Bryn Cefni Industrial Park, phase II, plots 8 and 9

Watching Brief Assessment of the potential of the excavation results

Report No. 432



Prepared for

Bowen Dann Knox On behalf of The Welsh Development Agency

January, 2002

By

J. Kenney

Ymddiriedolaeth Archaeolegol Gwynedd Archaeological Trust



BRYN CEFNI INDUSTRIAL PARK PHASE II, PLOTS 8 AND 9

ARCHAEOLOGICAL WATCHING BRIEF (G1723) Assessment of the potential of the excavation results

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CONTENTS

Introduction	1
Excavation results	1
Assessment of the importance of the archaeological features	3
Recommendations for further work	3

Illustrations Figures 1 to 3 Plates 1 to 5

Appendix I Full context list

Appendix II Registers of samples, small finds and site drawings

Appendix III Photographic register

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1. INTRODUCTION

The Welsh Development Agency are proposing to develop two plots within the area defined as phase II of the Bryn Cefni Industrial Park, situated adjacent to the existing industrial estate at Llangefni (NGR SH 469 470) (see figure 1). The area to be developed is defined in Planning Application No. 34C204G. A condition requesting a programme of archaeological works formed part of the planning consent. Bowen Dann Knox, acting on behalf of the WDA, asked Gwynedd Archaeological Trust (GAT) to conduct a watching brief during the excavation of building foundations.

The watching brief is on-going, and involves an archaeologist inspecting the site at regular intervals during earth-moving, to identify and record any archaeological features revealed. The watching brief commenced on 29/11/01, when a stony deposit stained by manganese oxide precipitates, and containing some charcoal, was located (feature 1). No other features were discovered until 18/12/01 when the carpark for plot 9 was excavated. This revealed a large area of charcoal and burnt stone (feature 2), with 2 neighbouring smaller burnt areas (features 3 and 4). These features were excavated by hand and recorded as fully as possible.

The purpose of this report is to summarise and assess the excavation findings, and to use that information to make decisions concerning the level of post-excavation work required. Two primary objectives are required of the post-excavation analysis: the production of a research archive, and a report for publication. The present report contains a summary of the excavation results, an assessment of the importance of the site, and recommendations for further work to allow these objectives to be met.

2. EXCAVATION RESULTS

Feature 1

A patch of dark material, measuring 3.5 x 3.0m, was noticed during earth removal. The feature was broadest against the baulk left for the roadway, and tapered towards the south until it was only 0.3m wide. The deposit had particularly red stones within it, and initially appeared to be a dump of burnt material, such as is often associated with Bronze Age burnt mounds. However, on closer inspection it was revealed that the dark purple black colour of the deposit was caused not by the presence of charcoal, but by the precipitation of manganese oxide. The reddish stones were decomposing sandstone, and both their colour and decomposition was probably caused by the conditions that initiated the precipitation of the manganese oxide. Some occasional fragments of charcoal were present within the deposit, and probably originated from an area of burning hidden under the baulk. (For location see figure 2).

Feature 2

(For location see figure 2, for plan see figure 3).

This feature was initially visible as a large area of burnt deposits (plate 1), which were revealed to be the fill of a rectangular pit. The pit (context 11) measured $3.8 \times 2.2m$, and was 0.5m in depth. It was aligned north-east to south-west, with fairly gently sloping upper edges leading into a vertically sided, trapezoidal inner cut measuring $2.65 \times 1.2m$. The inner cut was well defined with sharp corners, though its vertical sides had slumped inwards in places (plates 4 and 5). At the north-eastern end of this inner cut was a shallow, semi-circular hollow (context 20).

Some slight erosion of the sides of the pit resulted in a sandy deposit (context 18) building up at the base of the north-western and north-eastern sides. This erosion probably occurred soon after the digging of the pit. A grey clay (context 17) was then deposited along the base of the pit. This may also have been an erosion deposit, but it contained quantities of charcoal, including a charred timber

measuring 0.38×0.09 m (SF 02). This deposit may, therefore, be related to the use of the pit. Context 17 extended over cut 20, and from this area was recovered some fragments of cattle teeth (SF 01).

Further erosion of the pit sides then occurred with part of the south-western side breaking off as a single block and falling into the base of the pit. Backfilling of the pit then occurred, probably this was done deliberately, but it is possible that spoil heaps from the digging of the pit naturally eroded back into it. Whatever the cause of the backfilling, the first material redeposited into the pit was a stony clay containing very little charcoal (context 14). On top of this was a very charcoal rich stony deposit (context 06), covered at the north-eastern end by another stony layer lacking in charcoal (09). Some of the stones, especially in 06, had been burnt, but most seem to have originated from the natural fluvio-glacial deposit (26), through which pit 11 was cut.

Adjacent to the pit's south-western end the surface of the natural clay had been oxidised to a red colour (context 07), indicating that a fire had been lit directly on the clay (plate 2). The fire and the pit appeared to have been used together as part of the same function. The fire had been set directly on the natural clay subsoil (05), showing that there had been no top soil or plough soil present when feature 2 was in use. This may have been deliberately removed prior to the construction of the feature. Stony, charcoal rich deposits (contexts 06 and 10) extended over the site of the fire (07).

There was some difficulty in identifying the north-western side of the pit above the level of the natural clay. A shallow linear hollow (context 28) extended north of cut 11, and was filled with material indistinguishable from the upper fill (context 09) of the pit. It seems probable that the hollow 28 was natural and not part of the archaeological feature. Comparison of soil and stone samples from its fill with the fluvio-glacial deposit (26) may help to prove this.

Feature 3

This was a narrow linear feature running north-west to south-east along the western edge of the stony fluvio-glacial deposit (26), to the south-east of feature 2. It represents an area of burning, which has caused changes in the natural deposit; introducing charcoal to it and causing heat cracking and reddening of some of the stones (contexts 12 and 13) (plate 3).

Feature 4

Feature 4 was an elongated oval area of burning (contexts 15 and 16) on the surface of layer 26, very similar to feature 3. It lay to the north-west of feature 2.

Discussion

Pit 11 was carefully dug to a very specific shape, with the additional, and probably contemporary, bowl-shaped hollow (context 20) at its north-eastern end. It is not a casually dug pit, such as may be created to bury dead livestock. The fire at its south-western end is an integral part of the function of the pit. There were slight traces of heat alteration of the upper sides of the pit, but it was clear that no burning had occurred within the pit itself. The charcoal and burnt stone produced by the fire were backfilled into the pit after it went out of use. Features 3 and 4 represent subsidiary fires to the south-east and north-west of feature 2. Feature 1, located c28m east of feature 2, may also have included the remains of burning.

There is currently no reliable dating evidence for this activity as no artefacts were recovered. The cattle teeth are remarkably well preserved, despite the acidity of the soil, which rapidly dissolves bone and, at a slower rate, teeth. This suggests that the activity may be relatively recent. Feature 2 appears to be part of some small-scale industrial process, rather than the result of any recent agricultural activity. It, therefore, might be estimated to date to the Post-medieval period (i.e. the 16th to 19th centuries). The lack of recent artefacts also indicates that it is not of very recent origin.

However, the presence of a trough with a fire site close by is reminiscent of Bronze Age burnt mounds. Water in the trough was heated by placing hot stones from the fire in it, and cooking or other activities were carried out with the hot water. Such troughs are generally a little smaller than pit 11, and are surrounded by horse-shoe shaped mounds of heat cracked stone and burnt material. No such mound was found on this site and stones large enough to boil water were rare. The burnt mound could have been removed when the area was stripped of top-soil in recent years, so this explanation should not be ruled out until a date has been obtained for the activity on this site.

Although there were no artefacts, several samples of charcoal were recovered, including the charred timber from context 17, all of which was collected, though in a very fragmentary state. It should be considered a priority of obtain radiocarbon dates from these samples so that the activity can be located in the correct period. Once this has been achieved it will be easier to search the literature for parallel sites, which may give some indication of the function of the feature.

3. ASSESSMENT OF THE IMPORTANCE OF THE ARCHAEOLOGICAL FEATURES

All four features appear to be related to the same episode of activity, centred on feature 2. The importance of the site cannot be determined until the date and function of feature 2 is established, and this is the goal towards which the post-excavation work is aimed. At this point it is only possible to put forward tentative theories of date and function, and to list the relative importance of each. Current evidence suggests that the feature is most likely to have had an industrial function, and to date from the post-medieval period. Relatively little is known about many small-scale industrial processes, even in the 19th century, so the site could contribute considerably to the understanding of this field. Depending on the process carried out, the site may be of regional importance, even if it proves to be of relatively recent date.

The second most likely scenario is that the pit is a trough within a Bronze Age burnt mound. There are a considerable number of burnt mounds in Anglesey, several of which have recently been excavated during the work on the A55 trunk road. This is, therefore, not a rare site type, and it is relatively well researched. If feature 2 did prove to be part of a burnt mound it would be considered to be of regional importance.

It is possible that the radiocarbon dates could indicate a completely unexpected period. Such a trough and fire site would not be inconsistent with features found on sites dating from the Iron Age to the medieval period. It is unlikely that the feature dates to a period before the Bronze Age, but this cannot be entirely ruled out until the radiocarbon dates have been carried out. An earlier prehistoric date would make the site of national importance. A date from the later prehistoric to medieval periods could also mean that the site was of national importance if it represents a particularly early example of an industrial process.

4. RECOMMENDATIONS FOR FURTHER WORK

Context records	28
Plan and section drawings	10
Colour prints	69
Colour slides	63
Small finds	2
Soil samples	2
Stone samples	3
Charcoal samples	5

Summary of data collected

The stratigraphic information within feature 2 was relatively clear, and the sequence of events has already largely been established. There is no direct stratigraphic relationship between the different features. No further work is required on the stratigraphy, except to further clarify the relationship between cuts 11 and 28.

Radiocarbon dating

It is a priority to obtain radiocarbon dates from the charcoal samples. The charred timber (SF 02) should provide enough carbon for a standard date, and the other samples should provide enough for accelerator mass spectrometry dates. The nature of the radiocarbon dating method means that a single date may not be reliable. Ideally a minimum of three dates are needed from each feature to allow

unreliable dates to be identified and ruled out of consideration. Dating should concentrate on feature 2, as the other features are probably contemporary activity. Three dates from feature 2 are, therefore, recommended. One of these should be from SF 02, the others should be chosen from the best of the remaining samples. It may be wise to submit the SF02 sample first, as there is a small risk that the feature is modern. If this initial date proved to be modern, dating the other samples would not be justified.

Before the samples are dated, and therefore destroyed, it is recommended that they are studied to identify which species of timber has been burnt. This may give some information on the processes carried out on the site. The risk of old heartwood being dated must also be assessed, as this could give a date several hundred years older than the activity being investigated.

Stone and soil samples

There were difficulties in identifying the upper fill of cut 11 from the natural fluvio-glacial gravel. This problem might be solved by studying samples of stones and soil from the relevant deposits. Analysis of stones from the site by a petrologist would also clarify what proportion are genuinely heat altered. Wet sieving the soil samples from the charcoal rich layers, i.e. 06 and 17, may produce more charcoal for dating if this is necessary. Also charred grains and seeds may be present which could give some indication of the processes carried out on the site. If such charred remains are present they should be studied by a palaeoenvironmental specialist.

Archiving

Much of the field documentation has already been archived during the production of this report, but the digital survey data needs combining with the hand drawn plans, and level information requires calculation and rationalisation. New information resulting from the post-excavation work will also need incorporating into the archive. The completed archive must be stored appropriately in digital form as well as a paper archive. The production of an archive of a high standard is vital, as this comprises the preservation of the archaeological feature by record, and must be available for future research.

The report

The report on the watching brief should include a full description of the excavation, and of the deposits and features recorded. This will involve more detailed discussion of the deposits than appears than here. Once the radiocarbon dates have been received a search of the relevant literature should be carried out in an attempt to find similar features excavated elsewhere. A full discussion of the features on this site should be written taking all the available information into account and presenting the most likely date and function of the features. Several illustrations will be necessary to accompany the report. These will be obtained by converting the archive drawings into publication standard illustrations.

Summary of further work

At this stage it is usually recommended that a project design is submitted detailing the work required, the time allocations, and costs (English Heritage 1991 (MAP 2), 15-19). However, the importance of this site is very dependent upon its age, and much of the post-excavation analysis will depend upon the results of the radiocarbon dating programme. It is, therefore, recommended that the next stage of the work be charcoal identification, followed by the submission of charcoal (SF 02) for a radiocarbon date. Once the date of the charcoal has been established it will be possible to re-assess the importance of the site, and detail the remainder of the post-excavation analysis required.

Bibliography

English Heritage, 1991 Management of Archaeological Projects (MAP 2)



Figure 1: Site location



Figure 2: location of plots 8 and 9 within area of industrial park extension



Figure 3: plan of feature 2 fully excavated





Plate 2: the site of the fire (07)

Plate 1: feature 2 after initial cleaning



Plate 3: General view with context 12 in the foreground



Plate 4: cut 11 fully excavated viewed from the north-east



Plate 5: cut 11 fully excavated, viewed from the east

APPENDIX I Full context list

Context: 01

Trench: A/B	Category: Layer	Period: M	odern	
Length:	Breadth:	Depth: 0.8m		
Description:	Red brown clay			
Interpretation:	Modern leveling dep	osit. Laid down after 1	998. Overs all of the site.	
Below Top so	il Filled by:	Cut by:	Contemp with	
Above: 02	Fill of:	Cuts:		
Plans sheet no:		Plans drawing no:		
Sections sheet	no: 1	Sections drawing no: 1		
Samples:				

Context: 02

Trench: A	Category: Layer	Period:	Modern
Length:	Breadth:	Depth: c.0.15r	n
Description:	Grey-brown silty clay	y with some organi	c matter (eg grass) still preserved on surface.
Interpretation:	Top soil buried when reported that much to	01 was deposited. op soil was remove	May originally have been much thicker as it is d from this field. Present over much of the site.
Below 01	Filled by:	Cut by:	Contemp with
Above: 03	Fill of:	Cuts:	
Plans sheet no:		Plans drawing no	
Sections sheet	no: 1	Sections drawing	no: 1
Samples:			

Trench: A	Category: Layer	Period:				
Length:	Breadth:	Depth: 0.26m				
Description:	Brown, slightly claye	ayey silt containing some shale grit and mottled with manganese ox				
Interpretation:	Probably remains of J	olough soil layer below	buried top soil.			
Below 02	Filled by:	Cut by:	Contemp with			
Above: 04	Fill of:	Cuts:				
Plans sheet no:		Plans drawing no:				
Sections sheet	no: 1	Sections drawing no:	1.			
Samples:						

Context: 04 Trench: A Category: Layer Period: Length: >3.5m Depth: 0.3m Breadth: >3.4m Dark grey silty sand contaoning c.30% small rounded stones, and occasional flecks of Description: charcoal. Many of the stones are rotten and red in colour. There is some charcoal present close to the baulk, but most of the dark colour results from manganese oxide. Towards the E the deposits changes colour to yellow brown, with only occasional manganese mottles. This seems to be a single layer despite the change in colour. Interpretation: Stony deposit, probably natural, but with traces of charcoal from nearby burning mixed in. Probably a continuation of 26. Below 03 Filled by: Cut by: Contemp with 26? Above: 05 Fill of: Cuts: Plans sheet no: sketch plan Plans drawing no: Sections sheet no: 1 Sections drawing no: 1 Samples: Context: 05

Trench: A/B	Category: Layer	Period: Natural
Length:	Breadth:	Depth: ?
Description:	Yellowish clay. Varie gritty.	es across the site, someltimes more clayey, sometimes sandy and
Interpretation:	Natural subsoil, prese	nt over all the site. Probable glacial or fluvio-glacial origin.
Below 04, 26	Filled by:	Cut by: 11, 28 Contemp with
Above:	Fill of:	Cuts:
Plans sheet no:	2, 3, 5	Plans drawing no: 2, 3, 6
Sections sheet r	no: 1	Sections drawing no: 1
Samples:		

Context: 06

Trench: B	Category:	Fill	Р	eriod:	
Length: c.3.6m	Breadth:	2.8m	Depth: (0.6m	
Description:	Loose, very o Some of the s identify. It m	lark brow stones ha erged int	n or black, ve been bur o a fairly cl	sandy silt co rnt. The easte narcoal free p	ontaining 40% stones and c.5% charcoal. ern limit of this fill was difficult to grey silt which in turn merged into 09.
Interpretation:	Fill of 11 con 07.	taining b	urnt stone a	and charcoal	presumably originating from the fire on
Below 9a	Filled b	y:	Cut	by:	Contemp with
Above: 7, 14, 1	7 Fill of:	11	Cuts	5:	
Plans sheet no:	2		Plans draw	ing no: 2	
Sections sheet n	o: 4		Sections dr	rawing no: 5	5
Samples: 01.0	2.09				

Context: 07

Trench: B	Category:	Fire site	1	Period:	
Length: 1.8m	Breadth:	1.6m	Depth:	0.02m	
Description:	Maleable, stre	ong red-br	own, grit	ty clay.	
Interpretation:	Area of heat a clay surface. was lit, but th	altered nat Burning e e fire was	ural clay xtends ov certainly	marking er edge o used wit	location of fire built directly on the natural f 11, showing that 11 was dug before the fire h pit 11.
Below 6, 10, 8	? Filled b	y:	Cut	t by:	Contemp with
Above: 11	Fill of:		Cut	ls:	
Plans sheet no:	2, 5, 6	F	lans drav	ving no:	2, 6, 10
Sections sheet r	10: 4,4	: 4, 4 Sections drawing no: 5, 7			

Samples:

Context: 08

Trench: B	Category: Layer	Period:	
Length: 1.4m	Breadth: >0.6m	Depth: 0.05m	
Description:	Small patch of brown	clayey silt with some	manganese mottling. Similar to 03.
Interpretation:	Probably small patch of	of surviving plough so	bil = 03.
Below 01	Filled by:	Cut by:	Contemp with 03?
Above: 07	Fill of:	Cuts:	
Plans sheet no:	2	Plans drawing no: 2	
Sections sheet r	10;	Sections drawing no:	
Samples:			

Context: 09a

Trench: B	Category:	Fill		Period:	
Length: c.2.5m	Breadth:	c2.2m	Depth:	0.2m	
Description:	Maleable, mi	d brown,	silty clay	with 30%	6 small stones including rotting red sandstone.
Interpretation:	Fill of 11, get 06. Probably destinguish b were probabl be identified.	nerally ov 26 which etween 9a y entirely	erlies 06 has been a and 9b different	, but along a dug out a on the gro t contexts,	g N side very similar deposit extended under and redeposited. It was impossible to und, but after excavation it was felt that they though the boundary between them could not
Below 25	Filled b	y:	Cu	ıt by:	Contemp with
Above: 06	Fill of:	11	Cu	its:	
Plans sheet no:	2, 5		Plans dra	wing no:	2, 6
Sections sheet r	10: 3, 4, 4	1	Sections	drawing n	0: 9, 5, 7
Samples:					

Context: 09b Trench: B Category: Fill Period: Natural? Length: c2.5m Breadth: c2.0m Depth: 0.4m Maleable, mid brown, silty clay with 30% small stones including rotting red sandstone. Description: Interpretation: Fill of 28. Probably an in situ but altered version of 26. It was impossible to destinguish between 9a and 9b on the ground, but after excavation it was felt that they were probably entirely different contexts, though the boundary between them could not be identified. Below Filled by: Cut by: 11?? Contemp with 26 Above: 28 Fill of: 28 Cuts: Plans drawing no: 2, 6 Plans sheet no: 2, 5 Sections sheet no: 3, 4, 4 Sections drawing no: 9, 5, 7 Samples: 04

Trench: B	Category: Layer	Period:	
Length: 0.8m	Breadth: 0.8m	Depth: 0.12m	
Description:	Fairly loose, dark brow	wn, silty sand with 50	% small stones and c5% charcoal.
Interpretation:	Small deposit of burnt	material simialr to 06	5. Discontinuous part of 06
Below 08	Filled by:	Cut by:	Contemp with 06
Above: 07	Fill of:	Cuts:	
Plans sheet no:	2	Plans drawing no: 2	
Sections sheet	no: 4	Sections drawing no:	5
Samples: 08			

Context: 11

Trench: B	Category: C	ut	Period:	
Length: 3.8m	Breadth: 2	.2m De	pth: 0.5m	
Description:	Large rectangul into vertically s and sharply def end of this inne	ar cut, align ided, trapezo ined, though r cut was a s	ed NE-SW, with oidal inner cut (2 i its vertical edge shallow semi-cire	fairly gently sloping upper edges leading 2.65 x 1.2m max). The inner cut was neatly as had slumped inwards in places. At the NE cular hollow [20].
Interpretation:	Pit or tank used	in association	on with fire on 0	7.
Below 18	Filled by:	9a, 6, 14,	Cut by:	Contemp with
Above:	Fill of:		Cuts: 26, 05,	
Plans sheet no:	5,6	Plans	drawing no: 6,	10
Sections sheet	no: 4,4	Sectio	ons drawing no:	5,7

Samples:

Context: 12

Trench: B	Category: Fill	Period:	
Length:	Breadth:	Depth: 0.23m	
Description:	Gritty dark grey-bro charcoal. Lower int	own clayey silt with blac erface is diffuse.	ck mottling and c70% small stones and c3%
Interpretation:	Area of 26 altered b	by burning	
Below 25	Filled by:	Cut by:	Contemp with
Above: 13	Fill of: 13	Cuts:	
Plans sheet no:	EDM	Plans drawing no:	
Sections sheet i	no: 3,3	Sections drawing no:	3, 8
Samples: 07			

Trench: B	Category: Cut	Period:	
Length:	Breadth:	Depth: 0.23m	
Description:	Narrow linear featur	e running along W edg	e of 26. V irregular in plan and section.
Interpretation:	Not a true cut, but th	e extent of influence of	f the fire on 26.
Below 12	Filled by: 12	Cut by:	Contemp with
Above: 26	Fill of:	Cuts: 26	
Plans sheet no:	EDM	Plans drawing no:	
Sections sheet	no: 3,3	Sections drawing no:	3, 8
Samples:			

Context: 14

Trench: B Category: Fill Period: Length: c2.8m Breadth: c1.2m Depth: 0.36m ma Description: Slightly greenish brown sandy clay containing 50% small and medium sized stones and occasional charcoal. Stones generally larger than in 06, and there are some voids between the stones. Interpretation: Lower, unburnt fill of 11 Below 06 Filled by: Cut by: Contemp with Above: 17 Fill of: 11 Cuts: Plans sheet no: Plans drawing no: Sections sheet no: 4 Sections drawing no: 5 Samples:

Context: 15

Trench: B	Category: Cut	Period:	
Length:	Breadth:	Depth: 0.12m	
Description:	Elongated oval area with rather irregular sides and base.		
Interpretation:	Not a true cut, but th	e extent of influence of	the fire on 26.
Below 16	Filled by: 16	Cut by:	Contemp with
Above: 26	Fill of:	Cuts: 26	
Plans sheet no:	EDM	Plans drawing no:	
Sections sheet r	10: 3	Sections drawing no: 4	
Samples:			

Trench: B	Category:	Fill	Period:	
Length:	Breadth:		Depth: 0.12m	
Description:	Gritty dark gre and c3% charc	ey-brow coal. Lo	n clayey silt with bl wer interface is diff	lack mottling and c70% small angular stones use.
Interpretation:	Area of 26 alte	ered by	burning	
Below 25	Filled by	/ :	Cut by:	Contemp with
Above: 15	Fill of:	15	Cuts:	
Plans sheet no:	EDM		Plans drawing no:	
Sections sheet i	no: 3		Sections drawing n	o: 4
Samples: 10				

Context: 17				
Trench: B	Category: Fill	Period:		
Length: c3.4m	Breadth: 1.2m	Depth: 0.05m		
Description:	Dark grey sandy cla probably embedded in large pieces, incl patches along the b where it extends be it extends over 20 f	ty containing c10% charc i into 17 from the layer ab uding a charred timber me ase of 11 and up its weste yong the rectangular end ragments of cow teeth we	oal and c20% stones. The stones are bove (14). Some of the charcoal is present easuring 0.38 x 0.09m (SF 02). 17 occurs in rn end, but it is best preserved at the E end, of 11 and forms the upper fill of 20. Where re found (SF 01).	
Interpretation:	Possible erosion de	posit, but contains charco	al from the use of the fire and pit.	
Below 14, 27	Filled by:	Cut by:	Contemp with	
Above: 18, 19	Fill of: 11, 2	20 Cuts:		
Plans sheet no:	5	Plans drawing no: 6		
Sections sheet i	no:	Sections drawing no:		
Samples: 03,	06			
Context: 18				
Trench: B	Category: Fill	Period:		
Length: 2.2m	Breadth: 0.2m	Depth: 0.05m		
Description:	Dark reddish brown clayey sand containing some charcoal and occasional small stones. Only present along NW and NE sides of 11 where it has built up against the base of the sides and in hollows in the base.			
Interpretation:	Seems to originate sides of the cut.	from sand eroding from the	he sandier natural forming the NW and NE	
Below 17	Filled by;	Cut by:	Contemp with	
Above: 11, 21	Fill of: 11	Cuts:		
Plans sheet no:	5	Plans drawing no: 6		
Sections sheet	no:	Sections drawing no:		
Samples:				

Context: 19

Trench: B	Category:	Fill	Period:	
Length: 0.8m	Breadth:	0.64m	Depth: 0.07m	
Description:	Reddish brow some lumps o	vn silty : of grey a	sand similar to 18, with and yellow clay.	c20% small stones, occasional charcoal and
Interpretation:	Fill of 20. Pro	obably d	lue to natural erosion.	
Below 17	Filled b	y:	Cut by:	Contemp with
Above: 20	Fill of:	20	Cuts:	
Plans sheet no:	6		Plans drawing no: 10	
Sections sheet r	no:		Sections drawing no:	
Samples:				

Context: 20

Trench: B	Category:	Cut	Period:		
Length: 0.8m	Breadth:	0.64m	Depth: 0.13m		
Description:	Semi-circular	cut at N	E end of 11. Fairly sto	eep sides curve gent	ly into a flat base.
Interpretation:	Semi-circular	shallow	cut, almost certainly	related to the use of	11.
Below 19	Filled by	y: 19	Cut by:	Contemp with	11
Above: 5	Fill of:		Cuts: 5		
Plans sheet no:	6		Plans drawing no: 10	0	
Sections sheet r	10: 4		Sections drawing no:	7	
Samples:					

Trench: B	Category: Fill	Period: N	atural?
Length: 0.32m	Breadth: 0.24m	Depth: 0.24m	
Description:	Yellow-brown sticky	clay with some mang	enese oxide and small rounded stones.
Interpretation:	Fill of 22		
Below 18	Filled by:	Cut by: 11?	Contemp with
Above: 22	Fill of: 22	Cuts:	
Plans sheet no:		Plans drawing no:	
Sections sheet n	0:	Sections drawing no	
Samples:			

Context: 22

Trench: B	Category: Cut	Period:	Natural?
Length: 0.32m	Breadth: 0.24	m Depth: 0.24m	
Description:	Oval hole in E cor and resembles a po defined.	ner of 11. Has steep s st-hole, but to S it co	sides and rounded base. N end is well defined ontinues under the side of 11, and is poorly
Interpretation:	Initially thought to and continuation of caused by the diss	be a post-hole, but f f 22 under the side o plution and alteration	ill is very clean, and not typical of post-hole fill f 11 makes it appear more natural. Probably of the natural clay.
Below 21	Filled by: 2	Cut by:	Contemp with
Above: 5	Fill of:	Cuts: 5	
Plans sheet no:	6	Plans drawing no	p: 10
Sections sheet r	10:	Sections drawing	g no:
Samples:			

Context: 23

Trench: B	Category: Fill	Period:	
Length: 0.35m	Breadth: 0.12m	Depth: 0.07m	
Description:	Grey clay with occas	sional charcoal and very	small stones.
Interpretation:	Fill of 24. Similar to	17.	
Below 17	Filled by:	Cut by:	Contemp with
Above: 24	Fill of: 24	Cuts:	
Plans sheet no:		Plans drawing no:	
Sections sheet no	0:	Sections drawing no:	
Samples:			

Trench: B	Category: Cut	Period:	
Length: 0.35m	Breadth: 0.12m	Depth: 0.07m	
Description:	Narrow slot continuin	g the line of the NW ed	lge of 11.
Interpretation:	Possile impresion of t	imber. Contemporary v	vith and part of 11.
Below 23	Filled by: 23	Cut by:	Contemp with 11
Above: 5	Fill of:	Cuts: 5	
Plans sheet no:	6	Plans drawing no: 10	
Sections sheet n	10.	Sections drawing no:	
Samples			

Context: 25

Trench: B	Category: Lay	er Period		
Length:	Breadth: >4n	Depth: 0.6m		
Description:	Soft, grey manganese mottled clayey silt.Generally contains relatively few stones, except along the interface with 26, where many stones are mixed into 25. Fills broad hollow along E of excavated area.			
Interpretation:	Remains of old ple to either 02 or 03.	ough soil or topsoil, survi Grey colour may be due	ving here because it is in the hollow. Equal to incipient gleying.	
Below 01	Filled by:	Cut by:	Contemp with	
Above: 12, 16	, 09 Fill of:	Cuts:		
Plans sheet no:		Plans drawing no:		
Sections sheet i	no: 3	Sections drawing no:	3, 4, 8	

Samples:

Trench: B	Category: Layer	Period:	
Length:	Breadth: c3m	Depth: c0.4m	
Description:	Compact gritty clay v brown. Compacted an flecks of charcoal nea	with c50% stones. Colou nd partially concreted. C ar burnt features. The su	or variable from mid brown to dark grey Contains mangenese precipitates and some orface is disturbed and mixed with 25.
Interpretation:	Natural fluvio-glacia	deposit. 13 and 15 are	areas of burning on this surface.
Below 13, 15	Filled by:	Cut by: 11	Contemp with
Above: 05	Fill of:	Cuts:	
Plans sheet no:	5	Plans drawing no: 6	
Sections sheet r	no: 3	Sections drawing no:	3, 4, 8
Samples: 05			

Context: 27

Trench: B	Category: Fill		Period:	
Length: 0.8m	Breadth: 0.15m	Depth:	0.12m	
Description:	Ledge of yellow silty Excavation showed th piece into the base of	clay in ba at this wa the cut.	se of cut 11 s a block of	at its SW end. 17 extends under this ledge. the upper edge of 11 which had fallen in one
Interpretation:	Block fallen from edg	e of 11.		
Below 14	Filled by:	Cu	it by:	Contemp with
Above: 17	Fill of: 11	Cu	its:	
Plans sheet no:	5	Plans dra	wing no: 6	
Sections sheet	no: 4	Sections	drawing no:	7
Samples:				
Context: 28				
Trench: B	Category: Cut		Period: Na	atural?
Length: >3m	Breadth: >2.5m	Depth:	0.4m	
Description:	Linear hollow with ge are gradual. Runs NW not be seen, but seem	ntly slopi from cut s likely the	ng W side a 11. The boi at 11 cuts th	nd flat base. Top and bottom breaks of slope andary between the fills of 11 and 28 could e fills of 28.
Interpretation:	Natural hollow contain 11 could not be demo archaeological feature	ning 26 ar nstrated o	nd its altered n the ground	l form (9b). The relationship between 28 and d, but it seems unlikely the 28 is part of the
Below 9b	Filled by: 9b	Cı	it by:	Contemp with

Below 9b	Filled by: 9b	Cut by:	Contemp
Above: 05	Fill of:	Cuts: 05	
Plans sheet no: 5, 6		Plans drawing no: 6, 10	
Sections sheet no: 3		Sections drawing no: 9	

Samples:

APPENDIX II Registers of samples, small finds and site drawings

111	1511	22
11	10/1	12

Sample N Context	Material	Quantity	Description	Location	Date
106	soil	2 bags	soil for wet sieving		08/01/02
2 06	stone	1 bag	stone for analysis		08/01/02
3 17	soil	1 bag	soil for wet sieving		08/01/02
4 09b	stone and soil	1 bag	stone for analysis		08/01/02
5 26	stone and soil	1 bag	stone for analysis		08/01/02
617	charcoal		charred timber for C14		08/01/02
7 12	charcoal		hand picked charcoal		08/01/02
8 10	charcoal		hand picked charcoal		08/01/02
96	charcoal		hand picked charcoal		08/01/02
10 16	charcoal		hand picked charcoal		08/01/02

FINDNO	CONTEXT	MATERIAL	Period	Description	Specialist's re	LOCATION	DATE
1	17	Tooth	?	Fragments of cow teeth			03/01/02
2	17	Charcoal	?	Charred timber			03/01/02

Drawings

ID	Sheet No.	Drawing No.	Sheet Size	Scale	Description	Date
1	1	1	A2	1:20	S facing section in Tr A	29/11/01
2	2	2	A2	1:20	Pre-ex plan of cut 11	18/12/01
3	3	3	A2	1:10	N facing section of cut 13	19/12/01
4	3	4	A2	1:10	S facing section of cut 15	19/12/01
5	4	5	A2	1:20	N facing section of 11	20/12/01
6	5	6	A2	1:20	Cut 11 partially excavated	21/12/01
7	4	7	A2	1:20	Profile of cut 11	04/01/02
8	3	8 8	A2	1:10	N facing section showing slope of 26	04/01/02
9	3	9 9	A2	1:10	W facing section of sondage to investigate 28	04/01/02
10	6	5 10	A2	1:20	Cut 11 fully excavated	04/01/02

APPENDIX III Photographic register

Photographic record

Film number		5 Ftype	СР		
Neg No.	Context A	Context B	Description	View from	Date
4	07	06, 10	Area of burning when first cleaned up	S	18/12/01
5	07	06, 10	Area of burning when first cleaned up	s	18/12/01
6	07	06, 10	Area of burning when first cleaned up	sw	18/12/01
7	07	06, 10	Area of burning when first cleaned up	sw	18/12/01
8	06	07, 10	Whole of feature 2 cleaned up	S	18/12/01
9	06	07, 10	Whole of feature 2 cleaned up	S	18/12/01
10	06	07, 10, 09	Whole of feature 2 cleaned up	N	18/12/01
11	06	07, 10, 09	Whole of feature 2 cleaned up	N	18/12/01
12	06	07, 10, 09, 26	Feature 2 and part of 26 cleaned up	NW	18/12/01
13	06	07, 10, 09, 26	Feature 2 and part of 26 cleaned up	NW	18/12/01
14	f1	06, 07, 10, 09	Cut 11 partially excavated	SW	19/12/01
15	11	06, 07, 10, 09	Cut 11 partially excavated	sw	19/12/01
16	07	06, 10	10 half excavated over the fire site (07)	SW	19/12/01
17	07	06, 10	10 half excavated over the fire site (07)	sw	19/12/01
18	06	14, 11	SW end section through cut 11	w	19/12/01
19	06	14, 11	SW end section through cut 11	w	19/12/01
20	06	09, 14, 11	NE end section through cut 11	w	19/12/01
21	06	09, 14, 11	NE end section through cut 11	w	19/12/01
22	11	06, 09, 14	NE end of cut 11, partially excavated	SW	20/12/01
23	11	06, 09, 14	NE end of cut 11, partially excavated	SW	20/12/01
24	п	06, 09, 14	NE end of cut 11, showing what was thought to be the end of 11, but which proved to be just a tip line in the fills	SW	20/12/01
25	11	06, 09, 14	NE end of cut 11, showing what was thought to be the end of 11, but which proved to be just a tip line in the fills	SW	20/12/01
26	13	12, 26	Section through cut 13	N	20/12/01
27	13	12, 26	Section through cut 13	N	20/12/01
28	12	13, 26	12 in plan	S	20/12/01

Tuesday, January 15, 2002

Page 1 of 5

29	12	13, 26	12 in plan	S	20/12/01
30	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
31	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
32	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
33	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
34	17	11	17 in NE end of 11	E	03/01/02
35	17	11	17 in NE end of 11	E	03/01/02
36	17	11	17 in NE end of 11	SW	03/01/02

Film number 6 Ftype CP

Neg No.	Context A	Context B	Description	View from	Date
0	17	11	17 in NE end of 11	SW	03/01/02
1	17	11	17 in NE end of 11	sw	03/01/02
2	17		Detail of SF 02	E	03/01/02
3	17		Detail of SF 02	E	03/01/02
4	18	11	18 built up against base of side of 11	E	03/01/02
5	18	11	18 built up against base of side of 11	Е	03/01/02
6	20	11, 19	NE end of 11 showing 20	SW	03/01/02
7	20	11, 19	NE end of 11 showing 20	SW	03/01/02
8	20	11, 19	NE end of 11 showing 20	Е	03/01/02
9	20	11, 19	NE end of 11 showing 20	Е	03/01/02
10	11	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
11	11	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
12	11	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
13	11	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
14	11	20	Cut 11 fully excavated except for some loose frozen to the base	S	04/01/02
15	11	20	Cut 11 fully excavated except for some loose frozen to the base	W	04/01/02
16	11	20	Cut 11 fully excavated except for some loose frozen to the base	w	04/01/02

Tuesday, January 15, 2002

Page 2 of 5

17	11	07	Cut 11 fully excavated, showing relationship with 07	SW	07/01/02	
18	- 11	07	Cut 11 fully excavated, showing relationship with 07	SW	07/01/02	
19	\mathbf{n}		Cut 11 fully excavated	NE	07/01/02	
20	- 11		Cut 11 fully excavated	NE	07/01/02	
21	11		Cut 11 fully excavated	N	07/01/02	
22	11		Cut 11 fully excavated	N	07/01/02	
23	ĨĨ		Cut 11 fully excavated	E	07/01/02	
24	11		Cut 11 fully excavated	Е	07/01/02	
25	11	07	SW end of cut 11 fully excavated, 27 removed	NE	07/01/02	
26	11	07	SW end of cut 11 fully excavated, 27 removed	NE	07/01/02	
27	11	07	SW end of cut 11 fully excavated, 27 removed	NE	07/01/02	
28	11		Cut 11 fully excavated	SW	07/01/02	
29	11		Cut 11 fully excavated	SW	07/01/02	
30	11		Cut 11 fully excavated	sw	07/01/02	
31	11		Cut 11 fully excavated	NE	07/01/02	
32	11		Cut 11 fully excavated	NE	07/01/02	
33	11		General view looking N	S	07/01/02	
34	11		General view looking N	S	07/01/02	
35	11		General view looking S	N	07/01/02	
36	11		General view looking E	W	07/01/02	

Film number 7 Ftype CS

Neg No.	Context A	Context B	Description	View	Date
1	06	07	Feature 2 cleaned up	SW	18/12/01
2	06	07	Feature 2 cleaned up	sw	18/12/01
3	07	06	Area of burning cleaned up	w	18/12/01
4	07	06	Area of burning cleaned up	w	18/12/01
5	06	07	Feature 2 cleaned up	SW	18/12/01

Film number 8

Ftype CS

Page 3 of 5

Neg No.	Context A	Context B	Description	View from	Date
1	06	07, 10	Whole of feature 2 cleaned up	S	18/12/01
2	06	07, 10, 09	Whole of feature 2 cleaned up	N	18/12/01
3	06	07, 10, 09	Whole of feature 2 cleaned up	N	18/12/01
4	06	07, 10, 09, 26	Feature 2 and part of 26 cleaned up	NW	18/12/01
5	06	07, 10, 09, 26	Feature 2 and part of 26 cleaned up	NW	18/12/01
6	11	06, 07, 10, 09	Cut 11 partially excavated	sw	19/12/01
7	11	06, 07, 10, 09	Cut 11 partially excavated	SW	19/12/01
8	07	06, 10	10 half excavated over the fire site (07)	sw	19/12/01
9	07	06, 10	10 half excavated over the fire site (07)	sw	19/12/01
10	06	14, 11	SW end section through cut 11	w	19/12/01
11	06	14, 11	SW end section through cut 11	w	19/12/01
12	06	09, 14, 11	NE end section through cut 11	w	19/12/01
13	06	09, 14, 11	NE end section through cut 11	w	19/12/01
14	11	06, 09, 14	NE end of cut 11, partially excavated	SW	20/12/01
15	11	06, 09, 14	NE end of cut 11, partially excavated	sw	20/12/01
16	11	06, 09, 14	NE end of cut 11, showing what was thought to be the end of 11, but which proved to be just a tip line in the fills	SW	20/12/01
17	11	06, 09, 14	NE end of cut 11, showing what was thought to be the end of 11, but which proved to be just a tip line in the fills	SW	20/12/01
18	13	12, 26	Section through cut 13	N	20/12/01
19	12	13, 26	12 in plan	S	20/12/01
20	-11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
21	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
22	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
23	11	27	SW end of cut 11 fully excavated except for 27	NE	21/12/01
24	17	11	17 in NE end of 11	Е	03/01/02
25	17	11	17 in NE end of 11	Е	03/01/02
26	17	11	17 in NE end of 11	SW	03/01/02
27	17	11	17 in NE end of 11	SW	03/01/02
28	17		Detail of SF 02	E	03/01/02

Tuesday, January 15, 2002

Page 4 of 5

29	17		Detail of SF 02	Е	03/01/02
30	18	11	18 built up against base of side of 11	Е	03/01/02
31	18	11	18 built up against base of side of 11	E	03/01/02
32	20	11, 19	NE end of 11 showing 20	sw	03/01/02
33	20	11, 19	NE end of 11 showing 20	sw	03/01/02
34	20	11, 19	NE end of 11 showing 20	E	03/01/02
35	20	11, 19	NE end of 11 showing 20	Е	03/01/02
36	11	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
37	Ú>	20	Cut 11 fully excavated except for some loose frozen to the base	NE	04/01/02
38	11	20	Cut 11 fully excavated except for some loose frozen to the base	W	04/01/02