Daer Project 2009 – 2012

This is the first of a series of interim excavation reports and for an introduction to the project please see previous interims (Ward and Paterson 2010), where methodologies and general information are given and will not be repeated in this group of reports, each of which will be given on BAG's web site as they are produced.

Site No 86

Ian Paterson & Tam Ward

Introduction

The site was No 119/78 at the original find spot of NS 95595 10461 and where the following were retrieved from the furrow:

74 Chert and 5 flints

Flint microlith

Chert microlith

Chert end scraper

Flint end scraper

Flint round scraper

The two flint scrapers were found lying side by side in the furrow (Pl 1 & 1a).

The location lies on the lower north east flank of Coom Rig (hill) at c320m OD and south of the Smithwood Burn. The trench is on slight E/W sloping ground and about 35m uphill from a sharp break of slope down, while the ground above the trench rises more steeply. Turf and blanket peat combined to a depth of 0.5m and covered the site, directly below the peat was a podsol (old ground surface) (ogs) of up to 100mm in depth and which contained severely leached greywacke stone up to about 200mm in size but generally much smaller. Below the podsol is a crust of iron pan of a few millimetres thickness, all of which lies on the till which is orange coloured due to iron staining (Pl 2). A total area of 111.5 square metres was excavated (Fig's 1 - 4). The NGR at zero on the baseline was NS 95601 10471 and the magnetic bearing from that point was 2100.

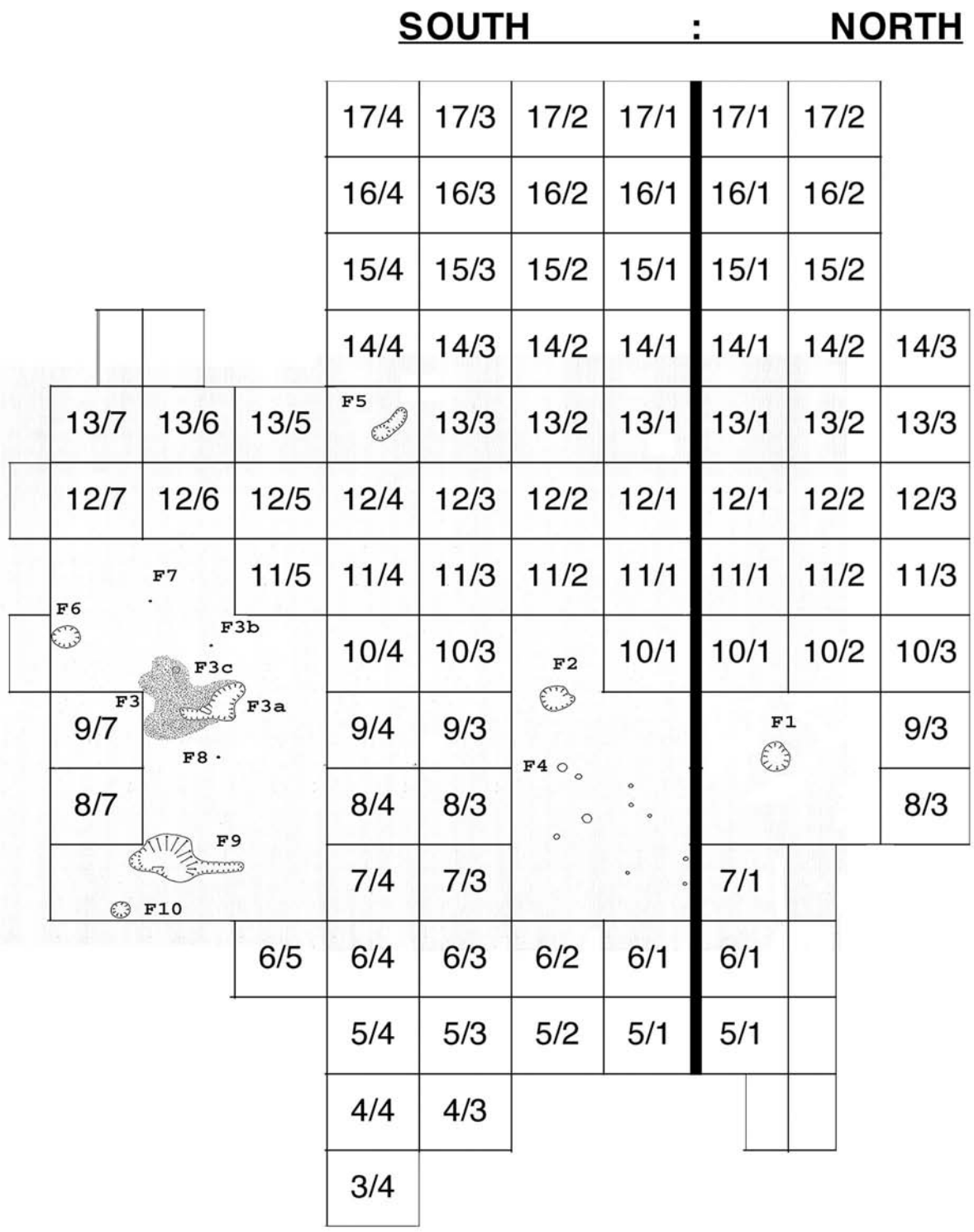

SOUTH : NORTH
17/4 17/3 17/2 17/1 17/1 17/2
16/4 16/3 16/2 16/1 16/1 16/2
15/4 15/3 15/2 15/1 15/1 15/2
14/4 14/3 14/2 14/1 14/1 14/2 14/3
13/7 13/6 13/5 F5 13/3 13/2 13/1 13/1 13/2 13/3
12/7 12/6 12/5 12/4 12/3 12/2 12/1 12/1 12/2 12/3
F7 11/5 11/4 11/3 11/2 11/1 11/1 11/2 11/3
F6
F3b
10/4 10/3 F2 10/1 10/1 10/2 10/3
F3c
F3
F3a
9/7 9/4 9/3 F1 9/3
F8
F4
8/7 8/4 8/3 8/3
F9
7/4 7/3 7/1
F10
6/5 6/4 6/3 6/2 6/1 6/1
5/4 5/3 5/2 5/1 5/1
4/4 4/3
3/4

Fig 1

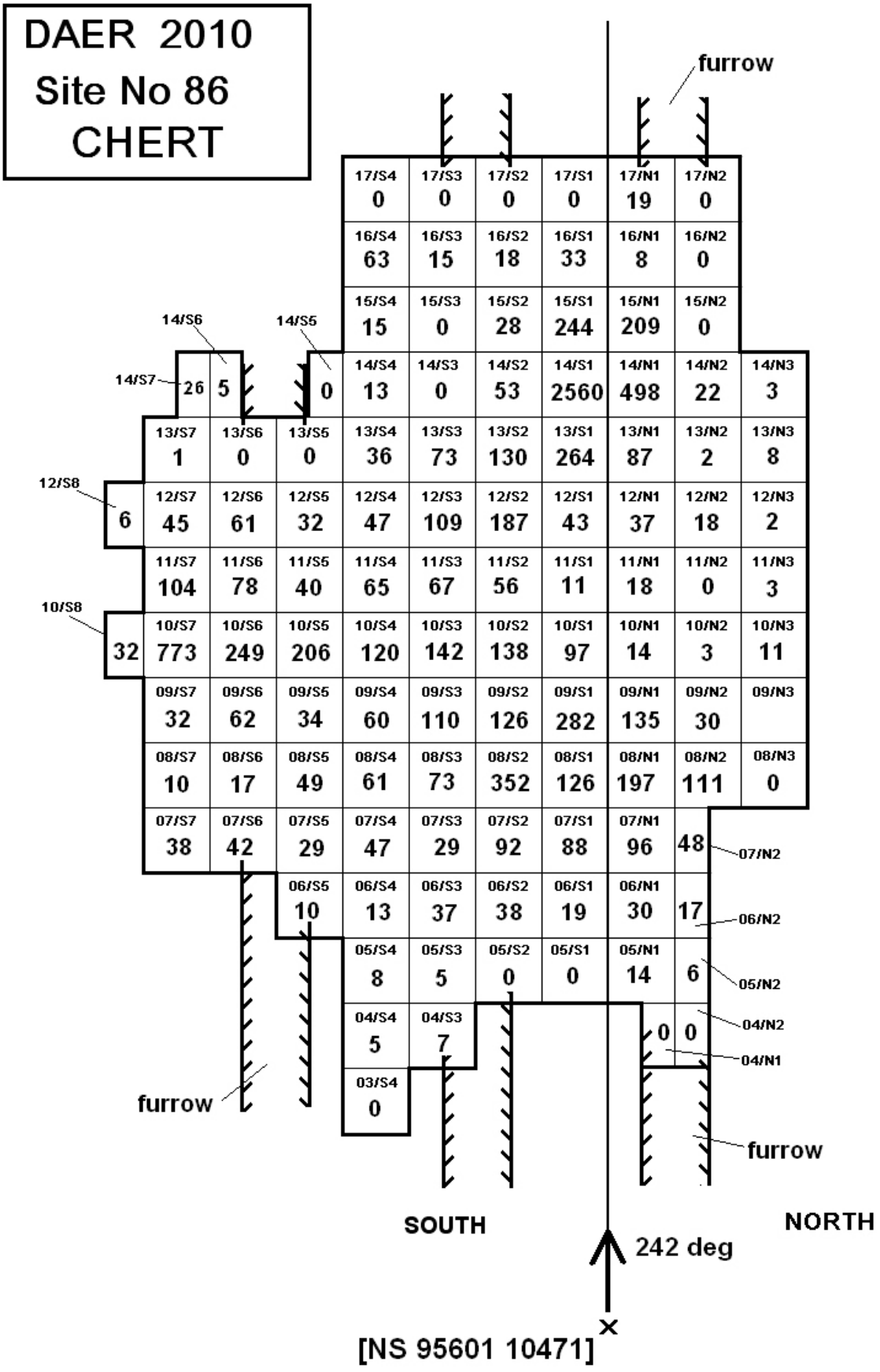
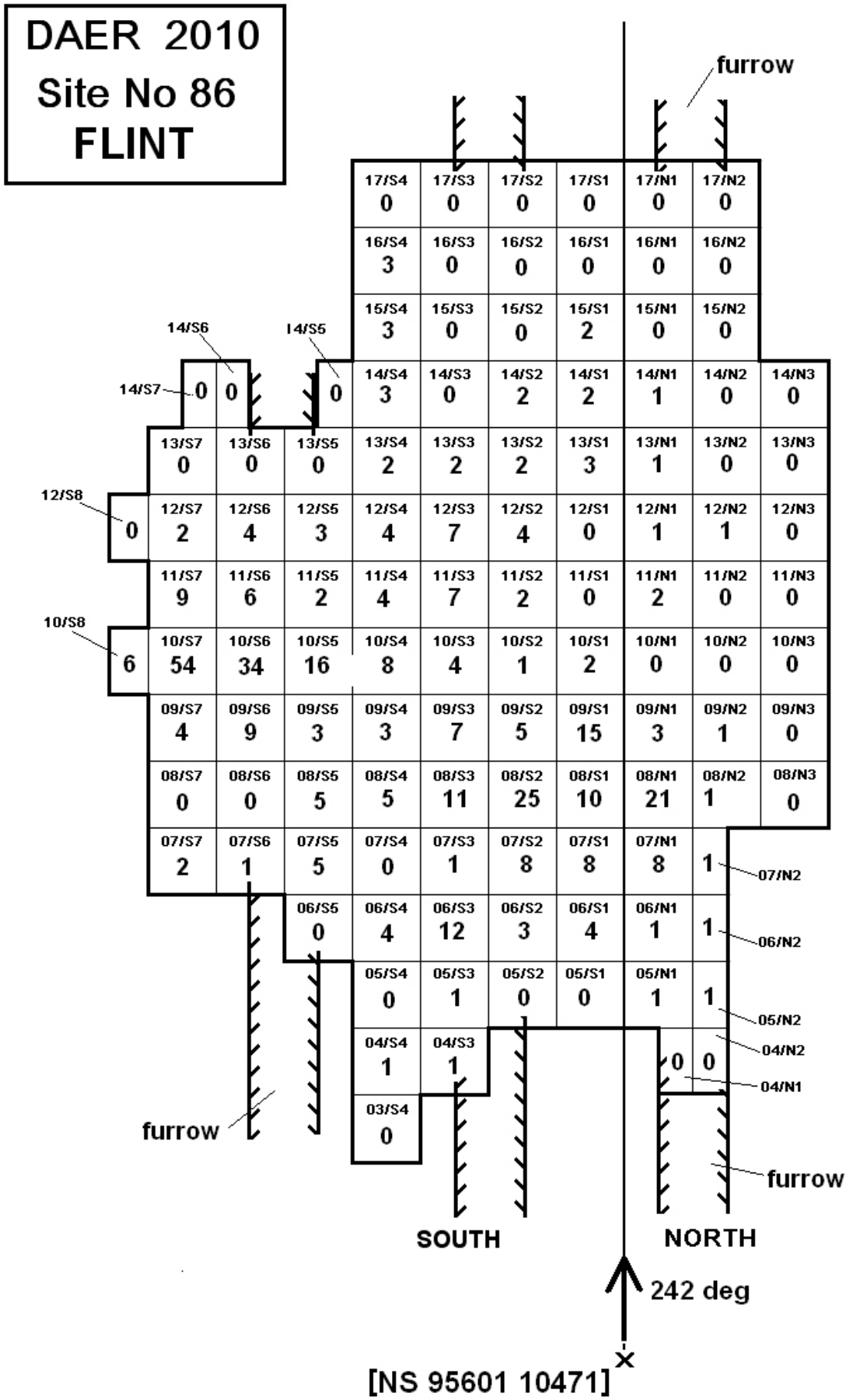

DAER 2010
Site No 86
CHERT
furrow
17/S4 0
17/S3 0
17/S2 0
17/S1 0
17/N1 19
17/N2 0
16/S4 63
16/S3 15
16/S2 18
16/S1 33
16/N1 8
16/N2 0
15/S4 15
15/S3 0
15/S2 28
15/S1 244
15/N1 209
15/N2 0
14/S6
14/S5
14/S7
26
5
0
14/S4 13
14/S3 0
14/S2 53
14/S1 2560
14/N1 498
14/N2 22
14/N3 3
13/S7 1
13/S6 0
13/S5 0
13/S4 36
13/S3 73
13/S2 130
13/S1 264
13/N1 87
13/N2 2
13/N3 8
12/S8
6
12/S7 45
12/S6 61
12/S5 32
12/S4 47
12/S3 109
12/S2 187
12/S1 43
12/N1 37
12/N2 18
12/N3 2
11/S7 104
11/S6 78
11/S5 40
11/S4 65
11/S3 67
11/S2 56
11/S1 11
11/N1 18
11/N2 0
11/N3 3
10/S8
32
10/S7 773
10/S6 249
10/S5 206
10/S4 120
10/S3 142
10/S2 138
10/S1 97
10/N1 14
10/N2 3
10/N3 11
09/S7 32
09/S6 62
09/S5 34
09/S4 60
09/S3 110
09/S2 126
09/S1 282
09/N1 135
09/N2 30
09/N3
08/S7 10
08/S6 17
08/S5 49
08/S4 61
08/S3 73
08/S2 352
08/S1 126
08/N1 197
08/N2 111
08/N3 0
07/S7 38
07/S6 42
07/S5 29
07/S4 47
07/S3 29
07/S2 92
07/S1 88
07/N1 96
48
07/N2
06/S5 10
06/S4 13
06/S3 37
06/S2 38
06/S1 19
06/N1 30
17
06/N2
05/S4 8
05/S3 5
05/S2 0
05/S1 0
05/N1 14
6
05/N2
04/S4 5
04/S3 7
0
0
04/N2
04/N1
03/S4 0
furrow
furrow
SOUTH
NORTH
242 deg
[NS 95601 10471]

Fig 2


DAER 2010
Site No 86
FLINT
furrow
17/S4 0
17/S3 0
17/S2 0
17/S1 0
17/N1 0
17/N2 0
16/S4 3
16/S3 0
16/S2 0
16/S1 0
16/N1 0
16/N2 0
15/S4 3
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15/S2 0
15/S1 2
15/N1 0
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14/S6
14/S5
14/S7 0
0
0
14/S4 3
14/S3 0
14/S2 2
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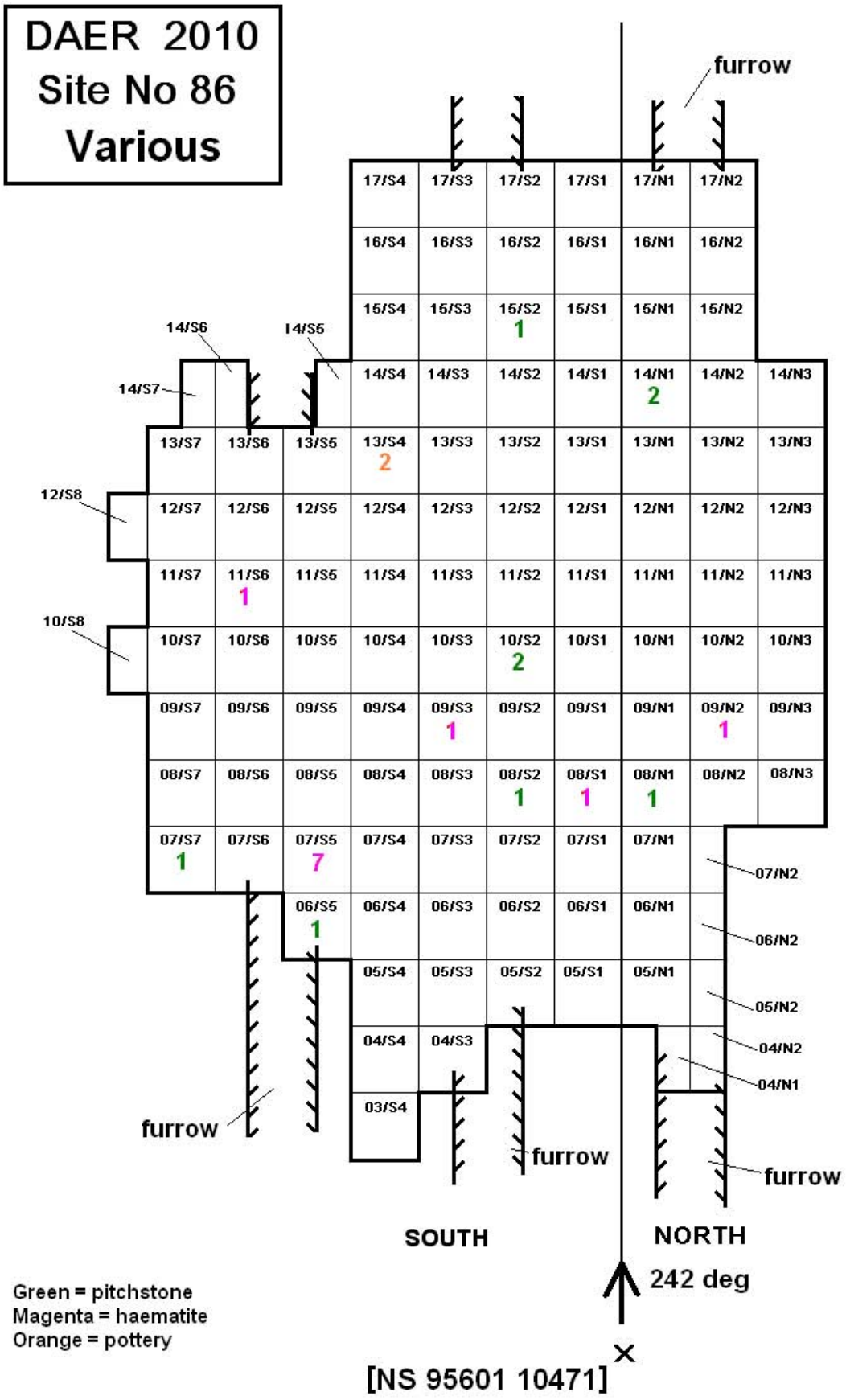
14/N3 0
13/S7 0
13/S6 0
13/S5 0
13/S4 2
13/S3 2
13/S2 2
13/S1 3
13/N1 1
13/N2 0
13/N3 0
12/S8
0
12/S7 2
12/S6 4
12/S5 3
12/S4 4
12/S3 7
12/S2 4
12/S1 0
12/N1 1
12/N2 1
12/N3 0
11/S7 9
11/S6 6
11/S5 2
11/S4 4
11/S3 7
11/S2 2
11/S1 0
11/N1 2
11/N2 0
11/N3 0
10/S8
6
10/S7 54
10/S6 34
10/S5 16
10/S4 8
10/S3 4
10/S2 1
10/S1 2
10/N1 0
10/N2 0
10/N3 0
09/S7 4
09/S6 9
09/S5 3
09/S4 3
09/S3 7
09/S2 5
09/S1 15
09/N1 3
09/N2 1
09/N3 0
08/S7 0
08/S6 0
08/S5 5
08/S4 5
08/S3 11
08/S2 25
08/S1 10
08/N1 21
08/N2 1
08/N3 0
07/S7 2
07/S6 1
07/S5 5
07/S4 0
07/S3 1
07/S2 8
07/S1 8
07/N1 8
1
07/N2
06/S5 0
06/S4 4
06/S3 12
06/S2 3
06/S1 4
06/N1 1
1
06/N2
05/S4 0
05/S3 1
05/S2 0
05/S1 0
05/N1 1
1
05/N2
04/N2
04/S4 1
04/S3 1
0
0
04/N1
03/S4 0
furrow
furrow
SOUTH
NORTH
242 deg
[NS 95601 10471]

Fig 3


DAER 2010
Site No 86
Various
furrow
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16/S4 16/S3 16/S2 16/S1 16/N1 16/N2
15/S4 15/S3 15/S2 15/S1 15/N1 15/N2
1
14/S6
14/S5
14/S7
14/S4 14/S3 14/S2 14/S1 14/N1 14/N2 14/N3
2
13/S7 13/S6 13/S5 13/S4 13/S3 13/S2 13/S1 13/N1 13/N2 13/N3
2
12/S8
12/S7 12/S6 12/S5 12/S4 12/S3 12/S2 12/S1 12/N1 12/N2 12/N3
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1
10/S8
10/S7 10/S6 10/S5 10/S4 10/S3 10/S2 10/S1 10/N1 10/N2 10/N3
2
09/S7 09/S6 09/S5 09/S4 09/S3 09/S2 09/S1 09/N1 09/N2 09/N3
1
1
08/S7 08/S6 08/S5 08/S4 08/S3 08/S2 08/S1 08/N1 08/N2 08/N3
1
1
1
07/S7 07/S6 07/S5 07/S4 07/S3 07/S2 07/S1 07/N1
1
7
07/N2
06/S5 06/S4 06/S3 06/S2 06/S1 06/N1
1
06/N2
05/S4 05/S3 05/S2 05/S1 05/N1
05/N2
04/S4 04/S3
04/N2
04/N1
03/S4
furrow
furrow
furrow
SOUTH
NORTH
242 deg
Green = pitchstone
Magenta = haematite
Orange = pottery
[NS 95601 10471]

Fig 4

Features (Fig 1) and charcoal

A sparse overall spread of charcoal fragments covered the excavated area, including at the interface of the former soil with the overlying peat. A number of discrete shallow charcoal-enriched features were found. Some of these were the bases of pits - possibly for posts or stakes, others were more amorphous in character. Good identifiable and dateable charcoal has been recovered from soil samples by sieving and, in two areas; small fragments of hazel nut shell were also retrieved.

See appendix I for charcoal quantities which will hopefully be submitted for analyses and in some cases C14 dating.

F1 (Pl. 3 & Fig 1)

A sub circular pit measuring 0.4m by 0.3m and by 75mm deep below the level of the till, it had gradual sides and a flat base. A flint flake was found in the pit.

F2 (Pl. 3 & Fig 1)

A sub circular pit measuring 0.4m by 0.3m and 100mm deep, it had gradual sides and a flat base. Both flint and chert were found in the upper fill but this may have been part of the general scatter of lithic over the site, however, in the lower fill of the pit, a piece of flint, about thirty tiny flakes of chert and six tiny fragments of calcined bone were recovered.

F3 (Pl's 4 & 5)(Fig 1)

The feature was initially seen as an irregular shaped charcoal spread measuring c1.3m by 1m. Reddened burnt stone lay interspersed in the deposit. Two flint flakes and numerous tiny pieces of chert came from the fill of F3/F3a.

F3a

Lying below F3 there was an irregular shaped pit measuring 0.8m by 0.35m and by around 75mm deep. The sides were gradual and the base was flat. On both the sides and the base were small angular burnt stones.

F3b

The feature was quite evident as a charcoal filled pit measuring 100mm in diameter and narrowing down to 50mm and by 150mm deep. A chunk of chert was found in the fill.

F3c

Lying below F3 there was a shallow pit of 100mm diameter and which may have been a stone hole rather than an anthropogenic feature.

Note the orange coloured till in Pl 2 & Pl 3 and which makes charcoal and burnt features stand out from the distinctively coloured background.

F4 (Fig 1)

A spaced out cluster of ten probable features, possibly stake holes, only just survived in the till, they measured from 50mm to 100mm in diameter and by only about 50mm deep. The almost ephemeral tiny pits were detected by the presence of darkened soil against the orange

coloured till; the inclusion of microscopic charcoal was indicated by the colour of the features having a greyish hue. A chert chunk came from one of the larger pits.

F5 (Fig 1)
The feature was an oblong pit with gradual sides and measuring 0.5m by 0.15m wide and about 75mm deep. One end appeared to have a slightly deeper bowl shape. Hazel nut shell was found in the fill. Two small Early Neolithic sherds, two flints and three chert came from the fill.

F6 (Pl 4 & Fig 1)
The feature was a circular bowl shaped pit measuring 0.25m in diameter and by 50mm deep. A flint flake and nine flakes of chert plus two chert microliths were recovered from the charcoal fill.

F7 (Pl 7 & Fig 1)
The feature was clearly evident by its charcoal fill and measured 75mm diameter by only 50mm deep.

F8 (Fig 1)
This was the same as F7 but slightly shallower at 40mm.

F9 (Fig 1)
The feature was an irregular shaped pit with a 'tail' on one side, it measured 1.3m in total length by 0.6m wide, it had both longer and shorter gradual sides and reached a depth of 250mm in the main pit while the 'tail' was 100mm deep. Hazel nut shell was found in the fill along with a flint flake and two chert flakes.

F10 (Fig 1)
The feature was a bowl shaped pit measuring 0.2m in diameter by 75mm deep.

Features discussion
While none of the pits could be described as post holes with confidence, the smaller examples appear to fit the category as stake holes. The finding of both Early Neolithic and Mesolithic artefacts respectively in the fills of two pits; F5 and F6, is discussed below but may be taken as evidence of Neolithic/ Mesolithic transition. F3 may have been directly associated with fire, perhaps as a cooking pit since the disposition of the burnt stone within it appeared to form part of the original fill.

The grouping of features as found obviously represents a zone of activity and the excavators realise that further features may exist in the surrounding unexcavated ground, however, the logistics of the project meant that further work was not feasible, and that the 'chasing' of artefacts as a strategy of excavation is not necessarily the best approach.

Given the poor preservation of some of the recorded features it is reasonable to suggest that others may not have survived in the excavated area, certainly the cluster of pits around F4 were only just recognisable while the other and deeper features were easier to detect, principally by the presence of charcoal. It is conceivable that over several millennia and prior to peat formation and podsolisation, all manner of local conditions may have cause bio-turbation of the original soil and erased contexts such as charcoal scatters and shallow pits.

That being said, the extant features do offer some clues as to their purpose and possibly even date.

Plate 1

Plate 1a

Plate 2

Plate 3

Plate 4

Plate 5

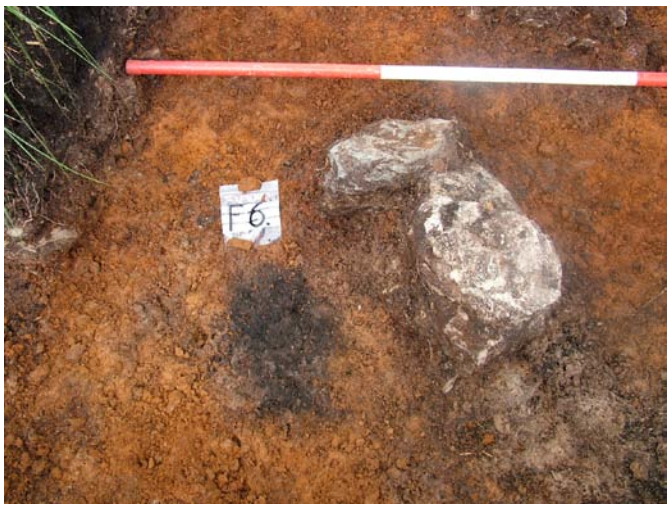

Plate 6

Plate 7

Plate 8

Plate 9

Plate 10

Plate 11

Plate 12

Plate 13

Plate 14

Plate 15

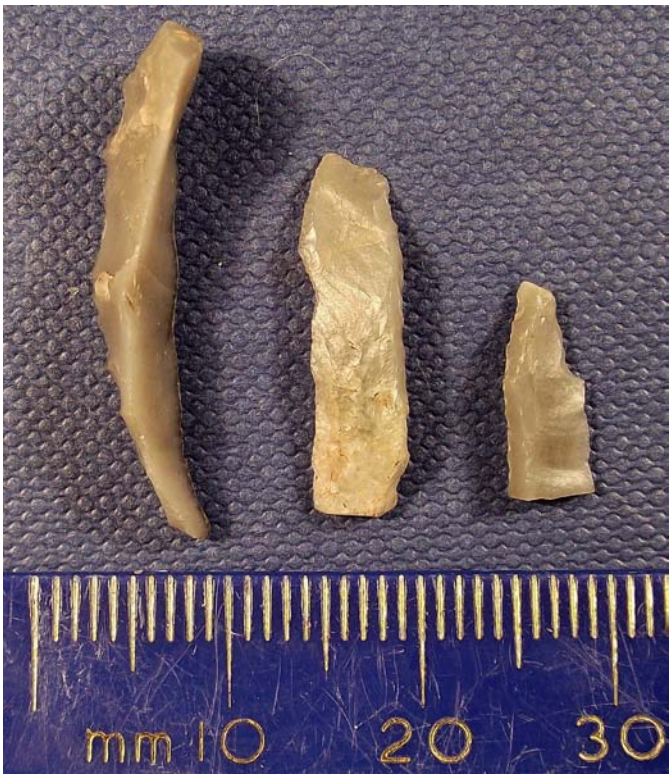

Plate 16

Plate 17

Plate 18

Plate 19

Plate 20

Plate 21

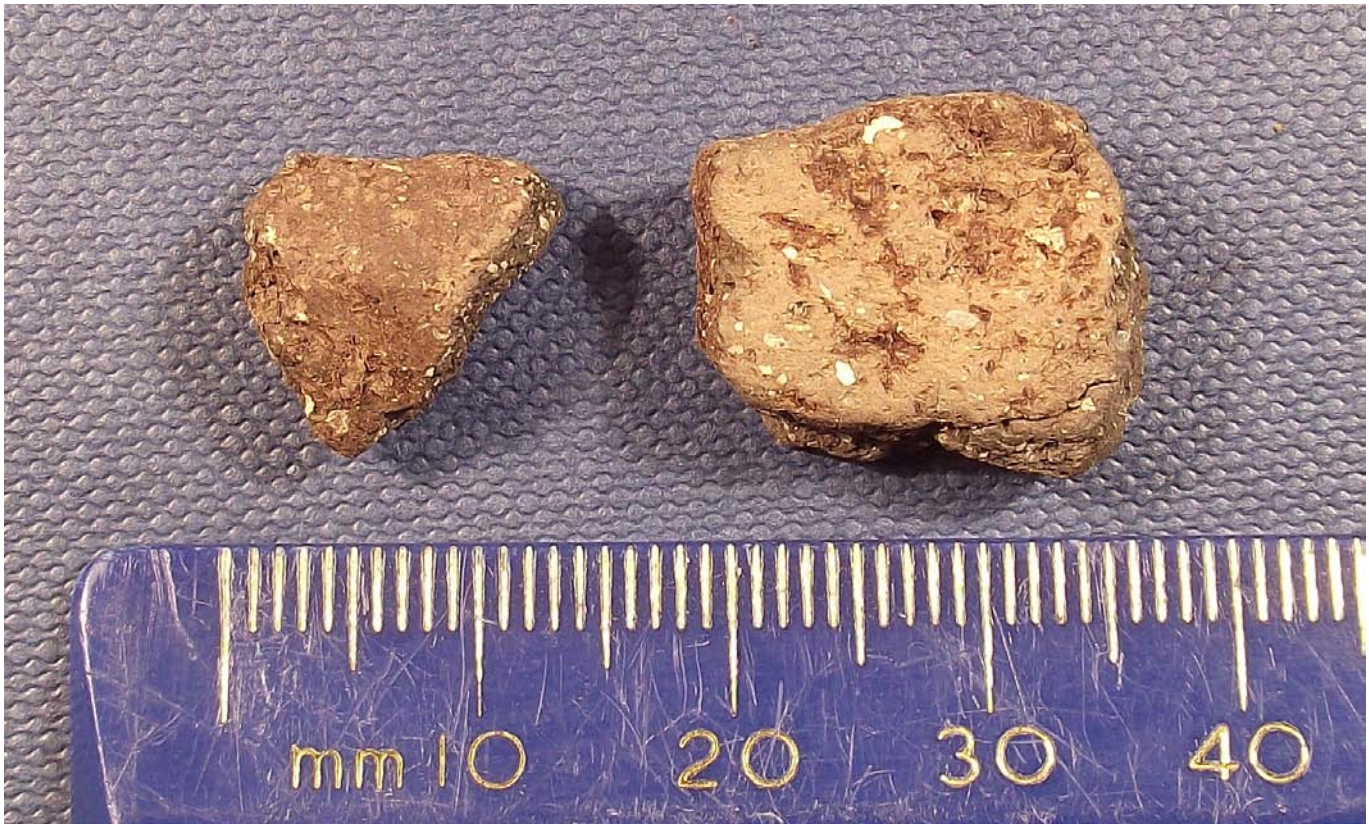

Plate 22

Plate 23

The small remnant pits around F4 could be interpreted as stake holes as there is little other than such an explanation to be offered for them. A grouping of stake holes in such a pattern may simply be used for keeping something off the ground? However the flint concentration in that area (Fig 3) may be indicative of an activity involving both the flint and the features.

The pits F1, F2, F5, F6 and F10 could have been post holes although this is uncertain, they do not for example form any specific pattern on the ground and no packing stones were found with them. Charcoal identification may help but if it is shown to be of mixed species then floor sweepings gathering in open pits may be the favourable interpretation, since hazel nut shell was found within F6 and burnt bone was recovered from F2.

F9 is a distinctive shape with its long 'tail' on one side; such amorphous and perhaps inexplicable pits are often found in pre historic excavations, and hopefully in this case charcoal identification will help with an understanding of the feature. The presence of seven pieces of Haematite nearby (Pl's 7 & 8) (Grid 7/S/5), and which are derived from three pebbles of that substance may be significant.

F3 (Pl 2 & 3) charcoal spread with the pit (F3a) below containing burnt rock strongly suggests a fire site, perhaps within a pit. The small pits surrounding it; F3b, F7 and F8 appear to be good examples of stake holes which survived well in their penetration of the till, charcoal was recovered from F7 and F8. The features are suggestive of holding something over or near to a fire source. The small pit F3c and which lay below the charcoal spread may have been a stone hole, rather than a deliberate feature. The preponderance of both flint and chert in the vicinity of the features indicates a focal point on the site.

In the absence of any acceptable post holes but in view of the putative fire site and the similarly described stake holes, firstly, a formal building such as an Early Neolithic domestic structure is not provable, even although several aspects of that period are represented on the site, secondly however, a Mesolithic camp site appears to offer a solution to the features and at least some of the artefactual evidence (below). The implication of all this is discussed further below.

The finds discussion

Full list in Appendix II

Lithic

Finds generally were retrieved from the upper half of the ogs and often at the interface with the peat above, however some items lay in the basal layer of peat while a few others were found in and below the iron pan crust.

The range of lithology present is unusually large and includes two types of radiolarian chert (hereinafter described as chert) which are new to the work of BAG; these are distinctive grey (Pl 8) and green coloured cherts, and some examples have radiolaria evident in the samples (Pl's 9 & 10). The more commonly found chert is a blue/grey to brown and black colour, often having these hues intermixed in the same sample (Pl 11). The common types usually dominate assemblages numerically in this part of Scotland.

Flint, pitchstone, chalcedony and possibly agate were also present, all of these being exotic lithic types.

Burnt greywacke stones occurred over the site. Their red to pink discolouration is less pronounced than usual; this is a result of leaching by acidity which percolates down through the peat overlying the site. At several locations, stones were observed to have only their uppermost surfaces reddened. It is inferred that these stones were in the ground when burnt by fire above them, the heat only affecting the upper surfaces.

In addition, small greywacke pebbles and gravel, discoloured pink by heating, and which was recovered in the residues obtained by wet-sieving, clearly show that widespread burning on the ground had taken place.

Only the most obvious lithic artefacts (tools) are highlighted in the catalogue since the Group do not have the expertise for detailed lithic work, where microliths are given, only items with obvious edge modification were considered as tools, however, many more pieces may be seen to have edge wear and expert analyses will determine whether this is evidence of deliberate use or otherwise. Cores, mostly amorphous were abundant as were microliths, the latter in both flint and chert.

Chert Fig 2

Overwhelmingly, the finds recovered were fragments of Radiolarian Chert. These consisted mostly of debitage, almost 10,000 pieces being recovered. Of these, 29% consisted of a rough-fracturing variety in various shades of dark grey; 19% were of smooth-fracturing dark greenish grey chert, 6% were 'Grey chert' and 1% was 'Red chert'. The remainder - 44% - were too small to be classified with confidence. The chert on this project has been tentatively described by type within the overall genre; this may be of assistance to future specialists.

The number of chert pieces in a square metre grid was generally less than 100 but there were possibly significant concentrations centred on adjoining grids 08/S/1-2; 10/S/5-7 and 14/S/1 – N/1, and it will be seen from Fig 2 that a high concentration existed in the middle of the trench with a dramatic drop off in numbers, sometimes to zero around the edges. Furthermore the objects identified as being microliths correspond to that picture of distribution but with two groupings; one in the main region of the features and the extraordinary quantity recorded from the area further upslope and where the huge concentration of grid 14/S/1 was found. The grid here and its conjoining ones were wet sieved due to the mass of lithic seen in the ground (Pl's 13 & 14) and although it may appear that the sieving accounted for the high numbers collected from this area, this was not entirely the case, as other parts of the site produced large quantities and which were not wet sieved, all those items were retrieved by trowelling only.

At least 161 chert microliths were recovered (Pl's 15 & 16), only pieces with obvious modification along one or both sides has been labelled 'microlith'. Included in that number is a quantity of broken microliths and again, these all have some modification by abrasion or perhaps by knapping?

Experimentation by T Ward shows that the modification of micro blades can be achieved in seconds by stroking the blade edge across a stone. Identical facets are created to those found on the site. Once a blade is made, the final modification is a rapid process and this may account for large numbers of microliths being found in close proximity. It may also account for the sometimes high numbers of apparent losses, or discards? since in many cases the microliths appear to be useless, for example having curved profiles, or having very steep sides on both the unmodified cutting? side, and on the hafting edge which has been abraded. It is possible that many pieces having been manufactured were then immediately rejected by the knapper. On the other hand, there does appear to be many examples of what might be considered to be good microliths, and when viewed at high magnification, these are often seen to be edge worn or damaged, possibly but not necessarily by use. Furthermore broken microliths are often found, the question arises were they broken during manufacture or by use? Matters such as these may be resolved by expert analyses of the objects.

The correlation between high numbers of chert and the features appears to be good (Fig 1 & 2), and in due course when the material is expertly analysed for artefact type and distribution then a more complete picture will emerge, this may be particularly true of the core distribution. The four microliths found in features F2 and F6 may simply be the result of high numbers being present in those areas anyway.

Without doubt, Site 86 can demonstrate a Mesolithic presence by the lithic and perhaps by the series of apparently associated features, whether they are linked or not may be proved in the future by C14 dating. The features cannot be attributed with a function but it does however seem likely that they are connected with a habitation, even though any shape or form to a shelter or structure is not demonstrated by the plan of various pits.

It may be possible to establish site activity such as knapping zones when the assemblage is fully assessed, and again, the locations of cores may be particularly helpful, however the excavators are conscious that the concentrations of chert, especially that in grid 14/S/1 may be the product of dumping debitage. Few conclusions can be reached at this stage in the post excavation process.

The entire chert assemblage retrieved amounted to c9883 pieces and this was supplemented by about 410 pieces of flint, the latter being about 4% of the former. However, the numerical statistic is somewhat irrelevant since much of the material was micro debitage.

Flint Fig 3

Flint, mostly in shades of pale brownish grey, occurred in most metre grids but usually fewer than 10 fragments were present in the grids. However, there were significantly higher numbers in areas centred on grids 08/S/2 and 10/S/7. Similar to the situation of the chert, higher concentrations of flint appear to have been in the vicinity of the features and like the chert microliths, two flint concentrations are evident; one near the putative features around F4 and the other in the more conclusive area of pits and burning around F3. In grids 10/S/4 to 10/S/7 the higher ration of flint and chert seem to make a convincing case that both lithic types are indeed associated and that they have been dropped near the features as a single event in time.

Some of the flint may be described as Neolithic and the two scrapers (Pl 1); a round one and a long end scraper found side by side in the furrow (Pl 1a) appear not to be Mesolithic types. Of fundamental significance will be the relationship of flint to chert (and pitchstone below) on this site, and of course the date of the features, to determine if the site has been occupied in two different cultural periods or one transitional one.

Large pieces of flint appear to have been discarded and which may seem an unnecessary extravagance if the users were Mesolithic people, however, the excavators are wary of falling into an assumption that large equals Neolithic and small equals Mesolithic. The reason for that caution is for example that Site 114 (to follow) appears to be exclusively Mesolithic in character but there is series of large flint flakes (Pl 17), many of which have edge wear showing they were used as knives. Once again, attention is drawn to the need for expert analyses to be done before good conclusions are reached.

Pitchstone

A total of 9 fragments of pitchstone were found, scattered in 7 grid squares. They certainly correlate well with concentrated chert distribution, and the majority of the pitchstone was also found fairly near to the features grouping, it is therefore tempting to think that the proximity is not coincidental.

Pitchstone is still problematic in understanding its purpose; however, evidence is stacking up on an annual basis on BAG projects in South Lanarkshire, where the pitchstone is found in close proximity and even in actual association with the Early Neolithic period, but it has not been found in a contextualised situation with other pre historic periods represented in the area. That being said, this project has now, and for the first time, produced pitchstone (other sites forthcoming) in an apparent alliance with Mesolithic artefacts. The tiny pitchstone core (Pl's 18 & 19) seems to have been the product of micro blade reduction and may therefore be a Mesolithic object, this would be the first instance of secure evidence of pitchstone procurement and use in the Mesolithic of South Lanarkshire. This would have the effect of pulling a previously recognised Neolithic object type – back into the Mesolithic period.

An interesting phenomenon has been observed when retrieving some pitchstone from the ground at Daer; this has been a colour change which takes place rapidly, within a few minutes of being exposed. The pitchstone changes from the usually found black colour to a light grey and must be the result of oxidisation upon being released from the ground and introduced to the atmosphere. The proof that the grey examples of pitchstone are only that colour superficially on their surface, is betrayed by microscopic chips showing the fresh black material below. This is an important observation since the grey pitchstone which is only occasionally found elsewhere in South Lanarkshire, is not a different lithology from the black samples. This has already been recognised by Torben Ballin (Ballin & Ward 2008) and interestingly with Daer pitchstone specimens from a previous BAG project. Examples of the grey coloured pitchstone were soaked to observe whether they turn back to a black hue, they did not, showing that the transformation was a one way process.

Haematite

Thirteen fragments of haematite were recovered - in 5 grid squares. Of these, 7 were found in grid 07/S6.

When pieces of haematite were found by field walking the furrows, some doubt was cast as to whether it was archaeologically pre historic or post medieval in age. The reason for this is that haematite is a ubiquitous find type in post medieval settlements in the Southern Uplands of Scotland and especially from 17th century bastle house sites, of which there are three excavated examples in the Daer valley (Ward 1998).

However, when it became apparent in excavation that it was sealed below the peat, its pre historic antiquity was proved. Nevertheless, this site has type objects of both the Mesolithic and Early Neolithic periods, therefore to which of these era's it belonged to was and still is, in doubt. (That being said, in Sites No 114 and 123 nearby and which follow, the evidence is overwhelmingly in favour of the haematite there being used exclusively in the Mesolithic period).

The pieces of haematite (Pl's 20 & 21) have clearly been rubbed on stones (see Site 114 for rubbing stone) to obtain a powder; this has resulted in striae and facets (Pl 17) being formed on the soft maroon coloured stones. The assumption that its use was for keeling sheep as in the post medieval sites cannot apply here. Its use as a colouring agent seems beyond doubt and parallels for using 'red ochre' in the Mesolithic period come from burials, especially those found in southern Scandinavia (Larsson, 2004) where skeletons have been found with the substance scattered around them, often near the head, torso and legs. It is unlikely that proof of its use in Daer valley will ever be known but personal body adornment for the living is also a possibility.

The material occurs widely as veins cutting the rocks of the Southern Uplands of Scotland - as described by Peach and Horne (1899) (HMSO 1971):

'Iron.-Thin veins of haematite occur in association with the red radiolarian chert (Arenig) at various localities near the northern margin of the Silurian Tableland, as, for example, not far to the south of Lamancha in Peeblesshire; near Tewsgill in the Abington district, Lanarkshire; below the Nick of the Balloch near the head-waters of the Stinchar in Ayrshire; and on the Salachan Hill in the estate of Knockdolian in the same county, At none of these localities does this ore occur in workable quantity. A specimen of red haematitic shale, procured by the Geological Survey from this horizon at Noblehouse in Peeblesshire, was analysed by the late Professor George Wilson, with the following result (Explanation of Sheet 24, p. 23).

Peroxide of iron	38.42
Alumina	12.19
Clay	44.62
Alkaline salts with traces of lime and magnesia	4.77
	100.00
Iron, per cent.	27.0.

The significance of this is the association with haematite and the local chert; it is now known that the Mesolithic people were extracting chert from primary sources on the sides of hills in nearby Peeblesshire (Knox1986 – 2007, Ward 2012, and Ballin & Ward forthcoming) in the Southern Uplands of Scotland. It is possible that the exploration for and exploitation of chert by the hunter gatherers led to their discovery and use of local haematite also. The hypothesis is now being researched by BAG.

Pottery

Two tiny pottery sherds (Pl's 22 & 23) came from grid square 13/S4 in F5. One of these is a rim sherd. The sherds conform to Early Neolithic types now being found repeatedly in South Lanarkshire and in BAG projects (Johnston 1997, Ward various reports, BAG). However, the rim sherd from this site has been from an extremely small pot whose size is difficult to determine, the rim is neatly everted and the high quality of the pottery is seen in both sherds having the typical burnished surfaces. The rim sherd is 4mm in thickness while the other is 5mm thick; each sherd is speckled with tiny pieces of crushed clear and opaque quartz which has been included as temper. It is certain that both sherds are from the same vessel because of the consistency in the appearance of the material used in their manufacture.

This pottery, taken along with the pitchstone and possibly the pair of scrapers and other pieces of flint, may be taken as good evidence of the Early Neolithic period on the site. The amalgamation of artefacts from both Mesolithic and Neolithic may also be taken as evidence of the transition between the two periods.

Burnt Bone

The small quantity of calcined bone comes from tiny fragments which are considered too small for meaningful identification. The assumption is that they were part of food preparation and or consumption on the site and their presence in F2 may indicate the pit was full of floor sweepings.

Preliminary conclusions

The Mesolithic (and Neolithic) lithic materials and charcoal were laid over a soil profile which probably was up to 0.3m in depth. Throughout this probable brown forest soil were stones of various sizes but generally small ones. Fireplaces or burning occurred over the ground, discolouring the stones and gravel contained in soil that had been in contact with heat. Charcoal from fires was dispersed on the surface of the ground. Sub surface features were cut through the soil and in some cases into the till below, it is likely that some stakes were driven through the soil and into the till also.

The landscape was finally abandoned at the end of the Bronze Age c.3000 years ago when a significant climatic deterioration occurred. The ground became cold and wet causing moss to grow and ultimately form a bed of peat. This process continues at the present time.

When the peat layer was established, the resulting acidification of the ground water caused the stones within the former soils to weather due to leaching. The organic content of the former soil has also been dissolved out leaving only its mineral component thereby reducing its thickness to an average of 100mm. The clay from the leached rock and the former soil now tends to cement the surviving podsol into a compact mass. Iron compounds leached by the oxidising fluids were deposited as iron pan at the contact of the former soil with the underlying glacial till. The overall thickness of the soil profile has been reduced but the ground surface has certainly risen as a consequence of peat growth.

In both fieldwalking and excavation very few scrapers attributable to the Mesolithic period have been found. This strongly suggests that we are not dealing with areas which at that time were used for processing and cooking animal carcasses. Instead, we most likely have a knapping area with at least two preferred sites indicated by concentrations of lithic materials, especially micro debitage. Concentrations of lithic may alternatively be evidence of dumping zones rather than activity zones, detailed study of the assemblage may clarify that position.

The lithic debitage from Site 86 clearly indicates the range of lithic types being reduced. Blue/grey chert is dominant, as is the norm for most Clyde/Tweed sites, however the rarer brown and even rarer grey varieties of chert are also present as well as an extremely rare and currently unique olive green coloured type. Various colours of flint were also used perhaps indicating new types being brought to the site over time (?). Other chalcedony was also exploited such as agate but this may have been more experimentation than normal use, as the material is definitely of inferior knapping quality to the flint and chert.

The haematite introduces a new aspect of Scottish pre history, certainly in the Southern Uplands. It is believed the material was used as a colouring substance but its exact use is uncertain, however it may have been used as body adornment, for either the living – or the dead.

The features and some finds such as pottery and bone suggest habitation and that settlement activity appears to cover both the Mesolithic and Neolithic periods, but with most of the evidence coming in objects of the former time. However, if some of the lithic can be ascribed to the Neolithic with confidence, then taken with the pitchstone and pottery it would appear that the site is a combination of both cultures. The questions then arising are; were they contemporary or separated in time? and was the site occupied by the same or different people?

The questions may be in part or fully resolved when C14 dating has been done in due course and until then we have the intriguing possibility that Site 86 at Daer may represent the Transition between the Late Mesolithic and Early Neolithic periods.

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Site 86 Appendix I

Charcoal List

* = possible samples to be identified and C14 dated.

Site No	Context/Feature	Weight in grammes	Comment (Includes bag)
86	F1 upper	n/a	
86*	F1	19.0g	Hand picked
86	F1	16.5g	
86	F1	n/a	0.3mm flot
86	F2 upper	19.5g	Hand picked
86	F2 upper	106g	Charcoal spread + burnt
86*	F2 lower	60g	Hand picked
86	F2 lower	43g	
86	F2 lower	n/a	0.3mm flot
86	F3 >	25g	
86	F3 <	59.5g	
86	F3	n/a	0.3mm flot
86*	F3a	32.5g	Hand picked
86	F3a	59g	
86	F3a	n/a	0.3mm flot
86	F3b	4g	
86	F3b	n/a	0.3mm flot
86	F3c	8g	
86	F3c	n/a	0.3mm flot
86*	F5	15g	Hand picked + nut shell
86	F5	17.5g	+ fibre
86	F6	4g	
86	F6	n/a	0.3mm flot
86	F7	No charcoal, manganese in fill	
86	F8	3g	1mm >
86*	F9 upper	334g	
86	F9 upper	n/a	0.3mm flot
86*	F9 lower	81.5g	+ nut shell
86	F9 lower	n/a	0.3mm flot
86*	F10	9g	
86	F10	n/a	0.3mm flot

Site 86 Appendix II

Finds list

Site 86 Grid 3/S4 **No finds in this grid.**

Site 86 Grid 4/S3

Flint Flake, 1 of, pale yellowish brown [10 YR 7/4], 22mm long - possibly a blade; flake, 1 of, pale yellowish brown [10 YR 5/4] - possibly agate.

Chert

a	Large	Flake, 1 of, medium dark grey [N 4] with slight brown mottling, rough fracture.
b		Flake, 1 of, dark greenish grey [5 GY 4/1], smooth fracture.
c	Medium	Flakes, 5 of, rough fracture; one, partly altered, shows radiolarians.

Site 86 Grid 4/S4

Flint, 1 of, brownish grey [5 YR 4/1] with cortex, ?core.

Chert

a		Microlith, broken short, 11.5mm long, brownish grey [5 YR 4/1].
b	Medium	Flakes 4 of, grey, rough fracture, one with pale alteration shows Radiolarians.

Site 86 Grid 4/N1 (S half) **No finds in this grid.**

Site 86 Grid 4/N2 (N half) **No finds in this grid.**

Site 86 Grid 5/S1 **No finds in this grid.**

Site 86 Grid 5/S2 **No finds in this grid.**

Site 86 Grid 5/S3

Flint, 1 of, pale yellowish brown [10 YR 7/4], 32mm long - possibly a blade, slight edge damage.

Chert

a	Large	Chunk, 1 of, olive black [5 Y 2/1], rough fracture.
b	Medium	Flakes, 2 of, medium dark grey [N 4] with rough fracture. One with pale alteration -radiolarians.
c	Small	Flakes, 2 of, one with pale buff alteration.

Site 86 Grid 5/S4

Quartz - crystal, 10mm long.

Chert

a	Medium	Flakes, 4 of, grey with rough fracture, 2 with brown weathering.
b	Small	Flakes, 4 of, grey with rough fracture - one with pale buff alteration.

Site 86 Grid 5/N1

Flint, flake, 1 of, pale yellowish brown [10 YR 7/4].

Chert

a		Microlith, 1 of, 11mm long, medium grey [N 5].
b	Medium	Flakes, 4 of, medium dark grey [N 4] with pale alteration, rough fracture.
c		Flake, 1 of, dark greenish grey, [5 GY 4/1], smooth fracture.
d	Small	Flakes, 7 of, grey and pale grey.

'**Red chert**'

e		Flake, small, greyish red [5 R 4/2]..

Site 86 Grid 5/N2 (N half)

Flint, flake, 1 of, light brownish grey [5 YR 6/1].

Chert

a	Large	Chunk, 1 of, medium grey [N 5] - pale alteration, rough fracture.
b	Medium	Flakes, 5 of, medium dark grey [N 4], rough fracture.

Site 86 Grid 6/S1

Flint?, small flakes, 4 of, pale yellowish brown [10 YR 7/4].

Chert

a	Large	Chunk, 1 of, medium dark grey [N 4] with rough fracture, mostly altered to light brownish grey [5 YR 6/1] ('grey chert'). Traces of bedding - radiolarians visible.
b	Medium	Flakes, 9 of, medium dark grey [N 4] with rough fracture.
c		Flakes and chunk, 4 of, olive grey [5 Y 4/1], smooth fracture.
d	Small	Flake, 1 of, grey.

'**Grey chert**'

e		Flakes, 4 of, medium, light brownish grey [5 YR 6/1].

Site 86 Grid 6/S2

Flint, flakes, 3 of, 2 pale yellowish brown [10 YR 7/4], 1 pale grey.

Chert

a	Large.	Chunks, 2 of, medium grey [N 4], one with traces of bedding - rough fracture
b		Chunk, 1 of, olive grey [5 Y 4/1] - smooth fracture.
c	Medium.	Flakes, 17 of, medium grey and medium dark grey [N 4-5] - rough fracture, some with pale alteration.
d		Flakes, 4 of, dark greenish-grey [5 Y 4/1], smooth fracture - 2 have red-brown mottling.
e	Small	Flakes, 12 of, various types.

'**Grey chert**'

f		Flakes, 2 of, medium, light brownish grey [5 YR 6/1].

Site 86 Grid 6/S3

Flint, flakes, 12 of, pale yellowish brown [10 YR 7/4], 2 with trace of cortex.

Chert

a	Large.	Chunks, 3 of, dark grey [N 3] with rough fracture, two have pale alteration and visible radiolarians.
b	Medium.	Flakes, 15 of, medium grey and medium dark grey [N 4-5] - rough fracture, some with pale alteration.
c		Flakes, 4 of, dark greenish grey [5 Y 4/1], smooth fracture.

d	Small.	Flakes, 15 of, various types.

Site 86 Grid 6/S4

Flint, flakes, 4 of, 1 yellowish brown [10 YR 7/4] - 1 dark yellowish brown with trace of cortex; 2 very light grey [N 8].

Chert

a	Large.	Chunks, 2 of, with rough fracture, 1 dark grey, 1 grey with pale alteration and visible radiolarians.
b	Medium.	Flakes, 7 of, grey with rough fracture.
c	Small.	Flakes, 3 of, various.

'**Grey chert**'

d		Flake, 1 of, large, light brownish grey [5 YR 6/1].

Site 86 Grid 6/S5

Pitchstone; 1 of, dark grey and grey flow-lamination. One pale lamina has small-scale folds.

Chert

a	Large.	Chunk, 1 of, with smooth fracture, dark grey.
b	Medium.	Flakes, 8 of, rough fracture, medium dark grey [N 4].
c	Small.	Flake, 1 of.

Site 86 Grid 6/N1

Flint, flake, 1 of, greyish orange pink [5 YR 7/2].

Chert

a		Microlith, broken, 8.5mm long, dark grey [N 3].
b	Large	Chunk, 1 of, medium dark grey [N 4], with rough fracture, traces of bedding, pale alteration and visible radiolarians;
c	Medium.	Flakes, 10 of, grey, with rough fracture
d		Flakes 3 of, 2 dark grey, dark greenish-grey [5 Y 4/1], smooth fracture - all have red-brown mottling.
e	Small.	Flakes, 11 of, grey and pale grey.

'**Grey chert**'

f		Flakes, 4 of, medium, light brownish grey [5 YR 6/1].

Site 86 Grid 6/N2 (N half)

Flint, flake, 1 of, yellowish brown [10 YR 7/4].

Chert

a	Large.	Flakes, 2 of, dark greenish-grey [5 Y 4/1], with red-brown mottling, smooth fracture.
b	Medium.	Chunks, 4 of, with rough fracture, 2 with pale alteration and visible radiolarians.
c		Flakes, 5 dark greenish-grey [5 Y 4/1], with red-brown mottling, smooth fracture.
d	Small.	Flakes, 6 of, grey and pale grey.

Site 86 Grid 7/S1

Flint, flake, 1 of, brownish grey [5 YR 4/1], 7 small flakes, pale yellowish brown - 2 with cortex.

Chert

a		Microlith 14mm long, medium grey [N 5] with pale alteration, visible radiolarians.
b	Large	4, chunk and flakes, dark grey [N 4] with pale alteration, some with visible radiolarians.

c		Flake, 1 of, dark greenish-grey [5 Y 4/1] mostly converted to greyish black; pale alteration, smooth fracture.
d	Medium.	Chunks and flakes, 16 of, medium dark grey and dark grey [N 3,4] - rough fracture,
e		Flakes, 16 dark greenish-grey [5 Y 4/1], with smooth fracture - 5 with red-brown mottling,
f	Small.	Flakes, 43 of, grey, pale grey and a few bluish grey.

'**Grey Chert**'

g		Chunks, 1 large, 6 medium, light brownish-grey, rough fracture.

Site 86 Grid 7/S2

Flint, 8 of, 5 (3 large) - are dark yellowish brownish [10 YR 4/2], 3 are from white cortex. One is perhaps an end scraper with wear.

Chert

a		Microliths, 2 of, dark grey [N 3], up to 10mm long.
b	Large	Chunks and flakes, 10 of, medium dark grey and dark grey - [N 3,4], rough fracture, some with pale alteration and visible radiolarians.
c		Chunks, 3 of, dark greenish-grey [5 Y 4/1], 2 with brown mottling. smooth fracture
d	Medium.	Mostly flakes, 39 of, rough fracture, medium dark grey and dark grey - [N 3,4].
e		Flakes, 12 bluish-grey with smooth fracture; one with red-brown mottling,
f	Small.	Flakes, 26 of, grey, pale grey and a few bluish grey.

Site 86 Grid 7/S3

Flint, 1 of, pale greyish orange pink [5 YR 7/2].

Chert

a		Flakes, 3 of, possible blades. 1 medium dark grey, [N 4] rough fracture; 2 dark greenish-grey [5 Y 4/1] with brown mottling, smooth fracture.
b	Large	Chunks, 4 of, medium dark grey and dark grey - [N 3,4], with pale alteration and visible radiolarians.
c		Chunk, possible core, greyish black [N 2] and olive black [5 Y 2/1] mottled, with smooth fracture.
d	Medium.	Flakes and chunks, 10 of, medium dark grey and dark grey - [N 3,4], rough fracture.
e		Chunk and 3 flakes, dark greenish-grey [5 Y 4/1], one with olive black mottling, smooth fracture.
f	Small.	Flakes, 7 of, grey and pale grey.

Site 86 Grid 7/S4

Flint, 1 of, pale yellowish brown [10 YR 6/2].

Chert

a		Microlith, medium dark grey [N 4], 11mm long.
b	Large	3 of, chunks, medium dark grey - [N 4], rough fracture, with pale alteration and visible radiolarians.
c		Chunk, possible core, dark greenish-grey [5 Y 4/1] with smooth fracture - darker mottling.
d	Medium.	Mostly flakes, 6 of, medium dark grey [N 4],rough fracture.
e		Flakes, 7 of, dark greenish-grey [5 Y 4/1, smooth fracture.
f		Flakes, 10 of, dark greenish-grey [5 Y 4/1with brownish black [5 YR 2/1] mottling, smooth fracture.
g	Small.	Flakes, 17 of, grey and pale grey.

'**Grey Chert**'

h		Flakes, 2 of, medium, light brownish-grey [5 YR 6/1], smooth fracture.

Site 86 Grid 7/S5

Flint, 5 of, pale yellowish brown [10 YR 6/2]. One is bladelike- 36mm long, up to 10mm wide with signs of wear on one edge. Four small flakes.

Red ochre, 7 of, three are from large water worn pebble 63mm x 41mm x 30mm. Most of its surface is smoothed. Three others conjoin to form a rounded pebble 28mm x 29mm x 28mm - 2 facets. The last is part of a small rounded pebble.

Chert

a	Large	1 of, chunk, medium dark grey - [N 4], with pale alteration and visible radiolarians.
b		Chunks, 3 of, with smooth fracture; one light olive grey [5 YR 6/1];one is brownish grey [5 YR 4/1]; one is brownish black [5 YR 2.1].
c	Medium.	Flakes, 14 of, rough fracture, grey and dark grey [N 4].
d		Flakes, 6 of, smooth fracture; dark greenish-grey [5 YR 4/1].
e	Small.	Flakes, 5 of, grey and pale grey.

Site 86 Grid 7/S6

Flint, 1 of, pale yellowish brown [10 YR 6/2].

Chert

a	Large	Chunk, medium dark grey [N 4 with greyish black [N 2] mottling, rough fracture. Pale alteration, radiolarians.
b		Chunks, 2 of, olive grey [5 Y 4/1], smooth fracture. One is a core.
c		Chunk, 1 of, olive grey [5 Y 4/1], smooth fracture - signs of bedding.
d		Chunk, 1 of, dark grey [N 3], smooth fracture - perhaps a core.
e	Medium.	Flakes, 7 of, rough fracture, medium dark grey and dark grey [N 4 -5]. with brown mottling
f		Flakes, 7 of, dark greenish-grey [5 YR 4/1] with greyish black [N 2] mottling - smooth fracture,
g	Small	Flakes, 10 of, grey and pale grey.

'**Grey Chert**'

h		Chunks and flakes, 4 large, 3 conjoining, light brownish grey [5 YR 6/1] - rough fracture.
j		Flakes, 9 of , medium, 8 light brownish grey [5 YR 6/1], one pinkish grey [5 YR 7/1].

Site 86 Grid 7/S7

Pitchstone, 1 of, dark grey with elongated crystallites.
Flint, 2 of, pale yellowish brown [10 YR 6/2].
Chert

a	Large	2 of, chunks, dark greenish-grey [5 YR 4/1] with greyish black [N 2] mottling - smooth fracture.
b		Chunk, 2 of, medium grey [N 5], rough fracture and pale alteration.
c		Flake, 1 of, medium bluish-grey [5 B 5/1], smooth fracture.
d	Medium	Flakes, 2 of, medium grey [N 5], rough fracture - mostly altered to light brownish grey [5 YR 6/1]
e		Flakes, 11 of, medium grey [N 5] and dark grey [N 4], rough fracture.
f		Flakes, 3 of, dark greenish-grey [5 YR 4/1] with reddish brown mottling - smooth fracture,
g	Small	Flakes, 14 of, grey and pale grey.

'**Grey Chert**'

h		Chunks, 2 large, conjoining, light brownish grey, 1 medium [5 YR 6/1] - rough fracture.

Site 86 Grid 7/N1

Flint, 8 of, pale yellowish brown [10 YR 6/2]; 1 large, with cortex, 2 medium with cortex.
Chert

a	Microliths, 2 of, brownish grey [5 YR 4/1] one 22mm long.	
b	Large	Chunks, 6 of, chunks, dark grey - [N 3] and medium grey [N 5], rough fracture and pale alteration - radiolarians.
c	Medium.	Flakes, 19 of, medium grey [N 5], rough fracture,
d		Flakes, 16 of, dark greenish-grey [5 YR 4/1] with smooth fracture.
e		Flakes, 2 of, dark greenish-grey [5 YR 4/1] with darker mottling - one possibly a scraper.
f	Small.	Flakes, 46 of, grey and pale grey.

'**Grey Chert**'

g		Chunk, 1 large, 3 medium, light brownish grey [5 YR 6/1].

'**Red Chert**'

h		Chunk, medium, greyish brown [5 YR 3/2].

Site 86 Grid 7/N2 (N half)

Flint.		Flake, 1 of, pale yellowish brown [10 YR 6/2].

Chert

a		Microliths, 2 of, 10mm long, medium light grey [N 6]
b	Large	Chunks, 2 of, chunks, dark greenish-grey [5 GY 4/1] - smooth fracture.
c		Chunk, 1 of, dark greenish-grey [5 GY 4/1] with brownish black [5 YR 2/1] mottling - smooth fracture. Pale alteration - radiolarians.
d	Medium	Flakes, 10 of, medium dark grey and medium grey [N 4-5] - rough fracture. Three have pale alteration and show radiolarians.
e		Flakes, 10 of, dark greenish-grey [5 GY 4/1] - smooth fracture. Three have red-brown mottling like 'Red chert'. One is bladelike and may be a scraper.
f	Small.	Flakes, 23 of, represent all of above lithologies.

Site 86 Grid 8/S1

Flint.		Flakes, 10 of, 8 pale yellowish brown [10 YR 6/2], one, with cortex, moderate yellowish brown [10 YR 5/4]. one, bladelike, is dark yellowish brown [10 YR 4/2].
Red ochre		Chunk, 1of, part of a small rounded pebble.
Chert		
a		Microliths, 4 of. One, broken off, 27mm long, is dark greenish-grey [5 GY 4/1] with dusky yellowish brown [10 YR 2/2] mottling (=red chert). The others are small, pale grey.
b	Large	Possible scraper, 1 of, moderate yellowish brown [10 YR 5/4] with coarser and finer lamination. Abundant radiolarians.
c		Chunks, 5 of, with rough fracture; one dark grey [N 3]; 2 are medium dark grey [N 4] with yellowish brown alteration - conspicuous radiolarians.
d	Medium.	Flakes, 44 of, medium dark grey [N 5] and dark grey [N 4] - rough fracture,
e		Chunks and flakes, 8 of, with smooth fracture; dark greenish-grey [5 GY 4/1]. Six are elongated flakes, one 35mm long. Two pieces have red-brown mottling.
f	Small.	Flakes, 53 of, various types.
'**Grey Chert**'		
g		Flakes, 10 of, medium, rough fracture, light brownish grey [5 YR 6/1].
'**Red Chert**'		
h		Flake, medium, moderate brown [5 YR 3/4].

Site 86 Grid 8/S2

Pitchstone, medium grey [N 5] with flow-aligned dark phenocrysts?augite.
Flint, Flakes, 25 of, pale yellowish brown [10 YR 6/2] and grey, several with cortex.

Chert		
a		Microliths, 3 of - small, pale grey.
b	Large	Chunks and flakes, 17 of, with rough fracture; medium dark grey [N 4] and dark grey [N 3]; 5 with pale alteration have visible radiolarians.
e	Medium	Flakes, 161 of, medium dark grey [N 4] and dark grey, rough fracture, most with pale alteration.
d	.	Chunks and flakes, 11 of, with smooth fracture; olive grey [5 Y 3/2] and light olive grey [5 Y 5/2] - six have mottling of greyish red [5 R 4/2] or brownish black [5 YR 2/1].
e	Small.	Flakes, 144 of, grey and pale grey.
'Grey chert'		
f		Chunks and flakes, 3 large, 12 medium, light brownish grey [5 YR 6/1], mostly rough fracture.
'**Red chert**'		
g		Chunk, 1 of, large, greyish red [10 R 4/2] with pale bands. Abundant radiolarians. Cf. **8/S1b.**

Site 86 Grid 8/S3

Flint, Flakes, 11 of, 3 pale yellowish brown [10 YR 6/2]; 5 pale grey, 3 with cortex.

Chert		
a		Microlith, 1of - small, pale grey.
b	Large	Chunks, 6 of, medium dark grey [N 4], with rough fracture;

four, with pale alteration, have visible radiolarians.

c		Chunks, 3 of, dark greenish grey [5 GY 4/1], 2 with dark grey mottling, smooth fracture
d	Medium.	Flakes and chunks, 21 of, dark grey and medium dark grey [N 4-5] - rough fracture. Many have pale alteration.
e		Flakes and chunks, 27 of, mostly olive grey [5 Y 3/2] - 5 with dark grey mottling - smooth fracture;.
f	Small.	Flakes, 15 of, grey and pale grey.

Site 86 Grid 8/S4

Flint, Flakes, 5 of, pale yellowish brown [10 YR 6/2]; 2 with cortex.

Chert

a		Scraper, 1 of - dark grey.
b		?Scraper, 1 of - grey with pale alteration; visible radiolarians.
c	Large	Chunks, 4 of; medium dark grey [N 4] and medium grey [N 5].rough fracture with pale alteration - visible radiolarians.
d		Chunks, 6 of, olive grey [5 Y 6/1], 3 with dark grey [N 3] mottling - smooth fracture,
e	Medium.	Flakes and chunks, 11 of, rough fracture, 10 medium dark grey [N 4] - 5 have pale alteration.
f		Flakes, 15 of, mostly olive grey [5 Y 3/2] - with smooth fracture. Two flakes have darker mottling.
g	Small.	Flakes, 18 of, grey and pale grey.

'Grey chert'

h		Chunks and flakes, 1 large, 4 medium, light brownish grey [5 YR 6/1], mostly rough fracture.

Site 86 Grid 8/S5

Flint, Microlith, 1 of, pale yellowish brown [10 YR 6/2]. Flakes 4 of, pale yellowish brown [10 YR 6/2], one with cortex.

Chert

a	Large	Chunks, 6 of, with rough fracture; dark grey [N 3], with pale alteration - radiolarians.
b		Flakes and chunks, 5 of, dark greenish grey [N 4] one with blackish red mottling, smooth fracture.
c	Medium	Flakes and chunks, 17 of, medium dark grey [N 4] and medium gray [N5]; rough fracture.
d		Flakes, 7 of, olive grey [5 Y 3/2] - one with dark mottling; smooth fracture.
e	Small	Flakes, 5 of, grey and pale grey.

'Grey chert'

f		Chunks and flakes, 1 large, 2 medium, light brownish grey [5 YR 6/1], mostly rough fracture.

Site 86 Grid 8/S6

Chert

a	Large	Flakes and chunks, 4 of, dark greenish grey [5 GY 4/1], 2 with blackish red [5 R 2/2] mottliing - smooth fracture.
b	Medium	Flakes, 6 of, medium dark grey [N 4] and medium gray [N5]; rough fracture.
c	.	Flakes, 6 of, dark greenish grey [5 GY 4/1], 2 with dark mottling, smooth fracture.

'Grey chert'

d		Chunk, large, 1 of, light brownish grey [5 YR 6/1] - with smooth fracture.

Site 86 Grid 8/S7

Chert

a	Large	Chunk, 1 of, dark greenish grey [5 GY 4/1] - smooth fracture,
b	Medium.	Chunks, 6 of, dark grey [N 3], and olive black [5 Y 2/1]. with rough fracture.
c	Small.	Flakes, 3 of, medium dark grey [N 4].

Site 86 Grid 8/N1

Pitchstone, light brownish grey [5 YR 6/1], aphyric with thin paler flow-laminae showing small-scale folding.

Flint, 21 of, comprising 2 large chunks, brownish grey [5 YR 4/1] being parts of water-rounded pebbles with part cortex preserved and one similar chunk; two medium flakes with cortex; 13 small flakes in pale yellowish brown [10 YR 6/2] and 3 small flakes light grey [N 7].

Chert

a		Microliths, 2 of, 12 and 13mm long - dark grey.
b	Large	Chunks, 8 of; medium dark grey [N 4], with pale alteration; 2 have weathered edge, rough fracture
c		Chunks, 2 of; flakes; 4 of - possibly scrapers -three olive grey [5 Y 6/1], one with red-brown mottling, smooth fracture
d	Medium.	Flakes and chunks, 61 of, medium dark grey [N 4] and brownish grey [5 YR 4/1] - many have pale alteration; rough fracture.
e		Flakes and a few chunks, 41 of, mostly olive grey [5 Y 3/2] to dark grey [N 3 - five flakes have brown mottling - smooth fracture.
f	Small.	Flakes, 66 of, all of above types.

'**Grey Chert**'

g		Flakes, 5 of, medium, light brownish grey [5 YR 6/1], rough fracture.

'**Red Chert**'

h		Flake, 1 of, medium, moderate brown [5 YR 3/4] with part dark greenish grey [5 GY 4/1] - smooth fracture.

Site 86 Grid 8/N2

Flint, flake, 1 of, pale grey.

Chert

a		Microliths, 2 of, one 16mm long - medium dark grey [N 4] - smooth fracture, the other 13mm long, light grey [N 7], rough fracture.
b	Large	Chunks, 5 of, with rough fracture; medium dark grey [N 4], 3 have obvious radiolarians.
c		Flakes, 2 of; - olive grey [5 Y 6/1], one with red-brown mottling smooth fracture
d	Medium.	Flakes and chunks, 25 of, medium dark grey [N 4] and brownish grey [5 YR 4/1], rough fracture. Some have pale alteration.
e		Flakes, 27 of, with smooth fracture; mostly olive grey [5 Y 3/2] to dark grey [N 3]. Four flakes with brown mottling.
f	Small.	Flakes, 44 of, all of above types.

'Grey chert'

g		Flakes, 1 large, 5 medium, light brownish grey [5 YR 4/1].

Site 86 Grid 8/N3 No finds in this grid

Site 86 Grid 9/S1

Flint, Two blades, 1 pale yellowish brown [10 YR 6/2], 1 pinkish grey [5 YR 8/1];
2 possible scrapers, one with cortex, and 4 flakes pale yellowish brown; and
7 small flakes, pinkish grey [5 YR 8/1].

Chert

a		Microliths, 12 of, up to 16mm long - 2 have smooth-fracture, others are grey and medium dark grey [N 4] with rough fracture - 2 show abundant radiolarians.
b	Large	Chunks, 6 of, medium dark grey [N 4].with rough fracture and pale alteration showing radiolarians. One has coarser/fine lamination.
c		Flakes, 4 of; olive grey [5 Y 6/1], one with red-brown mottling, smooth fracture.
d	Medium.	Flakes and chunks, 144 of, rough fracture, medium dark grey [N 4] and brownish grey [5 YR 4/1]. Some have pale alteration.
e		Flakes and chunks, 22 of, mostly dark greenish grey [5 GY 4/1]with some dark grey [N 3] - smooth fracture. Seven flakes have brown mottling.
f	Small.	Flakes, 77 of, all of above types.

'Grey chert'

g		Flakes, 8 of, medium, light brownish grey [5 YR 4/1].

'**Red Chert**'

h		Flake, 7 of, medium, moderate brown [5 YR 3/4], 3 mottled with dark greenish grey [5 GY 4/1] - smooth fracture.

Site 86 Grid 9/S2

Flint, One small blade, pale yellowish brown [10 YR 6/2], 1 flake, pale yellowish brown; and 3 flakes, pinkish grey [5 YR 8/1].

Chert

a	Large	Chunks, 11 of, medium dark grey [N 4] to dark grey [N 3], rough fracture. Most have pale alteration and abundant radiolarians. One is almost completely altered to grey chert apart from dark grey streaks.
b		Chunks, 5 of; dark greenish grey [5 GY 4/1] - 2 with darker mottling, smooth fracture. Two have pale altered edge.
c	Medium.	Flakes and chunks 60 of, medium dark grey [N 4] and dark grey [N3]. Mnay have pale alteration. Rough fracture.
d		Flakes, 9 of, dark greenish grey [5 GY 4/1] - some with red -brown or dark grey mottling, smooth fracture.
e	Small.	Flakes, 30 of, all of above types.

'Grey chert'

f		Chunks and flakes, 10 of, medium, light brownish grey [5 YR 4/1].

'**Red Chert**'

g		Chunk, 1 of, large, mainly moderate brown [5 YR 3/4] with some dark greenish grey [5 GY 4/1] - smooth fracture.

Site 86 Grid 9/S3

Flint, One scraper, 7 flakes; in pale yellowish brown [10 YR 6/2] - some with pale cortex.
Red ochre, 1 facetted pebble, 33mm long.

Chert

a		Microliths, 2 of, 25 and 22mm long - in smooth-fracturing, grey.
b	Large	Chunks, 10 of, medium dark grey [N 4] and dark grey [N 3], rough fracture. Four have pale alteration - abundant radiolarians visible.
c		Chunks and flakes, 10 of; 7 are olive grey [5 Y 6/1], three are olive black [5 Y 2/1], one of these with red-brown mottling - smooth fracture.
d	Medium.	Flakes and chunks, 30 of, medium dark grey [N 4] and brownish grey [5 YR 4/1], rough fracture. Some have pale alteration.
e		Flakes and chunks, 23 of, mostly olive grey [5 Y 3/2] to dark grey [N 3], 6 have brown mottling, smooth fracture.
f	Small.	Flakes, 24 of, of above types.

'Grey chert'

g		Flakes, 11 of, medium, light brownish grey [5 YR 4/1].

Site 86 Grid 9/S4

Flint, One? broken blade brownish grey [5 YR 4/1], 2 flakes; in light brownish grey [5 YR 6/1].

Chert

a		Microliths, 2 of, 14 and 7mm long - the larger is in 'grey chert'.
b	Large	Chunks, 3 of, medium dark grey [N 4], pale alteration; rough fracture.
c		Chunks, 2 of, and 1flake, dark greenish grey [5 GY 4/1], smooth fracture.
d	Medium.	Chunks and flakes, 12 of, medium dark grey [N 4] and brownish grey [5 YR 4/1], rough fracture. Most have pale alteration - some show radiolarians.
e		Flakes and chunks, 14 of, olive grey [5 Y 3/2]and , dark greenish grey [5 GY 4/1], smooth fracture.
f	Small.	Flakes, 14 of, all of above types.

'Grey chert'

g		Flakes, 2 large, 6 medium, light brownish grey [5 YR 4/1].

'**Red Chert**'

h		Chunk and 3 flakes, brownish black [5 YR 2/1] - smooth fracture.

Site 86 Grid 9/S5 2/2

Flint, One, ?blade brownish grey [5 YR 4/1], 2 small flakes; in light brownish grey [5 YR 6/1].

Chert

a	Large	Chunks, 3 of, medium dark grey [N 4], pale alteration, rough fracture; one with abundant radiolarians.
b		Chunks, 4 of, dark greenish grey [5 GY 4/1] with darker mottling, smooth fracture.
c	Medium.	Chunks, 2 of, and 5 flakes, medium dark grey [N 4], rough fracture.
d		Chunks, 2 of, and 4 flakes, dark greenish grey [5 GY 4/1] - 3 of the flakes have dusky brown [5 YR 2/2] mottling; smooth fracture.
e	Small.	Flakes, 10 of, mostly smooth fracture.

'Grey chert'

f	Medium.	Flakes, 4 of, light brownish grey [5 YR 4/1].

Site 86 Grid 9/S6

Flint, One ?blade, brownish grey [5 YR 4/1], 1 chunk with pale cortex, 1 large flake, 6 medium and small flakes; in brownish grey and light brownish grey [5 YR 6/1]; 1 burnt flake.

Chert

a		Microlith, 17mm long, in smooth-fracturing chert
b	Large	Chunks, 2 of, medium dark grey [N 4] with rough fracture and pale alteration; - abundant radiolarians.
c	Medium.	Chunk, 19 flakes, medium dark grey [N 4], rough fracture.
d		Flakes, 14 of, olive grey [5 Y 3/2] and medium grey [N 5] -5 with darker mottling; smooth fracture.
e	Small.	Flakes, 36 of, various types including grey chert

'Grey chert'

f		Flakes, 1 large, 5 medium, light brownish grey [5 YR 4/1].

'**Red Chert**'

g		Chunk, 1 of, large, 2 flakes, medium, moderate brown [5 YR 3/4] with pale alteration - smooth fracture.

Site 86 Grid 9/S7

Flint, flakes 3 of; in brownish grey and light brownish grey [5 YR 6/1] - one with cortex.

Chert

a		Microlith, 8mm long, in rough-fracturing chert
b	Large	Chunk, 1 of, medium dark grey [N 4] with pale alteration - rough fracture - visible radiolarians.
c		Chunk, 1 of, medium dark grey [N 4]with dark brown mottle, smooth fracture.
d	Medium.	Flakes, 5 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture - most with pale alteration.
e		Flakes and chunks, 13 of, dark greenish grey [5 GY 4/1], 6 with dark mottling - smooth fracture.
f	Small.	Flakes, 9 of, mostly smooth fracture.

'Grey chert'

g	Medium.	Flakes, 2 of, light brownish grey [5 YR 4/1].

Site 86 Grid 9/N1

Flint, flakes 4 of; in brownish grey and light brownish grey [5 YR 6/1].

Chert

a		Microlith, 19mm long, in smooth-fracturing chert
b	Large	Chunks, 22 of, medium dark grey [N 4], pale alteration; rough fracture - most with visible radiolarians.
c		Chunks, 5 of, medium dark grey [N 4], smooth fracture.
d	Medium.	Flakes, 36 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture, most with pale alteration.
e		Flakes and chunks, 19 of, olive grey [5 Y 3/2] and medium grey [N 5] - - smooth fracture.
f	Small.	Flakes, 43 of, mostly rough fracture.

'Grey chert'

g		Flakes, 2 of, medium, light brownish grey [5 YR 4/1] - rough fracture.

'Red chert'

h		Flakes, 7 of, medium, dark greenish grey [5 GY 4/1] with greyish red [5 R 4/2] mottling - smooth fracture

Site 86 Grid 9/N2

Flint, flake 1 of; light brownish grey [5 YR 6/1].

'Red ochre' - fragment of haematitic, medium-grained, micacaeous sandstone.

Chert

a		Microlith, 16mm long, olive grey [5 Y 3/2] with brown mottle, smooth fracture .
b	Large	Chunk, 2 of, medium dark grey [N 4] - pale alteration; rough fracture
c		Chunk, 1 of, medium dark grey [N 4] - smooth fracture.
d	Medium.	Flakes, 3 of, medium grey [N 5] - one with pale alteration, rough fracture,
e		Flakes and chunks, 9 of, olive grey [5 Y 3/2] - smooth fracture.
f	Small.	Flakes, 6 of, smooth fracture.

'Grey chert'

g	Medium.	Chunk - possible core,1 of and 1 flake, light brownish grey [5 YR 4/1]. Both have smooth fracture.

'Red chert'

h		Flakes, 6 of, medium, dark greenish grey [5 GY 4/1] mostly replaced by greyish red [5 R 4/2] - smooth fracture

Site 86 Grid 9/N3

Chert

a		Microlith, 11mm long, in smooth-fracturing pale grey chert
b	Medium	Flakes, 7 of, olive grey [5 Y 3/2] - 2 with brown mottling, smooth fracture;

Site 86 Grid 10/S1

Flint, One blade, pale yellowish brown [10 YR 6/2], 1flake with pale cortex.

Chert

a		Microliths, 2 of, c.12mm long - both with smooth-fracture.
b	Large	Chunks, 9 of,; medium dark grey [N 4] - with rough fracture and pale alteration. Five have a thin irregular haematitic vein and may have

come from the same bed.

c		Flakes, 6 of; - olive grey [5 Y 6/1] - one with red-brown mottling - smooth fracture
d	Medium.	Flakes and chunks, 19 of, medium dark grey [N 4] and brownish grey [5 YR 4/1]- rough fracture. Some have pale alteration.
e		Flakes and chunk, 61 of, mostly olive grey [5 Y 3/2] to dark grey [N 3] - with smooth fracture. Three flakes with brown mottling.
f	Small.	Flakes, 37 of, all of above types.

Site 86 Grid 10/S2

Flint, Large flake - moderate yellowish brown [10 YR 5/4] with cortex; 9 medium flakes in grey and light brownish grey [5 YR 6/1], 3 small flakes.

Pitchstone; 2 of, dark grey and grey flow-lamination.

Chert

a		Microliths, 4 of, up to 28mm long, in smooth-fracturing grey chert
b	Large	Chunks, 17 of, medium dark grey [N 4] - with rough fracture and pale alteration. One large specimen is 90% altered to light brownish grey [5 YR 6/1] and has abundant radiolarians.
c		Chunks, 5 of, medium dark grey [N 4], with smooth fracture.
d	Medium.	Flakes, 23 of, medium grey [N 5] - several with pale alteration - rough fracture.
e		Flakes and chunks, 33 of, olive grey [5 Y 3/2] - 3 with brown mottling - smooth fracture.
f	Small.	Flakes, 51 of, mainly smooth fracture.

'Grey chert'

g	Medium.	Chunk and 6 flakes, light brownish grey [5 YR 4/1] - 4 have smooth fracture.

Site 86 Grid 10/S3

Flint, Flakes, 4 of - 1 moderate yellowish brown [10 YR 5/4]; 3 light brownish grey [5 YR 6/1].

Chert

a		Microliths, 2 of, 1 broken 12mm long, smooth-fracture.
a2		Flakes, 2 of, one smooth-, one rough-fracturing - with edge damage.
a3		Side scraper, medium dark grey [N 4], with smooth fracture.
b	Large	Chunks, 10 of, medium dark grey [N 4].pale alteration; rough fracture, most show radiolarians.
c		Chunks, 8 of, dark greenish grey [5 GY 4/1]], smooth fracture. One possible core.
d	Medium.	Flakes, 40 of, medium grey [N 5] - several with pale alteration rough fracture.
e		Flakes and chunks, 35 of, medium grey[N 5] and olive grey [5 Y 3/2], smooth fracture.
f	Small.	Flakes, 36 of, mostly with smooth fracture.

'Grey chert'

g		Chunk, flakes 8 of, medium, light brownish grey [5 YR 4/1], 2 rough-, 5 smooth-fracturing.

Site 86 Grid 10/S4

Flint, Flakes, 8 of - 1 moderate yellowish brown [10 YR 5/4]; 7 light brownish grey [5 YR 6/1].

Chert

a		Microlith, 1 of, 12mm long, in smooth-fracturing grey chert
a2		Flake, 1 of, smooth-fracturing - ?scraper with edge damage.
b	Large	Chunks, 3 of, dark grey [N 4], and pale alteration; rough fracture
c		Chunk, 1 of, medium dark grey [N 4], with smooth fracture.
d		Flakes, 3 of, 2 greyish red [5 R 4/2], 1 pale red [5 R 6/2], with rough fracture
e	Medium.	Flakes, 28 of, rough fracture, medium grey [N 5] - many with pale alteration.
f		Flakes and chunks, 34 of, with smooth fracture; medium grey [N 5] and olive grey [5 Y 3/2] - 4 with red-brown mottling.
g	Small.	Flakes, 40 of, mostly with smooth fracture.

'Grey chert'

h	Medium.	Chunk, flakes, 9 of, 1 large, 8 medium, light brownish grey [5 YR 4/1] - all are probably altered common chert, 3 rough-, 5 smooth-fracturing.

Site 86 Grid 10/S5

Flint, Microliths, 2 of, and 14 medium and small flakes - moderate yellowish brown - [10 YR 5/4] - several with pale cortex.

Chert

a		Microliths, 4 of, 3 in smooth-fracturing grey chert One 25mm long in rough-fracturing grey chert
a2		Side scraper, 1 of, in greyish black [N 2] smooth-fracturing chert
b	Large	Chunks, 22 of, most are medium dark grey [N 4] - pale alteration; rough fracture
c		Chunks, 14 of, medium grey [N 5], greyish black [N 2] and dark greenish grey [5 GY 4/1], with smooth fracture. At least 3 may be cores.
d	Medium.	Flakes, 37 of, medium grey [N 5] - many with pale alteration - rough fracture.
e		Flakes and chunks, 55 of, medium grey [N 5] and dark greenish grey [5 GY 4/1], - 7 with dark red-brown mottling, smooth fracture.
f	Small.	Flakes, 59 of, mostly with smooth fracture. .

'Grey chert'

g		Chunks and flakes 9 of, medium, light brownish grey [5 YR 4/1] rough and smooth -fracturing.

'Red chert'

h		Flakes, 3 of, large, moderate brown [5 YR 3/4] and greyish brown [5 GY 3/2], with smooth fracture.

Site 86 Grid 10/S6

Flint		Flakes, 34 of - 12 moderate yellowish brown [10 YR 5/4]; 16 light brownish grey [5 YR 6/1], 5 mainly white cortex.
Mudstone		Chunks, 6 of, greenish grey [5 GY 6/1] - unbedded - ? formerly reddish brown but bleached.

Chert

a		Microliths, 4 of, 3 in smooth-fracturing grey chert, one is brownish grey.
a2		Flakes, 4 of, showing retouch, perhaps scrapers, 1 medium dark grey [N 4] has rough fracture, the others - dark greenish grey [5 GY 4/1], 2 with olive black [5 Y 2/1] mottling, have smooth fracture
b	Large	Chunks, 14 of, mostly medium dark grey [N 4] with pale alteration - rough fracture
c		Chunks, 7 of, and 2 flakes, olive grey [5 Y 4/1] and dark greenish grey

[5 GY 4/1], three have with brown mottling. Smooth fracture.

d Medium. Flakes, 54 of, rough fracture, medium grey [N 5] - many with pale alteration.

e Flakes and chunks, 64 of, dark greenish grey [5 GY 4/1], and dark grey [N3] - a few with brown mottling; smooth fracture

f Small. Flakes, 54 of, mostly with smooth fracture.

'Grey chert'

g Chunks, 4 o large, one possibly a core, with abundant radiolarians and 21 medium flakes, light brownish grey [5 YR 4/1] - all are probably altered common chert, several are smooth-fracturing.

'Red chert'

h Flakes, 14 of, and 1 chunk - possible core, smooth fracture, moderate brown [5 YR 3/4]. Some pieces are partly dark greenish grey [5 GY 4/1]. A variant of the smooth-fracturing chert that may have been associated with red mudstones.

'Green chert'

k Chunks, 6 of, 3 large, 3 medium, dusky yellow green [5 GY 5/2], rough fracture, radiolarians.

Site 86 Grid 10/S7

Flint Microliths, 3 of, up to 20mm long, moderate yellowish brown [10 YR 5/4]. Flakes, large 10 of, bladelike - possibly scrapers with edge damage - 3 are light brown [5 YR 5/4-6; 4 are light brownish grey [5 YR 6/1], 2 are olive grey [5 Y 4/1]; one is mainly cortex. There are 7 medium-sized flakes in shades of the above and 34 small flakes. One chip in moderate reddish brown [10 R 4/6] is agate or possibly jasper.

Chert

a Microliths, 7 of, 6, up to 23mm long in rough-fracturing grey and pale grey; one, 19mm long, is in moderate brown [5 YR 3/4] smooth-fracturing chert = 'Red chert'.

a2 Flakes, 5 of, bladelike showing edge damage, possibly scrapers, 4 in medium grey [N 5], 1 in dark greenish grey [5 GY 4/1], smooth-fracturing chert

a3 Flake, in rough-fracturing grey. Found cemented by iron pan to bleached fragment of greywacke.

b Large Chunks, 18 of, with mostly medium dark grey [N 4], rough fracture and pale alteration; - most with visible radiolarians.

c Chunks, 6 of, medium dark grey [N 4] and dark greenish grey [5 GY 4/1], with smooth fracture. Several have pale alteration.

d Medium. Flakes, 158 of, medium grey [N 5] - many with pale alteration - rough fracture.

e Flakes and chunks, 81 of, medium grey [N 5] and olive grey [5 Y 3/2] - smooth fracture.

f Small. Flakes, 383 of, all types.

'Grey chert'

g Chunks and flakes - 5 large, 73 medium, light brownish grey [5 YR 4/1], smooth- and rough-fracturing varieties.

'Red chert'

h		Flakes and chunks, 1 large, 5 medium - smooth fracture, moderate brown [5 YR 3/4]. A variant of the smooth-fracturing chert - may have occurred in association with red mudstones.

Site 86 Grid 10/S7a (Below stones).

Flint Large flake - possibly scraper; a blade, 28mm x 8mm, ?with edge damage; 1 flake - cortex only, 3 medium and small flakes. In moderate yellowish brown [10 YR 5/4].

Chert

a	Large	Chunks, 2 of, light brownish grey [5 YR 6/1] with rough fracture and pale alteration; - abundant radiolarians.
b		Chunk, 1 of, olive grey [5 Y 4/1], with smooth fracture.
c	Medium.	Flakes, 7 of, medium grey [N 5] - some with pale alteration - rough fracture.
d		Flakes, 6 of, medium grey [N 5] and olive grey [5 Y 3/2] - smooth fracture.
e	Small.	Flakes, 6 of, smooth and rough fracture.

'Grey chert'

f		Piercer, 1 of, light brownish grey [5 YR 4/1]; smooth fracture.
g	Medium.	Flakes 7 of, medium, light brownish grey [5 YR 4/1] - with smooth fracture.

Site 86 Grid 10/S8 (North half)

Flint Flake - light brownish grey [5 YR 6/1].

Chert

a	Large	Chunks, 3 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture and pale alteration.
b		Chunk, 1 of, olive grey [5 Y 4/1], with smooth fracture.
c	Medium.	Flakes, 11 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture.
d		Flakes, 9 of, medium grey [N 5] and olive grey [5 Y 3/2] - smooth fracture.
e	Small.	Flakes, 7 of, smooth and rough fracture.

'Grey chert'

f	Medium.	Flake, light brownish grey [5 YR 4/1] - with smooth fracture.

Site 86 Grid 10/N1

Chert

a		Possible scraper with edge damage, brownish gray [5 YR 4/1].
b	Large	Chunks, 2 of, one medium grey [N 5], one medium dark grey [N 4] - rough fracture and pale alteration.
c		Flakes, 6 of, medium grey [N 5] and olive grey [5 Y 3/2] - 2 with brown mottling. Smooth fracture.
d	Small.	Flakes, 5 of, medium grey [N 5], smooth fracture.

Site 86 Grid 10/N2

Chert

a	Medium	Flakes, 2 of, medium grey [N 5], smooth fracture.
d	Small.	Flake, 1 of, medium grey [N 5], smooth fracture.

Site 86 Grid 10/N3

Chert

a		Possible scraper with edge damage, dark greenish grey [5 GY 4/1], smooth fracture.
b	Medium	Flakes, 3 of, medium grey [N 5], with rough fracture.
c		One chunk, possible core, 3 flakes, dark greenish grey [5 GY 4/1], with smooth fracture;

'Grey chert'

d		Flakes, 2 of, medium, light brownish grey [5 YR 4/1] - with smooth fracture.

'Red chert'

e		Flake, medium, brownish black [5 YR 2/1], pale alteration, smooth fracture.

Site 86 Grid 11/S1

Chert

a		Possible scraper with edge damage, medium dark gray [N 4], smooth fracture.
b	Large	Chunks, 2 of, 1 medium grey [N 5], 1 medium dark grey [N 4] - with pale alteration; rough fracture
c		One chunk, possible core, medium dark gray [N 4], with rough fracture.
d	Medium	Flake, 1 of, medium grey [N 5], rough fracture.
e		Flakes, 2 of, medium grey [N 5], smooth fracture.
f	Small.	Flakes, 4 of, medium grey [N 5], smooth fracture.

Site 86 Grid 11/S2

Flint Flakes, 2 of - light brownish grey [5 YR 6/1].

Chert

a	Large	Chunks, 3 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture and pale alteration.
b		Chunks, 2 of - one olive grey [5 Y 4/1], the other dark grey [N 3] - with smooth fracture.
c	Medium.	Flakes, 17 of, medium grey [N 5] and medium dark grey [N 4], some with pale alteration - rough fracture,
d		Flakes, 11 of, medium grey [N 5] and olive grey [5 Y 3/2] - one with red brown [5 YR 3/4] mottling - smooth fracture.
e	Small.	Flakes, 19 of, smooth and rough fracture.

'Grey chert'

f	Medium.	Flakes, 3 of, light brownish grey [5 YR 4/1] - with rough fracture.

'Red chert'

g		Flake, medium, greyish brown [5 YR 3/2] - smooth fracture.

Site 86 Grid 11/S3

Flint Chunk - possible core - in olive grey [5 Y 4/1] and 6 flakes and chunks in light brownish grey [5 YR 6/1].

Chert

a		Microlith, 11mm, brownish grey [5 YR 4/1].
a2		Possible scrapers, 4 of, with edge damage; medium grey [N 5] - one with pale alteration, rough fracture.

b	Large	Chunks, 6 of, medium grey [N 5] and medium dark grey [N 4] with pale alteration - rough fracture.
c		Chunks, 5 of, dark greenish grey [5 GY 4/1] - 2 are possibly cores - one heavily altered - smooth fracture.
d	Medium.	Flakes, 23 of, medium grey [N 5] and medium dark grey [N 4], some with pale alteration - rough fracture.
e		Flakes, 13 of, grey [N 5] and olive grey [5 Y 3/2] - with smooth fracture.
f	Small.	Flakes, 14 of, smooth and rough fracture.

'Grey chert'

g	Medium.	Flake, 1 of, light brownish grey [5 YR 4/1] - with smooth fracture.

Site 86 Grid 11/S4

Flint Chunk, in olive grey [5 Y 4/1]; 2 flakes in light brownish grey [5 YR 6/1]; one fragment of cortex.

Chert

a		Cores?, 2 of, 1 olive grey [5 Y 4/1], 1 dark grey [N 3] - smooth fracture.
a2		Possible scrapers, 4 of, with edge damage - dark grey [N 3] - smooth fracture.
b	Large	Chunks, 6 of, medium grey [N 5] and medium dark grey [N 4] - rough fracture and pale alteration.
c	Medium.	Flakes, 11 of, medium grey [N 5] and medium dark grey [N 4], some pale alteration - rough fracture.
d		Flakes, 15 of, medium grey [N 5] and olive grey [5 Y 3/2] - smooth fracture.
e	Small.	Flakes, 20 of, mainly smooth fracture.

'Grey chert'

f		Flakes, 7 medium - light brownish grey [5 YR 4/1] - 2 with rough fracture.

Site 86 Grid 11/S5

Flint Scraper, with edge damage, in olive grey [5 Y 4/1]; 1 flake in light brownish-grey [5 YR 6/1].

Chert

a		Microliths, 2 of, c.16mm long - 1 dark grey, smooth fracture, 1 pale grey
b	Large	Chunks, 2 of, medium dark grey [N 4] - pale alteration; rough fracture.
c		Chunks, 3 of, medium dark grey [N 4] - 2 with pale alteration - smooth fracture
d	Medium.	Flakes, 17 of, medium grey [N 5] and medium dark grey [N 4], most with pale alteration - rough fracture.
e		Flakes, 8 of, medium grey [N 5] and olive grey [5 Y 3/2] - smooth fracture.
f	Small.	Flakes, 4 of, mainly smooth fracture.

'Grey chert'

g	.	Chunks, 4 of, medium, light brownish grey [5 YR 4/1], with rough fracture. One cut by thin, dark grey veins.

Site 86 Grid 11/S6

Flint, flakes, 6 of, pale yellowish brown [10 YR 6/2].
Red ochre, 1 of - facetted chunk.
Chert

a	Large	Chunks, 7 of, medium dark grey [N 4], with pale alteration and all with abundant radiolarians - rough fracture. One is a possible scraper with edge wear.
b		Chunks, 3 of, light olive grey [5 YR 6/1] - smooth fracture.
c	Medium.	Flakes, 30 of, medium grey and dark grey [N 4-5] - rough fracture.
d		Flakes, 15, of, smooth fracture; brownish grey [5 YR 4/1] and olive grey [5 Y 4/1].
e	Small.	Flakes, 23 of, grey and pale grey.

Site 86 Grid 11/S7

Flint, 9 pieces of, pale yellowish brown [10 YR 6/2], 5 with traces of pale cortex. Three, including one large item 44mm x 30mm, are probably scrapers showing edge wear.
Chert

a	Possible piercer in grey smooth-fracturing chert	
b	Core, in grey smooth-fracturing chert	
c	Large	Chunks, 6 of, medium grey [N 5] and dark grey [N 4], with pale alteration; all with visible radiolarians - rough fracture.
d		Chunks, 3 of, 2 are olive grey [5 YR 6/1]; one is medium dark grey [N4] - smooth fracture.
e	Medium.	Flakes, 34 of, medium grey and dark grey [N 4-5 - rough fracture.
f		Flakes, 14, of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture.
g	Small.	Flakes, 35 of, grey and pale grey.

'Grey chert'

h		Chunk, large, in pale yellowish brown [10 YR 6/2] and 5 flakes in light brownish grey [5 YR 4/1] - rough fracture.

'Red chert'

j		Flakes, 2 of, moderate brown [5 YR 3/4] - smooth fracture.

'Green chert'

k		Chunk, 2 of, large, in dusky yellow green [5 GY 5/2], with smooth fracture - radiolarians visible.

Site 86 Grid 11/N1

Flint, flakes, 2 of, pale yellowish brown [10 YR 6/2].
Chert

a		Microlith, 10mm long - medium grey [N 5], smooth fracture.
b	Large	Chunks, 3 of, medium dark grey [N 4], with pale alteration. One is a possible scraper with edge wear - rough fracture.
c	Medium.	Flakes, 7 of, medium grey and dark grey [N 4-5]- rough fracture.
d		Flakes, 3, of, brownish grey [5 YR 4/1] - smooth fracture.
e	Small.	Flakes, 3 of, grey.

'Red chert'

f		Chunk, 1 of, medium, mainly moderate brown [5 YR 3/4] - smooth fracture.

Site 86 Grid 11/N1 No finds in this grid

Site 86 Grid 11/N3

Chert

a	Large	Chunks, 2 of, medium dark grey [N 4], with pale alteration, rough fracture. One is a possible core.
b	Small	Flake, 1 of, medium grey [N 5] - rough fracture.

Site 86 Grid 12/S1

Chert

a	Large	Chunk, 1 of, medium dark grey [N 4], with pale alteration - rough fracture.
b		Chunks, 2 of, olive grey [5 Y 4/1], with red-brown mottling - smooth fracture.
c	Medium.	Flakes, 12 of, medium grey and dark grey[N 4-5] - rough fracture.
d		Flakes, 8 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture.
e	Small.	Flakes, 17 of, grey.

'Grey chert'

f		Flakes, 3 of, in light brownish grey [5 YR 4/1], with rough fracture.

Site 86 Grid 12/S2

Flint, flakes, 4 of, pale yellowish brown [10 YR 6/2].

Chert

a		Microliths, 6 of, up to 17mm long, medium gray [N 5], smooth fracture.
b		Side scraper, in light brownish grey [5 YR 4/1], smooth fracture.
c		?Flakes, 2 of, with edge wear ?scrapers medium grey [N 3], smooth fracture.
d	Large	Chunks, 10 of, medium gray [N 5] and medium dark grey [N 4], with pale alteration - rough fracture.
e		Chunks, 5 of, olive grey [5 Y 4/1]. one with red-brown mottling. One is possibly a core.
f	Medium.	Flakes, 64 of, rough fracture, medium grey and dark grey [N 4-5].
g		Flakes, 38, of, smooth fracture; brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 8 with brown mottling.
h	Small.	Flakes, 56 of, rough and smooth fracture.

'Grey chert'

j		Flakes, 5 of, in light brownish grey [5 YR 4/1], with rough fracture.

Site 86 Grid 12/S3

Flint, flakes, 7 of, 1 dark yellowish brown [10 YR 4/2]; 4 pale yellowish brown [10 YR 6/2]; 2 cortex only.

Chert

a		?Side scraper, in light brownish grey [5 YR 4/1], smooth fracture.
b	Large	Chunks, 2 of, 1 flake, medium gray [N 5] and medium dark grey [N 4], with pale alteration - rough fracture.
c	Medium.	Flakes, 40 of, rough fracture, medium grey and dark grey [N 4-5].

d		Flakes, 16, of, smooth fracture; brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 1 with brown mottling.
e	Small.	Flakes, 40 of, rough and smooth fracture.

'Grey chert'

f		Flakes, 9 of, in light brownish grey [5 YR 4/1], with rough fracture.

Site 86 Grid 12/S4

Flint, flakes, 4 of, pale yellowish brown [10 YR 6/2]; one with cortex.

Chert

a		Microliths, 4 of, up to 17mm long, in brownish grey [5 YR 4/1], smooth fracture.
b	Large	Chunks, 2 of, medium gray [N 5] - rough fracture.
c		Chunk, 2 of, medium gray [N 5] - smooth fracture.
d	Medium.	Flakes, 19 of, medium grey and dark grey [N 4-5] - rough fracture.
e		Flakes, 4, of, olive grey [5 Y 4/1] - smooth fracture.
f	Small.	Flakes, 15 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 1 of, in light brownish grey [5 YR 4/1], with rough fracture.

'Red chert'

h		Chunk, 1 of, medium, mainly greyish brown [5 YR 3/2].- smooth fracture.

Site 86 Grid 12/S5

Flint, flakes, 3 of, pale yellowish brown [10 YR 6/2]; one with cortex.

Chert

a	Large	Chunk, 1 of, medium gray [N 5], traces of lamination - smooth fracture.
b	Medium.	Flakes, 8 of, medium grey and dark grey [N 4-5] - rough fracture.
c		Flakes, 5, of, dark grey [N 2]; 1 is medium dark grey [N 4] - smooth fracture.
d	Small.	Flakes, 17 of, rough and smooth fracture.

'Grey chert'

e		Flake, 1 of, in light brownish grey [5 YR 4/1], with rough fracture.

Site 86 Grid 12/S6

Flint, flakes, 4 of, pale yellowish brown [10 YR 6/2]; one with cortex.

Chert

a		Microliths, 2 of, up to 13mm long, in brownish grey [5 YR 4/1],
b	Large	Chunks, 2 of, medium and dark gray [N 4,5] with pale alteration - rough fracture.
c		Chunks, 3 of, medium dark gray [N 4] - smooth fracture.
d	Medium.	Flakes, 18 of, medium grey and dark grey [N 4-5] - rough fracture.
e		Flakes and chunks, 9, of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 3 have red-brown mottling - smooth fracture.
f	Small.	Flakes, 20 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 7 of, 4 medium, 3 small, in light brownish grey [5 YR 4/1], with rough fracture.

Site 86 Grid 12/S7

Flint, Blade 52mm long; up to 12mm wide; 1 small flake, pale yellowish brown [10 YR 6/2].

Chert

a	Large	Chunks, 2 of, medium and dark gray [N 4,5] with pale alteration - rough fracture.
b		Chunks, 2 of, medium dark gray [N 4] - smooth fracture.
c	Medium.	Flakes, 14 of, medium grey and dark grey [N 4-5] - rough fracture.
d		Flakes and chunks, 11, of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 3 have red-brown mottling -smooth fracture.
f	Small.	Flakes, 10 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 4 medium, 2 small, in light brownish grey [5 YR 4/1], 2 with rough fracture, 4 with smooth fracture.

Site 86 Grid 12/S8 (North half only)

Chert

a		Point, olive black [5 Y 2/1] - smooth fracture.
b	Medium.	Flakes, 3 of, medium dark grey [N 4] - rough fracture.
c	Small.	Flakes, 2 of, rough fracture.

Site 86 Grid 12/N1

Flint, 1 small flake, yellowish grey [5 Y 8/1].

Chert

a		Microlith, 1 of, 7mm long, medium gray [N 5], smooth fracture.
b	Large	Chunks, 2 of, dark gray [N 4] with pale alteration - rough fracture.
c		Chunk, 1 of, dark gray [N 3] - smooth fracture.
d	Medium.	Flakes, 10 of, medium grey and dark grey [N 4-5] -. rough fracture.
e		Flakes and chunks, 8, of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture.
f	Small.	Flakes, 14 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 1 medium, 1 small, in light brownish grey [5 YR 5/1].

Site 86 Grid 12/N2

Flint, 1 small flake, yellowish grey [5 Y 8/1].

Chert

a		Microlith, 1 of, 14mm long, medium gray [N 5], smooth fracture.
b	Medium.	Flakes, 6 of, medium grey and dark grey [N 4-5] - rough fracture.
c		Flakes, 5 of, brownish grey [5 YR 4/1] - smooth fracture.
d	Small.	Flakes, 6 of, rough and smooth fracture.

Site 86 Grid 12/N3

Chert

a	Medium.	Flakes, 2 of, medium grey [N 5] - rough fracture.

Site 86 Grid 13/S1

Flint, 3 small flake, yellowish grey [5 Y 8/1].

Chert

a		Microliths, 5 of, up to 17mm long, 4 medium gray [N 5], 1 pale grey, smooth fracture.
b	Large	Chunks, 2 of, and 2 elongated flakes, dark gray [N 4] with pale

alteration - rough fracture.

c		Chunks, 4 of, olive grey [5 Y 4/1], 1 with brown mottling - smooth fracture.
d	Medium.	Flakes, 61 of, medium grey and dark grey [N 4-5] - rough fracture.
e		Flakes, 50 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture. One is moderate brown, 3 have brown mottling.
f	Small.	Flakes, 97 of, rough and smooth fracture.

'Grey chert'

g		Chunks and flakes, 9 medium, 2 small, in light brownish grey [5 YR 5/1] - rough fracture.
h		Flakes, 11 medium (1 in 2 pieces), 22 small, in light brownish grey [5 YR 5/1] - smooth fracture.

'Red chert'

j		Flake, 1 of, medium, greyish brown [5 YR 3/2].- smooth fracture.

Site 86 Grid 13/S2

Flint, 2 flakes, yellowish grey [5 Y 8/1].

Chert

a		Microliths, 4 of, up to 15mm long, 3 medium gray [N 5], 1 dark grey [N 4] - smooth fracture.
b	Large	Chunks, 3 of, dark gray [N 4] with pale alteration - rough fracture.
c		Chunks, 3 of, olive grey [5 Y 4/1] -smooth fracture.
d	Medium.	Flakes, 41 of, medium grey and dark grey [N 4-5] -rough fracture.
e		Flakes, 26 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture.
f	Small.	Flakes, 45 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 3 medium - rough fracture, 4 small - smooth fracture, all in light brownish grey [5 YR 5/1].

'Red chert'

h		Flake, 1 of, medium, greyish brown [5 YR 3/2]- smooth fracture.

Site 86 Grid 13/S3

Flint, 2 flake, light brownish grey [5 YR 6/1].

Chert

a		Microlith, 1 of, 12mm, light olive gray [5 Y 6/1] smooth fracture.
b	Large	Chunk, 1 of, medium gray [N 5] with pale alteration - rough fracture.
c		Chunks, 2 of, olive grey [5 Y 4/1] - smooth fracture.
d	Medium.	Flakes, 26 of, medium grey and dark grey [N 4-5] - rough fracture.
e		Flakes, 9 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - smooth fracture.
f	Small.	Flakes, 30 of, rough and smooth fracture.

'Grey chert'

g		Flakes, 4 medium - rough fracture brownish grey [5 YR 5/1].

Site 86 Grid 13/S4

Flint, Microliths , 2 of, up to 15mm long, light brownish grey [5 YR 6/1].

Quartz. Crystal of, 12mm long.

Pottery, sherds, 2 of, one of everted rim, small, dark brown exterior, fabric dark grey with white temper ?shell. ?Early Neolithic.

Chert

a	Large	Chunk, 1 of, medium gray [N 5] with pale alteration - rough fracture.

b	Medium.	Flakes, 11 of, medium grey [N 5] - rough fracture.
c		Flakes, 9 of, 1 brownish grey [5 YR 4/1] and 8 olive grey [5 Y 4/1] - smooth fracture.
d	Small.	Flakes, 11 of, rough and smooth fracture.

'Grey chert'

e		Flakes, 2 medium, brownish grey [5 YR 5/1] - 1 rough fracture, 1 smooth.

Site 86 Grid 13/S5 No finds in this grid

Site 86 Grid 13/S6 No finds in this grid

Site 86 Grid 13/S7 Grid not dug

Chert

a		Microlith, 1 of, 16mm long, brownish black [5 YR 2/1], smooth fracture.

Site 86 Grid 13/N1

Flint, Flake, 1 of, light brownish grey [5 YR 6/1].

Chert

a		Microliths, 3 of, one, 30mm long, medium dark gray [N 4]; two in medium grey [N 5] - all with smooth fracture.
b	Large	Chunks, 5 of, flakes, 2 of, and 1 narrow bladelike flake, olive grey [5 Y 4/1] - smooth fracture.
c	Medium.	Flakes, 7 of, medium grey [N 5] - rough fracture.
d		Flakes, 28 of, medium dark grey [N 4] and olive grey [5 Y 4/1] - smooth fracture.
e	Small.	Flakes, 42 of, rough and smooth fracture.

'Grey chert'

f		Flakes, 4 medium - rough fracture, brownish grey [5 YR 5/1].

Site 86 Grid 13/N2

Chert

a	Medium.	Flakes, 2 of, medium grey [N 5] - rough fracture.

Site 86 Grid 13/N3

Chert

a	Medium.	Flakes, 2 of, medium grey [N 5] - rough fracture.
b		Flakes, 3 of, olive grey [5 Y 4/1].- smooth fracture.
e	Small.	Flakes, 3 of, rough and smooth fracture.

Site 86 Grid 14/S1 (Tam's count)

Flint, Flakes, 2 of, yellowish grey [5 Y 8/1] with pale cortex.

Chert

A	Microliths, 47 of, complete, up to 26mm long, or parts of. a1 - 30 medium are grey and dark grey [N 4-5] - rough fracture; a2 - 12 in brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] smooth fracture, a3 - 5 in 'grey' chert
B	Core debitage, 37 of.
C	Flake/core debitage, 453 of.

D	Chert, <10mm, 1618 of, all types
E	Chert, <2mm, 224 of, all types
F	Chert, unclassed, 87 of.

Site 86 Grid 14/S1

Flint, Flakes, 2 of, yellowish grey [5 Y 8/1] with pale cortex.

Chert

A	Microliths, 47 of, complete, up to 26mm long, or as parts. a 1 - 30 are grey and dark grey [N 4-5] - rough fracture; a 2 - 12, in brownish grey [5 YR 4/1] and olive grey [5 Y 4/1], have smooth fracture. a 3 - 5 in 'grey chert'.

Core debitage' (B1

B1a Large	Chunks and flakes, 7 of, grey and dark gray [N 4] with pale alteration, rough fracture.
B1b	Chunks, posible cores, 5 of, olive grey [5 Y 4/1], smooth fracture.
B1c Medium	Chunks and flakes, 8 of, grey and dark gray [N 4] with pale alteration, rough fracture.
B1d	Flakes and chunks, 10 of, medium dark grey [N 4] and olive grey [5 Y 4/1] - 2 with brown mottling - smooth fracture;

Flake/core debitage (C1)

C1a Medium	Chunks and flakes, 308 of, grey and dark gray [N 4] with pale alteration, rough fracture.
C1b	Flakes and chunks, 114 of, smooth fracture; medium dark grey [N 4] and olive grey [5 Y 4/1] - several with brown mottling.
C1c	'Grey chert' -30 of, flakes and chunks - 17 with rough fracture; 13 with smooth fracture.

'Less than 10mm' and 'Less than 2mm'. (D+E) Total 1842

a Small.	Flakes, less than 10mm, 1618 of, all types (**D**).
b	Flakes, less than 2mm, 224 of, all types (**E**).

'Chert unclassed' (F1)

F1a Large	Flake, 1 of, medium dark grey [N 4]] with brown mottling - smooth fracture.
F1b Medium	Chunks and flakes, 24 of, grey and dark gray [N 4;5], some with pale alteration, rough fracture.
F1c	Flakes and chunks, 32 of, medium dark grey [N 4] and olive grey [5 Y 4/1] - 5 with brown mottling - smooth fracture.
F1d Small.	Flakes, 29 of, rough and smooth fracture - all types.

'Grey chert'

F1 e	Flakes, 3 medium, brownish grey [5 YR 5/1] - 1 rough fracture, 2 smooth fracture.

Grey Chert (G)

Ga	Large	Chunks, 7 of, 2 elongated flakes, light brownish gray [5 YR 6/1] - rough fracture.
Gb		Chunks, 3 of, light brownish gray [5 YR 6/1] - smooth fracture.
Gc	Medium.	Flakes, 48 of, rough fracture, light brownish gray [5 YR 6/1]
Gd		Flakes, 18 of, smooth fracture; light brownish grey [5 YR 6/1].
Ge	Small.	Flakes, 24 of, rough and smooth fracture [5 YR 6/1].

Grand total 2560.

Site 86 Grid 14/S2

Flint, Flakes, 2 of, light brownish grey [5 YR 6/1].

Chert

a	Large	Chunk, 1 of, 3 elongate flakes, medium gray [N 5] - smooth fracture.
b	Medium.	Flakes, 18 of, medium grey [N 5] - rough fracture
c		Flakes, 9 of, 1 brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 2 with brown mottling - smooth fracture.
d	Small.	Flakes, 21 of, rough and smooth fracture.

'Grey chert'

e		Flake, 1 medium, brownish grey [5 YR 5/1] - smooth fracture.

Site 86 Grid 14/S3 No finds in this grid

Site 86 Grid 14/S4

Flint, Microlith, 24mm long; light brownish grey [5 YR 6/1]; flakes, 2 of, 1 is light brownish grey; the other is dark grey [N 3].

Chert

a	Medium.	Flakes, 5 of, medium grey [N 5] - rough fracture.
b		Flakes, 4 of, 1 brownish grey [5 YR 4/1] - smooth fracture.
c	Small.	Flakes, 4 of, rough and smooth fracture.

Site 86 Grid 14/S5 No finds in this grid

Site 86 Grid 14/S6 North half only.

Chert

a	Medium.	Flakes, 3 of, medium grey [N 5] - rough fracture.
c		Flake, 1 of, 1 brownish grey [5 YR 4/1] - smooth fracture.
d	Small.	Flake, 1 of, rough and smooth fracture.

Site 86 Grid 14/S7 South half only.

Chert

a		Piercer, medium grey [N 5].
b	Medium.	Chunks, 4 of, medium grey [N 5] - rough fracture.
		Chunks and flakes, 11 of, dark grey [N 4] and medium grey [N 5] -. smooth fracture.
d	Small.	Flakes, 3 of, rough and smooth fracture.

'Grey chert'

e	Medium.	Chunks and flakes, 8 of, brownish grey [5 YR 5/1] - 1 large, 7 medium - 4 with rough fracture, 4 with smooth fracture.

Site 86 Grid 14/N1

Pitchstone, 2 flakes, one light brownish grey [5 YR 5/1] with dark grey elongated crystallites.?augite; the other is medium dark grey. [N 4] with traces of flow-lamination.

Flint, One large chunks 2 of, pale yellowish brown [10 YR 6/2]; 2 medium flakes in pinkish grey [5 YR 8/1].

Chert

a		Microliths, 6 of, up to 21mm long. 5 are in smooth fracturing olive grey [5 Y 4/1] - 2 with red-brown mottling, the sixth is in rough fracturing brownish grey [5 YR 4/1].
b		Core, dark greenish grey [5 GY 4/1] - smooth fracture.
c	Large	Chunks, 5 of, dark grey - [N 3], pale alteration, rough fracture.
d		Chunks and flakes, 9 of, mostly olive grey [5 Y 4/1] - smooth fracture.
e	Medium.	Chunks and flakes, 104 of, grey and dark gray [N 4;5], some with pale alteration, rough fracture.
f		Flakes, 175 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 7 with brown mottling, smooth fracture.
g	Small.	Flakes, 185 of, all types, grey and pale grey.

'Red chert'

h	Medium.	Chunk, moderate brown [5 YR 3/4]. .

'Grey chert'

j	Large	Chunks, 3 of, light brownish grey [5 YR 6/1]., rough fracture.
k	Large	Chunks, 1 of, probably a core, in light brownish grey [5 YR 6/1], smooth fracture.
l	Medium.	Flakes, 9 of, 6 rough fracture, 2 smooth, in light brownish grey [5 YR 6/1].

Site 86 Grid 14/N2.

Chert

a	Large	Chunk - possible core, dark grey [N 3] - rough fracture.
b	Medium.	Flakes, 7 of, medium grey [N 5] - rough fracture. Chunks and flakes, 11 of, dark grey [N 4] and medium grey [N 5] - smooth fracture.
c	Small.	Flakes, 3 of, medium grey [N 5]

Site 86 Grid 14/N3.

Chert

a	Medium.	Flake, rough fracture, and chunk, medium grey [N 5], smooth fracture.
b	Small.	Flake, 1 of, medium grey [N 5]

Site 86 Grid 15/S1

Flint, Flakes, 2 of, medium, one in pale brown [5 YR 5/2] with cortex, the other in greyish orange pink [5 YR 7/2].

Chert

a		Microliths, 4 of, up to 16mm long,. greyish olive green [5 GY 5/2] - smooth fracture
b	Large	Chunks, 5 of, dark grey [N 3] and medium dark grey [N 4], pale alteration, rough fracture.
c		Chunks and bladelike flakes, 8 of, brownish grey [5 YR 4/1], olive grey [5 Y 4/1] and dark greenish grey [5 G 4/1] - two have thin dark grey veins - smooth fracture.
d	Medium.	Chunks and flakes, 43 of, grey and dark gray [N 4;5], some with pale alteration, rough fracture.
e		Flakes, 74 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 18 with brown mottling - smooth fracture.
f	Small.	Flakes, 93 of, all of above types.

'Brown chert'

g	Large.	Chunk, moderate brown [5 YR 3/4] with pale alteration, rough fracture.

'Grey chert'

h	Large.	Chunk, smooth fracture; brownish grey [5 YR 4/1] with brown mottling.
j	Medium.	Flakes, 15 of, medium, in light brownish grey [5 YR 6/1] - 5 have smooth fracture.

Site 86 Grid 15/S2.

Pitchstone, flake, 1 of, small, olive grey [5 Y 3/2].

Chert

a		Microlith, 1 of, broken, 12mm long. dark gray [N 4], rough fracture.
b	Large	Chunk, 1 of, dark gray [N 4] with moderate brown mottling, smooth fracture. Slight pale alteration showing radiolarians.
c	Medium.	Chunks and flakes, 12 of, grey and dark gray [N 4;5], some with pale alteration, rough fracture.
d		Flakes, 7 of, smooth fracture; brownish grey [5 YR 4/1] and olive grey [5 Y 4/1] - 2 with brown mottling.
e	Small.	Flakes, 6 of, grey and pale grey.

'Grey chert'

f	Small.	Flake, 1 of, pale grey, smooth fracture.

Site 86 Grid 15/S3 No finds in this grid

Site 86 Grid 15/S4. **Flint**, Microlith, 1 of in pale grey and flakes, 2 of, one large, in pale brown [5 YR 5/2].

Chert

a	Large	Chunk, 1 of, light brownish gray [5 YR 6/1] with brownish grey [5 YR 4/1] mottling; smooth fracture. Slight pale alteration showing radiolarians.
b		Chunk, 1 of, medium dark gray [N 4]; rough fracture. Pale alteration showing radiolarians.
c	Medium.	Flakes, 2 of, grey [N 5], rough fracture.
d		Flakes, 2 of, dark grey [N 4], smooth fracture.
e	Small.	Flakes, 8 of, grey and pale grey.

'Grey chert'

f		Flake, 1 of, medium, light brownish grey [5 YR 6/1], rough fracture.

Site 86 Grid 15/N1.

Chert

a		Microliths, 5 of, up to 21mm long, 4 in grey with rough fracture.
b	Large	Chunks, 5 of, 1 elongated flake - medium dark gray [N 4] and brownish grey [5 YR 4/1]; rough fracture. Two with pale alteration showing radiolarians.
c		Chunks, 3 of, one dark greenish grey [5 GY 4/1], 2 dark grey [N 4] with brown mottling; smooth fracture. Slight pale alteration showing radiolarians.
d	Medium.	Flakes, 68 of, grey [N 5] and dark grey [N 4], rough fracture.
e		Flakes, 42 of, brownish grey [5 YR 4/1] and olive grey [5 Y 4/1], 5 with brown mottling - smooth fracture.
f	Small.	Flakes, 76 of, grey and pale grey.

'Grey chert'

g	Large.	Chunks, 2 of, rough fracture; brownish grey [5 YR 4/1] with pale alteration.
h		Chunk, 1 of, brownish grey [5 YR 4/1] - smooth fracture.
j		Chunk, 1 of, medium grey [N 5] with pale alteration - smooth fracture. Abundant radiolarians.
k	Medium.	Flakes, 6 of, light brownish grey [5 YR 6/1] - rough fracture.

Site 86 Grid 15/N2 No finds in this grid

Site 86 Grid 16/S1.

Chert

a		Microlith, gray [N 5] smooth fracture.
b	Large	Chunks, 2 of, 1 elongated flake, medium dark gray [N 4] and brownish grey [5 YR 4/1]; - one with pale alteration showing radiolarians, rough fracture.
c		Chunks, 2 of, one greenish black [5 GY 2/1], 1 medium dark grey [N 4], smooth fracture.
d	Medium.	Flakes, 5 of, grey [N 5] - pale alteration, rough fracture.
e		Flakes, 4 of, brownish grey [5 YR 4/1 with moderate brown mottling - smooth fracture.
f	Small.	Flakes, 4 of, grey and pale grey.

'Grey chert'

g	Medium.	Flake, 4 of, medium, light brownish grey [5 YR 5/1], 3 with rough fracture; one smooth.

Site 86 Grid 16/S2.

Chert

a	Medium.	Flakes, 7 of, grey [N 5] - pale alteration, rough fracture.
b		Flakes, 3 of, dark greenish grey [5 G 4/1] - one with moderate brown mottling - smooth fracture.
c	Small.	Flakes, 5 of, grey and pale grey.

'Grey chert'

d		Chunk, large, medium grey [N 5] with pale alteration, smooth fracture,

e		Flakes, 2 of, medium, smooth fracture.

Site 86 Grid 16/S3.

Chert

a	Large	Chunk, 1 of, medium dark gray [N 4], rough fracture - pale alteration showing radiolarians.
b		Flake - elongated, 1 of, olive grey [5 Y 4/1], smooth fracture - radiolarians.
c	Medium.	Flakes, 4 of, grey [N 5] brownish grey [5 YR 4/1] - rough fracture, pale alteration.
d		Flakes, 4 of, brownish grey [5 YR 4/1 with moderate brown mottling - smooth fracture.
e	Small.	Flakes, 4 of, grey and pale grey.

'Grey chert'

f	.	Flake, 1 of, medium, brownish grey [5 YR 4/1], rough fracture.

'**Red chert**'

g		Flake, 1 of, large, elongated, mainly brownish grey [5 YR 4/1] with small part of dark greenish grey [5 GY 4/1], smooth fracture.

Site 86 Grid 16/S4.

Flint, Flakes, 3 of, medium, two in greyish orange pink [5 YR 7/2] - one with cortex; one in pale brown [5 YR 5/2].

Chert

a		Microlith, 2 of, one gray [N 5] rough fracture; one medium dark grey [N 4] with smooth fracture
b	Large	Chunks 2 of, medium gray [N 5] rough fracture. Pale alteration - one with plentiful radiolarians.
c		Chunks 3 of, dark greenish grey [5 GY 4/1], one with brown mottling, smooth fracture.
d	Medium.	Flakes, 16 of, medium dark grey [N 4] - rough fracture.
e		Flakes, 6 of, dark greenish grey [5 GY 4/1] and medium dark gray [N 4] (2 of) - smooth fracture.
f	Small.	Flakes, 31 of, grey and pale grey.

'Grey chert'

g		Chunks 2 large, 1 small, light brownish grey [5 YR 4/1] - rough fracture;

Site 86 Grid 16/N1.

Chert

a	Medium.	Flakes, 5 of, medium grey [N 5] - rough fracture.
b		Flake, 1 of, dark greenish grey [5 GY 4/1] with brown mottling - smooth fracture;
c	Small.	Flakes, 2 of, grey and pale grey.

Site 86 Grid 16/N2 No finds in this grid

Site 86 Grid 17/S1 No finds in this grid

Site 86 Grid 17/S2 No finds in this grid

Site 86 Grid 17/S3 No finds in this grid

Site 86 Grid 17/S4 No finds in this grid

Site 86 Grid 17/N1.

Chert

a		Crested blade - possibly scraper - olive grey [5 Y 4/1], rough fracture.
b	Large	Chunk, 1 of, dark greenish gray [5 GY 4/1] - smooth fracture.
c	Medium.	Flakes, 6 of, olive grey [5 Y 4/1], rough fracture.
d		Flakes, 4 of, dark greenish grey [5 GY 4/1] - 2 with red-brown mottling, smooth fracture.
e	Small.	Flakes, 4 of, grey and pale grey.

'Grey chert'

f		Flakes, 3 of, medium, light brownish grey [5 YR 4/1], rough fracture.

Site 86 Grid 17/N2 No finds in this grid

Daer Valley 2010: Site No 86. [NS 95595 10461] - FEATURES

Site 86 Feature F1.

?Flint. Flake, in pinkish grey [5 YR 8/1] - possibly burnt

Site 86 Feature F2 - Upper spread.

?Flint. Flake, possibly scraper in dark yellowish brown [10 YR 4/2]. Medium chunk (in 2 pieces) and 7 flakes, in pinkish grey [5 YR 8/1] - possibly burnt.

Sandstone. Rounded pebbles 6mm, 14mm and 29mm long, in light brown [5 YR 6/4] slightly micaceous, medium-grained sandstone.

Chert

a		Microliths, 2 of, broken, up to 16mm long, one dark gray [N 4], one pale grey [N 5] - rough fracture.
b	Large	Chunk, 1 of, dark gray [N 4] rough fracture.
c	Medium	Chunks and flakes, 32 of, grey and dark gray [N 4;5], rough fracture.
d		Flake, 1 of, dark greenish grey [5 GY 4/1] with brown mottling - smooth fracture.
e	Small.	Flakes, 181 of, grey and pale grey.

'Grey chert'

f	Medium.	Flake, 6 of, pale grey, rough fracture.
g	Medium.	Flake, 8 of, pale grey, smooth fracture

Site 86 Feature F2 - Lower spread.

Bone. Fragments of calcined bone, 6 of.

?Flint. Flake, in pinkish grey [5 YR 8/1] - possibly burnt

Chert

a	Medium	Chunks and flakes, 3 of, brownish [5 YR 4/1], rough fracture.
b	Small.	Flakes, 27 of, grey and pale grey.

Site 86 Feature F3.

?Flint. Flakes, 2 of, in pinkish grey [5 YR 8/1].

Chert

a		Bladelike flake, possible scraper, brownish gray [5 YR 4/1] - rough fracture.
b	Large	Chunks, 2 of, and 1 flake, dark gray [N 4] rough fracture.
c	Medium	Flakes, 5 of, grey and dark gray [N 4;5], rough fracture.

d		Flakes, 4 of, dark greenish grey [5 GY 4/1] - smooth fracture.
e	Small.	Flakes, 10 of, grey and pale grey.

'Grey chert'

f	Medium.	Flake, 3 of, pale grey, rough fracture.

Site 86 Feature F3A.

Burnt stone. Greywacke; scattered mica flakes, grey at core, burned to reddish brown on outside.

Chert

a	Medium	Flakes, 4 of, grey and dark gray [N 4;5], rough fracture.
b	Small.	Flakes, 16 of, grey and pale grey.

'Green chert'

a		Flake. small, in dusky yellow green [5 GY 5/2],

Site 86 Feature F3B.

Chert

a	Medium	Chunk, 1of, dark gray [N 4], rough fracture. Light brown [5 YR 5/6] alteration on outside - ?as a result of burning.

Site 86 Feature F4.

Chert

a	Medium	Chunk, 1 of, dark gray [N 4], rough fracture.

Site 86 Feature F5. **Pottery**, sherds, 2 of, very small, dark grey with white temper ?shell. ?Early Neolithic.
Flint, Flake, 1of, in pinkish grey [5 YR 8/1].

Chert

a	Medium	Flakes, 2 of, gray [N 5], rough fracture.
b	Small	Flake, 1 of, dark greenish grey [5 GY 4/1] - smooth fracture.

Site 86 Feature F6. ?**Flint**, flake, 1of, in pinkish grey [5 YR 8/1] - ?burnt.

Chert

a		Microliths, 2 of, broken, up to 19mm long, medium grey [N 5] - rough fracture.
b	Medium	Flake, 1 of, medium gray [N 5], rough fracture.
b	Small	Flakes, 8 of, grey and pale grey.

Site 86 Feature F9. **Flint**, flake, 1of, in pinkish grey [5 YR 8/1] - surface crazed due to burning.
Upper

Chert

a	Medium	Flakes, 2 of, medium gray [N 5], rough fracture.

SURFACE COLLECTIONS

Site 86, no location (NL 1).

Chert

Microliths, 2 of, broken; one brownish grey [5 YR 4/1], one dark greenish grey [5 GY 4/1].

Site 86, no location (NL 2).

Flint, flake, 1of, brownish grey [5 YR 4/1] with part pale cortex.

Chert

a	Large	Chunks, 2 of, dark gray [N 4] rough fracture.

b	Medium	Flakes, 6 of, grey and dark gray [N 4;5], rough fracture.
c		Chunks, 3 of, dark greenish grey [5 GY 4/1] with brown mottling - smooth fracture.

'Grey chert'

d		Flake, 1 of, large, pale grey, rough fracture. radiolarians.

Site 86, no location (NL 3).

Flint, flakes, 6 of, 4 brownish grey [5 YR 4/1]; 2 pinkish grey [5 YR 8/1] one with pale cortex.

Chert

a	Large	Chunks, 8 of, medium dark gray [N 4]; rough fracture. Pale alteration showing radiolarians.
b		Chunks, 5 of, dark greenish grey [5 GY 4/1] - smooth fracture.
c	Medium.	Flakes, 61 of, dark grey to medium dark grey [N4 - N5], rough fracture.
d		Flakes, 17 of, dark gray [N 4] and dark greenish grey [5 GY 4/1], two with brown mottling - smooth fracture.
e	Small.	Flakes, 49 of, grey and pale grey.

'Grey chert'

f		Chunk, 1 of, medium, pale grey, rough fracture.

Site 86, 'From spoil' no location.[**NL 4**]

Chert

a		Microliths, 2 of, 1 broken, medium dark grey [N 4].
b	Large	Chunk, 1 of, and 1 flake, medium dark gray [N 4]; both with darker mottling. Pale alteration, showing radiolarians up to 0.5mm in diameter. Rough fracture.
c	Medium.	Flakes, 19 of, dark grey to medium dark grey [N4 - N5], rough fracture.
d		Flakes, 6 of, dark greenish grey [5 GY 4/1], 3 with darker mottling - smooth fracture.
e	Small.	Flakes, 9 of, grey and pale grey, various.

'Grey chert'

f		Chunks and flakes, 1 large, 6 medium, 5 brownish grey [5 YR 4/1], 2 light brownish grey [5 YR 6/1] rough fracture.

'**Red chert**'

g		Chunks, 2 of, 1 large, brownish grey [5 YR 4/1] - rough fracture; 1 medium, brownish grey [5 YR 4/1] with small part of dark greenish grey [5 GY 4/1], smooth fracture.

Site 86, 'From spoil' no location.[**NL 5**]

Chert

a		Microlith, 1 of, 19mm long, medium dark grey [N 4].
b	Medium.	Flakes, 4 of, dark grey to medium dark grey [N4 - N5], rough fracture - pale alteration with radiolarians..

Site 86 Appendix III

Photographs description

People's initials left to right

Brenda Dreghorn, Peter Dreghorn, Jacquie Dryden, Denise Dudds, Valerie Ferguson, Richard Gillanders, Bill Glass, Sandra Kelly, Helen Mc Call, Jim Ness, Ian Paterson, Bob Robertson, Maureen St James, Justine Tarelli, Michael Tarelli,

Daer 86.1	Round and end scrapers as found in furrow
Daer 86.2	ditto
Daer 86.3	ditto
Daer 86.4	ditto
Daer 86.5	Flint flake of furrow upcast (see pic: Flint 86.15.S4)
Daer 86.6	ditto close up
Daer 86.7	Chert lithic in situ
Daer 86.8	ditto
Daer 86.9	Excavation begins
Daer 86.10	ditto
Daer 86.11	Chert lithic in situ
Daer 86.12	ditto
Daer 86.13	ditto
Daer 86.14	ditto
Daer 86.15	ditto
Daer 86.16	ditto
Daer 86.17	ditto
Daer 86.18	ditto
Daer 86.19	Excavation begins
Daer 86.20	ditto
Daer 86.21	ditto
Daer 86.22	F1 showing at edge of furrow looking south
Daer 86.23	ditto showing charcoal
Daer 86.24	Natural feature
Daer 86.25	ditto
Daer 86.26	ditto
Daer 86 27	diggers, JD & SK
Daer 86.28	ditto
Daer 86.29	ditto

Daer 86.30	ditto, BR, BG, JT, MT
Daer 86.31	Natural feature
Daer 86.32	ditto
Daer 86.33	ditto with diggers; JD, BD, PD, HM, RG, JT
Daer 86.34	Natural feature
Daer 86.35	diggers, DD, HM, MT, JT, BR, RG, JN, VF
Daer 86.36	ditto
Daer 86.37	Natural feature
Daer 86.38	F2 showing looking north
Daer 86.39	ditto
Daer 86.40	ditto looking west
Daer 86.41	ditto
Daer 86.42	ditto
Daer 86.43	No picture
Daer 86.44	diggers at F2, MSJ, VF, JD, DD, JN
Daer 86.45	ditto
Daer 86.46	F2 looking west
Daer 86.47	No picture
Daer 86.48	F2 looking north
Daer 86.49	ditto
Daer 86.50	F1 looking west
Daer 86.51	F2 sectioned looking west
Daer 86.52	F2 looking north
Daer 86.53	ditto showing detail
Daer 86.54	F1 looking west
Daer 86.55	F1 looking north
Daer 86.56	F1 and F2 sectioned looking north
Daer 86.57	ditto
Daer 86.58	diggers F4 area looking north
Daer 86.59	ditto
Daer 86.60	F5 looking north
Daer 86.61	diggers M-, IP
Daer 86.62	diggers looking over F5 area
Daer 86.63	F6 and F3 looking north
Daer 86.64	F6 looking west, stones no significance

Daer 86.65	ditto looking north
Daer 86.66	F6 and F3 looking north
Daer 86.67	ditto
Daer 86.68	F6 looking north
Daer 86.69	F6 and F3 looking north
Daer 86.70	F3 looking north
Daer 86.71	ditto
Daer 86.72	ditto
Daer 86.73	F3a looking west
Daer 86.74	F3a looking west with F3b (at pen)
Daer 86.75	F3b looking north
Daer 86.76	F3, F3a and F3b looking north
Daer 86.77	ditto plus F6 stones no significance
Daer 86.78	ditto with F7
Daer 86.79	F7 looking north
Daer 86.80	F3a pit with burnt stones and charcoal looking north
Daer 86.81	ditto
Daer 86.82	ditto
Daer 86.83	ditto
Daer 86.84	ditto
Daer 86.85	F6, F7, F8 and F3 area looking north, stone no significance
Daer 86.86	Showing typical section with peat over ogs and orange coloured till
Daer 86.87	ditto

Follows selected pictures of finds and locations on site

Flint.	86.10.S7
Flints.	86.10.S7
Haematite.	86. 7.S3.2
Haematite.	86. 7.S5.1
Haematite.	86. 7.S5.3
Haematite.	86. 7.S5
Haematite.	86. 8.S1
Haematite.	86. 9.N1.1
Haematite	86. 9.N2
Haematite.	86. 9.S3.1
Haematite.	86. 9.S3.2
Haematite.	86. 9.S3
Haematite.	86.11.S6.1
Haematite.	86.11.S6
Knife.	86.12.S7.1
Knife.	86.12.S7.2
Knife.	86.12.S7.3
Knife.	86.12.S7.4
Knife.	86.12.S7
Micro.	86. 9.S3.1
Micro.	86. 9.S3.2
Micro.	86. 9.S3
Micro.	86.10.S2.001
Micro.	86.10.S2.002
Micro.	86.10.S5.1
Micro.	86.10.S5.2
Micro.	86.10.S5
Micro.	86.12.S7.1
Micro.	86.10.S7
Micro.	86.13.S1.1

Micro.	86.13.S1
Micros	86.10.S2
Micros.	86.13.N1.2
Micros.	86.13.N1
Micros.	86.13.S1
Micros.	86.14.S1
Micros.	86.14.S1.al.1
Micros.	86.14.S1a1.2
Micros.	86.14.S1a1
Micros.	86.14.S1a2
Micros.	86.14.S1a3
Micros.	8614.S2a2.1
Pitchstone1.	86. 8.S2
Pitchstone2.	86. 8.S2
Pitchstone.	86. 8.S2
Pot.	86.15.S4.001
Pot.	86.15.S4.002
Scraper.	86.12.S1.1
Scraper.	86.12.S1.2

Site86scrapers.

Bluechert

Greychert