side rather than being a pre-built wall. To the east there was no sign of even this rough walling, but the coffin could be distinguished by the looser fill. The fill of the coffin was a loose gravel (8056). At the base there was a layer of finer pea gravel which seems to have levelled the bottom of the grave. At the west end there was a patch of very fine silty gravel (8055) of sub-circular shape with a line of smashed fragments of tooth enamel (SF 8014) (Figure 7). These deposits were interpreted as the remains of a skull, the fine silt having filled the brain cavity at one stage of the body decay. There were no recognisable teeth surviving and this was the only indication of a body in the grave. The base was sampled for phosphate analysis. Towards the east end of the grave a line of darkened soil at the south edge appeared to be decayed wood of the coffin side, and further

patches were found on the base and ends of the coffin cavity. The ends of the coffin appeared to be bowed. The maximum external length of the coffin was 2.05m and the width 0.50m, but the maximum length of the body was 1.80m. The bowed ends and substantial remains of decayed wood suggested that the coffin may have been a hollowed out log, as with Grave 12 in the 2009 excavations (Campbell & Gondek 2009, 13-15). The narrow width of the coffin might mitigate against this interpretation. Within the fill 8056 there two groups of four white quartz pebbles, one near the head and one near the foot of the grave. It was not clear whether these were deliberate inclusions or not – there were few white quartz pebbles in the surrounding gravels, but both groups were dispersed above the level of the coffin base.



Figure 7 West end of burial in SB3 showing skull impression and teeth enamel (arrowed)

No other features apart from a small pit or posthole (8032) were found within the area of the SB3. This shallow (0.1m) sub-circular feature about 0.2m in diameter, had some charcoal in its fill, and appeared to cut the western edge of the eastern ditch.

Square Barrow 4 (SB4)

To the east of SB3 lay another square barrow, outlined by three shallow ditches on its N, S and E sides, The W side was butted close to the E ditch of SB3 but with a gap of 0.5m. The ditches were badly truncated by ploughing. They were initially sectioned (8008, 8012, 8018) and showed U-shaped profiles. Later the entire fills removed in plan and sampled. The fill was uniform dirty brown gravel (8009, 8013, 8019, 1031, 1038) with none of the silt seen in the SB3 ditches. The width varied from 0.50 to 0.80m, and the depth to a maximum of 0.15m. The outer edges of the N and S ditches lined with the inner edges of the corresponding SB3 ditches, meaning that SB4 was smaller with internal dimensions of 3.80m N-S by 4.00m E-W. The ditches were at true right angles, making a more normal square barrow plan. The interior angles were very sharp.

It is difficult to see why the SB4 ditches were not continued up to the SB3 ditches, unless there was a small counterscarp bank on the exterior of the ditches. In any case, SB4 was clearly secondary to SB3, and deliberately aligned on it.

The central grave was defined by a shallow oval cut (8043) measuring a maximum of 2.20 by 1.00m, and a maximum depth of 0.20m. The alignment was at an angle to E-W ditches, running nearer to E-W than SW-NE. The upper fill (8044) was a brownish silty gravel. Beneath this was a silty layer (8054) which covered part of the base of the grave cut and was interpreted as a coffin fill. At the western end there were the remains of several teeth, represented by the enamel. A few of these were unbroken and appeared to be molars of a juvenile. The head end of the grave had been cut by a plough furrow (8003) which cut to within a few centimetres of the teeth and may have disturbed them. The extent of 8054 did not respect the alignment of the grave cut, but was aligned with the ditches, suggesting that the body was laid out directly in line with the burial in SB3.

The only other feature within SB4 was an irregular linear feature in the NE corner of the barrow (8028) filled with a sterile yellowish silt. This seemed likely to be a tree root hole or animal burrow.

Other Features

Apart from a possible tree throw or animal burrow complex in the south part of the trench (8022), there were only two features in the area outside the barrows. The larger, (8039), was an oval depression 1.50 by 0.75m, filled with charcoal rich dark soil (8040), including some charred grain, with irregular patches of burnt orange soil, to a maximum depth of 0.15m. The fill included some pieces of fire-cracked pebbles and vitrified fuel ash slag. The burning did not appear to be in situ, and the pit did not penetrate the natural gravel for more than a few centimetres.

The smaller feature (8006) was an irregular patch about 0.50m in diameter and 0.1m deep, filled with a dark silt (8007) containing charcoal flecks and one piece of rib-bone.

Discussion

Square barrows

A positive result of the excavations was the confirmation of the presence of two square barrows on the site, both with central graves. These complement the two square barrows excavated in 2007, and the round barrow from 2009. Both barrows are rather different from the 2007 ones however: they are almost half as small; there are no associated unenclosed graves; they are not aligned E-W; they do not have interrupted corners; and SB3 has an irregular shape. In both cases though, the eastern barrow seems to have been added to the western one.

SB3 is the earlier of the two barrows, and seems to have more care taken with its construction. The ditches and central grave are both dug deeply into the natural gravel, which is compact and difficult to excavate, and care had been taken to pack stones along the wooden coffin sides. There is no certainty that a barrow mound covered the centre of the enclosure, but the silting of layer 8060 does suggest this. It is possible to estimate that this putative mound could not have been more than one metre high, due to the short distance between the grave and the ditch. The burial may have been marked with a wooden or stone

grave marker, as the burial in SB4 seemed to be aligned on the one in SB3, but there is no other evidence for this. The relationship with SB3 suggests a possible counterscarp bank outside the ditch. There are not many parallels for the irregular shape of SB3 – most Pictish square barrows are regular squares. There is one excavated square barrow with uninterrupted corners at Boysack Mills 1, Angus (Murray & Ralston 1997, illus 4). This barrow may be a good parallel as it is also not a true square, has a carefully protected coffin burial, and is a similar size to SB3. Although there was no scientific dating, the association with a projecting ring pin should indicate a date in the first few centuries AD. SB3 may be of an equally early date, though scientific dates may clarify this. The decayed wood remains show that the individual interred was buried in a wooden coffin, though it is not clear if this was plank-built or a hollowed-out log (as with Grave 12 from 2009). No nails or coffin fittings were found, but these would probably not have survived in the corrosive soil conditions. The coffin was narrow, at 0.50m, but of similar dimensions to that from Boysack Mills which was thought to have been plank-built (Murray & Ralston 1997, illus 7). The log coffin found in Grave 12 in 2009 was about 0.60m in width, so it is possible that the burial in SB3 was also in a similar coffin. The silty patch (8055) which was believed to represent the skull can be compared to similar features in the unenclosed graves excavated in 2007 (Poller 2007, 13).

SB4 is clearly secondary as it respects SB3 and is aligned on it, but the form is different in that the square has been laid out regularly with true right angles. This might suggest it belongs to a substantially later phase of burial activity, or alternatively, that there was a family relationship between the individuals buried in the two barrows. Both burials appeared to have been extended inhumations in wooden coffins. As only the basal fill of the ditches survived ploughing, there was no indication if there had been a central mound, as was suggested for SBs 1-3.

One notable feature of the site is the lack of dug graves within the area excavated, which distinguishes this area from the 2007 and 2009 parts of the Pictish cemetery. The aerial photographs also do not show any certain graves on this terrace, suggesting that the barrows were isolated burial monuments. This could be due to chronological factors, but might also indicate that these burials were unusual in some respect. Transcriptions of the aerial photographs do show a hybrid round/square structure on the same terrace about 50m to the SW, a sub-circular structure about 5m S, and another possible square barrow about 25m N of the site, all located just outside the palisaded enclosure. This complex of different forms of enclosure, without accompanying enclosed graves, is similar to the situation at Boysack Mills, and might suggest that these monuments pre-date those found in 2007 and 2009 and belong to the middle iron age.

Other features

The two scoops with charcoal rich material, 8006 and 8039, could be of any date as similar features in other trenches have produced dates from the Bronze Age to Pictish period.

Finds

There were almost no artefacts from the site. Even modern mass-produced pottery in the ploughsoil was rare, and metal detecting found no iron or other metals. Unlike other trenches, there was also a lack of struck lithics, and raw materials – no flint, chert or quartz was found even as waste. It seems that the site was removed from most activities which

would produce such material, the site lying outside the large palisaded enclosure, and far from the medieval to modern village.

Conclusions

The main research questions set before excavation have been answered. There is a barrow cemetery in this part of the complex, but the character of the monuments differs from those in the northern cemetery. Only scientific dates will allow the chronological relationships to be clarified, but a preliminary conclusion is that the 2010 monuments are earlier in date than those to the north.

Acknowledgements

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Appendices

i) Contexts

Contex No.	Type	Short description	Interpretation	Relationships
8001	Deposit	Topsoil	Topsoil	Overlies everything.
8002	Fill	plough marks	Fill of ploughmarks of N-S orientation crossing the site in multiple places.	underlies 8001, contained by cut 8003
8003	Cut	Ploughmarks	Modern agricultural plough marks.	contain 8002
8004	Structure	Western Square Barrow		
8005	Structure	Eastern of the two square barrows	Smaller, eastern square barrow.	
8006	Cut	Pit, modern animal burial	Probable modern animal burial	contains 8007
8007	Fill	Pit, modern animal burial	Probable modern animal burial.	Overlies cut 8006. Underlies 8001.
8008	Cut	Central section of eastern ditch of barrow 8005	Central section of E ditch of barrow 8005.	contains 8009
8009	Fill	Central section of eastern ditch of barrow 8005	Fill of Eastern ditch of barrow 8005 in central section	contained by 8008
8010	Cut	Central section of W ditch of barrow 8004	Central section of W ditch of barrow 8004.	contains 8011 and 8034
8011	Fill	Central section of W ditch of barrow 8004.	Central section of W ditch of barrow 8004.	contained by 8010, underlies 8034
8012	Cut	Central section of N ditch of barrow 8005.	Central section of N ditch of barrow 8005.	contains 8013
8013	Fill	Central section of N ditch of barrow 8005.	Central section of N ditch of barrow 8005.	contained by 8012
8014	Cut	Central section of N ditch of barrow 8004.	Central section of N ditch of barrow 8004.	contains 8015
8015	Fill	Central section of N ditch of barrow 8004.	Central section of N ditch of barrow 8004.	overlies 8014, underlies 8001
8016	Cut	Central section of E ditch of barrow 8004.	Central section of W ditch of barrow 8004.	contains fill 8017
8017	Fill	central section of E ditch fill of 8004	Central section of W ditch of barrow 8004. Fill of ditch.	contained by 8016, underlies 8001
8018	Cut	Southern central section ditch cut of 8005	Central section of S ditch of barrow 8005.	Part of barrow 8005. Contains fill 8019
8019	Fill	central section of E ditch fill of 8005	Central section of S ditch of barrow 8005. Fill of ditch.	Contained by 8018. underlies 8001.
8020	Cut	central section of S ditch cut of 8004	Central section of S ditch of barrow 8004. Cut of ditch.	contains 8021
8021	Fill	central section of S ditch fill of 8004	Central section of S ditch of barrow 8004. Fill of ditch	contained by 8020, underlies 8001
8022	Cut	Probable animal burrows	Probable animal burrows	contains 8023

8023	Fill	Probable animal burrows	Probable animal burrows	Contained by cut 8022. underlies 8001
8024	Cut	Cut of NW section, corner of ditch of barrow 8004	NW corner section of ditch of barrow 8004.	contains ditch fills 8049 and 8034
8025	Cut	NW section of eastern barrow 8005	W section of N ditch of barrow 8005. Cut of barrow ditch.	contains 8026
8026	Fill	NW section of eastern barrow 8005	W section of N ditch of barrow 8005. Fill of barrow ditch.	contained by 8025, underlies 8027
8027	Fill	Silty patch overlying 8026	Silty inclusion overlying 8026 possibly caused by variable silting in the barrow ditch.	overlies 8026, underlies 8001
8028	Cut	Irregular linear feature	Linear feature that appears to be natural in the interior of barrow 8005.	Contains 8029
8029	Fill	Irregular linear feature	linear feature that appears to be natural	contained by cut 8028, underlies 8001
8030	Cut	SW section of ditch cut of 8005	Cut of barrow ditch on southern side of barrow 8005, to the West of the central section.	Contains fill 8038 and upper fill 8031. Cut by ploughmark 8003
8031	Fill	Silty patch overlying 8038	Silty patch overlying 8038 in cut 8030, W section of S ditch of barrow 8005	overlying 8038, underlying 8001
8031	Fill	Patch in fill of SW section ditch fill of 8005	Central	
8032	Cut	possible post hole	Possible post hole	overlain by 8033, cuts through 8016 and 8017
8033	Fill	possible post hole	Possible post hole	overlies cut 8032, underlies 8001
8034	Deposit	thin silt layer in ditch of barrow 8004	Natural silt deposit in cuts 8014, 8010 and 8024, NW corner of ditch of barrow 8004	Overlies 8011 8015 and 8049. Underlies 8001
8035	Cut	Cut of SW corner section ditch of barrow 8004	ditch of 8004: SW corner. No signs of post holes etc.	Contains 8037 and 8036
8036	Fill	upper fill of SW corner section ditch of barrow 8004	Upper fill of ditch cut 8035, SW corner of barrow 8004.	overlies 8037, contained by 8035, underlies 8001
8037	Fill	lower fill of SW corner section ditch of barrow 8004	Lower fill of ditch cut 8035, SW corner of barrow 8004.	contained by cut 8035, underlies fill 8036
8038	Fill	SW section ditch fill of 8005	Fill of ditch cut 8030, W section of S ditch of barrow 8005.	Contained by 8030, underlies 8031, cut by 8003
8039	Cut	Charcoal rich pit cut	pit dug for deposition of burnt materials including charcoal, charred grain, burnt soil and vitrified fuel ash slag.	Contains 8040

8040	Fill	Charcoal rich pit fill.	Burnt materials including seeds suggests part of functional domestic activity. Plan shape and colour suggested initially it was a grave fill at N-S alignment, excavation revealed it's more mundane character. Material was not burnt in situ but deposited after burial	Contained by cut 8039, underlies 8001
8041	Cut	NE corner section of ditch of barrow 8005.	NE corner section of ditch cut of barrow 8005.	Contains 8042
8042	Fill	NE corner section of ditch of barrow 8005.	NE corner section of ditch of barrow 8005, fill of	contained by cut 8041, underlies 8001
8043	Cut	Central grave of barrow 8005.	Grave cut in interior of square barrow 8005, Central grave of later square barrow defined by three ditches, sharing the E ditch of barrow 8004. Size and contents suggest burial of a small stature person also indicated by tooth which suggests juvenile.	Contains 8044 and 8054, Within 8005. Cut by 8003.
8044	Fill	Central grave fill of barrow 8005.	Upper fill of grave of square barrow 8005 containing head to the west.	Cut through by 8003, underlies 8001, overlies 8054, contained by 8043
8045	Cut	Southeast corner ditch of east barrow 8005	SE corner section of ditch cut of barrow 8005.	Contains 8046
8046	Fill	Southeast corner ditch of east barrow 8005	Fill of SE corner section of ditch of barrow 8005	contained by cut 8045, underlies 8001
8047	Cut	Grave pit cut in barrow 8004	Grave cut of grave in barrow 8004. Cut longer than coffin, central to barrow.	Filled with 8058, gravel and stones
8048	Fill	Grave pit fill in barrow 8004.	This context is the upper fill of the grave and grave pit in barrow 8004. This fill is a combination of material from the back fill of the grave and other material that has slumped into the grave as the coffin decayed.	Filling the top of 8057
8049	Fill	Fill of section of NW corner of ditch of barrow 8004	Ditch fill of NW corner section of barrow 8004 ditch.	Contained by 8024, underlies 8034
8050	Cut	Cut of section of SE corner of ditch of barrow 8004	Cut of SE corner of ditch of barrow 8004.	Contains at least 8051
8051	Fill	Fill of section of SE corner of ditch of barrow 8004	SE corner of ditch of barrow 8004, fill visible on top.	contained by cut 8050, underlies 8001
8052	Cut	Cut of section of NE corner of ditch of barrow 8004	NE corner of ditch of barrow 8004.	contains at least 8053

8053	Fill	Fill of section of NE corner of ditch of barrow 8004	NE corner of ditch of barrow 8004, top fill.	contained by cut 8052, underlies 8001
8054	Fill	Lower fill of grave cut 8043 in barrow 8005	Lower level of grave fill for central grave 8043 in smaller square barrow 8005. Larger rocks and sandstone slabs placed along bottom not substantial enough to suggest stone lined but gives the grave definition. Distinct from upper fill 8044. Discovery of	Contained by 8043, underlies 8044, within barrow 8005
8055	Fill	Soil shadow of skull and enamel of teeth.	It is believed that this circular mark of soil was created when medium fine silty sand filtered into the skull cavity. When the skull then rotted in the acidic soil it left this soil mark behind. This interpretation is supported by the inclusion of a line	
8056	Fill	Fill of grave.	This context is the fill of the grave in barrow 8004. This fill is made up of material that would have filled the space once taken up by the coffin and body as these both decayed.	
8056	Fill	Grave fill of barrow 8004.	This context is the fill of the grave in barrow 8004. This fill is made up of material that would have filled the space once taken up by the coffin and body as these decayed.	
8057	Fill	Cut of grave	The cut was created when back fill material filled in spaces between the packing stones (that would have surrounded the west end of the coffin) as the coffin decayed.	
8058	Fill	Backfill of grave after placement of coffin	Backfill of grave after placement of coffin, forms sides of grave- stones packed like a wall in places.	cut by grave
8059	Fill	Fill of grave cut 8057	This is the grave fill East of the section line. Coffin stain. End suggests log coffin	
8060	Fill	Silt in ditch of barrow	Initial silting of ditch from mound within barrow ditches	within 8036
8060	Fill	Silt layer in barrow ditch		

ii) Small Finds

Find Number	Context	Area	Material	Description	No. of Pieces	Easting	Northing	Height
8001		F	Grain		1	1009.91	1009.94	999.09
8002		C	Bone		1	1011.12	1001.62	999.49
8003		H	Charcoal		4	1016.29	1005.14	999.35
8005	8032	g	Charcoal	charcoal	1			
8006	8031		Charcoal	charcoal	1			
8007	8040	d h	Stone	Smooth firecracked rounded stone	1			
8008	8044	h	Tooth	Human remains. Tooth enamel	1			
8008	8044	d	Charcoal	charcoal	1			
8009	8044	h	Tooth	Human remains				
8010	8044	h	Tooth	Human remains				
8011	8044	h	Tooth	Human remains				
8012	8044	h	Tooth	Human remains				
8013	8044	h	Tooth	Human remains				
8014	8055	GF	Tooth	Human tooth enamel		1009.4	1007.2	999.05
8015	8056	gf	Stone	White qz pebbles head of grave	4			
8016	8056	gf	Stone	White qz pebbles, foot of grave	4			

iii) Drawings

Drawing No	Area	Subject	Description	Scale	Type	Drawn By
8001	all		Pre- ex plan of entire trench	1:100	Plan	ENC
8002	H	8013, 8012	E-facing section of northern ditch of barrow 8005	1:10	Section	KGR
8003	C	8006, 8007	SE- facing section of pit	1:10	Section	FMC
8004	H	8008, 8009	S-facing section of eastern ditch of barrow 8005	1:10	Section	LPR
8005	F	8010, 8011	S-facing section of western ditch of barrow 8004	1: 10	Section	AWI
8006	G	8016, 8017	N-facing section of eastern ditch of barrow 8004	1:10	Section	PGL
8007	B,C	8021, 8020	E-facing section of southern ditch of barrow 8004	1:10	Section	KGR
8008	D,H	8018, 8019	E-facing section of southern ditch of barrow 8005	1:10	Section	LPR
8009	F,G,J,K	8014, 8015	W-facing section of northern ditch of barrow 8004	1:10	Section	FWA
8010	C	8006	Post-Ex plan of pit 8006	1:20	Plan	FMC
8011	G,H	8025, 8026	Part Excavation plan of 8025 and 8026	1:20	Plan	KGR
8012	D/ H	8030, 8031	Part Excavation Plan of 8030 and 8031	1:20	Plan	PGL
8013	H	8028, 8029	Post excavation plan of 8028 and 8029	1:20	Plan	AWI

8014	G	8032, 8033	West facing section of small pit 8032 and fill 8033	1:10	Section	FMC
8015	F,G,J,K	8004	Part excavation plan of NW corner of Barrow 8004 with top silt	1:20	Plan	NBA
8016	H	8030, 8038	Part ex plan of southern ditch of barrow 8005.	1:20	Plan	PGL
8017	B	8035, 8020, 8012, 8036, 8037	S facing longitudinal section of southern ditch of barrow 8004.	1:10	Section	ENC
8018	D	8039, 8040	Section of pit containing burnt material.	1:10	Section	LPR
8019	G		East ditch of square barrow 8004	1:20	Plan	ENC
8020	H	8042, 8044	Part excavation plan of east square barrow grave	1:20	Plan	PGL
8022	FJ KG	8024, 8014, 8034, 8010, 8035	Post ex plan of NW area of barrow 8004	1:20	Plan	NBA
8023	BFCG	8035, 8026, 8020	Post ex plan of SW area of barrow 8004	1:20	Plan	NBA
8024	D	8039	Post ex plan of burnt pit feature	1:20	Plan	NBA
8025	H	8043	Part ex plan of grave cut 8043 in barrow 8005	1:20	Plan	LPR
8026	CG	8050, 8051	Pre ex plan of barrow 8004	1:20	Plan	NBA
8027	H	8043	Section of grave-cut in 8005	1:10	Section	LPR
8028	FG	8057	Profile of grave in 8004	1:10	Section	ENC
8029	L	8043	Post-ex of grave	1:20	Plan	ENC
8030	L	8043	Phosphate samples locations	1:20	Plan	ENC
8031	FG	8047	Section of Grave in SB1	1:10	Section	ENC
8032	FG	8047	Composite of coffin in SB1	1:20	Plan	ENC
8033	F	8010	Section of barrow ditch showing silting up	1:10	Section	ENC
8034	all		Profile of site W-E	1:100	Profile	ENC

iv) Samples

Sample Number	Context	Area	BagSizeNo	Vol (L)	%	Reason	Taken By	Date
8001	676	C	M			Botanics and Carbonised Material for ID and C14	FMC	04/08/2010
8002	8040	D	M			Botanics and Carbonised Material for ID and C14	LPR	07/08/2010
8003	8044	H	L	10		Grave fill with tooth enamel inclusions; Human remains	PGL	08/08/2010
8004	8044	M	M	6	60	Botanics and Carbonised Material for ID and C14	LPR	10/08/2010
8005	8040	D	L	5	50	Botanics and Carbonised Material for ID and C14	ENC	10/08/2010
8007	731	G F	M			Human Remains and Carbonised Material	FWA	11/08/2010
8008	8043	H	S			Phosphates for Body Stain	ENC	12/08/2010

8009		L	S		20	Botanics and Carbonised Material for ID and C14	ENC	12/08/2010
8010	1160		s		10	Decayed wood of coffin; Botanics and Carbonised Material for ID and C14	ENC	12/08/2010
8011	1160					Phosphates for Body Stain	ENC	16/08/2010
8012	1160		l		5 all	Small finds and Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8013	1160		s		10	Decayed wood; Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8014	1162		L		5 20	Small finds and Botanics and Carbonised Material for ID and C14	ENC	16/08/2010
8015	8037		L		5 5	Botanics and Carbonised Material for ID and C14	ENC	16/08/2010

v) Digital Photos

Film	Frame	Area	Context	Description	Direction	Taken By	Date
001	1		8004	General shot	South	ENC	03/08/2010
001	2		8004	General shot	South	ENC	03/08/2010
001	3		8005	General shot	South	ENC	03/08/2010
001	4		8005	General shot	Southwest	ENC	03/08/2010
001	5		8004	General shot	South	ENC	03/08/2010
001	6		8004	General shot	South	ENC	03/08/2010
001	7	ALL		General shot	Southwest	ENC	04/08/2010
001	8	ALL		General shot	South	ENC	04/08/2010
001	9	D	8039	General shot	South	ENC	04/08/2010
001	10	D	8039	General shot	East	ENC	04/08/2010
001	11	H	8013	Northern Ditch of 8005. East facing section through 8013 and 8012.	East	KGR	04/08/2010
001	12	H	8013	Northern Ditch of 8005. East facing section through 8013 and 8012.	East	KGR	04/08/2010
001	13	C	8006	South East facing section of pit 8006.	Southeast	FMC	04/08/2010
001	14	C	8006	South East facing section of pit 8006.	Southeast	FMC	04/08/2010
001	15	FGJK	8015	West facing section of cut 8014, context 8015. Northern ditch of 8004.	East	FWA	04/08/2010
001	16	FGJK	8015	West facing section of cut 8014, context 8015. Northern ditch of 8004.	East	FWA	04/08/2010
001	17	H	8008	North Facing section of 8008 and 8009 Eastern ditch of 8005	South	LPR	04/08/2010

001	18	H	8008	North Facing section of 8008 and 8009 Eastern ditch of 8005	South	LPR	04/08/2010
001	19	F	8010	South facing section of cut 8010 and context 8011 western ditch of 8004.	South	ADW	04/08/2010
001	20	F	8010	South facing section of cut 8010 and context 8011 western ditch of 8004.	South	ADW	04/08/2010
001	21	G	8016	North Facing section of cut 8016 and context 8017.	North	PGL	04/08/2010
001	22	G	8016	North Facing section of cut 8016 and context 8017.	North	PGL	04/08/2010
001	23	D	8039	General shot	South	NBA	04/08/2010
001	24	D	8039	General shot	South	NBA	04/08/2010
001	25	C, D, G, H	8005	General shot	South	NBA	04/08/2010
001	26	C, D, G, H	8005	General shot	South	NBA	04/08/2010
001	27	B, C, F, G, J, K	8004	General shot	Southeast	NBA	04/08/2010
001	28	B, C, F, G, J, K	8004	General shot	Southeast	NBA	04/08/2010
001	29	ALL		General shot	South	NBA	04/08/2010
001	30	ALL		General shot	Southwest	NBA	04/08/2010
002	1	all		general site shot	Southwest	NBA	05/08/2010
002	2		8005	barrow SB2	East	NBA	05/08/2010
002	3		8005	barrow SB2	East	NBA	05/08/2010
002	4	bc	8021	barrow ditch section	East	PGL	05/08/2010
002	5	bc	8021	barrow ditch section	East	PGL	05/08/2010
002	6		8015	north ditch section of barrow 8004	East	FWA	05/08/2010
002	7		8015	north ditch section of barrow 8004	East	FWA	05/08/2010
002	8	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	9	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	10	dh	8018	south ditch section of barrow 8005	West	LPR	05/08/2010
002	11	h	8028	section of linear feature	East	AWI	06/08/2010
002	12	h	8028	section of linear feature	East	AWI	06/08/2010
002	13	gh	8025	Post-ex	South	PGL	06/08/2010
002	14	gh	8025	post-ex	South	PGL	06/08/2010
002	15	b	8035	longitudinal section SB1 south ditch	South	ENC	07/08/2010
002	16	h	8030	section south ditch SB1	South	PGL	07/08/2010
002	17			drying of ditch SB1 showing ?palisade	North	ENC	07/08/2010
002	18	all		general shots, drying out	West	ENC	08/08/2010
002	19	all		general shots, drying out	East	ENC	08/08/2010
002	20	all		general shots, drying out	North	ENC	08/08/2010
002	21	all		general shots, drying out	North	ENC	08/08/2010

002	22	all		general shots, drying out	South	ENC	08/08/2010
002	23	all		general shots, drying out	South	ENC	08/08/2010
002	24	g		drying of ditch SB1 showing ?palisade	South	ENC	08/08/2010
002	25		8043	post-ex of SB2 grave	West	PGL	08/08/2010
002	26		8043	teeth in grave SB2	East	NBA	08/08/2010
002	27		8043	teeth in grave SB2	East	NBA	08/08/2010
002	28		8047	SB1 grave	South	NBA	08/08/2010
002	29		8047	sb1 grave	South	NBA	08/08/2010
002	30		8043	record shot of teeth	South	ENC	08/08/2010
003	1	all		Site Hut	North	ENC	08/08/2010
003	2	D	8040	section of pit with burnt material	North	LPR	08/08/2010
003	3	D	8040	section of pit with burnt material	North	LPR	08/08/2010
003	4	F	8047	stone lining of grave	East	ENC	08/08/2010
003	5	F	8047	stone lining of grave	South	ENC	08/08/2010
003	6	F	8047	stone lining of grave	North	ENC	08/08/2010
003	7	F	8047	Fi digging grave	East	ENC	08/08/2010
003	8	F	8047	Fi digging grave	East	ENC	08/08/2010
003	9	F	8047	grave lining, working shot	East	ENC	11/08/2010
003	10	F	8047	grave lining, working shot	South	ENC	11/08/2010
003	11	f	8047	grave lining, working shot	North	ENC	11/08/2010
003	12	f	8047	grave lining, working shot	West	ENC	11/08/2010
003	13	H	8043	section of grave SB2	West	LPR	11/08/2010
003	14	FG	8047	section of grave in SB1	West	FWA	11/08/2010
003	15	FG	8047	section of grave in SB1	West	FWA	11/08/2010
003	16	FG	8047	teeth 8055	East	ENC	11/08/2010
003	17	FG	8055	teeth 8055	East	ENC	11/08/2010
003	18	FG	8055	teeth 8055	East	ENC	11/08/2010
003	19	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	20	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	21	FG	8056	Post-ex of west end of grave SB1	West	ENC	11/08/2010
003	22	FG	8047	Grave packing structure	North	ENC	11/08/2010
003	23	FG	8047	Grave packing structure	South	ENC	11/08/2010
003	24	H	8043	section	West	ENC	11/08/2010
003	25	L	8054	Post=ex of grave SB2	East	ENC	12/08/2010
003	26		8054	Post=ex of grave SB2	South	ENC	12/08/2010
003	27		8054	Post=ex of grave SB2	West	ENC	12/08/2010
003	28		8054	Post=ex of grave SB2		ENC	12/08/2010
003	29		8054	Post=ex of grave SB2		ENC	12/08/2010
003	30		8054	Post=ex of grave SB2		ENC	12/08/2010
004	1	L	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	2	F	8054	Grave SB2, Post-ex.	South	ENC	12/08/2010
004	3	F	8054	Grave SB2, Post-ex.	West	ENC	12/08/2010
004	4	F	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	5	F	8054	Grave SB2, Post-ex.	East	ENC	12/08/2010
004	6	F	8054	Grave SB2, Post-ex.	West	ENC	12/08/2010
004	7	F	8054	Grave SB2, Post-ex.	North	ENC	12/08/2010
004	8	F	8047	section of grave-cut SB1	West	ENC	12/08/2010

004	9		8047	section of grave-cut SB1	West	ENC	12/08/2010
004	10		8047	section of grave-cut SB1	West	ENC	12/08/2010
004	11		8056	Coffin stain, line on S. edge, close-up	South	ENC	12/08/2010
004	12		8056	Coffin stain, line on S. edge	South	ENC	12/08/2010
004	13		8056	Coffin stain, line on S. edge	South	ENC	12/08/2010
004	14		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	15		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	16		8056	Coffin stain, line on S. edge	West	ENC	12/08/2010
004	17		8056	Coffin stain, line on S. edge	East	ENC	12/08/2010
004	18	all		Grave in SB1	West	ENC	12/08/2010
004	19			Grave in SB1	South	ENC	12/08/2010
004	20	FG	8047	Grave	West	ENC	12/08/2010
004	21	FG	8047	Grave	West	ENC	12/08/2010
004	22		8047	Grave	West	ENC	12/08/2010
004	23		8047	Grave	South	ENC	12/08/2010
004	24		8047	Stone packing at w. end of grave	South	ENC	12/08/2010
004	25		8047	Stone packing at w. end of grave	North	ENC	12/08/2010
004	26	all		View to Ben Vorlich with barrows	East	ENC	12/08/2010
004	27	all		View to Ben Vorlich with barrows and prehistoric complex	Southeast	VBA	12/08/2010
005	1	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	2	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	3	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	4	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	5	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	6	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	7	all		General landscape site photos, post-ex from slope behind site	South	ENC	13/08/2010
005	8			FlyingScotsCam		ENC	13/08/2010
005	9			FlyingScotsCam		ENC	13/08/2010
005	10			FlyingScotsCam		ENC	13/08/2010
005	11			FlyingScotsCam		ENC	13/08/2010
005	12			FlyingScotsCam		ENC	13/08/2010
005	13			FlyingScotsCam		ENC	13/08/2010
005	14			FlyingScotsCam		ENC	13/08/2010
005	15			FlyingScotsCam - octocopter		ENC	13/08/2010

005	16			FlyingScotsCam - onsite screen displat		ENC	13/08/2010
005	17		8047	Post-ex with all of coffin removed	West	ENC	18/08/2010
005	18		8047	Post-ex with all of coffin removed	East	ENC	18/08/2010
005	19		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	20		8047	Post-ex with all grave cut fill removed	East	ENC	18/08/2010
005	21		8047	Post-ex with all grave cut fill removed	South	ENC	18/08/2010
005	22		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	23		8047	Post-ex with all grave cut fill removed	West	ENC	18/08/2010
005	24		8047	Post-ex with all grave cut fill removed	North	ENC	18/08/2010
005	25	all		whole site with all grave cut fill removed	South	ENC	18/08/2010
005	26	all		whole site with all grave cut fill removed	South	ENC	18/08/2010
005	27	all		whole site with all grave cut fill removed	East	ENC	18/08/2010
005	28			Kilmartin Bell		ENC	18/08/2010
005	29			Kilmartin Bell		ENC	18/08/2010
005	30			Kilmartin Bell		ENC	18/08/2010